

**En Bloc Amendments to
H.R. 1540
National Defense Authorization Act for Fiscal Year 2012
Wednesday, May 11, 2011**

Emerging Threats and Capabilities Subcommittee
En Bloc Package #1

Log #	Sponsor		Description
1	Rep.	Critz	Provides additional \$5 million to Army RDTE for advancement of technologies from SBIR.
8	Rep.	West	Provides additional \$2.5 million for Defense Research Sciences to conduct research into coastal magnetic and electric fields.
22	Rep.	Andrews	Provides additional \$3 million for Army communications and networking.
23	Rep.	Andrews	Provides additional \$4 million for Army information processing systems.
24	Rep.	Andrews	Provides additional \$4 million for Army night vision technologies.
31	Rep.	Castor	Provides additional \$2 million for Army healthcare informatics tools.
35	Rep.	Roby	Provides additional \$6 million for Army mission planning and support tools.
46	Rep.	Tsongas	Provides additional \$4 million for nanomaterials and manufacturing processes.
58	Rep.	Akin	Provides an additional \$30 million for weapons and munitions technology development by small and non-traditional businesses.
59	Rep.	LoBiondo	Provides additional \$8 million for enhanced low-light level visual sensors.
63	Rep.	LoBiondo	Provides additional \$5.1 million for lightweight body armor.
72	Rep.	Young	Provides additional \$15 million for microelectronics research.
75	Rep.	Gibson	Provides additional \$7.0 million for nanotechnology research.
91	Rep.	Rogers	Provides additional \$6.25 million for missile simulation technology.
92	Rep.	Rogers	Provides additional \$1.5 million for composite packaging and structural materials development.
103	Rep.	Owens	Provides additional \$4 million for cyber workforce development.
108	Rep.	Loebsack	Provides additional \$2.5 million for munitions and weapons systems manufacturing development.
112	Rep.	Shuster	Provides additional \$2 million for development of information sharing systems.
113	Rep.	Shuster	Provides additional \$9 million for small business technology transfer efforts.

AMENDMENT TO H.R. 1540
OFFERED BY MR. CRITZ OF PENNSYLVANIA
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 139 for Small Business Innovative Research, insert a new budget item in the amount of \$5,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$5,000,000.

At the end of title II, add the following new section:

- 1 **SEC. 2** __. **BUDGET ITEM RELATING TO SMALL BUSINESS**
2 **INNOVATIVE RESEARCH.**
- 3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$0 for Small Business Innovative
7 Research. Of the amounts authorized to be appropriated
8 by section 201, as specified in the corresponding funding
9 table in division D, the Secretary of the Army shall obli-
10 gate an additional \$5,000,000 to accelerate the use of

1 technologies from the small business innovative research
2 program into Army acquisition programs of record in fur-
3 therance of national security objectives.

4 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
5 decision to commit, obligate, or expend funds referred to
6 in the second sentence of subsection (a) with or to a spe-
7 cific entity shall—

8 (1) be based on merit-based selection proce-
9 dures in accordance with the requirements of sec-
10 tions 2304(k) and 2374 of title 10, United States
11 Code, or on competitive procedures; and

12 (2) comply with other applicable provisions of
13 law.



1 technologies from the small business innovative research
2 program into Army acquisition programs of record in fur-
3 therance of national security objectives.

4 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
5 decision to commit, obligate, or expend funds referred to
6 in the second sentence of subsection (a) with or to a spe-
7 cific entity shall—

8 (1) be based on merit-based selection proce-
9 dures in accordance with the requirements of sec-
10 tions 2304(k) and 2374 of title 10, United States
11 Code, or on competitive procedures; and

12 (2) comply with other applicable provisions of
13 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. WEST OF FLORIDA
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Navy, Line 003 for Defense Research Sciences, insert a new budget item in the amount of \$2,500,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$2,500,000.

At the end of title II, add the following new section:

1 **SEC. 2___. BUDGET ITEM RELATING TO DEFENSE RE-**
2 **SEARCH SCIENCES.**

3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$446,123,000 for defense re-
7 search sciences. Of the amounts authorized to be appro-
8 priated by section 201, as specified in the corresponding
9 funding table in division D, the Secretary of the Navy
10 shall obligate an additional \$2,500,000 to conduct re-

1 search into the magnetic and electric fields of the coastal
2 ocean environment in furtherance of national security ob-
3 jectives.

4 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
5 decision to commit, obligate, or expend funds referred to
6 in the second sentence of subsection (a) with or to a spe-
7 cific entity shall—

8 (1) be based on merit-based selection proce-
9 dures in accordance with the requirements of sec-
10 tions 2304(k) and 2374 of title 10, United States
11 Code, or on competitive procedures; and

12 (2) comply with other applicable provisions of
13 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. ANDREWS OF NEW JERSEY
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 034 for Command, Control, Communications Advanced Technology, insert a new budget item in the amount of \$ 3,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$3,000,000.

At the end of title II, add the following new section:

1 SEC. 2___ BUDGET ITEM RELATING TO COMMUNICATIONS
2 ADVANCED TECHNOLOGY.

3 (a) ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-
4 ITY —In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$5,312,000 for re-
7 search, development, test and evaluation, Army, for com-
8 munications advanced technology. Of the amounts author-
9 ized to be appropriated by section 201, as specified in the

1 corresponding funding table in division D, the Secretary
2 of the Army shall obligate an additional \$ 3 ,000,000
3 for the development of communications and information
4 networking technologies to support Army requirements in
5 furtherance of national security objectives.

6 (b) MERIT-BASED OR COMPETITIVE DECISIONS —A
7 decision to commit, obligate, or expend funds referred to
8 in the second sentence of subsection (a) with or to a spe-
9 cific entity shall—

10 (1) be based on merit-based selection proce-
11 dures in accordance with the requirements of sec-
12 tions 2304(k) and 2374 of title 10, United States
13 Code, or on competitive procedures; and

14 (2) comply with other applicable provisions of
15 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. ANDREWS OF NEW JERSEY
(Defense Authorization Bill)

In section 4101 of division D, relating to Other Procurement, Army, for electronic equipment- automation, insert a new budget item in the amount of \$4,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$4,000,000.

At the end of title I, add the following new section:

1 **SEC. 1___.** **BUDGET ITEM RELATING TO ELECTRONIC**
2 **EQUIPMENT- AUTOMATION.**
3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$335,664,000 for electronic
7 equipment- automation. Of the amounts authorized to be
8 appropriated by section 101, as specified in the cor-
9 responding funding table in division D, the Secretary of
10 the Army shall obligate an additional \$4,000,000 for sup-
11 port of the deployment and adoption of new information

1 processing systems in furtherance of national security ob-
2 jectives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code, or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. ANDREWS OF NEW JERSEY
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 019 for Night Vision Technology, insert a new budget item in the amount of \$ 4,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$4,000,000.

At the end of title II, add the following new section:

1 **SEC. 2__.** **BUDGET ITEM RELATING TO NIGHT VISION**
2 **TECHNOLOGY.**
3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$39,813,000 for re-
7 search, development, test and evaluation, Army, for night
8 vision technology. Of the amounts authorized to be appro-
9 priated by section 201, as specified in the corresponding
10 funding table in division D, the Secretary of the Army

1 shall obligate an additional \$4,000,000 to develop
2 radio frequency signals intelligence processing equipment
3 and associated applications in furtherance of national se-
4 curity objectives.

5 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
6 decision to commit, obligate, or expend funds referred to
7 in the second sentence of subsection (a) with or to a spe-
8 cific entity shall—

9 (1) be based on merit-based selection proce-
10 dures in accordance with the requirements of sec-
11 tions 2304(k) and 2374 of title 10, United States
12 Code, or on competitive procedures; and

13 (2) comply with other applicable provisions of
14 law.



AMENDMENT TO H.R. 1540
OFFERED BY MS. CASTOR OF FLORIDA
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 003 for University Research Initiatives, insert a new budget item in the amount of \$2,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$2,000,000.

At the end of title II, add the following new section:

1 **SEC. 2** ____. **BUDGET ITEM RELATING TO CLINICAL CARE**
2 **AND RESEARCH.**
3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$80,977,000 for University Re-
7 search Initiatives. Of the amounts authorized to be appro-
8 priated by section 201, as specified in the corresponding
9 funding table in division D, the Secretary of the Army
10 shall obligate an additional \$2,000,000 for the develop-

1 ment of informatics tools to support clinical care and re-
2 search in furtherance of national security objectives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code, or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



AMENDMENT TO H.R. 1540
OFFERED BY MRS. ROBY OF ALABAMA
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 025 for Military Engineering Technology, insert a new budget item in the amount of \$6,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$6,000,000.

At the end of title II, add the following new section:

1 **SEC. 2** ____. **BUDGET ITEM RELATING TO ROTARY WING SUR-**
2 **FACES.**
3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$80,317,000 for Military Engi-
7 neering Technology. Of the amounts authorized to be ap-
8 propriated by section 201, as specified in the cor-
9 responding funding table in division D, the Secretary of
10 the Army shall obligate an additional \$6,000,000 for the

1 development of mission planning and support tools for ro-
2 tary wing surfaces in furtherance of national security ob-
3 jectives.

4 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
5 decision to commit, obligate, or expend funds referred to
6 in the second sentence of subsection (a) with or to a spe-
7 cific entity shall—

8 (1) be based on merit-based selection proce-
9 dures in accordance with the requirements of sec-
10 tions 2304(k) and 2374 of title 10, United States
11 Code, or on competitive procedures; and

12 (2) comply with other applicable provisions of
13 law.



AMENDMENT TO H.R. 1540
OFFERED BY MS. TSONGAS OF MASSACHUSETTS
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 005 for Materials Technology, insert a new budget item in the amount of \$4,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$4,000,000.

At the end of title II, add the following new section:

1 **SEC. 2___ . BUDGET ITEM RELATING TO MATERIALS TECH-**
2 **NOLOGY.**
3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$30,258,000 for Materials Tech-
7 nology. Of the amounts authorized to be appropriated by
8 section 201, as specified in the corresponding funding
9 table in division D, the Secretary of the Army shall obli-
10 gate an additional \$4,000,000 to develop innovative

1 nanomaterials and nanomanufacturing processes for
2 warfighter systems in furtherance of national security ob-
3 jectives.

4 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
5 decision to commit, obligate, or expend funds referred to
6 in the second sentence of subsection (a) with or to a spe-
7 cific entity shall—

8 (1) be based on merit-based selection proce-
9 dures in accordance with the requirements of sec-
10 tions 2304(k) and 2374 of title 10, United States
11 Code, or on competitive procedures; and

12 (2) comply with other applicable provisions of
13 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. AKIN OF MISSOURI
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 017 for weapons and munitions technology, insert a new budget item in the amount of \$30,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$30,000,000.

At the end of title II, add the following new section:

1 **SEC. 2** . . . **BUDGET ITEM RELATING TO WEAPONS AND MU-**
2 **NITIONS TECHNOLOGY.**

3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$ 57,203,000 or weap-
7 ons and munitions technology. Of the amounts authorized
8 to be appropriated by section 201, as specified in the cor-
9 responding funding table in division D, the Secretary of
10 the Army shall obligate an additional \$30,000,000 for the

1 development of weapons and munitions technologies by
2 small and non-traditional defense businesses in further-
3 ance of national security objectives.

4 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
5 decision to commit, obligate, or expend funds referred to
6 in the second sentence of subsection (a) with or to a spe-
7 cific entity shall—

8 (1) be based on merit-based selection proce-
9 dures in accordance with the requirements of sec-
10 tions 2304(k) and 2374 of title 10, United States
11 Code, or on competitive procedures; and

12 (2) comply with other applicable provisions of
13 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. LOBIONDO OF NEW JERSEY
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 019 for Night Vision Technology, insert a new budget item in the amount of \$8,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$8,000,000.

At the end of title II, add the following new section:

1 **SEC. 2__ . BUDGET ITEM RELATING TO NIGHT VISION**
2 **TECHNOLOGY.**
3 (a) ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-
4 ITY.—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$57,203,000 for Night Vision
7 Technology. Of the amounts authorized to be appropriated
8 by section 201, as specified in the corresponding funding
9 table in division D, the Secretary of the Army shall obli-
10 gate an additional \$8,000,000 for the development of en-

1 hanced low-light level visual sensors for persistent surveil-
2 lance and dismounted soldier applications in furtherance
3 of national security objectives.

4 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
5 decision to commit, obligate, or expend funds referred to
6 in the second sentence of subsection (a) with or to a spe-
7 cific entity shall—

8 (1) be based on merit-based selection proce-
9 dures in accordance with the requirements of sec-
10 tions 2304(k) and 2374 of title 10, United States
11 Code, or on competitive procedures; and

12 (2) comply with other applicable provisions of
13 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. LOBIONDO OF NEW JERSEY
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Navy, Line 016 for Force Protection Advanced Technology, insert a new budget item in the amount of \$5,100,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$5,100,000.

At the end of title II, add the following new section:

1 **SEC. 2___. BUDGET ITEM RELATING TO LIGHTWEIGHT**
2 **BODY ARMOR.**
3 (a) ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-
4 ITY.—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$64,057,000 for plasma treat-
7 ment of fiber for force protection. Of the amounts author-
8 ized to be appropriated by section 201, as specified in the
9 corresponding funding table in division D, the Secretary
10 of the Navy shall obligate an additional \$5,100,000 for

1 the development of new lightweight body armor in further-
2 ance of national security objectives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code, or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. YOUNG OF INDIANA
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Defense-wide, Line 050 for Generic Logistics R&D Technology Demonstrations, insert a new budget item in the amount of \$15,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$15,000,000.

At the end of title II, add the following new section:

1 **SEC. 2___. BUDGET ITEM RELATING TO SECURE MICRO-**
2 **ELECTRONICS.**

3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$23,887,000 for Generic Logistics
7 R&D Technology Demonstrations. Of the amounts author-
8 ized to be appropriated by section 201, as specified in the
9 corresponding funding table in division D, the Secretary

1 of Defense shall obligate an additional \$15,000,000 to
2 conduct research into the development, identification, and
3 management of secure microelectronics in furtherance of
4 national security objectives.

5 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
6 decision to commit, obligate, or expend funds referred to
7 in the second sentence of subsection (a) with or to a spe-
8 cific entity shall—

9 (1) be based on merit-based selection proce-
10 dures in accordance with the requirements of sec-
11 tions 2304(k) and 2374 of title 10, United States
12 Code, or on competitive procedures; and

13 (2) comply with other applicable provisions of
14 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. GIBSON OF NEW YORK
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 003 for University Research Initiatives, insert a new budget item in the amount of \$ 7 ,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$7,000,000.

At the end of title II, add the following new section:

1 **SEC. 2** __. **BUDGET ITEM RELATING TO UNIVERSITY RE-**
2 **SEARCH INITIATIVES.**
3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$80,977,000 for research,
7 development, test, and evaluation, Army, for university re-
8 search initiatives. Of the amounts authorized to be appro-
9 priated by section 201, as specified in the corresponding
10 funding table in division D, the Secretary of Defense shall

1 obligate an additional \$7 ,000,000 for multidisciplinary
2 research into nanotechnology science in furtherance of na-
3 tional security objectives.

4 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
5 decision to commit, obligate, or expend funds referred to
6 in the second sentence of subsection (a) with or to a spe-
7 cific entity shall—

8 (1) be based on merit-based selection proce-
9 dures in accordance with the requirements of sec-
10 tions 2304(k) and 2374 of title 10, United States
11 Code, or on competitive procedures; and

12 (2) comply with other applicable provisions of
13 law.



AMENDMENT TO H.R. 1540**OFFERED BY MR. ROGERS OF ALABAMA**

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 045 for Missile and Rocket Advanced Technology, insert a new budget item in the amount of \$6,250,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$6,250,000.

At the end of title II, add the following new section:

1 SEC. 2 __. BUDGET ITEM RELATING TO MISSILE AND
2 ROCKET ADVANCED TECHNOLOGY.

3 (a) ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-
4 ITY.—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$90,602,000 for Missile and
7 Rocket Advanced Technology. Of the amounts authorized
8 to be appropriated by section 201, as specified in the cor-
9 responding funding table in division D, the Secretary of
10 the Army shall obligate an additional
11 \$6,250,000 for the development of missile

1 simulation technology in furtherance of national security
2 objectives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code, or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



AMENDMENT TO H.R. 1540**OFFERED BY MR. ROGERS OF ALABAMA**

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 005 for Materials Technology, insert a new budget item in the amount of \$1,500,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$1,500,000.

At the end of title II, add the following new section:

1 **SEC. 2___. BUDGET ITEM RELATING TO MATERIALS TECH-**
2 **NOLOGY.**
3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$30,258,000 for Materials Tech-
7 nology. Of the amounts authorized to be appropriated by
8 section 201, as specified in the corresponding funding
9 table in division D, the Secretary of the Army shall obli-
10 gate an additional \$1,500,000 for the devel-
11 opment and demonstration of novel lightweight composite

1 packaging and structural materials in furtherance of na-
2 tional security objectives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code, or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. OWENS OF NEW YORK
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Air Force, Line 026 for Battlespace Knowledge Development and Demonstration, insert a new budget item in the amount of \$4,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$4,000,000.

At the end of title II, add the following new section:

1 **SEC. 2__.** **BUDGET ITEM RELATING TO BATTLESPACE**
2 **KNOWLEDGE DEVELOPMENT AND DEM-**
3 **ONSTRATION.**

4 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
5 **ITY.**—In the budget submitted to Congress under section
6 1105 of title 31, United States Code, for fiscal year 2012,
7 the President requested \$38,656,000 for battlespace
8 knowledge development and demonstration. Of the
9 amounts authorized to be appropriated by section 201, as

1 specified in the corresponding funding table in division D,
2 the Secretary of the Air Force shall obligate an additional
3 \$4,000,000 to conduct research and educational programs
4 that support cyber workforce development in furtherance
5 of national security objectives.

6 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
7 decision to commit, obligate, or expend funds referred to
8 in the second sentence of subsection (a) with or to a spe-
9 cific entity shall—

- 10 (1) be based on merit-based selection proce-
11 dures in accordance with the requirements of sec-
12 tions 2304(k) and 2374 of title 10, United States
13 Code, or on competitive procedures; and
14 (2) comply with other applicable provisions of
15 law.



AMENDMENT TO H.R. 1540**OFFERED BY MR. LOEBSACK OF IOWA**

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 032 for Weapons and Munitions Advanced Technology, insert a new budget item in the amount of \$2,500,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$2,500,000.

At the end of title II, add the following new section:

1 **SEC. 2___. BUDGET ITEM RELATING TO WEAPONS AND MU-**
2 **NITIONS ADVANCED TECHNOLOGY.**

3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$77,077,000 for Weapons and
7 Munitions Advanced Technology. Of the amounts author-
8 ized to be appropriated by section 201, as specified in the
9 corresponding funding table in division D, the Secretary
10 of the Army shall obligate an additional \$2,500,000 for
11 development of innovative manufacturing techniques and

1 processes for munitions and weapons systems in further-
2 ance of national security objectives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code, or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



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AMENDMENT TO H.R. 1540**OFFERED BY MR. SHUSTER OF PENNSYLVANIA**

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 155 for Army Tactical Command and Control Hardware and Software, insert a new budget item in the amount of \$2,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$2,000,000.

At the end of title II, add the following new section:

1 **SEC. 2___. BUDGET ITEM RELATING TO ARMY TACTICAL**
2 **COMMAND AND CONTROL HARDWARE AND**
3 **SOFTWARE.**
4 (a) ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-
5 ITY.—In the budget submitted to Congress under section
6 1105 of title 31, United States Code, for fiscal year 2012,
7 the President requested \$123,935,000 for Army tactical
8 command and control hardware and software. Of the
9 amounts authorized to be appropriated by section 201, as
10 specified in the corresponding funding table in division D,

1 the Secretary of the Army shall obligate an additional
2 \$2,000,000 for the development of interoperable na-
3 tional security information sharing systems in furtherance
4 of national security objectives.

5 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
6 decision to commit, obligate, or expend funds referred to
7 in the second sentence of subsection (a) with or to a spe-
8 cific entity shall—

9 (1) be based on merit-based selection proce-
10 dures in accordance with the requirements of sec-
11 tions 2304(k) and 2374 of title 10, United States
12 Code, or on competitive procedures; and

13 (2) comply with other applicable provisions of
14 law.



AMENDMENT TO H.R. 1540

OFFERED BY MR. SHUSTER OF PENNSYLVANIA

(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Air Force, Line 045 for Technology Transfer, insert a new budget item in the amount of \$9,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$9,000,000.

At the end of title II, add the following new section:

1 **SEC. 2___. BUDGET ITEM RELATING TO TECHNOLOGY**
2 **TRANSFER.**
3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$2,553,000 for technology trans-
7 fer. Of the amounts authorized to be appropriated by sec-
8 tion 201, as specified in the corresponding funding table
9 in division D, the Secretary of the Air Force shall obligate
10 an additional \$9,000,000 for small business technology

1 transfer efforts into major Department of Defense acquisi-
2 tion programs of record in furtherance of national security
3 objectives.

4 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
5 decision to commit, obligate, or expend funds referred to
6 in the second sentence of subsection (a) with or to a spe-
7 cific entity shall—

8 (1) be based on merit-based selection proce-
9 dures in accordance with the requirements of sec-
10 tions 2304(k) and 2374 of title 10, United States
11 Code, or on competitive procedures; and

12 (2) comply with other applicable provisions of
13 law.



**En Bloc Amendments to
H.R. 1540
National Defense Authorization Act for Fiscal Year 2012
Wednesday, May 11, 2011**

Emerging Threats and Capabilities Subcommittee
En Bloc Package #2

Log #	Sponsor		Description
018	Rep.	Sutton	Provides additional \$3 million for the development of biomaterials for wound prevention and healing
030	Rep.	Castor	Provides additional \$10 million for functional genomics research to further develop cancer treatments and detection.
032	Rep.	Castor	Provides additional \$5 million for university-led applied research in chemical and biological defense program.
074	Rep.	McIntyre	Provides additional \$5 million for Special Operations Advanced Technology Development
080	Rep.	Brady	Provides additional \$3.5 million to Combating Terrorism Technology Support, including risk assessment and resource allocation
081	Rep.	Brady	Provides an additional \$5 million for Army Advanced Medical Technology, and telemedicine technologies.
082	Rep.	Brady	Provides additional \$1.2 million for Combating Terrorism Technology Support including mobile training content and distance learning capabilities.
086	Rep.	Ruppersberger	Provides additional \$3 million for a study of the health effects from magnese and other toxins.
111	Rep.	Shuster	Provides additional \$3.5 million for Army Medical Technology.
124	Rep.	Smith	Provides additional \$3 million for cold weather protective equipment for Special Operations Command.
143	Rep.	Lamborn	Provides additional \$5 million for combating terrorism and technology support.
149	Rep.	Heinrich	Provides additional \$5 million for weapons of mass destruction defeat technologies including strategic studies and university partnerships.
169	Rep.	Langevin	Provides additional \$5 million for medical technology research in spinal cord injuries.
174	Rep.	Langevin	Provides additional \$4.5 million for Army countermine systems.
198	Rep.	Johnson	Provides additional \$2 million for research in innovative combat wound techniques.
199	Rep.	Johnson	Provides additional \$4 million for special operations advanced technology development.
222	Rep.	Sanchez	Provides an additional \$3 million for development of innovative semiconductor designed fabrication tools.
224	Rep.	Sanchez	Provides additional \$5 million for industrial preparedness manufacturing technology.
242	Rep.	Ryan	Provides additional \$6.5 million for combating terrorism technology support.

AMENDMENT TO H.R. 1540
OFFERED BY MS. SUTTON OF OHIO
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 028 for medical technology, insert a new budget item in the amount of \$3,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$3,000,000.

At the end of title II, add the following new section:

1 **SEC. 2** ____. **BUDGET ITEM RELATING TO MEDICAL TECH-**
2 **NOLOGY.**

3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$105,929,000 for medical tech-
7 nology. Of the amounts authorized to be appropriated by
8 section 201, as specified in the corresponding funding
9 table in division D, the Secretary of the Army shall obli-
10 gate an additional \$3,000,000 for the same purpose, in-

1 cluding the development of biomaterials for wound preven-
2 tion and healing, in furtherance of national security objec-
3 tives.

4 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
5 decision to commit, obligate, or expend funds referred to
6 in the second sentence of subsection (a) with or to a spe-
7 cific entity shall—

8 (1) be based on merit-based selection proce-
9 dures in accordance with the requirements of sec-
10 tions 2304(k) and 2374 of title 10, United States
11 Code, or on competitive procedures; and

12 (2) comply with other applicable provisions of
13 law.



AMENDMENT TO H.R. 1540
OFFERED BY MS. CASTOR OF FLORIDA
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 030 for medical advanced technology, insert a new budget item in the amount of \$10,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$10,000,000.

At the end of title II, add the following new section:

1 **SEC. 2___. BUDGET ITEM RELATING TO MEDICAL AD-**
2 **VANCED TECHNOLOGY.**

3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$68,171,000 for medical advanced
7 technology. Of the amounts authorized to be appropriated
8 by section 201, as specified in the corresponding funding
9 table in division D, the Secretary of the Army shall obli-
10 gate an additional \$10,000,000 for the same purpose, in-

1 eluding for functional genomics research to further de-
2 velop cancer treatment and detection methods, in further-
3 ance of national security objectives.

4 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
5 decision to commit, obligate, or expend funds referred to
6 in the second sentence of subsection (a) with or to a spe-
7 cific entity shall—

8 (1) be based on merit-based selection proce-
9 dures in accordance with the requirements of sec-
10 tions 2304(k) and 2374 of title 10, United States
11 Code, or on competitive procedures; and

12 (2) comply with other applicable provisions of
13 law.



AMENDMENT TO H.R. 1540
OFFERED BY MS. CASTOR OF FLORIDA
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Defense-wide, Line 017 for Chemical and Biological Defense Program, insert a new budget item in the amount of \$5,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$5,000,000.

At the end of title II, add the following new section:

- 1 **SEC. 2** __. **BUDGET ITEM RELATING TO CHEMICAL AND BI-**
2 **OLOGICAL DEFENSE PROGRAM.**
- 3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$219,873,000 for chemical and
7 biological program defense program applied research. Of
8 the amounts authorized to be appropriated by section 201,
9 as specified in the corresponding funding table in division
10 D, the Secretary of Defense shall obligate an additional

1 \$5,000,000 for the same purpose, including for university-
2 led applied research, in furtherance of national security
3 objectives.

4 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
5 decision to commit, obligate, or expend funds referred to
6 in the second sentence of subsection (a) with or to a spe-
7 cific entity shall—

8 (1) be based on merit-based selection proce-
9 dures in accordance with the requirements of sec-
10 tions 2304(k) and 2374 of title 10, United States
11 Code, or on competitive procedures; and

12 (2) comply with other applicable provisions of
13 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. MCINTYRE OF NORTH
CAROLINA
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Defense-wide, Line 074 for Special Operations Advanced Technology Development, insert a new budget item in the amount of \$5,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$5,000,000.

At the end of title II, add the following new section:

1 **SEC. 2___. BUDGET ITEM RELATING TO SPECIAL OPER-**
2 **ATIONS ADVANCED TECHNOLOGY DEVELOP-**
3 **MENT.**

4 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
5 **ITY.**—In the budget submitted to Congress under section
6 1105 of title 31, United States Code, for fiscal year 2012,
7 the President requested \$35,242,000 for special oper-
8 ations advanced technology development. Of the amounts

1 authorized to be appropriated by section 201, as specified
 2 in the corresponding funding table in division D, the Sec-
 3 retary of Defense shall obligate an additional \$5,000,000
 4 for the same purpose in furtherance of national security
 5 objectives.

6 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
 7 decision to commit, obligate, or expend funds referred to
 8 in the second sentence of subsection (a) with or to a spe-
 9 cific entity shall—

10 (1) be based on merit-based selection proce-
 11 dures in accordance with the requirements of sec-
 12 tions 2304(k) and 2374 of title 10, United States
 13 Code, or on competitive procedures; and

14 (2) comply with other applicable provisions of
 15 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. BRADY OF PENNSYLVANIA
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Defense-wide, Line 029 for combating terrorism technology support, insert a new budget item in the amount of \$3,500,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$3,500,000.

At the end of title II, add the following new section:

1 **SEC. 2 __. BUDGET ITEM RELATING TO COMBATING TER-**
2 **RORISM TECHNOLOGY SUPPORT.**

3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$77,019,000 for combating ter-
7 rorism technology support. Of the amounts authorized to
8 be appropriated by section 201, as specified in the cor-
9 responding funding table in division D, the Secretary of
10 Defense shall obligate an additional \$3,500,000 for the

1 same purpose (including for risk assessment and resource
2 allocation) in furtherance of national security objectives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code, or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. BRADY OF PENNSYLVANIA
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 030 for medical advanced technology, insert a new budget item in the amount of \$5,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$5,000,000.

At the end of title II, add the following new section:

1 **SEC. 2___. BUDGET ITEM RELATING TO MEDICAL AD-**
2 **VANCED TECHNOLOGY.**

3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$68,171,000 for medical advanced
7 technology. Of the amounts authorized to be appropriated
8 by section 201, as specified in the corresponding funding
9 table in division D, the Secretary of Defense shall obligate
10 an additional \$5,000,000 for the same purpose (including

1 for the continued development of telemedicine tech-
2 nologies) in furtherance of national security objectives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code, or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



AMENDMENT TO H.R. 1540**OFFERED BY MR. BRADY OF PENNSYLVANIA****(Defense Authorization Bill)**

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Defense-wide, Line 029 for combating terrorism technology support, insert a new budget item in the amount of \$1,200,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$1,200,000.

At the end of title II, add the following new section:

- 1 **SEC. 2** ____. **BUDGET ITEM RELATING TO COMBATING TER-**
2 **RORISM TECHNOLOGY SUPPORT.**
- 3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$77,019,000 for combating ter-
7 rorism technology support. Of the amounts authorized to
8 be appropriated by section 201, as specified in the cor-
9 responding funding table in division D, the Secretary of
10 Defense shall obligate an additional \$1,200,000 for the

1 same purpose (including for the development of mobile
2 training content and distance learning capabilities) in fur-
3 therance of national security objectives.

4 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
5 decision to commit, obligate, or expend funds referred to
6 in the second sentence of subsection (a) with or to a spe-
7 cific entity shall—

8 (1) be based on merit-based selection proce-
9 dures in accordance with the requirements of sec-
10 tions 2304(k) and 2374 of title 10, United States
11 Code, or on competitive procedures; and

12 (2) comply with other applicable provisions of
13 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. RUPPERSBERGER OF
MARYLAND

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 030 for medical advanced technology, insert a new budget item in the amount of \$3,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$3,000,000.

At the end of title II, add the following new section:

1 **SEC. 2__ . BUDGET ITEM RELATING TO MEDICAL AD-**
2 **VANCED TECHNOLOGY.**

3 (a) ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-
4 ITY.—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$68,171,000 for medical advanced
7 technology. Of the amounts authorized to be appropriated
8 by section 201, as specified in the corresponding funding
9 table in division D, the Secretary of the Army shall obli-
10 gate an additional \$3,000,000 for the same purpose, in-

1 eluding for the study of health effects from manganese
2 and other potential toxins, in furtherance of national secu-
3 rity objectives.

4 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
5 decision to commit, obligate, or expend funds referred to
6 in the second sentence of subsection (a) with or to a spe-
7 cific entity shall—

8 (1) be based on merit-based selection proce-
9 dures in accordance with the requirements of sec-
10 tions 2304(k) and 2374 of title 10, United States
11 Code, or on competitive procedures; and

12 (2) comply with other applicable provisions of
13 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. SHUSTER OF PENNSYLVANIA
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 028 for medical technology, insert a new budget item in the amount of \$3,500,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$3,500,000.

At the end of title II, add the following new section:

- 1 **SEC. 2__.** BUDGET ITEM RELATING TO MEDICAL TECH-
2 **NOLOGY.**
- 3 (a) ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-
4 ITY.—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$105,929,000 for medical tech-
7 nology. Of the amounts authorized to be appropriated by
8 section 201, as specified in the corresponding funding
9 table in division D, the Secretary of the Army shall obli-
10 gate an additional \$3,500,000 for the same purpose, in-

1 cluding for the continued development of high-throughput,
2 microarray diagnostic systems, in furtherance of national
3 security objectives.

4 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
5 decision to commit, obligate, or expend funds referred to
6 in the second sentence of subsection (a) with or to a spe-
7 cific entity shall—

8 (1) be based on merit-based selection proce-
9 dures in accordance with the requirements of sec-
10 tions 2304(k) and 2374 of title 10, United States
11 Code, or on competitive procedures; and

12 (2) comply with other applicable provisions of
13 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. SMITH OF WASHINGTON
(Defense Authorization Bill)

In section 4301 of division D, relating to Operation & Maintenance, Defense-wide, Special Operations Command, insert a new budget item in the amount of \$3,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$3,000,000.

At the end of title III, add the following new section:

1 **SEC. 3 ___. BUDGET ITEM RELATING TO COLD WEATHER**
2 **PROTECTIVE EQUIPMENT.**

3 (a) ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-
4 ITY.—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$3,986,766,000 for Operation &
7 Maintenance, Defense-wide, Special Operations Com-
8 mand. Of the amounts authorized to be appropriated by
9 section 301, as specified in the corresponding funding
10 table in division D, the Secretary of Defense shall obligate

1 an additional \$3,000,000 for cold weather protective
2 equipment in furtherance of national security objectives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code, or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. LAMBORN OF COLORADO
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Defense-wide, Line 029 for combating terrorism technology support, insert a new budget item in the amount of \$5,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$5,000,000.

At the end of title II, add the following new section:

1 **SEC. 2__ . BUDGET ITEM RELATING TO COMBATING TER-**
2 **RORISM TECHNOLOGY.**
3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$77,019,000 for combating ter-
7 rorism technology support. Of the amounts authorized to
8 be appropriated by section 201, as specified in the cor-
9 responding funding table in division D, the Secretary of
10 Defense shall obligate an additional \$5,000,000 for the

1 same purpose in furtherance of national security objec-
2 tives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code, or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. HEINRICH OF NEW MEXICO
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Defense-Wide, Line 024 for weapons of mass destruction defeat technologies, insert a new budget item in the amount of \$5,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$5,000,000.

At the end of title II, add the following new section:

1 **SEC. 2** ____. **BUDGET ITEM RELATING TO WEAPONS OF MASS**
2 **DESTRUCTION DEFEAT TECHNOLOGIES.**
3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$196,954,000 for weapons of
7 mass destruction defeat technologies. Of the amounts au-
8 thorized to be appropriated by section 201, as specified
9 in the corresponding funding table in division D, the Sec-
10 retary of Defense shall obligate an additional \$5,000,000

1 for the same purpose, including weapons of mass destruc-
2 tion-related strategic studies and university partnerships,
3 in furtherance of national security objectives.

4 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
5 decision to commit, obligate, or expend funds referred to
6 in the second sentence of subsection (a) with or to a spe-
7 cific entity shall—

8 (1) be based on merit-based selection proce-
9 dures in accordance with the requirements of sec-
10 tions 2304(k) and 2374 of title 10, United States
11 Code, or on competitive procedures; and

12 (2) comply with other applicable provisions of
13 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. LANGEVIN OF RHODE ISLAND
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 028, Medical Technology, insert a new budget item in the amount of \$5,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$5,000,000.

At the end of title II, add the following new section:

1 **SEC. 2** ____. **BUDGET ITEM RELATING TO MEDICAL TECH-**
2 **NOLOGY.**
3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$105,929,000 for research, devel-
7 opment, test, and evaluation, Army, for medical tech-
8 nology. Of the amounts authorized to be appropriated by
9 section 201, as specified in the corresponding funding
10 table in division D, the Secretary of the Army shall obli-

1 gate an additional \$5,000,000 for the same purpose in
2 furtherance of national security objectives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code, or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. LANGEVIN OF RHODE ISLAND
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 020, Countermine Systems, insert a new budget item in the amount of \$4,500,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$4,500,000.

At the end of title II, add the following new section:

1 **SEC. 2__.** **BUDGET ITEM RELATING TO COUNTERMINE**
2 **SYSTEMS.**

3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$20,280,000 for countermine sys-
7 tems. Of the amounts authorized to be appropriated by
8 section 201, as specified in the corresponding funding
9 table in division D, the Secretary of the Army shall obli-

1 gate an additional \$4,500,000 for the same purpose in
2 furtherance of national security objectives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code, or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. JOHNSON OF GEORGIA
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 002 for Defense Research Sciences, insert a new budget item in the amount of \$2,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$2,000,000.

At the end of title II, add the following new section:

1 **SEC. 2** __. **BUDGET ITEM RELATING TO DEFENSE RE-**
2 **SEARCH SCIENCES.**

3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$213,942,000 for Defense Re-
7 search Sciences. Of the amounts authorized to be appro-
8 priated by section 201, as specified in the corresponding
9 funding table in division D, the Secretary of the Army
10 shall obligate an additional \$2,000,000 to support re-

1 search into innovative new techniques for combat wound
2 repair in furtherance of national security objectives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code, or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. JOHNSON OF GEORGIA
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Defense-wide, Line 217 for Special Applications for Contingencies, insert a new budget item in the amount of \$4,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$4,000,000.

At the end of title II, add the following new section:

1 **SEC. 2** . **BUDGET ITEM RELATING TO SPECIAL APPLICA-**
2 **TIONS FOR CONTINGENCIES.**

3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$5,045,000 for special operations
7 advanced technology development. Of the amounts author-
8 ized to be appropriated by section 201, as specified in the
9 corresponding funding table in division D, the Secretary
10 of Defense shall obligate an additional \$4,000,000 for the

1 same purpose, including for special applications for contin-
2 gencies such as for the development and demonstration
3 of tactical unmanned aerial vehicles, in furtherance of na-
4 tional security objectives.

5 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
6 decision to commit, obligate, or expend funds referred to
7 in the second sentence of subsection (a) with or to a spe-
8 cific entity shall—

9 (1) be based on merit-based selection proce-
10 dures in accordance with the requirements of sec-
11 tions 2304(k) and 2374 of title 10, United States
12 Code, or on competitive procedures; and

13 (2) comply with other applicable provisions of
14 law.



AMENDMENT TO H.R. 1540
OFFERED BY MS. LORETTA SANCHEZ OF
CALIFORNIA
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Defense-wide, Line 053 for Microelectronics Technology Development and Support, insert a new budget item in the amount of \$3,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$3,000,000.

At the end of title II, add the following new section:

1 **SEC. 2__.** **BUDGET ITEM RELATING TO MICROELEC-**
2 **TRONICS TECHNOLOGY DEVELOPMENT AND**
3 **SUPPORT.**

4 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
5 **ITY.**—In the budget submitted to Congress under section
6 1105 of title 31, United States Code, for fiscal year 2012,
7 the President requested \$91,132,000 for Microelectronics
8 Technology Development and Support. Of the amounts

1 authorized to be appropriated by section 201, as specified
2 in the corresponding funding table in division D, the Sec-
3 retary of Defense shall obligate an additional \$3,000,000
4 for the development of innovative semiconductor design
5 and fabrication tools in furtherance of national security
6 objectives.

7 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
8 decision to commit, obligate, or expend funds referred to
9 in the second sentence of subsection (a) with or to a spe-
10 cific entity shall—

11 (1) be based on merit-based selection proce-
12 dures in accordance with the requirements of sec-
13 tions 2304(k) and 2374 of title 10, United States
14 Code, or on competitive procedures; and

15 (2) comply with other applicable provisions of
16 law.



AMENDMENT TO H.R. 1540
OFFERED BY MS. LORETTA SANCHEZ OF
CALIFORNIA
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Defense-wide, Line 248 for Industrial Preparedness Manufacturing Technology, insert a new budget item in the amount of \$5,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$5,000,000.

At the end of title II, add the following new section:

1 **SEC. 2** __. **BUDGET ITEM RELATING TO INDUSTRIAL PRE-**
2 **PAREDNESS MANUFACTURING TECHNOLOGY.**
3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$23,103,000 for industrial pre-
7 paredness manufacturing technology. Of the amounts au-
8 thorized to be appropriated by section 201, as specified

1 in the corresponding funding table in division D, the Sec-
2 retary of Defense shall obligate an additional \$5,000,000
3 for sustainment of the industrial base for body armor in
4 furtherance of national security objectives.

5 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
6 decision to commit, obligate, or expend funds referred to
7 in the second sentence of subsection (a) with or to a spe-
8 cific entity shall—

9 (1) be based on merit-based selection proce-
10 dures in accordance with the requirements of sec-
11 tions 2304(k) and 2374 of title 10, United States
12 Code, or on competitive procedures; and

13 (2) comply with other applicable provisions of
14 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. RYAN OF OHIO
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Defense-Wide, Line 029 for combating terrorism technology support, insert a new budget item in the amount of \$ 6,500,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$6,500,000.

At the end of title II, add the following new section:

1 **SEC. 2** . **BUDGET ITEM RELATING TO COMBATING TER-**
2 **RORISM TECHNOLOGY SUPPORT.**
3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$77,019,000 for combating ter-
7 rorism technology support. Of the amounts authorized to
8 be appropriated by section 201, as specified in the cor-
9 responding funding table in division D, the Secretary of
10 Defense shall obligate an additional \$ 6,500,000

1 for the same purpose in furtherance of national security
2 objectives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code, or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



**En Bloc Amendments to
H.R. 1540
National Defense Authorization Act for Fiscal Year 2012
Wednesday, May 11, 2011**

**Emerging Threats and Capabilities Subcommittee
En Bloc Package #3**

Log #	Sponsor		Description
37r	Rep.	Roby	Provides additional \$10 million for National Guard civil support radio communications systems.
56r	Rep.	Akin	Provides additional \$4 million for deployable force protection sensors.
123r	Rep.	Smith	Provides additional \$5 million for Army medical training technologies.
127	Rep.	Smith	Provides additional \$7 million for hypersonic testing facilities.
129r	Rep.	Smith	Provides additional \$4 million for collaborative experimentation modeling for combating terrorism.
131r	Rep.	Davis	Provides additional \$3 million for modeling and simulation technologies for testing of blast structures.
161	Rep.	Hanabusa	Provides additional \$2.5 million for corrosion control and anti-biofouling research.
163	Rep.	Hanabusa	Provides additional \$3 million for situational awareness and communications networking tools.
178r	Rep.	Rooney	Provides additional \$10 million for development of software agents for simulations.
179r	Rep.	Rooney	Provides additional \$2.2 million for Air Force training and simulation capabilities.
180r	Rep.	Franks	Provides additional \$8 million for robotic naval mine countermeasure research and development.
185r	Rep.	Lamborn	Provides additional \$5 million for advanced manufacturing, repair, and sustainment technologies.
193	Rep.	Schilling	Provides additional \$2.5 million for manufacturing techniques and processes for munitions and weapons systems.
200	Rep.	Johnson	Provides additional \$1.468 million for innovative techniques for vaccine development.
216	Rep.	Hunter	Provides additional \$5 million for development of helicopter "brownout" situational awareness tools.
217	Rep.	Hunter	Provides additional \$2 million for development of deoxygenation systems.
241	Rep.	Ryan	Provides additional \$7 million for 3-D design and manufacturing capability.
260	Rep.	Bartlett	Provides additional \$10 million for development of command, control and navigation capabilities for manned and unmanned aircraft.
262	Rep.	Bartlett	Provides additional \$5 million for innovative capabilities to support Corps of Engineers.

Log #37
Revise

37r

AMENDMENT TO H.R. 1540
OFFERED BY MRS. ROBY OF ALABAMA
(Defense Authorization Bill)

In section 4101 of division D, relating to Aircraft Procurement, Army, insert a new budget item in the amount of \$10,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$10,000,000.

At the end of title I, add the following new section:

1 **SEC. 1___ . BUDGET ITEM RELATING TO MODIFICATIONS TO**
2 **AIRCRAFT.**

3 (a) ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-
4 ITY.—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$80,745,000 for Modifications to
7 Aircraft. Of the amounts authorized to be appropriated
8 by section 101, as specified in the corresponding funding
9 table in division D, the Secretary of the Army shall obli-
10 gate an additional \$10,000,000 for radio communication

1 systems for National Guard helicopters in furtherance of
2 national security objectives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code, or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



56r

AMENDMENT TO H.R. 1540
OFFERED BY MR. AKIN OF MISSOURI
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 050 for Night Vision Advanced Technology, insert a new budget item in the amount of \$4,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$4,000,000.

At the end of title II, add the following new section:

1 **SEC. 2** . BUDGET ITEM RELATING TO NIGHT VISION AD-
2 VANCED TECHNOLOGY.
3 (a) ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-
4 ITY.—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$42,414,000 for night vision ad-
7 vanced technology. Of the amounts authorized to be ap-
8 propriated by section 201, as specified in the cor-
9 responding funding table in division D, the Secretary of
10 Defense shall obligate an additional \$4,000,000 for the

1 development of deployable force protection sensors in fur-
2 therance of national security objectives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code, or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. SMITH OF WASHINGTON
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 030 for Medical Advanced Technology, insert a new budget item in the amount of \$5,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$5,000,000.

At the end of title II, add the following new section:

1 **SEC. 2___. BUDGET ITEM RELATING TO MEDICAL AD-**
2 **VANCED TECHNOLOGY.**

3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$68,171,000 for medical advanced
7 technology. Of the amounts authorized to be appropriated
8 by section 201, as specified in the corresponding funding
9 table in division D, the Secretary of the Army shall obli-
10 gate an additional \$5,000,000 for the development of in-

1 novative medical training technologies in furtherance of
2 national security objectives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code, or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. SMITH OF WASHINGTON
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Air Force, Line 002 for University Research Initiatives, insert a new budget item in the amount of \$7,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$7,000,000.

At the end of title II, add the following new section:

1 **SEC. 2** ____. **BUDGET ITEM RELATING TO UNIVERSITY RE-**
2 **SEARCH INITIATIVES.**

3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$140,273,000 for university re-
7 search initiatives. Of the amounts authorized to be appro-
8 priated by section 201, as specified in the corresponding
9 funding table in division D, the Secretary of the Air Force
10 shall obligate an additional \$7,000,000 for the develop-

1 ment of hypersonic testing facilities for defense applica-
2 tions in furtherance of national security objectives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code, or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



AMENDMENT TO H.R. 1540**OFFERED BY MR. SMITH OF WASHINGTON**

In section 4201 of division D, relating to Research, Development, Test, and Evaluation, Defense-Wide, Line 29 for combating terrorism technology support, insert a new budget item in the amount of \$4,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$4,000,000.

At the end of title II, add the following new section:

1 **SEC. 2** ____. **BUDGET ITEM RELATING TO COMBATING TER-**
2 **RORISM TECHNOLOGY.**

3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$77,019,000 for combating ter-
7 rorism technology support. Of the amounts authorized to
8 be appropriated by section 201, as specified in the cor-
9 responding funding table in division D, the Secretary of
10 Defense shall obligate an additional \$4,000,000 for com-
11 bating terrorism technology support to improve the col-

1 laborative experimentation model in furtherance of na-
2 tional security objectives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code, or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



AMENDMENT TO H.R. 1540
OFFERED BY MRS. DAVIS OF CALIFORNIA
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Defense-wide, Line 029 for Combating Terrorism Technology Support, insert a new budget item in the amount of \$3,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$3,000,000.

At the end of title II, add the following new section:

1 **SEC. 2___. BUDGET ITEM RELATING TO COMBATING TER-**
2 **RORISM TECHNOLOGY SUPPORT.**

3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$77,019,000 for Combating Ter-
7 rorism Technology Support. Of the amounts authorized to
8 be appropriated by section 201, as specified in the cor-
9 responding funding table in division D, the Secretary of
10 Defense shall obligate an additional \$3,000,000 for the

1 development of modeling and simulation technologies for
2 testing of blast structures in furtherance of national secu-
3 rity objectives.

4 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
5 decision to commit, obligate, or expend funds referred to
6 in the second sentence of subsection (a) with or to a spe-
7 cific entity shall—

8 (1) be based on merit-based selection proce-
9 dures in accordance with the requirements of sec-
10 tions 2304(k) and 2374 of title 10, United States
11 Code, or on competitive procedures; and

12 (2) comply with other applicable provisions of
13 law.



AMENDMENT TO H.R. 1540**OFFERED BY MS. HANABUSA OF HAWAII**

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Navy, Line 009 for Warfighter Sustainment Applied Research, insert a new budget item in the amount of \$2,500,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$2,500,000.

At the end of title II, add the following new section:

1 **SEC. 2___.** **BUDGET ITEM RELATING TO WARFIGHTER**
2 **SUSTAINMENT APPLIED RESEARCH.**

3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$101,205,000 for Warfighter
7 Sustainment Applied Research. Of the amounts author-
8 ized to be appropriated by section 201, as specified in the
9 corresponding funding table in division D, the Secretary
10 of the Navy shall obligate an additional \$2,500,000 to

1 support research into corrosion control and anti-biofouling
2 coatings in furtherance of national security objectives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code, or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



AMENDMENT TO H.R. 1540**OFFERED BY MS. HANABUSA OF HAWAII**

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Navy, Line 006 for Marine Corps Landing Force Technology, insert a new budget item in the amount of \$3,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$3,000,000.

At the end of title II, add the following new section:

1 **SEC. 2** ____. **BUDGET ITEM RELATING TO MARINE CORPS**
2 **LANDING FORCE TECHNOLOGY.**
3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$44,845,000 for Marine Corps
7 Landing Force Technology. Of the amounts authorized to
8 be appropriated by section 201, as specified in the cor-
9 responding funding table in division D, the Secretary of
10 the Navy shall obligate an additional \$3,000,000 for the
11 development of situational awareness and communications

1 networking tools for tactical units in furtherance of na-
2 tional security objectives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code, or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. ROONEY OF FLORIDA
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 012 for Advanced Concepts and Simulation, insert a new budget item in the amount of \$10,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$10,000,000.

At the end of title II, add the following new section:

1 **SEC. 2** ____. **BUDGET ITEM RELATING TO ADVANCED CON-**
2 **CEPTS AND SIMULATION.**

3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$20,933,000 for Advanced Con-
7 cepts and Simulation. Of the amounts authorized to be
8 appropriated by section 201, as specified in the cor-
9 responding funding table in division D, the Secretary of
10 the Army shall obligate an additional \$10,000,000 to de-

1 velop realistic human representations of software agents
2 for simulation systems in furtherance of national security
3 objectives.

4 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
5 decision to commit, obligate, or expend funds referred to
6 in the second sentence of subsection (a) with or to a spe-
7 cific entity shall—

8 (1) be based on merit-based selection proce-
9 dures in accordance with the requirements of sec-
10 tions 2304(k) and 2374 of title 10, United States
11 Code, or on competitive procedures; and

12 (2) comply with other applicable provisions of
13 law.



179 revised 179w

AMENDMENT TO H.R. 1540
OFFERED BY MR. ROONEY OF FLORIDA
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Air Force, Line 006 for Human Effectiveness Applied Research, insert a new budget item in the amount of \$2,200,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$2,200,000.

At the end of title II, add the following new section:

1 **SEC. 2___. BUDGET ITEM RELATING TO HUMAN EFFEC-**
2 **TIVENESS APPLIED RESEARCH.**

3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$86,663,000 for Human Effec-
7 tiveness Applied Research. Of the amounts authorized to
8 be appropriated by section 201, as specified in the cor-
9 responding funding table in division D, the Secretary of
10 the Air Force shall obligate an additional \$2,200,000 to

1 develop training and simulation capabilities for the Air
2 Force in furtherance of national security objectives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code, or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



AMENDMENT TO H.R. 1540

OFFERED BY MR. FRANKS OF ARIZONA

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Navy, Line 014 for Mine and Expeditionary Warfare Applied Research, insert a new budget item in the amount of \$8,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$8,000,000.

At the end of title II, add the following new section:

1 **SEC. 2** ____. **BUDGET ITEM RELATING TO MINE AND EXPEDI-**
2 **TIONARY WARFARE APPLIED RESEARCH.**

3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$37,583,000 for Mine and Expe-
7 ditionary Warfare Applied Research. Of the amounts au-
8 thorized to be appropriated by section 201, as specified
9 in the corresponding funding table in division D, the Sec-
10 retary of the Navy shall obligate an additional \$8,000,000
11 for the development of remote- robotic naval mine counter-

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1 measure research and development capability in further-
2 ance of national security objectives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code, or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. LAMBORN OF COLORADO
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 005 for Materials Technology, insert a new budget item in the amount of \$5,000,000.

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Defense Wide, line 163 reduce the amount for Defense Technical Information Center by \$5,000,000.

At the end of title II, add the following new section:

1 **SEC. 2 ___. BUDGET ITEM RELATING TO MATERIALS TECH-**
2 **NOLOGY.**
3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$30,258,000 for materials tech-
7 nology. Of the amounts authorized to be appropriated by
8 section 201, as specified in the corresponding funding
9 table in division D, the Secretary of the Army shall obli-
10 gate an additional \$5,000,000 for advanced manufac-

1 turing, repair, and sustainment technologies for defense
2 needs in furtherance of national security objectives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code, or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. SCHILLING OF ILLINOIS
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 032 for Weapons and Munitions Advanced Technology, insert a new budget item in the amount of \$2,500,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$2,500,000.

At the end of title II, add the following new section:

1 **SEC. 2** ____ . **BUDGET ITEM RELATING TO WEAPONS AND MU-**
2 **NITIONS ADVANCED TECHNOLOGY.**
3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$77,077,000 for Weapons and
7 Munitions Advanced Technology. Of the amounts author-
8 ized to be appropriated by section 201, as specified in the
9 corresponding funding table in division D, the Secretary
10 of the Army shall obligate an additional \$2,500,000 for

1 the development of innovative manufacturing techniques
2 and processes for munitions and weapons systems in fur-
3 therance of national security objectives.

4 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
5 decision to commit, obligate, or expend funds referred to
6 in the second sentence of subsection (a) with or to a spe-
7 cific entity shall—

8 (1) be based on merit-based selection proce-
9 dures in accordance with the requirements of sec-
10 tions 2304(k) and 2374 of title 10, United States
11 Code, or on competitive procedures; and

12 (2) comply with other applicable provisions of
13 law.



AMENDMENT TO H.R. 1540**OFFERED BY MR. JOHNSON OF GEORGIA**

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 028 for Medical Technology, insert a new budget item in the amount of \$1,468,000.

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Defense Wide, line 144 reduce the amount for critical technology support by \$1,468,000.

At the end of title II, add the following new section:

1 **SEC. 2___. BUDGET ITEM RELATING TO MEDICAL TECH-**
2 **NOLOGY.**

3 (a) ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-
4 ITY.—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$105,929,000 for medical tech-
7 nology. Of the amounts authorized to be appropriated by
8 section 201, as specified in the corresponding funding
9 table in division D, the Secretary of the Army shall obli-
10 gate an additional \$1,468,000 to support research into in-

1 novative new techniques to develop vaccines of interest to
2 the military in furtherance of national security objectives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code, or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. HUNTER OF CALIFORNIA
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 050 for Night Vision Advanced Technology, insert a new budget item in the amount of \$5,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$5,000,000.

At the end of title II, add the following new section:

1 **SEC. 2** ____. **BUDGET ITEM RELATING TO NIGHT VISION AD-**
2 **VANCED TECHNOLOGY.**

3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$42,414,000 for night vision ad-
7 vanced technology. Of the amounts authorized to be ap-
8 propriated by section 201, as specified in the cor-
9 responding funding table in division D, the Secretary of
10 the Army shall obligate an additional

1 \$5,000,000 for the development and fielding
2 of a solution for helicopter “brownout” situational aware-
3 ness in furtherance of national security objectives.

4 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
5 decision to commit, obligate, or expend funds referred to
6 in the second sentence of subsection (a) with or to a spe-
7 cific entity shall—

8 (1) be based on merit-based selection proce-
9 dures in accordance with the requirements of sec-
10 tions 2304(k) and 2374 of title 10, United States
11 Code, or on competitive procedures; and

12 (2) comply with other applicable provisions of
13 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. HUNTER OF CALIFORNIA
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Air Force, Line 007 for Aerospace Propulsion, insert a new budget item in the amount of \$2,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$2,000,000.

At the end of title II, add the following new section:

1 **SEC. 2__ . BUDGET ITEM RELATING TO AEROSPACE PRO-**
2 **PULSION.**
3 (a) ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-
4 ITY.—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$207,508,000 for aerospace pro-
7 pulsion. Of the amounts authorized to be appropriated by
8 section 201, as specified in the corresponding funding
9 table in division D, the Secretary of the Air Force shall
10 obligate an additional \$2,000,000 for the

1 development of innovative aircraft deoxygeneration sys-
2 tems in furtherance of national security objectives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code, or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



AMENDMENT TO H.R. 1540
OFFERED BY MR. RYAN OF OHIO
(Defense Authorization Bill)

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 188 for End Item Industrial Preparedness Activities, insert a new budget item in the amount of \$ 7,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$7,000,000.

At the end of title II, add the following new section:

1 **SEC. 2___.** BUDGET ITEM RELATING TO END ITEM INDUS-
2 **TRIAL PREPAREDNESS ACTIVITIES.**

3 (a) ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-
4 ITY.—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$59,297,000 for end item indus-
7 trial preparedness activities. Of the amounts authorized
8 to be appropriated by section 201, as specified in the cor-
9 responding funding table in division D, the Secretary of
10 the Army shall obligate an additional

2

1 \$ 7,000,000 to develop a 3-D model-based
2 design and manufacturing capability in furtherance of na-
3 tional security objectives.

4 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
5 decision to commit, obligate, or expend funds referred to
6 in the second sentence of subsection (a) with or to a spe-
7 cific entity shall—

8 (1) be based on merit-based selection proce-
9 dures in accordance with the requirements of sec-
10 tions 2304(k) and 2374 of title 10, United States
11 Code, or on competitive procedures; and

12 (2) comply with other applicable provisions of
13 law.



AMENDMENT TO H.R. 1540**OFFERED BY MR. BARTLETT OF MARYLAND**

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 006 for Sensors and Electronic Survivability, insert a new budget item in the amount of \$10,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$10,000,000.

At the end of title II, add the following new section:

1 **SEC. 2___.** **BUDGET ITEM RELATING TO SENSORS AND**
2 **ELECTRONIC SURVIVABILITY.**

3 (a) **ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-**
4 **ITY.**—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$43,521,000 for Sensors and
7 Electronic Survivability. Of the amounts authorized to be
8 appropriated by section 201, as specified in the cor-
9 responding funding table in division D, the Secretary of
10 the Army shall obligate an additional \$10,000,000 for the
11 development of command, control, and navigation capabili-

1 ties for manned and unmanned aircraft in furtherance of
2 national security objectives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code; or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



AMENDMENT TO H.R. 1540**OFFERED BY MR. BARTLETT OF MARYLAND**

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, Line 052 for Military Engineering Advanced Technology, insert a new budget item in the amount of \$5,000,000.

In section 4501 of division D, relating to the Mission Force Enhancement Transfer Fund, reduce the amount by \$5,000,000.

At the end of title II, add the following new section:

1 **SEC. 2 __. BUDGET ITEM RELATING TO MILITARY ENGI-**
2 **NEERING ADVANCED TECHNOLOGY.**

3 (a) ADDITIONAL, DISCRETIONARY BUDGET AUTHOR-
4 ITY.—In the budget submitted to Congress under section
5 1105 of title 31, United States Code, for fiscal year 2012,
6 the President requested \$36,516,000 for Military Engi-
7 neering Advanced Technology. Of the amounts authorized
8 to be appropriated by section 201, as specified in the cor-
9 responding funding table in division D, the Secretary of
10 the Army shall obligate an additional \$5,000,000 for the
11 development of innovative capabilities that support core

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1 missions of the Army Corps of Engineers in furtherance
2 of national security objectives.

3 (b) MERIT-BASED OR COMPETITIVE DECISIONS.—A
4 decision to commit, obligate, or expend funds referred to
5 in the second sentence of subsection (a) with or to a spe-
6 cific entity shall—

7 (1) be based on merit-based selection proce-
8 dures in accordance with the requirements of sec-
9 tions 2304(k) and 2374 of title 10, United States
10 Code, or on competitive procedures; and

11 (2) comply with other applicable provisions of
12 law.



**En Bloc Amendments to
H.R. 1540
National Defense Authorization Act for Fiscal Year 2012
Wednesday, May 11, 2011**

Emerging Threats and Capabilities Subcommittee
En Bloc Package #4

Log #	Sponsor	Description
184r	Rep. Franks	Inserts additional language to directive reporting requirement in Title X of HR 1540 to emphasize actions to prevent EMP events.
197	Rep. Johnson	Extends Section 219 authority established in FY09 NDAA for use of laboratory funds from October 1, 2013 to September 30, 2016.
206	Rep. Akin	Directs the Secretary of Defense to report within 180 days of enactment of the Act on the feasibility of developing and deploying the electromagnetic rail gun system.
220	Rep. Bartlett	Directs the Secretary of the Army to report within 150 days of enactment of the Act on proposed changes within Army RDT&E as part of the efficiencies initiative.
263	Rep. Johnson	Moves funding for the Historically Black Colleges & Universities / Minority Institutions from Army RDT&E to Defense Wide RDT&E

Amendment Offered by Rep. Franks

H.R. 1540—National Defense Authorization Act for Fiscal Year 2012

To be inserted in the appropriate place the report:

In the report accompanying H.R. 1540, in Title X, strike everything after “Planning for Electromagnetic Pulse Events” to “receive” and insert:

The committee remains concerned with the continued vulnerability of the United States homeland to electromagnetic pulse (EMP) events, both man-made and naturally occurring. The 2008 report of the EMP Commission found that “EMP generated by a high altitude nuclear explosion is one of a small number of threats that can hold our society at risk of catastrophic consequences.” The committee believes that the Secretary of Defense should ensure that the U.S. Military has the appropriate authorities, capabilities, procedures, protections, and force structure to prevent or defend against any threats posed by EMP generated by a high altitude nuclear or by a naturally occurring event, as well as response plans for dealing with the aftermath of an EMP event.

Therefore, the committee directs the Secretary of Defense to provide a report to the Senate Committee on Armed Services and the House Committee on Armed Services on efforts to prepare for, prevent, defend against, and remediate after an EMP event, whether natural or manmade. Within 120 days after the date of enactment of this Act the report should include the following:

- (1) An assessment of any threats posed by a natural or manmade EMP event, including identifying of the foreign countries that may be developing weapons capable of producing high altitude EMP, the nature of the capabilities, and possible advances in the capabilities over the next 10 years;
- (2) A description of any efforts by the Department of Defense since the 2008 EMP Commission Report was released to address the findings in (1);
- (3) A description of the appropriate authorities, capabilities, procedures, protections, and force structure that the United States may require over the next 10 years to prevent or defend against threats from foreign actors identified in (1);
- (4) A description of Government contingency response plans to prevent an EMP event, or to mitigate the consequences of or remediate after an EMP event, especially with regard to critical infrastructure;
- (5) In the event that no Government contingency response plans exist, a description of what steps are being undertaken by the Department on an emergency basis to respond to an EMP event;
- (6) A description of plans and guidance for military base commanders to be prepared to act on their own authority to provide support to or receive support from local authorities, police, fire, and other emergency services or critical infrastructure providers, as well as plans and training with civil first responders in their locality to help restore critical infrastructures and assist the civilian population after a catastrophic EMP event and;
- (7) An assessment of additional legal authorities or resources that may be needed to develop contingency response plans and capabilities to protect the American people and critical infrastructures and to remediate after an EMP event.

AMENDMENT TO H.R. 1540
OFFERED BY MR. JOHNSON OF GEORGIA
(Defense Authorization Bill)

At the appropriate place in title II, add the following
new section:

1 **SEC. 2___ . EXTENSION OF AUTHORITY FOR MECHANISMS**
2 **TO PROVIDE FUNDS FOR DEFENSE LABORA-**
3 **TORIES FOR RESEARCH AND DEVELOPMENT**
4 **OF TECHNOLOGIES FOR MILITARY MISSIONS.**

5 Section 219(c) of the Duncan Hunter National De-
6 fense Authorization Act for Fiscal Year 2009 (10 U.S.C.
7 2358 note) is amended by striking “October 1, 2013” and
8 inserting “September 30, 2016”.



AMENDMENT TO H.R. 1540
OFFERED BY MR. AKIN OF MISSOURI
(Defense Authorization Bill)

At the appropriate place in title II, insert the following:

1 **SEC. 2__.** **REPORT ON FEASIBILITY OF ELECTRO-**
2 **MAGNETIC RAIL GUN SYSTEM.**

3 Not later than 180 days after the date of the enact-
4 ment of this Act, the Secretary of Defense shall submit
5 to the congressional defense committees a report on the
6 feasibility of developing and deploying the electromagentic
7 rail gun system to be used for either land- or ship-based
8 force protection.



Amendment Offered by Rep. Bartlett

H.R. 1540—National Defense Authorization Act for Fiscal Year 2012

To be inserted in the appropriate place the report:

Army science and technology management

The committee recognizes the critical contributions the science and technology community makes to providing the military with technological capabilities needed to address future military challenges. Innovative technology, weapon systems, and other equipment are critical for the nation to meet challenges presented by 21st Century asymmetrical conflict. The Committee believes that Department of Defense systems are more integrated now than 10-years ago, but these defense systems must maintain a high level of jointness to comply with a common operating environment and ensure interoperability.

The committee is concerned that recent Army decision to disestablish the Research Development and Engineering Command (RDECOM) on the basis of efficiency neglects the effectiveness of the organization to protect longer term science and technology (S&T) investments and to ensure integrated and interoperable technology systems. Without a unified voice and high level advocate on behalf of Army S&T, the committee is concerned that the contributions of the S&T community will largely be overlooked or ignored.

Therefore, the committee directs the Secretary of the Army to deliver a report to the congressional defense committee within 150 days after enactment of this Act. This report should include an analysis of the efficiencies to be gained through the disestablishment of RDECOM compared to the status quo, as well as a description of how the new management structure will maintain oversight, coordination and integration of Army S&T planning and execution.

AMENDMENT TO H.R. 1540**OFFERED BY MR. JOHNSON OF GEORGIA**

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Army, reduce the amount for Basic Research, Line 004 University and Industry Research Centers by \$15,245,000, to be derived from Project H04 HBCU/MI.

In section 4201 of division D, relating to Research, Development, Test and Evaluation, Defense-Wide, increase the amount for Basic Research, Line 010 Historically Black Colleges and Universities (HBCU) S by \$15,245,000.

