

One Hundred Eleventh Congress  
of the  
United States of America

AT THE FIRST SESSION

*Begun and held at the City of Washington on Tuesday,  
the sixth day of January, two thousand and nine*

An Act

Making appropriations for the Department of Defense for the fiscal year ending September 30, 2010, and for other purposes.

*Be it enacted by the Senate and House of Representatives of  
the United States of America in Congress assembled,*

**SECTION 1. SHORT TITLE.**

This Act may be cited as the “Department of Defense Appropriations Act, 2010”.

**SEC. 2. TABLE OF CONTENTS.**

The table of contents of this Act is as follows:

- Sec. 1. Short title.
- Sec. 2. Table of contents.
- Sec. 3. References.

DIVISION A—DEPARTMENT OF DEFENSE APPROPRIATIONS

- Title I—Military Personnel
- Title II—Operation and Maintenance
- Title III—Procurement
- Title IV—Research, Development, Test and Evaluation
- Title V—Revolving and Management Funds
- Title VI—Other Department of Defense Programs
- Title VII—Related Agencies
- Title VIII—General Provisions
- Title IX—Overseas Contingency Operations

DIVISION B—OTHER MATTERS

**SEC. 3. REFERENCES.**

Except as expressly provided otherwise, any reference to “this Act” contained in any division of this Act shall be treated as referring only to the provisions of that division.

**DIVISION A—DEPARTMENT OF DEFENSE  
APPROPRIATIONS**

The following sums are appropriated, out of any money in the Treasury not otherwise appropriated, for the fiscal year ending September 30, 2010, for military functions administered by the Department of Defense and for other purposes, namely:

SEC. 8003. No part of any appropriation contained in this Act shall remain available for obligation beyond the current fiscal year, unless expressly so provided herein.

SEC. 8004. No more than 20 percent of the appropriations in this Act which are limited for obligation during the current fiscal year shall be obligated during the last 2 months of the fiscal year: *Provided*, That this section shall not apply to obligations for support of active duty training of reserve components or summer camp training of the Reserve Officers' Training Corps.

(TRANSFER OF FUNDS)

SEC. 8005. Upon determination by the Secretary of Defense that such action is necessary in the national interest, he may, with the approval of the Office of Management and Budget, transfer not to exceed \$4,000,000,000 of working capital funds of the Department of Defense or funds made available in this Act to the Department of Defense for military functions (except military construction) between such appropriations or funds or any subdivision thereof, to be merged with and to be available for the same purposes, and for the same time period, as the appropriation or fund to which transferred: *Provided*, That such authority to transfer may not be used unless for higher priority items, based on unforeseen military requirements, than those for which originally appropriated and in no case where the item for which funds are requested has been denied by the Congress: *Provided further*, That the Secretary of Defense shall notify the Congress promptly of all transfers made pursuant to this authority or any other authority in this Act: *Provided further*, That no part of the funds in this Act shall be available to prepare or present a request to the Committees on Appropriations for reprogramming of funds, unless for higher priority items, based on unforeseen military requirements, than those for which originally appropriated and in no case where the item for which reprogramming is requested has been denied by the Congress: *Provided further*, That a request for multiple reprogrammings of funds using authority provided in this section shall be made prior to June 30, 2010: *Provided further*, That transfers among military personnel appropriations shall not be taken into account for purposes of the limitation on the amount of funds that may be transferred under this section: *Provided further*, That no obligation of funds may be made pursuant to section 1206 of Public Law 109-163 (or any successor provision) unless the Secretary of Defense has notified the congressional defense committees prior to any such obligation.

SEC. 8006. (a) With regard to the list of specific programs, projects, and activities (and the dollar amounts and adjustments to budget activities corresponding to such programs, projects, and activities) contained in the tables titled "Explanation of Project Level Adjustments" in the explanatory statement regarding this Act, the obligation and expenditure of amounts appropriated or otherwise made available in this Act for those programs, projects, and activities for which the amounts appropriated exceed the amounts requested are hereby required by law to be carried out in the manner provided by such tables to the same extent as if the tables were included in the text of this Act.

(b) Amounts specified in the referenced tables described in subsection (a) shall not be treated as subdivisions of appropriations

for purposes of section 8005 of this Act: *Provided*, That section 8005 shall apply when transfers of the amounts described in subsection (a) occur between appropriation accounts.

SEC. 8007. (a) Not later than 60 days after enactment of this Act, the Department of Defense shall submit a report to the congressional defense committees to establish the baseline for application of reprogramming and transfer authorities for fiscal year 2010: *Provided*, That the report shall include—

(1) a table for each appropriation with a separate column to display the President's budget request, adjustments made by Congress, adjustments due to enacted rescissions, if appropriate, and the fiscal year enacted level;

(2) a delineation in the table for each appropriation both by budget activity and program, project, and activity as detailed in the Budget Appendix; and

(3) an identification of items of special congressional interest.

(b) Notwithstanding section 8005 of this Act, none of the funds provided in this Act shall be available for reprogramming or transfer until the report identified in subsection (a) is submitted to the congressional defense committees, unless the Secretary of Defense certifies in writing to the congressional defense committees that such reprogramming or transfer is necessary as an emergency requirement.

SEC. 8008. The Secretaries of the Air Force and the Army are authorized, using funds available under the headings "Operation and Maintenance, Air Force" and "Operation and Maintenance, Army", to complete facility conversions and phased repair projects which may include upgrades and additions to Alaskan range infrastructure and training areas, and improved access to these ranges.

(TRANSFER OF FUNDS)

SEC. 8009. During the current fiscal year, cash balances in working capital funds of the Department of Defense established pursuant to section 2208 of title 10, United States Code, may be maintained in only such amounts as are necessary at any time for cash disbursements to be made from such funds: *Provided*, That transfers may be made between such funds: *Provided further*, That transfers may be made between working capital funds and the "Foreign Currency Fluctuations, Defense" appropriation and the "Operation and Maintenance" appropriation accounts in such amounts as may be determined by the Secretary of Defense, with the approval of the Office of Management and Budget, except that such transfers may not be made unless the Secretary of Defense has notified the Congress of the proposed transfer. Except in amounts equal to the amounts appropriated to working capital funds in this Act, no obligations may be made against a working capital fund to procure or increase the value of war reserve material inventory, unless the Secretary of Defense has notified the Congress prior to any such obligation.

SEC. 8010. Funds appropriated by this Act may not be used to initiate a special access program without prior notification 30 calendar days in advance to the congressional defense committees.

SEC. 8011. None of the funds provided in this Act shall be available to initiate: (1) a multiyear contract that employs economic order quantity procurement in excess of \$20,000,000 in any one

111TH CONGRESS }  
2d Session

HOUSE OF REPRESENTATIVES

**DEPARTMENT OF DEFENSE  
APPROPRIATIONS ACT, 2010**

---

**COMMITTEE PRINT**

of the

**COMMITTEE ON APPROPRIATIONS  
U.S. HOUSE OF REPRESENTATIVES**

on

**H.R. 3326 / Public Law 111-118**

**[Legislative Text and Explanatory Statement]**



JANUARY 2010

## SPECIAL INTEREST ITEMS

Items for which additional funds have been provided as shown in the project level tables or in paragraphs using the phrase “only for” or “only to” are congressional interest items for purposes of the Base for Reprogramming Department of Defense form (DD Form 1414). Each of these items must be carried on the DD Form 1414 at the stated amount, as specifically addressed in these materials.

## C-130 AVIONICS MODERNIZATION PROGRAM

The recommendation provides no funding in Aircraft Procurement, Air Force for the C-130 Avionics Modernization Program given that the fiscal year 2009 funds have thus far not been put on contract due to a delayed Milestone C decision. Based on these delays, the funding requested for fiscal year 2010 is early to need. The Under Secretary of Defense (Acquisition, Technology, and Logistics) is strongly encouraged to make a decision on the acquisition strategy and proceed expeditiously with the program of record in order to provide this needed capability to Active, Guard, and Reserve C-130 aircraft.

## C-130 FIREFIGHTING CAPABILITY

The Secretary of the Air Force, the Chief of the Air Force Reserve and the Director of the National Guard Bureau, are directed, within 60 days of enactment of this Act, to create an Integrated Working Group (IWG) in conjunction with the United States Department of Agriculture Forest Service (USDAFS) and the Department of the Interior for the purpose of coordinating the joint use of Federal forest firefighting assets, and, within 90 days after formation of the IWG, to submit a report to the congressional defense committees; the House and Senate Committees on Appropriations, Subcommittees on Interior; the House Energy and Commerce Committee and Senate Energy and Natural Resources Committee, detailing the following:

1. The viability of the Air National Guard, the Air Force Reserve, and the USDAFS to jointly operate a fleet of new C-130s procured for the primary purposes of firefighting duties at the request of the USDAFS, and equipped with the latest proven firefighting technology.
2. Any and all prior analyses done in the past ten years by the Department of the Air Force, the National Guard Bureau or the USDAFS concerning the recapitalization of the national firefighting fleet.
3. A new business case analysis which examines the cost and operational effectiveness of procurement of new C-130 aircraft and joint cooperation between the Department of the Air Force, the National Guard Bureau and the USDAFS for the firefighting mission as compared to the present approach of utilizing the current fleet of aging firefighting aircraft available via commercial operator contracts.
4. Any existing legislative impediments to interagency cooperation and joint operation of a dedicated firefighting fleet by the Department of the Air Force, the National Guard Bureau and the USDAFS.

5. An assessment and accounting of public-private property losses as well as taxpayer expenses spent annually fighting forest and wildfires and how such losses can be mitigated by the described joint firefighting business model with respect to the Department of the Air Force, the National Guard Bureau and the USDAFS.

An interim report shall be submitted to Congress not later than 90 days after enactment of this Act detailing the progress made on the final report.

#### NON-INTRUSIVE INSPECTION TECHNOLOGIES

Vehicle and cargo-borne threats to U.S. forward operating bases and unmet requests for fielding non-intrusive inspection (NII) technologies for base access control to detect hidden weapons, explosives and personnel, increase the operating risk for our forces. The Secretary of Defense is directed to prioritize the NII technology needs of the 100 highest-risk bases and submit a schedule for NII technology procurement for these bases to the congressional defense committees not later than 30 days after enactment of this Act.

#### JOINT STRIKE FIGHTER

Concerns persist regarding the progress of the F-35 Joint Strike Fighter (JSF) program. Last year, the Department of Defense established a Joint Estimating Team (JET) to evaluate this program. The JET reported that the program would cost significantly more and take longer to fully develop and test than the Department was then projecting. Although the JET has yet to officially report out for 2009, the initial indications are that cost growth and schedule issues remain. Nevertheless, the Department insists that the program is on track to achieve both the cost and schedule currently reflected in the program of record.

Therefore, the JSF procurement program is provided \$6,840,478,000, and the JSF program is designated as a congressional special interest item. The Secretary of Defense is directed to ensure that all 30 aircraft be procured as requested in the budget. The Under Secretary of Defense for Acquisition, Technology and Logistics is directed to provide the findings of the JET along with recent studies on the test program and causes of cost growth to the congressional defense committees no later than January 15, 2010.

#### REPROGRAMMING GUIDANCE FOR ACQUISITION ACCOUNTS

It is the intent of Congress that the program baseline for reprogramming funds reflects all approved adjustment actions: the initial appropriation as well as any rescissions, supplemental appropriations and approved Department of Defense 1415 reprogrammings. The Secretary of Defense is directed to ensure that financial management regulations incorporate approved reprogramming actions as an adjustment to the base for reprogramming value.

The Department of Defense is directed to continue to follow the reprogramming guidance specified in the report accompanying the House version of the fiscal year 2006 Department of Defense Ap-

ropriations Act (H.R. 109–119). Specifically, the dollar threshold for reprogramming funds will remain at \$20,000,000 for procurement and \$10,000,000 for research, development, test, and evaluation. The Department shall continue to follow the limitation that prior approval reprogrammings are set at either the specified dollar threshold or 20 percent of the procurement or research, development, test and evaluation line, whichever is less. The percentage change limitation applies to both program increases and decreases. Additionally, this percentage change applies to the program base value at the time the below threshold movement of funds is executed. These thresholds are cumulative from the base for reprogramming value as modified by any adjustment action. Therefore, if the combined value of transfers into or out of a procurement (P–1) or research, development, test, and evaluation (R–1) line exceeds the identified threshold, the Department of Defense must submit a prior approval reprogramming request to the congressional defense committees. In addition, guidelines on the application of prior approval reprogramming procedures for congressional special interest items are established elsewhere in this report. This guidance is effective for fiscal year 2010 and forward.

#### REPROGRAMMING REPORTING REQUIREMENTS

The Under Secretary of Defense (Comptroller) is directed to continue to provide the congressional defense committees quarterly, spreadsheet-based DD1416 reports for service and defense-wide accounts in titles III and IV of this Act as required in the statement of the managers accompanying the conference report on the Department of Defense Appropriations Act, 2006.

#### FUNDING INCREASES

The funding increases outlined in these tables shall be provided only for the specific purposes indicated in the table.

## AIRCRAFT PROCUREMENT, ARMY

For Aircraft Procurement, Army, funds are to be available for fiscal  
year 2010, as follows:

(In thousands of dollars)

	Budget	House	Senate	Recommendation
AIRCRAFT PROCUREMENT, ARMY				
AIRCRAFT				
FIXED WING				
3 MQ-1 UAV.....	401,364	238,364	401,364	231,364
4 RQ-11 (RAVEN).....	35,008	35,008	35,008	35,008
ROTARY				
HELICOPTER, LIGHT UTILITY (LUH).....				
8 AH-64 APACHE BLOCK III.....	326,040	326,040	326,040	326,040
9 AH-64 APACHE BLOCK III (AP-CY).....	161,280	161,280	161,280	161,280
10 AH-64 APACHE BLOCK III (AP-CY).....	57,890	57,890	57,890	57,890
11 UH-60 BLACKHAWK (MYP).....	1,258,374	1,258,374	1,258,374	1,258,374
12 UH-60 BLACKHAWK (MYP) (AP-CY).....	98,740	98,740	98,740	98,740
13 CH-47 HELICOPTER.....	860,087	847,087	862,087	882,087
14 CH-47 HELICOPTER (AP-CY).....	50,676	50,676	50,676	50,676
15 HELICOPTER NEW TRAINING.....	19,639	19,639	---	---
TOTAL, AIRCRAFT.....	3,269,098	3,093,098	3,271,459	3,101,459
MODIFICATION OF AIRCRAFT				
16 MQ-1 PAYLOAD - UAS.....	87,424	87,424	87,424	87,424
17 MQ-1 WEAPONIZATION - UAS.....	14,832	14,832	14,832	14,832
18 GUARDRAIL MODS (MIP).....	61,517	61,517	61,517	61,517
19 MULTI SENSOR ABN RECON (MIP).....	21,457	21,457	21,457	21,457
20 AH-64 MODS.....	426,415	429,415	426,415	429,415
22 CH-47 CARGO HELICOPTER MODS.....	102,876	83,876	86,776	87,196
24 UTILITY/CARGO AIRPLANE MODS.....	39,547	39,547	39,547	39,547
25 AIRCRAFT LONG RANGE MODS.....	823	823	823	823
26 UTILITY HELICOPTER MODS.....	66,682	67,682	73,682	88,832
27 KIOWA WARRIOR.....	140,768	140,768	80,768	80,768
28 AIRBORNE AVIONICS.....	241,287	241,287	234,287	234,287
29 GATH ROLLUP.....	103,142	103,142	103,142	103,142
30 RQ-7 UAV MODS.....	283,012	283,012	283,012	283,012

(In thousands of dollars)

	Budget	House	Senate	Recommendation
-----				
SPARES AND REPAIR PARTS				
31 SPARE PARTS (AIR).....	7,083	7,083	7,083	7,083
-----				
TOTAL, MODIFICATION OF AIRCRAFT.....	1,596,865	1,601,865	1,519,765	1,539,335
-----				
SUPPORT EQUIPMENT AND FACILITIES				
GROUND SUPPORT AVIONICS				
32 AIRCRAFT SURVIVABILITY EQUIPMENT.....	25,975	25,975	25,975	25,975
33 ASE INFRARED CM.....	186,356	186,356	186,356	186,356
OTHER SUPPORT				
34 AVIONICS SUPPORT EQUIPMENT.....	4,933	4,933	4,933	4,933
35 COMMON GROUND EQUIPMENT.....	87,682	87,682	87,682	87,682
36 AIRCREW INTEGRATED SYSTEMS.....	52,725	52,725	55,725	55,725
37 AIR TRAFFIC CONTROL.....	76,999	76,999	76,999	76,999
38 INDUSTRIAL FACILITIES.....	1,533	1,533	1,533	1,533
39 LAUNCHER, 2.75 ROCKET.....	2,716	2,716	2,716	2,716
40 AIRBORNE COMMUNICATIONS.....	11,109	11,109	11,109	11,109
-----				
TOTAL, SUPPORT EQUIPMENT AND FACILITIES.....	450,028	450,028	453,028	453,028
-----				
TOTAL, AIRCRAFT PROCUREMENT, ARMY.....	5,315,981	5,144,991	5,244,252	5,093,822
=====				

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

P-1	Budget Request	House	Senate	Recommendation	
3	MQ-1 UAV	401,364	238,364	401,364	231,364
	Funding ahead of need		-163,000		0
	Exceeds production capacity (Transfer from Aircraft Procurement, Army line number 3 Title IX)				-170,000
13	CH-47 HELICOPTER	860,087	847,087	882,087	882,087
	Funding ahead of need		-35,000		0
	Army requested transfer from Aircraft Procurement, Army line number 22		22,000	22,000	22,000
15	HELICOPTER NEW TRAINING	19,639	19,639	0	0
	Unjustified request		-19,639		-19,639
20	AH-64 MODS	426,415	429,415	426,415	429,415
	Vibration Management Enhancement Program		3,000		3,000
22	CH-47 CARGO HELICOPTER MODS	102,876	83,876	85,776	87,196
	CH-47 Helicopter Forward and Aft Hook Project		3,000		2,400
	Army requested transfer to Aircraft Procurement, Army line number 13		-22,000	-22,000	-22,000
	Automatic Identification Technology Life Cycle Asset Management			1,500	1,200
	CH-47F Common Avionics Architecture System-Pilot Vehicle Interface			3,400	2,720
26	UTILITY HELICOPTER MODS	66,682	87,682	73,682	88,832
	Army National Guard UH-60 Rewiring Program		10,000		8,000
	Internal Auxiliary Fuel Tank System		3,000		2,400
	Civil Support Communications Systems for Kentucky Army National Guard UH-60 Aircraft		2,000		1,600
	Program Increase		5,000		3,750
	Forward Looking Infrared Sensors for UH-60 Medevac Helicopters for the Minnesota Army National Guard		1,000		800
	Air Filtration Systems for National Guard Helicopters			1,000	800
	UH-72A Integrated Vehicle Management System			2,000	1,600
	Recoil UH-60 Wild Land Fire-Fighting Tank System			4,000	3,200
27	KIOWA WARRIOR	140,768	140,768	80,768	80,768
	Excessive Long Lead Items			-60,000	-60,000
28	AIRBORNE AVIONICS	241,287	241,287	234,287	234,287
	ATCS - reduction to growth			-7,000	-7,000
36	AIRCREW INTEGRATED SYSTEMS	52,725	52,725	55,725	55,725
	Air Warrior Ensemble Generation III			3,000	3,000

## MISSILE PROCUREMENT, ARMY

For Missile Procurement, Army, funds are to be available for fiscal  
year 2010, as follows:

(In thousands of dollars)

	Budget	House	Senate	Recommendation
MISSILE PROCUREMENT, ARMY				
OTHER MISSILES				
SURFACE-TO-AIR MISSILE SYSTEM				
1 PATRIOT SYSTEM SUMMARY.....	348,351	338,851	348,351	342,351
2 PATRIOT/HEADS CAP SYSTEM SUMMARY.....	16,408	16,408	---	---
AIR-TO-SURFACE MISSILE SYSTEM				
3 SURFACE-LAUNCHED AHRAAH SYSTEM SUMMARY.....	72,920	72,920	---	---
5 HELLFIRE SYS SUMMARY.....	31,154	29,154	7,424	7,424
ANTI-TANK/ASSAULT MISSILE SYSTEM				
6 JAVELIN (AAMS-M) SYSTEM SUMMARY.....	148,649	148,649	148,649	148,649
7 TOW 2 SYSTEM SUMMARY.....	108,066	108,066	108,066	108,066
8 GUIDED MLRS ROCKET (GMLRS).....	293,617	293,617	293,617	293,617
9 MLRS REDUCED RANGE PRACTICE ROCKETS (RRPR).....	15,663	15,663	15,663	15,663
10 HIGH MOBILITY ARTILLERY ROCKET SYSTEM.....	209,061	209,061	209,061	209,061
TOTAL, OTHER MISSILES.....	1,243,887	1,232,387	1,130,831	1,124,831
MODIFICATION OF MISSILES				
MODIFICATIONS				
12 PATRIOT MODS.....	44,775	44,775	44,775	44,775
13 ITAS/TOW MODS.....	6,983	6,983	6,983	6,983
14 MLRS MODS.....	3,662	3,662	3,662	3,662
15 HINARS MODIFICATIONS.....	38,690	38,690	38,690	38,690
16 HELLFIRE MODIFICATIONS.....	10	10	10	10
TOTAL, MODIFICATION OF MISSILES.....	94,120	94,120	94,120	94,120

(In thousands of dollars)

	Budget	House	Senate	Recommendation
-----				
SPARES AND REPAIR PARTS				
17 SPARES AND REPAIR PARTS.....	22,338	22,338	22,338	22,338
SUPPORT EQUIPMENT AND FACILITIES				
18 AIR DEFENSE TARGETS.....	4,188	4,188	4,188	4,188
19 ITEMS LESS THAN \$5.0M (MISSILES).....	1,178	1,178	1,178	1,178
20 PRODUCTION BASE SUPPORT.....	4,398	4,398	4,398	4,398
-----				
TOTAL, SUPPORT EQUIPMENT AND FACILITIES.....	9,764	9,764	9,764	9,764
-----				
TOTAL, MISSILE PROCUREMENT, ARMY.....	1,370,109	1,358,609	1,257,053	1,251,053
-----				

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

P-1	Budget Request	House	Senate	Recommendation
<b>1 PATRIOT SYSTEM SUMMARY</b>	<b>348,351</b>	<b>338,851</b>	<b>348,351</b>	<b>342,351</b>
Unjustified cost growth		-9,500		-6,000
<b>PATRIOT/MEADS COMBINED AGGREGATE PROGRAM</b>				
<b>2 SYSTEM SUMMARY</b>	<b>16,406</b>	<b>16,406</b>	<b>0</b>	<b>0</b>
Funding ahead of need			-16,406	-16,406
<b>3 SURFACE-LAUNCHED AMRAAM SYSTEM SUMMARY</b>	<b>72,920</b>	<b>72,920</b>	<b>0</b>	<b>0</b>
Army program adjustment			-37,920	-27,920
Transfer to RDT&E, Army line number 102			-35,000	-45,000
<b>5 HELLFIRE SYSTEM SUMMARY</b>	<b>31,154</b>	<b>29,154</b>	<b>7,424</b>	<b>7,424</b>
Unjustified cost growth		-2,000		0
Unit cost adjustment			-23,730	-23,730

PROCUREMENT OF WEAPONS AND TRACKED COMBAT  
VEHICLES, ARMY

For Procurement of Weapons and Tracked Combat Vehicles, Army,  
funds are to be available for fiscal year 2010, as follows:

(In thousands of dollars)

	Budget	House	Senate	Recommendation
-----				
PROCUREMENT OF W&TCV, ARMY				
TRACKED COMBAT VEHICLES				
4	388,596	613,596	364,196	363,896
	STRYKER VEHICLE.....			
7	285,920	285,920	285,920	285,920
	FCS SPIN OUTS.....			
8	42,001	42,001	42,001	42,001
	FCS SPIN OUTS (AP-CY).....			
MODIFICATION OF TRACKED COMBAT VEHICLES				
9	34,192	34,192	34,192	34,192
	FIST VEHICLE (MOD).....			
10	526,356	526,356	500,656	526,356
	BRADLEY PROGRAM (MOD).....			
11	96,503	96,503	5,003	5,003
	HOWITZER, MED SP FT 155MM M109A6 (MOD).....			
12	96,814	96,814	96,814	96,814
	IMPROVED RECOVERY VEHICLE (M88A2 HERCULES).....			
13	63,250	63,250	63,250	63,250
	ARMORED BREACHER VEHICLE.....			
14	70,637	70,637	70,637	70,637
	JOINT ASSAULT BRIDGE.....			
15	183,829	183,829	183,829	183,829
	M1 ABRAMS TANK (MOD).....			
16	185,611	185,611	185,611	185,611
	ABRAMS UPGRADE PROGRAM.....			
SUPPORT EQUIPMENT AND FACILITIES				
18	6,601	6,601	6,601	6,601
	PRODUCTION BASE SUPPORT (TCV-WTCV).....			
-----				
	TOTAL, TRACKED COMBAT VEHICLES.....	1,980,310	2,205,310	1,838,710
				1,864,110

(In thousands of dollars)

	Budget	House	Senate	Recommendation
WEAPONS AND OTHER COMBAT VEHICLES				
19 HOWITZER, LIGHT, TOWED, 105MM, M119.....	95,631	95,631	95,631	95,631
20 M240 MEDIUM MACHINE GUN (7.62MM).....	32,919	32,919	23,519	23,519
21 MACHINE GUN, CAL .50 M2 ROLL.....	84,588	84,588	84,588	84,588
22 LIGHTWEIGHT .50 CALIBER MACHINE GUN.....	977	977	977	977
23 M249 SAW MACHINE GUN (5.56MM).....	7,535	7,535	7,535	7,535
24 HK-19 GRENADE MACHINE GUN (40MM).....	7,700	7,700	7,700	7,700
25 MORTAR SYSTEMS.....	14,779	14,779	14,779	14,779
26 M107, CAL. 50, SNIPER RIFLE.....	224	224	224	224
27 XM320 GRENADE LAUNCHER MODULE (GLM).....	16,023	16,023	16,023	16,023
28 M110 SEMI-AUTOMATIC SNIPER SYSTEM (SASS).....	6,223	6,223	6,223	6,223
29 M4 CARBINE.....	20,500	20,500	20,500	20,500
30 SHOTGUN, MODULAR ACCESSORY SYSTEM (MASS).....	6,945	6,945	---	---
32 HANDGUN.....	3,389	3,389	3,389	3,389
33 HOWITZER LT WT 155MM (T).....	49,572	49,572	49,572	49,572
MOD OF WEAPONS AND OTHER COMBAT VEH				
34 HK-19 GRENADE MACHINE GUN MODS.....	8,164	8,164	8,164	8,164
35 M4 CARBINE MODS.....	31,472	31,472	31,472	31,472
36 M2 50 CAL MACHINE GUN MODS.....	7,738	7,738	7,738	7,738
37 M249 SAW MACHINE GUN MODS.....	7,833	7,833	7,833	7,833
38 M240 MEDIUM MACHINE GUN MODS.....	17,964	17,964	17,964	17,964
40 M119 MODIFICATIONS.....	25,306	25,306	25,306	25,306
41 M16 RIFLE MODS.....	4,186	4,186	4,186	4,186
42 MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV).....	6,164	6,164	6,164	6,564
SUPPORT EQUIPMENT AND FACILITIES				
43 ITEMS LESS THAN \$5.0M (WOCV-WTCV).....	551	551	551	551
44 PRODUCTION BASE SUPPORT (WOCV-WTCV).....	9,855	11,855	25,855	23,855
45 INDUSTRIAL PREPAREDNESS.....	392	3,392	392	392
46 SMALL ARMS EQUIPMENT (SOLDIER ENH PROG).....	5,012	5,012	5,012	5,012
TOTAL, WEAPONS AND OTHER COMBAT VEHICLES.....	471,642	476,642	471,297	471,697
TOTAL, PROCUREMENT OF WTCV, ARMY.....	2,451,952	2,681,952	2,310,007	2,336,807

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[in thousands of dollars]

P-1	Budget Request	House	Senate	Recommendation	
<b>4</b>	<b>STRYKER VEHICLE</b>	388,596	613,596	364,196	363,896
	Excessive program management support costs		-25,000	-24,400	-24,700
	Additional Stryker Vehicles and production base sustainment (Transferred to WTCV, Army line number 4 Title IX)		250,000		0
<b>10</b>	<b>BRADLEY PROGRAM (MOD)</b>	526,356	526,356	500,656	526,356
	Excessive program support costs			-25,700	0
<b>11</b>	<b>HOWITZER, MED SP FT 155MM M109A6 (MOD)</b>	96,503	96,503	5,003	5,003
	Army requested transfer to RDT&E, Army line number 114			-91,500	-91,500
<b>20</b>	<b>M240 MEDIUM MACHINE GUN (7.62MM)</b>	32,919	32,919	23,519	23,519
	Delayed contract award			-9,400	-9,400
<b>30</b>	<b>SHOTGUN, MODULAR ACCESSORY SYSTEM (MASS)</b>	6,945	6,945	0	0
	Delayed contract award			-6,945	-6,945
<b>42</b>	<b>MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV)</b>	6,164	6,164	6,164	8,564
	M24 Sniper Weapons System Upgrade (Transferred from O&M, Army line number 424)				2,400
<b>44</b>	<b>PRODUCTION BASE SUPPORT (WOCV-WTCV)</b>	9,855	11,855	25,855	23,855
	Arsenal Support Program Initiative at Rock Island Arsenal		2,000	8,000	7,600
	Arsenal Support Program Initiative at Watervliet Arsenal (Includes transfer from line number 45)			8,000	6,400
<b>45</b>	<b>INDUSTRIAL PREPAREDNESS</b>	392	3,392	392	392
	Arsenal Support Program Initiative (Transferred to line number 44)		3,000		0

## BRADLEY FIGHTING VEHICLE

The various versions of the Bradley Fighting Vehicle family have continued to provide excellent performance in combat operations. The Bradleys have assumed a heavy workload in Iraq and have achieved survivability goals second only to the M1 Abrams Tank. However, there are concerns that the termination of the Future Combat Systems manned ground vehicles has created considerable uncertainty regarding the current Bradley. Congress has been consistent in its strong support for robust Bradley programs, providing \$784,600,000 for Bradley reset and remanufacture in the Supplemental Appropriations Act, 2009. The Army is strongly urged to sustain the Bradley industrial base by accomplishing vehicle restoration and reset efforts to the zero hours, zero miles standard plus survivability upgrades.

The recommendation fully supports the fiscal year 2010 budget request for Bradley modifications of \$526,356,000 in base budget funding, plus \$243,600,000 for overseas contingency operations, for a total of \$769,956,000. The Army is expected to apply the funding to sustain the Bradley industrial base, continue upgrades of Bradley Operation Desert Storm (ODS) variants to the ODS Situational Awareness variant, and reset Bradley Fighting Vehicles to the zero hours, zero miles standard, plus survivability enhancements. The Army is encouraged to include Bradley Fighting Vehicles from prepositioned equipment sets in the rotation through the reset and remanufacture program.

It is understood that the Army's M-113 divestiture decision will affect approximately 4,100 M-113 type vehicles, including ambulance, mortar, command post and fire support variants. Strong consideration should be given to replacing these vehicles in the Heavy Brigade Combat Teams with a Bradley-based vehicle to leverage the Bradley's track record of proven performance as well as the existing logistics support.

There is a disparity in digital data management between the engineer units in certain Heavy Brigade Combat Teams and the infantry and tank units that they support. The digital brigades have digital Abrams Tanks, matched with digital A3 Bradleys, but the engineers have non-digital Bradley ODS variants, which limits the engineers' ability to be fully integrated into the information network. The Army is urged to procure Bradley A3 variants with digital configuration for engineer units in heavy brigades that have the Bradley A3 and M1A2 System Enhancement Package Abrams tank.

Added survivability enhancements and other improvements have increased the weight of the Bradley Fighting Vehicle and adversely impacted some aspects of performance. The Army is expected to give strong consideration to Space, Weight, and Power improvements with the funds provided in Research, Development, Test and Evaluation, Army and to incorporate these improvements into the fleet at the earliest opportunity.

In addition, the recommendation fully supports the Army's M109 Paladin Howitzer/Field Artillery Ammunition Resupply Vehicle Integrated Management (PIM) program for fiscal year 2010, including a transfer of \$91,500,000 from the procurement request to the

Research, Development, Test and Evaluation, Army appropriation. The Vietnam-era M109 Paladin self-propelled howitzer requires major upgrades in mobility, maintainability and reliability and the PIM program, which incorporated an upgraded turret and fire control system with a Bradley Fighting Vehicle chassis, offers vast improvements in mobility and fire support. The Army is urged to move ahead promptly with the Paladin PIM program.

## PROCUREMENT OF AMMUNITION, ARMY

For Procurement of Ammunition, Army, funds are to be available for  
fiscal year 2010, as follows:

(In thousands of dollars)

	Budget	House	Senate	Recommendation
PROCUREMENT OF AMMUNITION, ARMY				
AMMUNITION				
SMALL/MEDIUM CAL AMMUNITION				
1	207,752	207,752	207,752	207,752
2	77,602	77,602	77,602	77,602
3	5,120	5,120	5,120	5,120
4	162,342	162,342	162,342	162,342
5	17,054	17,054	17,054	17,054
6	96,572	86,572	96,572	94,572
7	172,675	172,675	176,675	176,675
MORTAR AMMUNITION				
8	23,607	27,607	23,607	26,607
9	28,719	28,719	28,719	28,719
10	104,961	104,961	110,161	109,161
TANK AMMUNITION				
11	7,741	7,741	7,741	7,741
12	113,463	113,463	113,463	113,463
ARTILLERY AMMUNITION				
13	5,229	5,229	5,229	5,229
14	90,726	75,726	90,726	85,726
15	54,546	54,546	63,546	61,746
16	62,292	62,292	62,292	62,292
17	33,441	33,441	25,441	27,441

(In thousands of dollars)

	Budget	House	Senate	Recommendation
<b>ARTILLERY FUZES</b>				
18 ARTILLERY FUZES, ALL TYPES.....	19,870	19,870	19,870	19,870
<b>MINES</b>				
19 MINES, ALL TYPES.....	815	815	815	815
21 ANTI-PERSONNEL LANDMINE ALTERNATIVES.....	56,387	56,387	56,387	56,387
22 INTELLIGENT MUNITIONS SYSTEM (IMS), ALL TYPES.....	19,507	19,507	19,507	19,507
<b>ROCKETS</b>				
23 SHOULDER LAUNCHED MUNITIONS, ALL TYPES.....	45,302	45,302	40,302	42,802
24 ROCKET, HYDRA 70, ALL TYPES.....	99,904	99,904	99,904	99,904
<b>OTHER AMMUNITION</b>				
25 DEMOLITION MUNITIONS, ALL TYPES.....	18,793	27,793	18,793	18,793
26 GRENADES, ALL TYPES.....	49,910	49,910	49,910	49,910
27 SIGNALS, ALL TYPES.....	83,094	83,094	71,094	71,094
28 SIMULATORS, ALL TYPES.....	12,081	12,081	12,081	12,081
<b>MISCELLANEOUS</b>				
29 AMMO COMPONENTS, ALL TYPES.....	17,968	17,968	17,968	17,968
30 NON-LETHAL AMMUNITION, ALL TYPES.....	7,378	7,378	7,378	7,378
31 CAD/PAD ALL TYPES.....	3,353	3,353	3,353	3,353
32 ITEMS LESS THAN \$5 MILLION.....	8,826	8,826	8,826	8,826
33 AMMUNITION PECULIAR EQUIPMENT.....	11,187	14,187	16,087	17,507
34 FIRST DESTINATION TRANSPORTATION (AMMO).....	14,354	14,354	14,354	14,354
35 CLOSEOUT LIABILITIES.....	99	99	99	99
<b>TOTAL, AMMUNITION.....</b>	<b>1,732,690</b>	<b>1,723,690</b>	<b>1,730,790</b>	<b>1,730,110</b>
<b>AMMUNITION PRODUCTION BASE SUPPORT</b>				
<b>PRODUCTION BASE SUPPORT</b>				
36 PROVISION OF INDUSTRIAL FACILITIES.....	151,943	162,443	151,943	158,743
37 LAYAWAY OF INDUSTRIAL FACILITIES.....	9,529	9,529	9,529	9,529
38 MAINTENANCE OF INACTIVE FACILITIES.....	8,772	8,772	8,772	8,772
39 CONVENTIONAL MUNITIONS DEMILITARIZATION, ALL.....	145,777	145,777	145,777	145,777
40 ARMS INITIATIVE.....	3,184	3,184	3,184	3,184
<b>TOTAL, AMMUNITION PRODUCTION BASE SUPPORT.....</b>	<b>319,205</b>	<b>329,705</b>	<b>319,205</b>	<b>326,005</b>
<b>TOTAL, PROCUREMENT OF AMMUNITION, ARMY.....</b>	<b>2,051,895</b>	<b>2,053,395</b>	<b>2,049,995</b>	<b>2,056,115</b>

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[in thousands of dollars]

P-1	Budget Request	House	Senate	Recommendation
<b>6 CTG, 30MM, ALL TYPES</b>	<b>96,572</b>	<b>86,572</b>	<b>96,572</b>	<b>94,672</b>
Unjustified program growth		-10,000		-2,000
<b>7 CTG, 40MM, ALL TYPES</b>	<b>172,675</b>	<b>172,675</b>	<b>176,675</b>	<b>176,675</b>
40mm Tactical All Types Mortar Round			4,000	4,000
<b>8 60MM MORTAR, ALL TYPES</b>	<b>23,607</b>	<b>27,607</b>	<b>23,607</b>	<b>26,807</b>
M722 60mm White Phosphorus Smoke Mortar		2,000		1,600
M721 60mm Illuminating Mortar		2,000		1,600
<b>10 CTG, MORTAR, 120MM, ALL TYPES</b>	<b>104,961</b>	<b>104,961</b>	<b>110,161</b>	<b>109,161</b>
CTG, Mortar, 120mm, Illum			5,200	4,200
<b>14 CTG, ARTY, 105MM: ALL TYPES</b>	<b>90,726</b>	<b>75,726</b>	<b>90,726</b>	<b>86,726</b>
Unjustified program growth		-15,000		-5,000
<b>15 CTG, ARTY, 155MM, ALL TYPES</b>	<b>54,546</b>	<b>54,546</b>	<b>63,546</b>	<b>61,746</b>
CTG, Artillery, 155mm Illum			9,000	7,200
<b>17 MODULAR ARTILLERY CHARGE SYSTEM (MACS), ALL</b>	<b>33,441</b>	<b>33,441</b>	<b>25,441</b>	<b>27,441</b>
General Reduction			-8,000	-6,000
<b>23 SHOULDER LAUNCHED MUNITIONS, ALL TYPES</b>	<b>45,302</b>	<b>45,302</b>	<b>40,302</b>	<b>42,802</b>
General Reduction			-5,000	-2,500
<b>25 DEMOLITION MUNITIONS, ALL TYPES</b>	<b>18,793</b>	<b>27,793</b>	<b>18,793</b>	<b>18,793</b>
Magneto Inductive Remote Activation Munitions System (MI-RAMS) M156/M39 Kits and M40 Receivers (Transferred to Other Procurement, Army line number 136)		9,000		0
<b>27 SIGNALS, ALL TYPES</b>	<b>83,094</b>	<b>83,094</b>	<b>71,094</b>	<b>71,094</b>
General Reduction			-12,000	-12,000
<b>33 AMMUNITION PECULIAR EQUIPMENT</b>	<b>11,187</b>	<b>14,187</b>	<b>16,087</b>	<b>17,507</b>
Blue Grass Army Depot Supercritical Water Oxidation- Conventional Demil			4,900	3,920
Blue Grass Army Depot Equipment		3,000		2,400
<b>36 PROVISION OF INDUSTRIAL FACILITIES</b>	<b>151,943</b>	<b>162,443</b>	<b>151,943</b>	<b>158,743</b>
Bombline Modernization (Transferred to Procurement of Ammunition, Air Force line number 4)		2,000		0
Ammunition Production Base Support (Scranton Army Ammunition Plant)		3,500		2,800
Small Caliber Ammunition Production Modernization		5,000		4,000

## AMMUNITION FACILITIES AND EQUIPMENT

The Army is planning to transfer or consolidate government-owned ammunition assets to private ammunition manufacturers. In order to ensure a comprehensive understanding of these plans, the Secretary of the Army is directed to provide a report to the congressional defense committees not later than 60 days after enactment of this Act on any plans to consolidate government-owned ammunition production assets or to transfer by sale, lease, loan or donation government-owned ammunition production equipment or facilities to a private ammunition manufacturer. The report shall include the Secretary of the Army's assessment of the following: a cost-benefit risk analysis for consolidating or transferring government-owned ammunition production equipment or facilities to private ammunition manufacturers, including cost-savings comparisons; a projection of the impact on the ammunition production industrial base in the United States of consolidating or transferring such equipment or facilities to private ammunition manufacturers; a projection of the capability to meet current and future ammunition production requirements by both government-owned and private ammunition manufacturers, as well as a combination of the two sources of production assets; and the potential impact on national security and military readiness.

Furthermore, if additional consolidation or transfers are required during fiscal year 2010 and are not addressed in the report submitted to the congressional defense committees, the Secretary of the Army is directed to certify to the congressional defense committees that the transfer or consolidation will not increase the cost of ammunition procurement or negatively impact national security, military readiness, government ammunition production or the United States ammunition production industrial base.

Finally, there is an existing contract to operate the Milan and Iowa Army Ammunition Plants (AAP) that would transform, at the contractor's expense, the Iowa AAP into a Joint Munitions Load, Assemble and Pack facility and transform the Milan AAP into a Logistics Center of Excellence/Joint Munitions Storage and Distribution Center by 2011. The Secretary of the Army is directed to notify the congressional defense committees not later than 30 days prior to any modification to this contract. In addition, the Government Accountability Office (GAO) is directed to conduct an audit on the amount and sources of funds used in furtherance of this contract.

## OTHER PROCUREMENT, ARMY

For Other Procurement, Army, funds are to be available for fiscal year

2010, as follows:

(In thousands of dollars)

	Budget	House	Senate	Recommendation
OTHER PROCUREMENT, ARMY				
TACTICAL AND SUPPORT VEHICLES				
TACTICAL VEHICLES				
1 TACTICAL TRAILERS/DOLLY SETS.....	95,893	95,893	95,893	95,893
2 SEMITRAILERS, FLATBED.....	20,870	20,870	20,870	20,870
3 SEMITRAILERS, TANKERS.....	13,217	13,217	13,217	13,217
4 HI MOB MULTI-PURP WILD VEH (HMMWV).....	281,123	281,123	282,323	282,083
5 FAMILY OF MEDIUM TACTICAL VEH (FMTV).....	1,158,522	965,522	1,033,522	487,822
6 FIRETRUCKS & ASSOCIATED FIREFIGHTING EQUIPMEN.....	17,575	17,575	17,575	17,575
7 FAMILY OF HEAVY TACTICAL VEHICLES (FHTV).....	812,918	786,568	812,918	612,918
8 PLS ESP.....	18,973	18,973	18,973	18,973
9 ARMORED SECURITY VEHICLES (ASV).....	136,605	136,605	136,605	136,605
10 MINE PROTECTION VEHICLE FAMILY.....	402,517	267,797	325,517	279,197
12 TRUCK, TRACTOR, LINE HAUL, M915/M916.....	74,703	74,703	74,703	74,703
13 HVY EXPANDED MOBILE TACTICAL TRUCK EXT SERV.....	180,793	180,793	170,593	170,593
14 HMMWV RECAPITALIZATION PROGRAM.....	2,904	2,904	2,904	2,904
15 MODIFICATION OF IN SVC EQUIP.....	10,314	10,314	---	2,314
16 ITEMS LESS THAN \$5.0M (TAC VEH).....	298	4,298	5,898	4,778
17 TOWING DEVICE-FIFTH WHEEL.....	414	1,114	414	974
NON-TACTICAL VEHICLES				
18 HEAVY ARMORED SEDAN.....	1,980	1,980	1,980	1,980
19 PASSENGER CARRYING VEHICLES.....	269	269	---	---
20 NONTACTICAL VEHICLES, OTHER.....	3,052	5,052	3,052	3,052
TOTAL, TACTICAL AND SUPPORT VEHICLES.....	3,232,940	2,881,568	3,016,957	2,236,451

(In thousands of dollars)

	Budget	House	Senate	Recommendation
COMMUNICATIONS AND ELECTRONICS EQUIPMENT				
COMM - JOINT COMMUNICATIONS				
22 JOINT COMBAT IDENTIFICATION MARKING SYSTEM.....	11,868	11,868	11,868	11,868
23 WIN-T - GROUND FORCES TACTICAL NETWORK.....	544,202	544,202	544,202	544,202
24 JCSE EQUIPMENT (USREDCOM).....	4,868	4,868	4,868	4,868
COMM - SATELLITE COMMUNICATIONS				
25 DEFENSE ENTERPRISE WIDEBAND SATCOM SYSTEMS.....	145,108	145,108	145,108	145,108
26 SHF TERM.....	90,918	90,918	94,918	94,118
27 SAT TERM, EMUT (SPACE).....	653	653	653	653
28 NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE).....	72,735	72,735	72,735	72,735
29 SMART-T (SPACE).....	61,116	61,116	61,116	61,116
30 SCAMP (SPACE).....	1,834	1,834	1,834	1,834
31 GLOBAL BRDCST SVC - GBS.....	6,849	6,849	6,849	6,849
32 MOD OF IN-SVC EQUIP (TAC SAT).....	2,862	2,862	2,862	2,862
COMM - C3 SYSTEM				
33 ARMY GLOBAL CMD & CONTROL SYS (AGCCS).....	22,996	22,996	22,996	22,996
COMM - COMBAT COMMUNICATIONS				
34 ARMY DATA DISTRIBUTION SYSTEM (DATA RADIO).....	1,705	1,705	1,705	1,705
35 JOINT TACTICAL RADIO SYSTEM.....	90,204	35,040	35,040	35,040
36 RADIO TERMINAL SET, MIDS LVT(2).....	8,549	8,549	8,549	8,549
37 SINCARS FAMILY.....	6,812	3,000	3,500	3,000
39 MULTI-PURPOSE INFORMATION OPERATIONS SYSTEMS.....	6,164	6,164	6,164	6,164
41 COMMS-ELEC EQUIP FIELDING.....	---	7,360	6,000	8,288
42 SPIDER APLA REMOTE CONTROL UNIT.....	21,820	21,820	21,820	21,820
43 IMS REMOTE CONTROL UNIT.....	9,256	9,256	9,256	9,256
44 SOLDIER ENHANCEMENT PROGRAM COMM/ELECTRONICS.....	4,646	4,646	4,646	4,646
45 COMBAT SURVIVOR EVADER LOCATOR (CSEL).....	2,367	2,367	2,367	2,367
46 RADIO, IMPROVED HF (COTS) FAMILY.....	6,555	6,555	6,555	6,555
47 MEDICAL COMM FOR CBT CASUALTY CARE (MC4).....	18,583	18,583	18,583	18,583
COMM - INTELLIGENCE COMM				
48 CI AUTOMATION ARCHITECTURE (MIP).....	1,414	1,414	1,414	1,414
INFORMATION SECURITY				
49 TSEC - ARMY KEY MGT SYS (AKHS).....	29,525	29,525	29,525	29,525
50 INFORMATION SYSTEM SECURITY PROGRAM-ISSP.....	33,189	33,189	33,189	33,189
COMM - LONG HAUL COMMUNICATIONS				
51 TERRESTRIAL TRANSMISSION.....	1,890	1,890	1,890	1,890
52 BASE SUPPORT COMMUNICATIONS.....	25,525	25,525	25,525	25,525

(In thousands of dollars)

	Budget	House	Senate	Recommendation
54 WW TECH CON IMP PROG (WTCIP).....	31,256	31,256	31,256	31,256
COMM - BASE COMMUNICATIONS				
55 INFORMATION SYSTEMS.....	216,057	216,057	216,057	216,057
56 DEFENSE MESSAGE SYSTEM (DMS).....	6,203	6,203	6,203	6,203
57 INSTALLATION INFO INFRASTRUCTURE MOD PROGRAM.....	147,111	147,111	147,111	147,111
58 PENTAGON INFORMATION MGT AND TELECOM.....	39,906	39,906	39,906	39,906
ELECT EQUIP - NAT INT PROG (NIP)				
ELECT EQUIP - NAT INTEL PROG (NIP)				
62 JTT/CIBS-M (MIP).....	3,279	3,279	3,279	3,279
63 PROPHET GROUND (MIP).....	64,498	64,498	64,498	64,498
69 DCGS-A (MIP).....	85,354	85,354	85,354	85,354
70 JOINT TACTICAL GROUND STATION (JTAGS).....	6,703	6,703	6,703	6,703
71 TROJAN (MIP).....	26,659	26,659	26,659	26,659
72 MOD OF IN-SVC EQUIP (INTEL SPT) (MIP).....	7,021	7,021	7,021	7,021
73 CI HUMINT AUTO REPRINTING AND COLL(CHARCS)(MIP).....	4,509	4,509	4,509	4,509
74 SEQUOYAH FOREIGN LANGUAGE TRANSLATION SYSTEM.....	6,420	6,420	---	---
75 ITEMS LESS THAN \$5.0M (MIP).....	17,053	17,053	17,053	17,053
ELECT EQUIP - ELECTRONIC WARFARE (EW)				
76 LIGHTWEIGHT COUNTER MORTAR RADAR.....	31,661	31,661	31,661	31,661
78 COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES.....	1,284	1,284	1,284	1,284
79 CI MODERNIZATION (MIP).....	1,221	1,221	1,221	1,221
ELECT EQUIP - TACTICAL SURV. (TAC SURV)				
80 SENTINEL MODS.....	25,863	25,863	25,863	25,863
81 SENSE THROUGH THE WALL (STTW).....	25,352	25,352	---	---
82 NIGHT VISION DEVICES.....	366,820	191,158	180,458	180,458
83 LONG RANGE ADVANCED SCOUT SURVEILLANCE SYSTEM.....	133,836	133,836	133,836	133,836
84 NIGHT VISION, THERMAL WPN SIGHT.....	313,237	313,237	313,237	313,237
85 SMALL TACTICAL OPTICAL RIFLE MOUNTED HIRF.....	9,179	9,179	9,179	9,179
86 RADIATION MONITORING SYSTEMS.....	2,198	2,198	2,198	2,198
89 ARTILLERY ACCURACY EQUIP.....	5,838	5,838	5,838	5,838
91 ENHANCED PORTABLE INDUCTIVE ARTILLERY FUZE SE.....	1,178	1,178	1,178	1,178
92 PROFILER.....	4,766	4,766	4,766	4,766
93 MOD OF IN-SVC EQUIP (FIREFINDER RADARS).....	2,801	2,801	2,801	2,801
94 FORCE XXI BATTLE CMD BRIGADE & BELOW (FBCB2).....	271,979	271,979	271,979	271,979

(In thousands of dollars)

	Budget	House	Senate	Recommendation
95 JOINT BATTLE COMMAND - PLATFORM (JBC-P).....	17,242	17,242	17,242	17,242
96 LIGHTWEIGHT LASER DESIGNATOR/RANGEFINDER (LLD).....	59,080	59,080	59,080	59,080
98 MORTAR FIRE CONTROL SYSTEM.....	15,520	15,520	17,820	17,820
99 COUNTERFIRE RADARS.....	194,665	194,665	194,665	194,665
101 ENHANCED SENSOR & MONITORING SYSTEM.....	1,944	1,944	1,944	1,944
ELECT EQUIP - TACTICAL C2 SYSTEMS				
102 TACTICAL OPERATIONS CENTERS.....	29,934	32,234	29,934	31,774
103 FIRE SUPPORT C2 FAMILY.....	39,042	39,042	32,742	32,742
104 BATTLE COMMAND SUSTAINMENT SUPPORT SYSTEM.....	31,968	31,968	31,968	31,968
105 FAAD C2.....	8,289	8,289	8,289	8,289
106 AIR & MSL DEFENSE PLANNING & CONTROL SYS (AMD).....	62,439	62,439	62,439	62,439
107 KNIGHT FAMILY.....	80,831	80,831	80,831	80,831
108 LIFE CYCLE SOFTWARE SUPPORT (LCSS).....	1,778	1,778	1,778	1,778
109 AUTOMATIC IDENTIFICATION TECHNOLOGY.....	31,542	31,542	33,542	33,142
110 TC AIMS II.....	11,124	11,124	11,124	11,124
113 NETWORK MANAGEMENT INITIALIZATION AND SERVICE.....	53,898	53,898	53,898	53,898
114 MANEUVER CONTROL SYSTEM (MCS).....	77,646	77,646	77,646	77,646
115 SINGLE ARMY LOGISTICS ENTERPRISE (SALE).....	46,861	46,861	46,861	46,861
116 RECONNAISSANCE AND SURVEYING INSTRUMENT SET.....	11,118	11,118	11,118	11,118
117 MOUNTED BATTLE COMMAND ON THE MOVE (MBCOTH).....	926	926	926	926
ELECT EQUIP - AUTOMATION				
118 GENERAL FUND ENTERPRISE BUSINESS SYSTEM.....	85,801	85,801	85,801	44,901
119 ARMY TRAINING MODERNIZATION.....	12,823	12,823	12,823	12,823
120 AUTOMATED DATA PROCESSING EQUIPMENT.....	254,723	179,723	239,723	209,723
121 CSS COMMUNICATIONS.....	33,749	33,749	33,749	33,749
122 RESERVE COMPONENT AUTOMATION SYS (RCAS).....	39,675	39,675	39,675	39,675
ELECT EQUIP - AUDIO VISUAL SYS (A/V)				
124 ITEMS LESS THAN \$5.0M (A/V).....	2,709	2,709	2,709	2,709
125 ITEMS LESS THAN \$5M (SURVEYING EQUIPMENT).....	5,172	5,172	5,172	5,172
ELECT EQUIP - SUPPORT				
128 PRODUCTION BASE SUPPORT (C-E).....	518	518	518	518
TOTAL, COMMUNICATIONS AND ELECTRONICS EQUIPMENT.....	4,304,472	4,004,494	4,020,862	3,952,390

(In thousands of dollars)

	Budget	House	Senate	Recommendation
OTHER SUPPORT EQUIPMENT				
CHEMICAL DEFENSIVE EQUIPMENT				
129 PROTECTIVE SYSTEMS.....	2,081	2,081	2,081	2,081
130 CBRN SOLDIER PROTECTION.....	108,334	108,334	108,334	108,334
131 SMOKE & OBSCURANT FAMILY: SOF (NON AAO ITEM).....	7,135	7,135	7,135	7,135
BRIDGING EQUIPMENT				
132 TACTICAL BRIDGING.....	58,509	58,509	53,909	53,909
133 TACTICAL BRIDGE, FLOAT-RIBBON.....	135,015	135,015	135,015	135,015
ENGINEER (NON-CONSTRUCTION) EQUIPMENT				
134 HANDHELD STANDOFF MINEFIELD DETECTION SYS-HST.....	42,264	42,264	42,264	42,264
135 GROUND STANDOFF MINE DETECTION SYSTEM (GSTAMIDS).....	56,123	56,123	50,223	50,223
136 EXPLOSIVE ORDNANCE DISPOSAL EQPMT (EOD EQPMT).....	49,333	49,333	49,333	56,533
137 ITEMS LESS THAN \$5M, COUNTERMINE EQUIPMENT.....	3,479	3,479	3,479	3,479
138 AERIAL DETECTION.....	11,200	200	200	200
COMBAT SERVICE SUPPORT EQUIPMENT				
139 HEATERS AND ECUS.....	11,924	11,924	11,924	11,924
141 SOLDIER ENHANCEMENT.....	4,071	4,071	4,071	4,071
142 LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME).....	---	---	---	1,600
143 PERSONNEL RECOVERY SUPPORT SYSTEM (PRSS).....	6,981	6,981	6,981	6,981
144 GROUND SOLDIER SYSTEM.....	1,809	1,809	---	1,809
145 MOUNTED SOLDIER SYSTEM.....	1,085	1,085	---	1,085
147 FIELD FEEDING EQUIPMENT.....	57,872	61,372	57,872	60,672
148 CARGO AERIAL DEL & PERSONNEL PARACHUTE SYSTEM.....	66,381	66,381	61,581	63,981
149 MOBILE INTEGRATED REMAINS COLLECTION SYSTEM.....	16,585	16,585	16,585	16,585
150 ITEMS LESS THAN \$5M (ENG SPT).....	25,531	25,531	25,531	25,531
PETROLEUM EQUIPMENT				
152 DISTRIBUTION SYSTEMS, PETROLEUM & WATER.....	84,019	84,019	84,019	84,019
WATER EQUIPMENT				
153 WATER PURIFICATION SYSTEMS.....	7,173	7,173	7,173	7,173
MEDICAL EQUIPMENT				
154 COMBAT SUPPORT MEDICAL.....	33,694	34,694	36,694	36,694
MAINTENANCE EQUIPMENT				
155 MOBILE MAINTENANCE EQUIPMENT SYSTEMS.....	137,002	137,002	137,002	137,002
156 ITEMS LESS THAN \$5.0M (MAINT EQ).....	812	5,812	812	3,312
CONSTRUCTION EQUIPMENT				
157 GRADER, ROAD MTZD, HVY, 6X4 (CCE).....	50,897	50,897	44,297	44,297
158 SKID STEER LOADER (SSL) FAMILY OF SYSTEM.....	18,387	18,387	18,387	18,387

(In thousands of dollars)

	Budget	House	Senate	Recommendation
161 MISSION MODULES - ENGINEERING.....	44,420	44,420	44,420	44,420
162 LOADERS.....	20,824	20,824	20,824	20,824
163 HYDRAULIC EXCAVATOR.....	18,785	18,785	18,785	18,785
164 TRACTOR, FULL TRACKED.....	50,102	50,102	50,102	50,102
166 PLANT, ASPHALT MIXING.....	12,915	12,915	12,915	12,915
167 HIGH MOBILITY ENGINEER EXCAVATOR (HMEE) FDS.....	36,451	36,451	36,451	36,451
168 CONST EQUIP ESP.....	8,391	8,391	8,391	8,391
169 ITEMS LESS THAN \$5.0M (CONST EQUIP).....	12,562	12,562	12,562	12,562
RAIL FLOAT CONTAINERIZATION EQUIPMENT				
170 JOINT HIGH SPEED VESSEL (JHSV).....	183,666	183,666	183,666	183,666
171 HARBORMASTER COMMAND AND CONTROL CENTER(HCCC).....	10,962	10,962	10,962	10,962
172 ITEMS LESS THAN \$5.0M (FLOAT/RAIL).....	6,785	6,785	6,785	6,785
GENERATORS				
173 GENERATORS AND ASSOCIATED EQUIPMENT.....	146,067	152,067	146,067	150,867
MATERIAL HANDLING EQUIPMENT				
174 ROUGH TERRAIN CONTAINER HANDLER (RTCH).....	41,239	41,239	41,239	41,239
175 ALL TERRAIN LIFTING ARMY SYSTEM.....	44,898	44,898	44,898	44,898
TRAINING EQUIPMENT				
176 COMBAT TRAINING CENTERS SUPPORT.....	22,967	22,967	22,967	22,967
177 TRAINING DEVICES, NONSYSTEM.....	261,348	292,848	303,798	309,228
178 CLOSE COMBAT TACTICAL TRAINER.....	65,155	65,155	65,155	65,155
179 AVIATION COMBINED ARMS TACTICAL TRAINER (AVCA).....	12,794	12,794	12,794	12,794
180 GAMING TECHNOLOGY IN SUPPORT OF ARMY TRAINING.....	7,870	7,870	7,870	7,870
TEST MEASURE AND DIG EQUIPMENT (TMD)				
181 CALIBRATION SETS EQUIPMENT.....	16,844	16,844	16,844	16,844
182 INTEGRATED FAMILY OF TEST EQUIPMENT (IFTE).....	101,320	101,320	101,320	101,320
183 TEST EQUIPMENT MODERNIZATION (TEMOD).....	15,526	15,526	15,526	15,526
OTHER SUPPORT EQUIPMENT				
184 RAPID EQUIPPING SOLDIER SUPPORT EQUIPMENT.....	21,770	23,770	---	6,370
185 PHYSICAL SECURITY SYSTEMS (OPA3).....	49,758	49,758	49,758	49,758
186 BASE LEVEL CDM'L EQUIPMENT.....	1,303	1,303	1,303	1,303
187 MODIFICATION OF IN-SVC EQUIPMENT (OPA-3).....	53,884	53,884	53,884	53,884
188 PRODUCTION BASE SUPPORT (OTH).....	3,050	3,050	3,050	3,050
190 SPECIAL EQUIPMENT FOR USER TESTING.....	45,516	45,516	45,516	45,516
191 AMC CRITICAL ITEMS OPA3.....	12,232	12,232	12,232	12,232

(In thousands of dollars)

	Budget	House	Senate	Recommendation
192 MA8975.....	4,492	4,492	4,492	4,492
TOTAL, OTHER SUPPORT EQUIPMENT.....	2,331,592	2,369,592	2,319,478	2,355,672
SPARE AND REPAIR PARTS				
193 INITIAL SPARES - C&E.....	25,867	25,867	25,867	25,867
194 WIN-T INCREMENT 2 SPARES.....	9,758	9,758	9,758	9,758
TOTAL, SPARE AND REPAIR PARTS.....	35,625	35,625	35,625	35,625
CLASSIFIED PROGRAMS.....	2,522	2,522	2,522	2,522
TOTAL, OTHER PROCUREMENT, ARMY.....	9,907,151	9,293,801	9,395,444	8,582,660



P-1		Budget Request	House	Senata	Recommendation
37	SINGGARS FAMILY	6,812	3,000	3,500	3,000
	Funding in excess of need		-6,812	-6,812	-6,812
	Radio Personality Modules for SINGGARS Test Sets		3,000	3,500	3,000
	<b>COMMUNICATIONS-ELECTRONICS EQUIPMENT</b>				
41	FIELDING	0	7,360	6,000	8,288
	Communications Aerial Platforms for Increased Situational Awareness for the Minnesota National Guard		2,360		1,888
	Regional Emergency Response Network Emergency Cell Phone Capability		5,000	3,000	4,000
	Tactical/Crew Served Weapon Illumination Systems			3,000	2,400
	<b>SEQUOYAH FOREIGN LANGUAGE TRANSLATION SYSTEM</b>				
74	SEQUIOYAH FOREIGN LANGUAGE TRANSLATION SYSTEM	6,420	6,420	0	0
	Funding ahead of need			-6,420	-6,420
81	SENSE THROUGH THE WALL (STTW)	25,362	25,362	0	0
	Funding ahead of need			-25,352	-25,352
82	NIGHT VISION DEVICES	366,820	191,158	180,468	180,468
	Funding ahead of need		-175,662		0
	Funding in excess of need			-186,362	-186,362
98	MORTAR FIRE CONTROL SYSTEM	15,520	16,520	17,820	17,820
	Accelerated Precision Mortar Initiative			2,300	2,300
102	TACTICAL OPERATIONS CENTERS	29,934	32,234	29,934	31,774
	Tactical Operations Center for the Washington National Guard		2,300		1,840
103	FIRE SUPPORT C2 FAMILY	39,042	39,042	32,742	32,742
	Pricing adjustment			-6,300	-6,300
109	AUTOMATIC IDENTIFICATION TECHNOLOGY	31,542	31,542	33,542	33,142
	Red River Army Depot Modernization			2,000	1,600
118	GENERAL FUND ENTERPRISE BUSINESS SYSTEM	85,801	85,801	85,801	44,901
	Army requested transfer to RDT&E, Army line number 111				-17,900
	Army requested transfer to O&M, Army line number 432				-23,000
120	AUTOMATED DATA PROCESSING EQUIP	264,723	179,723	239,723	209,723
	Unjustified growth		-75,000	-15,000	-45,000
132	TACTICAL BRIDGING	58,509	58,509	53,909	53,909
	Pricing adjustment			-4,600	-4,600
136	GROUND STANDOFF MINE DETECTION SYSTEM	56,123	56,123	50,223	50,223
	Funding ahead of need			-8,900	-8,900
	FIDO Explosives Detector			3,000	3,000

P-1	Budget Request	House	Senate	Recommendation
<b>136 EXPLOSIVE ORDNANCE DISPOSAL EQUIPMENT</b>	<b>49,333</b>	<b>49,333</b>	<b>49,333</b>	<b>66,633</b>
Magneto Inductive Remote Activation Munitions System (MI-RAMS) M156/M39 Kits and M40 Receivers (Transferred from Procurement of Ammunition, Army line number 25)				7,200
<b>138 AERIAL DETECTION</b>	<b>11,200</b>	<b>200</b>	<b>200</b>	<b>200</b>
Funding ahead of need		-11,000	-11,000	-11,000
<b>142 LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,600</b>
Expandable Light Air Mobility Shelters (ELAMs) and Contingency Response Communications System (CRCS) for the Illinois National Guard (Transferred from O&M, Army National Guard line number 121)				1,600
<b>144 GROUND SOLDIER SYSTEM</b>	<b>1,809</b>	<b>1,809</b>	<b>0</b>	<b>1,809</b>
Funding ahead of need			-1,809	0
<b>145 MOUNTED SOLDIER SYSTEM</b>	<b>1,085</b>	<b>1,085</b>	<b>0</b>	<b>1,085</b>
Funding ahead of need			-1,085	0
<b>147 FIELD FEEDING EQUIPMENT</b>	<b>57,872</b>	<b>61,372</b>	<b>67,872</b>	<b>60,872</b>
Multi-Temperature Refrigerated Container System		3,500		2,800
<b>CARGO AERIAL DELIVERY AND PERSONNEL</b>				
<b>148 PARACHUTE SYSTEM</b>	<b>66,381</b>	<b>66,381</b>	<b>61,581</b>	<b>63,981</b>
Pricing adjustment			-4,800	-2,400
<b>154 COMBAT SUPPORT MEDICAL</b>	<b>33,694</b>	<b>34,694</b>	<b>36,694</b>	<b>36,894</b>
Life Support for Trauma and Transport		1,000		800
Combat Casualty Care Upgrade Program			3,000	2,400
<b>156 ITEMS LESS THAN \$5.0M (MAINTENANCE EQUIPMENT)</b>	<b>812</b>	<b>6,812</b>	<b>812</b>	<b>3,312</b>
Program Increase - Classified Waste Destruction		5,000		2,500
<b>157 GRADER, ROAD MTZD, HVY, 6X4 (CCE)</b>	<b>50,897</b>	<b>50,897</b>	<b>44,297</b>	<b>44,297</b>
Pricing adjustment			-6,600	-6,600
<b>173 GENERATORS AND ASSOCIATED EQUIPMENT</b>	<b>146,067</b>	<b>152,067</b>	<b>146,067</b>	<b>150,867</b>
Kentucky National Guard Emergency Response Generator Stockpile		6,000		4,800
<b>177 TRAINING DEVICES, NONSYSTEM</b>	<b>261,348</b>	<b>282,848</b>	<b>303,798</b>	<b>309,228</b>
Combat Skills Marksmanship Trainer		4,000	3,600	4,000
Combined Arms Virtual Trainers for the New Mexico National Guard		500		400
Combined Arms Virtual Trainers for the Tennessee National Guard		5,000	5,000	5,000
Program Increase - Training Simulators for the National Guard		9,000		4,000
Fort Bragg Range 74 Combined Arms Collective Training Facility		1,000		800
Individual Gunnery, Tank Gunnery, and Tabletop Full-Fidelity Trainers for the New Mexico National Guard		2,000		1,600
Laser Marksmanship Training System		2,000		2,000
Machine Gun Training System for the Pennsylvania National Guard		3,000		2,400
Mobile Firing Range for the Texas National Guard		1,500		1,500
Virtual Convoy Operations Trainer for the New Mexico National Guard		1,500		1,200

P-1	Budget Request	House	Senate	Recommendation
Virtual Interactive Combat Environment Training System for the Virginia National Guard		2,000	2,000	2,000
Call for Fire Trainer II/Joint Fires and Effects Trainer System			5,000	5,000
Immersive Group Simulation Virtual Training System for the Hawaii National Guard			2,500	2,300
Muscatatuck Urban Training Center Instrumentation for the National Guard			2,000	2,000
Training Range Enhancements			15,000	7,500
US Army Operator Driving Simulator for the Tennessee National Guard			350	280
Virtual Convoy Operations Trainers for the Illinois National Guard			3,000	2,400
Virtual Interactive Combat Environment for the New Jersey National Guard			4,000	3,500
<b>184 RAPID EQUIPPING SOLDIER SUPPORT EQUIPMENT</b>	<b>21,770</b>	<b>23,770</b>	<b>0</b>	<b>6,370</b>
Prior year funds are available			-21,770	-17,000
Mobile Defensive Fighting Position		2,000		1,600

## ARMY TRUCK PROGRAM

Concerns persist regarding the absence of an overall truck acquisition strategy to guide the Army's plans and programs. It is not clear that the Army has conducted the needed analyses for sound acquisition plans or to reap potential savings. Not later than 180 days after the enactment of this Act, the Secretary of the Army shall provide a report to the congressional defense committees detailing the Army's acquisition strategy for future truck procurement.

## NETWORKED COMMUNICATIONS CAPABILITIES

The recommendation continues to support the overall objectives of the Joint Tactical Radio System (JTRS) program, but concerns remain about the technical risk, cost and availability of the JTRS radios. While the JTRS family of radios and waveforms has successfully tested several variants and demonstrated key networking waveforms, full testing objectives have not been realized. The Secretary of Defense is encouraged to examine lower-risk approaches to bridge the networked communications gap while providing interoperability and moving toward a competitive radio business model. Competition is encouraged between legacy and commercially available radios and waveforms that meet the majority of JTRS approved standards until such time as the JTRS radios are fielded. Additionally, the Assistant Secretary of Defense for Networks and Information Integration is encouraged to examine the cost effectiveness of such an approach and to submit a report to the congressional defense committees not later than March 15, 2010, with recommendations for closing any networked communications capability gap with commercially available and legacy radios and waveforms.

## MODIFICATION OF IN-SERVICE EQUIPMENT

According to accounting reports, the Army has over \$1,284,000,000 in prior year funding available for Modification of In-Service Equipment, Budget Activity-1. Therefore, the recommendation provides \$2,314,000 for this program in fiscal year 2010, a reduction of \$8,000,000. Additionally, due to the large prior year funding balance, the recommendation includes a reduction of \$195,950,000 in the title IX portion of this program.

## RAPID EQUIPPING FORCE

For fiscal year 2010, the recommendation provides \$13,370,000 for Rapid Equipping Force funding, a reduction of \$35,400,000 from the budget request due to funding available in prior year accounts. There is concern with the Army's demand driven approach in providing Soldier Wearable Acoustic Targeting Systems (SWATS) to soldiers, and a strong belief that the equipment should be made available to all deploying units, not just those units submitting Urgent Needs Statements.

The Supplemental Appropriations Act, 2009 provided \$50,000,000 for SWATS. However, the slow pace of obligating available funding for the life-saving SWATS, and the lack of urgency in

establishing a basis of issue plan and making it a Program of Record causes concern. The Army is expected to correct the situation quickly.

The Secretary of the Army has yet to provide a report on the acquisition objective and basis of issue plan for both vehicular and soldier wearable sniper detection equipment as directed in the Joint Explanatory Statement accompanying the Supplemental Appropriations Act, 2009. The report shall be provided to the congressional defense committees not later than 60 days after enactment of this Act.

## AIRCRAFT PROCUREMENT, NAVY

For Aircraft Procurement, Navy, funds are to be available for fiscal  
year 2010, as follows:

(In thousands of dollars)				
	Budget	House	Senate	Recommendation
AIRCRAFT PROCUREMENT, NAVY				
COMBAT AIRCRAFT				
2 EA-18G.....	1,611,837	1,611,837	1,611,837	1,611,837
3 EA-18G (AP-CY).....	20,559	20,559	20,559	20,559
4 F/A-18E/F (FIGHTER) HORNET (MYP).....	1,009,537	1,504,537	1,009,537	1,504,537
5 F/A-18E/F (FIGHTER) HORNET (MYP) (AP-CY).....	51,431	159,431	51,431	51,431
6 JOINT STRIKE FIGHTER.....	3,997,048	3,576,448	3,997,048	3,997,048
7 JOINT STRIKE FIGHTER ADVANCE PROCUREMENT (CY).....	481,000	481,000	481,000	481,000
8 V-22 (MEDIUM LIFT).....	2,215,829	2,215,829	2,215,829	2,215,829
9 V-22 (MEDIUM LIFT) (AP-CY).....	84,342	84,342	84,342	84,342
10 UH-1Y/AH-1Z.....	709,801	609,801	544,801	584,801
11 UH-1Y/AH-1Z (AP-CY).....	70,550	35,550	70,550	50,550
12 MH-60S (MYP).....	414,145	414,145	374,145	394,145
13 MH-60S (MYP) (AP-CY).....	78,830	78,830	78,830	78,830
14 MH-60R.....	811,781	818,281	811,781	818,281
15 MH-60R (AP-CY).....	131,504	131,504	118,304	118,304
16 P-8A POSEIDON.....	1,664,525	1,664,525	1,664,525	1,664,525
17 P-8A POSEIDON (ADVANCED PROCUREMENT).....	160,526	138,445	149,626	138,425
18 E-2C (EARLY WARNING) HAWKEYE (MYP).....	511,245	649,445	511,245	649,445
19 E-2C (EARLY WARNING) HAWKEYE (MYP) (AP-CY).....	94,924	94,924	57,524	94,924
TOTAL, COMBAT AIRCRAFT.....	14,119,414	14,289,433	13,852,914	14,556,813
AIRLIFT AIRCRAFT				
20 C-40A.....	74,381	74,381	74,381	74,381
TOTAL, AIRLIFT AIRCRAFT.....	74,381	74,381	74,381	74,381

(In thousands of dollars)

	Budget	House	Senate	Recommendation
<b>TRAINER AIRCRAFT</b>				
22 JPATS.....	266,539	257,939	260,539	256,239
<b>TOTAL, TRAINER AIRCRAFT.....</b>	<b>266,539</b>	<b>257,939</b>	<b>260,539</b>	<b>256,239</b>
<b>OTHER AIRCRAFT</b>				
25 RQ-7 UAV.....	56,797	51,547	53,797	51,547
26 MQ-8 UAV.....	77,616	64,316	77,616	77,616
OTHER SUPPORT AIRCRAFT.....	---	---	6,200	1,960
<b>TOTAL, OTHER AIRCRAFT.....</b>	<b>134,413</b>	<b>115,863</b>	<b>137,613</b>	<b>131,123</b>
<b>MODIFICATION OF AIRCRAFT</b>				
28 EA-6 SERIES.....	39,977	39,977	39,977	39,977
29 AV-8 SERIES.....	35,668	31,668	35,668	31,668
30 F-16 SERIES.....	484,129	396,929	463,729	432,929
31 H-46 SERIES.....	35,325	35,325	35,325	35,325
32 AH-1W SERIES.....	66,461	66,461	33,061	33,061
33 H-53 SERIES.....	68,197	68,197	68,197	68,197
34 SH-60 SERIES.....	82,253	82,253	82,253	82,253
35 H-1 SERIES.....	20,040	20,040	20,040	20,040
36 EP-3 SERIES.....	92,530	92,530	92,530	92,530
37 P-3 SERIES.....	485,171	428,371	485,171	428,371
39 E-2 SERIES.....	22,853	22,853	42,853	32,853
40 TRAINER A/C SERIES.....	20,907	20,907	17,207	17,207
41 C-2A.....	21,343	21,343	21,343	21,343
42 C-130 SERIES.....	22,449	22,449	22,449	22,449

(In thousands of dollars)

	Budget	House	Senate	Recommendation
43 FEWSG.....	9,486	9,486	9,486	9,486
44 CARGO/TRANSPORT A/C SERIES.....	19,429	19,429	19,429	19,429
45 E-6 SERIES.....	102,646	102,646	102,646	102,646
46 EXECUTIVE HELICOPTERS SERIES.....	42,456	42,456	42,456	42,456
47 SPECIAL PROJECT AIRCRAFT.....	14,869	12,369	14,869	12,369
48 T-45 SERIES.....	51,484	49,184	51,484	48,984
49 POWER PLANT CHANGES.....	26,395	26,395	26,395	26,395
50 JPATS SERIES.....	4,922	4,922	4,922	4,922
51 AVIATION LIFE SUPPORT MODS.....	5,594	5,594	5,594	5,594
52 COMMON ECM EQUIPMENT.....	47,419	51,219	48,919	49,819
53 COMMON AVIONICS CHANGES.....	151,112	142,812	151,112	142,812
55 ID SYSTEMS.....	24,125	24,125	24,125	24,125
56 V-22 (TILT/ROTOR ACFT) OSPREY.....	24,502	24,502	24,502	24,502
TOTAL, MODIFICATION OF AIRCRAFT.....	2,021,742	1,864,642	1,985,742	1,871,942
AIRCRAFT SPARES AND REPAIR PARTS				
57 SPARES AND REPAIR PARTS.....	1,264,012	1,223,412	1,272,812	1,258,212
AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES				
58 COMMON GROUND EQUIPMENT.....	363,588	365,588	361,088	360,288
59 AIRCRAFT INDUSTRIAL FACILITIES.....	11,075	11,075	11,075	11,075
60 WAR CONSUMABLES.....	55,406	55,406	55,406	55,406
61 OTHER PRODUCTION CHARGES.....	23,881	23,881	23,881	23,881
62 SPECIAL SUPPORT EQUIPMENT.....	42,147	42,147	42,147	42,147
63 FIRST DESTINATION TRANSPORTATION.....	1,734	1,734	1,734	1,734
TOTAL, AIRCRAFT SUPPORT EQUIPMENT & FACILITIES.....	497,811	499,811	495,311	494,511
TOTAL, AIRCRAFT PROCUREMENT, NAVY.....	18,378,312	18,325,481	18,079,312	18,643,221

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

P-1	Budget Request	House	Senate	Recommendation
4 F/A-18E/F (FIGHTER) HORNET (MYP) Funding for nine additional aircraft	1,009,537	1,504,537 495,000	1,009,537	1,504,537 495,000
5 F/A-18E/F (FIGHTER) HORNET (MYP) (AP-CY) Economic Order Quantity and Cost Reduction Initiative funding for Multi-year Procurement	51,431	159,431 108,000	51,431	51,431
6 JOINT STRIKE FIGHTER Reduction of two aircraft - no fiscal year 2009 advance procurement Non-recurring equipment execution	3,997,048	3,576,448 -300,000 -120,600	3,997,048	3,997,048
10 UH-1Y/AH-1Z Reduction of four aircraft Reduction of six aircraft Reduction of five aircraft	709,801	609,801 -100,000	544,801 -165,000	584,801 -125,000
11 UH-1Y/AH-1Z (AP-CY) Excess advance procurement	70,550	35,550 -35,000	70,550	50,550 -20,000
12 MH-60S (MYP) Funding ahead of need	414,145	414,145	374,145 -40,000	394,145 -20,000
14 MH-60R Multi-Mission Helicopter Avionics System Test Bed Program Increase - Airborne Sonar	811,781	818,281 1,500 5,000	811,781	816,281 1,500 3,000
15 MH-60R (AP-CY) Excess to requirement	131,504	131,504	118,304 -13,200	118,304 -13,200
17 P-8A POSEIDON (ADVANCE PROCUREMENT) Excessive advance procurement growth Funding for production line slots	160,526	138,445 -7,680 -14,401	149,626 -7,700 -3,200	138,425 -7,700 -14,401
18 E-2C (EARLY WARNING) HAWKEYE (MYP) Engineering Change Orders growth Funding for one additional aircraft	511,245	649,445 -3,800 142,000	511,245	649,445 -3,800 142,000
19 E-2C (EARLY WARNING) HAWKEYE (MYP) (AP-CY) Unjustified growth	94,924	94,924	57,524 -37,400	94,924
22 JPATS Airframe unit cost growth Support funding carryover	266,539	257,939 -4,300 -4,300	260,539 -6,000	256,239 -6,000 -4,300
25 RQ-7 UAV Attrition vehicles	56,797	51,547 -5,250	53,797 -3,000	51,547 -5,250
26 MQ-8 UAV Maintain minimum sustaining rate due to Littoral Combat Ship delays	77,616	64,316 -13,300	77,616	77,616

P-1		Budget Request	House	Senate	Recommendation
27	<b>OTHER SUPPORT AIRCRAFT</b>	0	0	6,200	1,960
	EL/M-2032 Radar Upgrade to Navy Adversary Aircraft			2,000	
	UC-12 Replacement Aircraft			4,200	1,960
29	<b>AV-8 SERIES</b>	35,668	31,868	35,668	31,868
	Other support funding growth within obsolescence replacement Operational Safety Improvement Program		-1,800		-1,800
	Engine Management System contract delay		-2,000		-2,000
30	<b>F-18 SERIES</b>	484,129	396,929	463,729	432,929
	Excessive growth of IR Marker ECP		-3,400	-3,400	-3,400
	Radar upgrades ahead of need		-78,800		
	Engineering Change Orders excessive growth		-5,000		-5,000
	SLMP kits ahead of need			-4,700	-4,700
	Delay in MIDS/JTR development schedule			-12,300	-12,300
	Radome and Weapon Ready Assembly funding ahead of need				-25,800
32	<b>AH-1W SERIES</b>	66,461	66,461	33,061	33,061
	Delay in A/C and T700 engine modification			-33,400	-33,400
37	<b>P-3 SERIES</b>	485,171	428,371	485,171	428,371
	Outer wing replacement kits cost growth		-56,800		-56,800
39	<b>E-2 SERIES</b>	22,853	22,853	42,853	32,853
	Reliability enhancements for E-2C			20,000	10,000
40	<b>TRAINER A/C SERIES</b>	20,907	20,907	17,207	17,207
	Program delay			-3,700	-3,700
47	<b>SPECIAL PROJECT AIRCRAFT</b>	14,869	12,369	14,869	12,369
	Support funding growth within intelligence sensors Operational Safety Improvement Program		-2,500		-2,500
48	<b>T-45 SERIES</b>	51,484	49,184	51,484	48,984
	Avionics Modernization Program kits ahead of need		-3,300		-3,300
	Universal Avionics Recorder Wireless Flight Download Data		1,000		800
52	<b>COMMON ECM EQUIPMENT</b>	47,419	51,219	48,919	49,819
	ALE-47 retrofit kits ahead of need		-3,200		-3,200
	AN/AAR-47D(V)X Missile Warning System		5,000		4,000
	Crane Integrated Defensive Electronic Countermeasures Depot Capability		2,000	1,500	1,600
53	<b>COMMON AVIONICS CHANGES</b>	151,112	142,812	151,112	142,812
	Other support funding growth within Global Positioning System Operational Safety Improvement Program		-3,400		-3,400
	CNS/ATM installation kits cost growth		-2,500		-2,500
	Advanced Mission Computer and Display Kits ahead of need		-2,400		-2,400
57	<b>SPARES AND REPAIR PARTS</b>	1,264,012	1,223,412	1,272,812	1,258,212
	UH-1Y/AH-1Z reduction		-1,600	-2,400	-2,000
	E-2D spares growth		-15,000		-15,000
	Joint Strike Fighter reduction		-24,000		
	Additional F-18 Aircraft			11,200	11,200

<b>P-1</b>		<b>Budget Request</b>	<b>House</b>	<b>Senate</b>	<b>Recommendation</b>
<b>58</b>	<b>COMMON GROUND EQUIPMENT</b>	<b>363,588</b>	<b>365,588</b>	<b>361,088</b>	<b>360,288</b>
	Advanced Skills Management Command Portal - Fleet Readiness Centers		2,000	2,000	2,000
	Excessive growth in production engineering support			-8,500	-8,500
	Direct Squadron Support Readiness Training Program			4,000	3,200

## F-18 AIRCRAFT

The variants of the F-18 aircraft have been the workhorses of the Navy's aviation fleet for a generation. Consistent with the National Defense Authorization Act for Fiscal Year 2010, a multi-year procurement strategy has been approved to complete the procurement of the F-18E/F/G aircraft as the Navy transitions to the Joint Strike Fighter aircraft.

## WEAPONS PROCUREMENT, NAVY

For Weapons Procurement, Navy, funds are to be available for fiscal  
year 2010, as follows:

(In thousands of dollars)

	Budget	House	Senate	Recommendation
WEAPONS PROCUREMENT, NAVY				
BALLISTIC MISSILES				
MODIFICATION OF MISSILES				
1 TRIDENT II MODS.....	1,060,504	1,055,504	1,060,504	1,055,504
SUPPORT EQUIPMENT AND FACILITIES				
2 MISSILE INDUSTRIAL FACILITIES.....	3,447	3,447	3,447	3,447
TOTAL, BALLISTIC MISSILES.....	1,063,951	1,058,951	1,063,951	1,058,951
OTHER MISSILES				
STRATEGIC MISSILES				
3 TOMAHAWK.....	283,055	273,655	283,055	277,355
TACTICAL MISSILES				
4 AHRAAM.....	145,506	134,506	140,506	138,506
5 SIDEWINDER.....	56,845	53,845	56,845	53,845
6 JSOW.....	145,338	123,538	145,338	142,438
8 STANDARD MISSILE.....	249,233	131,604	249,233	169,233
9 RAM.....	74,784	69,044	74,784	69,044
10 HELLFIRE.....	59,411	56,911	59,411	59,411
11 AERIAL TARGETS.....	47,003	43,483	47,003	43,483
12 OTHER MISSILE SUPPORT.....	3,928	3,928	3,928	3,928
MODIFICATION OF MISSILES				
13 ESSM.....	51,388	51,388	51,388	51,388
14 HARM MODS.....	47,973	44,973	47,973	47,973
15 STANDARD MISSILES MODS.....	61,451	61,451	61,451	61,451
SUPPORT EQUIPMENT AND FACILITIES				
16 WEAPONS INDUSTRIAL FACILITIES.....	3,211	3,211	13,211	12,711
17 FLEET SATELLITE COMM FOLLOW-ON.....	487,280	482,593	487,280	482,593
18 FLEET SATELLITE COMM FOLLOW-ON (AP-CY).....	28,847	28,847	28,847	28,847
ORDNANCE SUPPORT EQUIPMENT				
19 ORDNANCE SUPPORT EQUIPMENT.....	48,883	48,883	48,883	48,883
TOTAL, OTHER MISSILES.....	1,814,134	1,632,758	1,819,134	1,731,987

(In thousands of dollars)

	Budget	House	Senate	Recommendation
TORPEDOES AND RELATED EQUIPMENT				
TORPEDOES AND RELATED EQUIP				
21 ASW TARGETS.....	9,288	9,288	9,288	9,288
MOD OF TORPEDOES AND RELATED EQUIP				
22 MK-48 TORPEDO MODS.....	94,159	96,823	82,423	90,263
23 MK-48 TORPEDO ADCAP MODS.....	61,608	56,308	56,308	56,308
24 QUICKSTRIKE MINE.....	4,680	4,680	4,680	4,680
SUPPORT EQUIPMENT				
25 TORPEDO SUPPORT EQUIPMENT.....	39,869	35,329	39,869	35,329
26 ASW RANGE SUPPORT.....	10,044	10,044	10,044	10,044
DESTINATION TRANSPORTATION				
27 FIRST DESTINATION TRANSPORTATION.....	3,434	3,434	3,434	3,434
TOTAL, TORPEDOES AND RELATED EQUIPMENT.....	223,082	215,906	206,046	209,346
OTHER WEAPONS				
GUNS AND GUN MOUNTS				
28 SMALL ARMS AND WEAPONS.....	12,742	12,742	12,742	12,742
MODIFICATION OF GUNS AND GUN MOUNTS				
29 CIWS MODS.....	158,896	125,396	158,896	158,896
30 COAST GUARD WEAPONS.....	21,157	21,157	21,157	21,157
31 GUN MOUNT MODS.....	30,761	30,761	35,761	35,761
33 CRUISER MODERNIZATION WEAPONS.....	51,227	51,227	51,227	51,227
34 AIRBORNE MINE NEUTRALIZATION SYSTEMS.....	12,309	12,309	12,309	12,309
OTHER				
TOTAL, OTHER WEAPONS.....	287,092	253,592	292,092	292,092
37 SPARES AND REPAIR PARTS.....	65,196	65,196	65,196	65,196
TOTAL, WEAPONS PROCUREMENT, NAVY.....	3,453,455	3,226,403	3,446,419	3,357,572

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

P-1	Budget Request	House	Senate	Recommendation
<b>1 TRIDENT II MODS</b>	1,060,504	1,055,504	1,060,504	1,055,504
Support funding growth		-5,000		-5,000
<b>3 TOMAHAWK</b>	283,055	273,655	283,055	277,355
Missile hardware and capsule cost growth		-5,400		-2,700
Product improvement		-4,000		-3,000
<b>4 AMRAAM</b>	145,506	134,506	140,506	136,506
Diminished manufacturing sources funding ahead of need		-11,000	-5,000	-7,000
<b>5 SIDEWINDER</b>	56,845	53,845	56,845	53,845
Support funding carryover		-3,000		-3,000
<b>6 JSOW</b>	145,336	123,536	145,336	142,436
Air up round missile cost growth		-18,900		
Support funding carryover		-2,900		-2,900
<b>8 STANDARD MISSILE</b>	249,233	131,604	249,233	189,233
SM-6 missile contract delay		-117,629		-60,000
<b>9 RAM</b>	74,784	69,944	74,784	69,944
Missile component cost growth		-1,740		-1,740
Support funding carryover		-3,100		-3,100
<b>10 HELLFIRE</b>	59,411	56,911	59,411	59,411
Support funding carryover		-2,500		
<b>11 AERIAL TARGETS</b>	47,003	43,483	47,003	43,483
Excess sub-sonic target support funding		-2,020		-2,020
Support funding carryover		-1,500		-1,500
<b>14 HARM MODS</b>	47,973	44,973	47,973	47,973
Production engineering carryover		-3,000		
<b>16 WEAPONS INDUSTRIAL FACILITIES</b>	3,211	3,211	13,211	12,711
Allegany Ballistics Laboratory Facility Restoration Plan			10,000	9,500
<b>17 FLEET SATELLITE COMM FOLLOW-ON</b>	487,280	482,593	487,280	482,593
Support funding carryover		-4,687		-4,687
<b>22 MK-46 TORPEDO MODS</b>	94,159	96,823	82,423	90,263
Support funding carryover		-7,136	-7,136	-7,136
Intelligent Graphics Torpedo Test Set Troubleshooting				
Maintainers Aid		5,000		4,000
Lightweight Torpedo P5U Test Equipment Modernization		4,800		3,840
Excess Test and Evaluation funding			-4,600	-4,600
<b>23 MK-48 TORPEDO ADCAP MODS</b>	61,608	56,308	56,308	56,308
Support funding carryover		-5,300	-5,300	-5,300
<b>25 TORPEDO SUPPORT EQUIPMENT</b>	39,869	35,329	39,869	35,329
Otto fuel cost growth		-2,740		-2,740
Support funding carryover		-1,800		-1,800

<b>P-1</b>	<b>Budget Request</b>	<b>House</b>	<b>Senate</b>	<b>Recommendation</b>
<b>29 CIWS MODS</b>	<b>158,896</b>	<b>125,396</b>	<b>158,896</b>	<b>158,896</b>
Block 1B modification kits ahead of need		-19,000		
Engineering Change Orders growth		-14,500		
<b>31 GUN MOUNT MODS</b>	<b>30,761</b>	<b>30,761</b>	<b>35,761</b>	<b>35,761</b>
MK-110 57mm Naval Gun			2,000	2,000
MK-38 Minor Caliber Gun System			3,000	3,000



(In thousands of dollars)

	Budget	House	Senate	Recommendation
PROC AMMO, MARINE CORPS				
MARINE CORPS AMMUNITION				
15 SMALL ARMS AMMUNITION.....	87,781	87,781	87,781	87,781
16 LINEAR CHARGES, ALL TYPES.....	23,582	23,582	23,582	23,582
17 40 MM, ALL TYPES.....	57,291	57,291	57,291	57,291
18 60MM, ALL TYPES.....	22,037	22,037	22,037	22,037
19 81MM, ALL TYPES.....	54,869	54,869	54,869	54,869
20 120MM, ALL TYPES.....	29,579	29,579	29,579	29,579
21 CTG 25MM, ALL TYPES.....	2,259	2,259	2,259	2,259
22 GRENADES, ALL TYPES.....	10,694	10,694	10,694	10,694
23 ROCKETS, ALL TYPES.....	13,948	13,948	13,948	13,948
24 ARTILLERY, ALL TYPES.....	57,948	57,948	57,948	57,948
26 DEMOLITION MUNITIONS, ALL TYPES.....	14,886	14,886	14,886	14,886
27 FUZE, ALL TYPES.....	575	575	575	575
28 NON LETHALS.....	3,034	3,034	3,034	3,034
29 AMMO MODERNIZATION.....	8,886	8,886	8,886	8,886
30 ITEMS LESS THAN \$5 MILLION.....	4,393	4,393	4,393	4,393
TOTAL, PROC AMMO, MARINE CORPS.....	391,762	391,762	391,762	391,762
TOTAL, PROCUREMENT OF AMMO, NAVY & MARINE CORPS.....	840,675	794,886	814,015	800,651

**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
 [In thousands of dollars]

<b>P-1</b>	<b>Budget Request</b>	<b>House</b>	<b>Senate</b>	<b>Recommendation</b>
<b>1 GENERAL PURPOSE BOMBS</b>	<b>75,227</b>	<b>73,227</b>	<b>75,227</b>	<b>73,227</b>
Direct attack cost growth		-2,000		-2,000
<b>4 MACHINE GUN AMMUNITION</b>	<b>19,622</b>	<b>12,062</b>	<b>12,062</b>	<b>12,062</b>
20MM linkless TP cost growth		-2,900	-2,900	-2,900
20MM linked TP cost growth		-1,990	-1,990	-1,990
20MM linked HEI cost growth		-2,670	-2,670	-2,670
<b>5 PRACTICE BOMBS</b>	<b>33,803</b>	<b>29,003</b>	<b>24,503</b>	<b>28,103</b>
Enhanced Laser Guided Training Round cost growth		-9,300	-9,300	-9,300
Enhanced Laser Guided Training Round		4,500		3,600
<b>6 CARTRIDGES &amp; CART ACTUATED DEVICES</b>	<b>50,600</b>	<b>48,000</b>	<b>50,600</b>	<b>48,000</b>
Support funding carryover		-2,600		-2,600
<b>7 AIR EXPENDABLE COUNTERMEASURES</b>	<b>79,102</b>	<b>64,302</b>	<b>69,302</b>	<b>64,302</b>
MJU55 contract delay		-9,800		-9,800
Support funding carryover		-5,000		-5,000
MJU-55 production termination			-9,800	-9,800
<b>9 5 INCH/54 GUN AMMUNITION</b>	<b>27,483</b>	<b>23,083</b>	<b>27,483</b>	<b>23,083</b>
Multi-option fuze cost growth		-4,400		-4,400
<b>12 SMALL ARMS &amp; LANDING PARTY AMMO</b>	<b>43,490</b>	<b>33,861</b>	<b>43,490</b>	<b>40,526</b>
Tracer cartridge cost growth		-1,300		-1,300
APIT cartridge contract delay		-8,329		-8,329
APIT cartridge cost growth				-1,664

## SHIPBUILDING AND CONVERSION, NAVY

For Shipbuilding and Conversion, Navy, funds are to be available for  
fiscal year 2010, as follows:

(In thousands of dollars)

	Budget	House	Senate	Recommendation
SHIPBUILDING & CONVERSION, NAVY				
OTHER WARSHIPS				
1 CARRIER REPLACEMENT PROGRAM.....	739,269	739,269	739,269	739,269
2 CARRIER REPLACEMENT PROGRAM (AP-CY).....	484,432	484,432	484,432	484,432
3 VIRGINIA CLASS SUBMARINE.....	1,964,317	1,964,317	1,964,317	1,964,317
4 VIRGINIA CLASS SUBMARINE (AP-CY).....	1,959,725	1,959,725	1,959,725	1,959,725
5 CVN REFUELING OVERHAUL.....	1,563,602	1,563,602	1,563,602	1,563,602
6 CVN REFUELING OVERHAULS (AP-CY).....	211,820	211,820	211,820	211,820
9 DDG 1000.....	1,084,161	1,073,161	1,393,797	1,382,797
11 DDG-51.....	1,912,267	1,912,267	3,650,000	1,912,267
12 DDG-51 (AP-CY).....	328,996	328,996	328,996	578,996
13 LITTORAL COMBAT SHIP.....	1,380,000	2,160,000	1,080,000	1,080,000
TOTAL, OTHER WARSHIPS.....	11,628,589	12,397,589	13,375,958	11,877,225
AMPHIBIOUS SHIPS				
14 LPD-17.....	872,392	872,392	872,392	872,392
15 LPD-17(AP-CY).....	184,555	184,555	184,555	184,555
16 LHA REPLACEMENT (AP-CY).....	---	---	170,000	170,000
18 INTRATHEATER CONNECTOR.....	177,956	357,956	177,956	177,956
TOTAL, AMPHIBIOUS SHIPS.....	1,234,903	1,414,903	1,404,903	1,404,903
AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRAM COSTS				
19 OUTFITTING.....	391,238	386,903	391,238	386,903
20 SERVICE CRAFT.....	3,694	3,694	3,694	3,694
21 LCAC SLEP.....	63,857	63,857	63,857	63,857
22 COMPLETION OF PY SHIPBUILDING PROGRAMS.....	454,586	454,586	144,950	144,950
TOTAL, AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRAM...	913,375	909,040	603,739	599,404
TOTAL, SHIPBUILDING & CONVERSION, NAVY.....	13,776,867	14,721,532	15,384,600	13,881,532

**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
 [In thousands of dollars]

P-1		Budget Request	House	Senate	Recommendation
9	DDG 1000	1,084,161	1,073,161	1,393,797	1,382,797
	Excess change order funding		-11,000		-11,000
	Transfer from Line number 22			309,636	309,636
11	DDG-51	1,912,267	1,912,267	3,650,000	1,912,267
	Add second ship			1,737,733	
12	DDG-51 (AP-CY)	328,996	328,996	328,996	578,996
	Additional advance procurement				250,000
13	LITTORAL COMBAT SHIP	1,380,000	2,160,000	1,080,000	1,080,000
	Properly price fiscal year 2010 ships		240,000		
	Funding for one additional vessel		540,000		
	Reprice request; fund two ships			-300,000	-300,000
17	LHA REPLACEMENT (AP)	0	0	170,000	170,000
	Additional advance procurement			170,000	170,000
18	INTRATHEATER CONNECTOR	177,956	357,956	177,956	177,956
	Funding for one additional Joint High Speed Vessel		180,000		
19	OUTFITTING	391,238	386,903	391,238	386,903
	DDG -1000 outfitting ahead of need		-4,335		-4,335
22	COMPLETION OF PY SHIPBUILDING PROGRAMS	454,586	454,586	144,950	144,950
	Transfer to line number 9			-309,636	-309,636

## SHIPBUILDING

The fiscal year 2010 shipbuilding budget request from the Department once again falls short of the quantity of ten ships nominally required to reach and maintain the required fleet size of 313 ships. Further, the Department's revised acquisition strategy for the Littoral Combat Ship, solidified after the submission of the budget, has reduced the requested number of ships from a quantity of eight to a quantity of seven. In an effort to position the Department to request additional ship quantities in fiscal year 2011, the recommendation includes an additional \$170,000,000 of advance procurement funding for the LHA (Replacement) helicopter assault ship and \$250,000,000 of additional advance procurement funding for the DDG-51 Guided Missile Destroyer program.

## COMMON HULL FORMS

The Navy has discussed in testimony the use of existing hull forms for the design of future ships in an effort to reduce the cost of these ships. Candidate ships include, but are not limited to the replacement command ship, future dock landing ships, future surface combatant, and hospital ships. Candidate hull forms include, but are not limited to, the LPD-17, T-AKE, National Security Cutter, Patrol Coastal and DDG-51 hull forms all currently in use. This initiative continues to have strong support and the Secretary of the Navy is directed to submit a report that outlines the benefits of using an existing hull form for future ship construction. The report should include candidate hull forms, candidate ship classes (including survivability requirements), potential cost savings (including under multi-year procurement authority), and the timeframe of when the decision would be made to use an existing hull form for future designs. This report should be submitted to the congressional defense committees not later than March 15th, 2010.

## LITTORAL COMBAT SHIP (LCS)

The recommendation includes \$1,080,000,000 for the construction of two Littoral Combat Ships (LCS), a reduction of \$300,000,000 and one ship from the budget request. This adjustment properly prices the program and is consistent with the Navy's revised acquisition strategy for the LCS program which calls for down selecting to a single ship design in fiscal year 2010, versus the two designs that the program has been carrying. The recommendation supports this strategy which should result in reduced program costs as a result of reducing the overhead within the program. Further, the recommendation provides an additional \$60,000,000 to the LCS research and development program for the development of a technical data package that will allow a future second source of the winning LCS design.

Additionally, in compliance with previous congressional direction, the Assistant Secretary of the Navy for Research, Development, and Acquisition (ASN (RDA)) provides the congressional defense committees a monthly progress report on LCS construction costs. Presently, these reports provide cost information only for the first two LCS platforms (LCS-1 and LCS-2). The ASN (RDA) is directed

to provide the same monthly cost reports for LCS-3 and LCS-4 upon enactment of this Act.

#### LEASING OF FOREIGN BUILT SHIPS

There exists strong interest in the impact that the review of future requirements in the Quadrennial Defense Review will have on the Navy's practice of leasing foreign built ships. Therefore, the Secretary of the Navy is directed to update its March 2008 report on the use of such leases and address impacts on American seafarers, sealift capabilities, and naval shipbuilding.

#### DDG-51 GUIDED MISSILE DESTROYER

The recommendation includes \$578,996,000, an increase of \$250,000,000 above the budget request, for advance procurement of components for the two DDG-51 destroyers planned in fiscal year 2011. The recommendation fully supports re-start of the DDG-51 program and provides additional funding in an effort to re-start the program in a more efficient and cost effective manner.

## OTHER PROCUREMENT, NAVY

For Other Procurement, Navy, funds are to be available for fiscal year

2010, as follows:

(In thousands of dollars)

	Budget	House	Senate	Recommendation	
-----					
OTHER PROCUREMENT, NAVY					
SHIPS SUPPORT EQUIPMENT					
SHIP PROPULSION EQUIPMENT					
1	LN-2500 GAS TURBINE.....	8,014	8,014	8,014	8,014
2	ALLISON 501K GAS TURBINE.....	9,162	9,162	9,162	9,162
3	OTHER PROPULSION EQUIPMENT.....	---	2,000	4,000	4,800
NAVIGATION EQUIPMENT					
4	OTHER NAVIGATION EQUIPMENT.....	34,743	32,249	34,743	32,249
PERISCOPES					
5	SUB PERISCOPES & IMAGING EQUIP.....	75,127	70,027	70,127	70,027
OTHER SHIPBOARD EQUIPMENT					
6	DDG MOD.....	142,262	111,366	145,362	144,742
7	FIREFIGHTING EQUIPMENT.....	11,423	11,423	11,423	11,423
8	COMMAND AND CONTROL SWITCHBOARD.....	4,383	4,383	4,383	4,383
9	POLLUTION CONTROL EQUIPMENT.....	24,992	23,832	24,992	23,832
10	SUBMARINE SUPPORT EQUIPMENT.....	16,867	16,867	16,867	16,867
11	VIRGINIA CLASS SUPPORT EQUIPMENT.....	103,153	103,153	93,673	93,673
12	SUBMARINE BATTERIES.....	51,482	41,582	51,482	45,082
13	STRATEGIC PLATFORM SUPPORT EQUIP.....	15,672	12,372	15,672	12,372
14	DSSP EQUIPMENT.....	10,641	10,641	10,641	10,641
15	CG-MODERNIZATION.....	315,323	314,123	315,323	314,123
16	LCAC.....	6,642	6,642	6,642	6,642
18	UNDERWATER EOD PROGRAMS.....	19,232	16,182	19,232	19,232
19	ITEMS LESS THAN \$5 MILLION.....	127,554	123,388	121,030	118,808
20	CHEMICAL WARFARE DETECTORS.....	8,899	8,899	8,899	8,899
21	SUBMARINE LIFE SUPPORT SYSTEM.....	14,721	14,721	14,721	14,721

(In thousands of dollars)

	Budget	House	Senate	Recommendation
-----				
REACTOR PLANT EQUIPMENT				
23 REACTOR COMPONENTS.....	262,354	262,354	262,354	262,354
OCEAN ENGINEERING				
24 DIVING AND SALVAGE EQUIPMENT.....	5,304	5,304	5,304	5,304
SMALL BOATS				
25 STANDARD BOATS.....	35,318	37,318	68,518	52,018
TRAINING EQUIPMENT				
26 OTHER SHIPS TRAINING EQUIPMENT.....	15,113	13,507	15,113	13,507
PRODUCTION FACILITIES EQUIPMENT				
27 OPERATING FORCES IPE.....	47,172	47,172	51,372	51,372
OTHER SHIP SUPPORT				
28 NUCLEAR ALTERATIONS.....	136,683	136,683	136,683	136,683
29 LCS MODULES.....	137,259	92,204	52,026	117,259
30 LSD MIDLIFE.....	117,856	116,786	117,856	116,786
29 TOTAL, SHIPS SUPPORT EQUIPMENT.....	1,757,351	1,652,354	1,696,514	1,724,975
-----				
COMMUNICATIONS AND ELECTRONICS EQUIPMENT				
SHIP RADARS				
31 RADAR SUPPORT.....	9,968	13,968	9,968	13,168
SHIP SONARS				
32 SPQ-9B RADAR.....	13,476	13,476	13,476	13,476
33 AN/SQQ-89 SURF ASW COMBAT SYSTEM.....	111,093	77,362	95,593	77,362
34 SSM ACOUSTICS.....	299,962	291,832	303,962	297,682
35 UNDERSEA WARFARE SUPPORT EQUIPMENT.....	38,705	30,548	38,705	30,548
36 SONAR SWITCHES AND TRANSDUCERS.....	13,537	11,894	13,537	11,894
ASW ELECTRONIC EQUIPMENT				
37 SUBMARINE ACOUSTIC WARFARE SYSTEM.....	20,681	22,681	12,881	13,481
38 SSTD.....	2,184	17,184	2,184	10,184
39 FIXED SURVEILLANCE SYSTEM.....	63,017	63,017	63,017	63,017
40 SURTASS.....	24,108	24,108	24,108	24,108
41 TACTICAL SUPPORT CENTER.....	22,464	22,464	22,464	22,464
ELECTRONIC WARFARE EQUIPMENT				
42 AN/SLO-32.....	34,264	31,267	34,264	31,267
RECONNAISSANCE EQUIPMENT				
43 SHIPBOARD IW EXPLOIT.....	105,883	106,883	88,883	89,883
SUBMARINE SURVEILLANCE EQUIPMENT				
44 SUBMARINE SUPPORT EQUIPMENT PROG.....	98,645	83,495	86,495	86,495
OTHER SHIP ELECTRONIC EQUIPMENT				
46 COOPERATIVE ENGAGEMENT CAPABILITY.....	30,522	28,922	30,522	28,922
47 GCCS-N EQUIPMENT.....	13,594	13,594	13,594	13,594

(In thousands of dollars)

	Budget	House	Senate	Recommendation
48 NAVAL TACTICAL COMMAND SUPPORT SYSTEM (NTCSS).....	35,933	35,933	35,933	35,933
49 ATDLS.....	7,314	7,314	4,314	4,314
50 MINESWEEPING SYSTEM REPLACEMENT.....	79,091	69,285	74,291	72,285
51 SHALLOW WATER MCM.....	7,835	7,835	7,835	7,835
52 NAVSTAR GPS RECEIVERS (SPACE).....	10,845	7,965	10,845	7,965
53 ARMED FORCES RADIO AND TV.....	3,333	3,333	3,333	3,333
54 STRATEGIC PLATFORM SUPPORT EQUIP.....	4,149	4,149	4,149	4,149
TRAINING EQUIPMENT				
55 OTHER TRAINING EQUIPMENT.....	36,784	35,654	36,784	35,654
AVIATION ELECTRONIC EQUIPMENT				
56 NATCALS.....	17,468	12,168	17,468	14,768
57 SHIPBOARD AIR TRAFFIC CONTROL.....	7,970	7,970	7,970	7,970
58 AUTOMATIC CARRIER LANDING SYSTEM.....	18,878	17,878	18,878	17,878
59 NATIONAL AIR SPACE SYSTEM.....	28,988	28,988	28,988	28,988
60 AIR STATION SUPPORT EQUIPMENT.....	8,203	8,203	8,203	8,203
61 MICROWAVE LANDING SYSTEM.....	10,526	10,526	10,526	10,526
62 ID SYSTEMS.....	38,682	38,682	38,682	38,682
63 TAC A/C MISSION PLANNING SYS(TAMPS).....	9,102	9,102	9,102	9,102
OTHER SHORE ELECTRONIC EQUIPMENT				
64 DEPLOYABLE JOINT COMMAND AND CONT.....	8,719	11,719	8,719	11,119
65 TADIX-B.....	793	793	793	793
66 GCCS-M EQUIPMENT TACTICAL/MOBILE.....	11,820	11,820	11,820	11,820
67 COMMON IMAGERY GROUND SURFACE SYSTEMS.....	27,632	27,632	27,632	27,632
68 CANES.....	1,181	1,181	1,181	1,181
69 RADIAC.....	5,990	5,990	5,990	5,990
70 GPETE.....	3,737	3,737	3,737	3,737
71 INTEG COMBAT SYSTEM TEST FACILITY.....	4,423	4,423	4,423	4,423
72 EMI CONTROL INSTRUMENTATION.....	4,778	4,778	4,778	4,778
73 ITEMS LESS THAN \$5 MILLION.....	65,760	57,706	68,760	60,106
SHIPBOARD COMMUNICATIONS				
75 SHIP COMMUNICATIONS AUTOMATION.....	310,605	263,625	290,305	282,105
77 AN/URC-82 RADIO.....	4,913	4,913	4,913	4,913
78 COMMUNICATIONS ITEMS UNDER \$5M.....	25,314	25,314	26,554	26,054

(In thousands of dollars)

	Budget	House	Senate	Recommendation
SUBMARINE COMMUNICATIONS				
79 SUBMARINE BROADCAST SUPPORT.....	105	105	105	105
80 SUBMARINE COMMUNICATION EQUIPMENT.....	48,729	48,729	48,729	48,729
SATELLITE COMMUNICATIONS				
81 SATELLITE COMMUNICATIONS SYSTEMS.....	50,172	43,747	48,572	48,572
82 NAVY MULTIBAND TERMINAL (NMT).....	72,496	72,496	63,196	63,196
SHORE COMMUNICATIONS				
83 JCS COMMUNICATIONS EQUIPMENT.....	2,322	2,322	2,322	2,322
84 ELECTRICAL POWER SYSTEMS.....	1,293	1,293	1,293	1,293
85 NAVAL SHORE COMMUNICATIONS.....	2,542	2,542	2,542	2,542
CRYPTOGRAPHIC EQUIPMENT				
86 INFO SYSTEMS SECURITY PROGRAM (ISSP).....	119,054	116,754	110,554	110,554
CRYPTOLOGIC EQUIPMENT				
87 CRYPTOLOGIC COMMUNICATIONS EQUIP.....	16,839	16,839	16,839	16,839
OTHER ELECTRONIC SUPPORT				
88 COAST GUARD EQUIPMENT.....	18,892	18,892	18,892	18,892
TOTAL, COMMUNICATIONS AND ELECTRONICS EQUIPMENT.....	2,035,313	1,905,030	1,943,603	1,892,825
AVIATION SUPPORT EQUIPMENT				
SONOBUOYS				
90 SONOBUOYS - ALL TYPES.....	91,976	89,976	91,976	89,976
AIRCRAFT SUPPORT EQUIPMENT				
91 WEAPONS RANGE SUPPORT EQUIPMENT.....	75,329	72,829	92,329	88,929
92 EXPEDITIONARY AIRFIELDS.....	8,343	8,343	8,343	8,343
93 AIRCRAFT REARMING EQUIPMENT.....	12,850	12,850	12,850	12,850
94 AIRCRAFT LAUNCH & RECOVERY EQUIPMENT.....	48,670	44,849	46,849	39,806
95 METEOROLOGICAL EQUIPMENT.....	21,458	21,458	14,558	14,558
96 OTHER PHOTOGRAPHIC EQUIPMENT.....	1,582	1,582	1,582	1,582
97 AVIATION LIFE SUPPORT.....	27,367	29,867	32,367	30,367
98 AIRBORNE MINE COUNTERMEASURES.....	55,408	55,408	51,408	51,408
99 LAMPS MK III SHIPBOARD EQUIPMENT.....	23,694	23,694	23,694	23,694
100 PORTABLE ELECTRONIC MAINTENANCE AIDS.....	9,710	9,710	4,910	4,910
101 OTHER AVIATION SUPPORT EQUIPMENT.....	16,541	13,541	16,541	13,541
TOTAL, AVIATION SUPPORT EQUIPMENT.....	392,928	384,107	397,407	379,964

(In thousands of dollars)

	Budget	House	Senate	Recommendation
ORDNANCE SUPPORT EQUIPMENT				
SHIP GUN SYSTEM EQUIPMENT				
102 NAVAL FIRES CONTROL SYSTEM.....	1,391	1,391	1,391	1,391
103 GUN FIRE CONTROL EQUIPMENT.....	7,891	7,891	7,891	7,891
SHIP MISSILE SYSTEMS EQUIPMENT				
104 NATO SEASPARROW.....	13,556	13,556	13,556	13,556
105 RAM GNLS.....	7,762	7,762	8,762	8,762
106 SHIP SELF DEFENSE SYSTEM.....	34,079	34,079	34,079	34,079
107 AEGIS SUPPORT EQUIPMENT.....	108,886	101,733	108,886	101,733
108 TOMAHAWK SUPPORT EQUIPMENT.....	88,475	88,475	88,475	88,475
109 VERTICAL LAUNCH SYSTEMS.....	5,513	5,513	5,513	5,513
FBM SUPPORT EQUIPMENT				
110 STRATEGIC MISSILE SYSTEMS EQUIP.....	155,579	155,579	155,579	155,579
ASW SUPPORT EQUIPMENT				
111 SSN COMBAT CONTROL SYSTEMS.....	118,528	113,563	118,528	113,563
112 SUBMARINE ASW SUPPORT EQUIPMENT.....	5,200	5,200	5,200	5,200
113 SURFACE ASW SUPPORT EQUIPMENT.....	13,646	13,646	13,646	13,646
114 ASW RANGE SUPPORT EQUIPMENT.....	7,256	7,256	7,256	7,256
OTHER ORDNANCE SUPPORT EQUIPMENT				
115 EXPLOSIVE ORDNANCE DISPOSAL EQUIP.....	54,069	54,069	54,069	54,069
116 ITEMS LESS THAN \$5 MILLION.....	3,478	3,478	3,478	3,478
OTHER EXPENDABLE ORDNANCE				
117 ANTI-SHIP MISSILE DECOY SYSTEM.....	37,128	29,978	37,128	33,628
118 SURFACE TRAINING DEVICE MODS.....	7,430	7,430	7,430	7,430
119 SUBMARINE TRAINING DEVICE MODS.....	25,271	25,271	25,271	25,271
TOTAL, ORDNANCE SUPPORT EQUIPMENT.....	695,138	675,870	696,138	680,520
CIVIL ENGINEERING SUPPORT EQUIPMENT				
120 PASSENGER CARRYING VEHICLES.....	4,139	4,139	4,139	4,139
121 GENERAL PURPOSE TRUCKS.....	1,731	1,731	1,731	1,731
122 CONSTRUCTION & MAINTENANCE EQUIP.....	12,931	12,931	12,931	12,931
123 FIRE FIGHTING EQUIPMENT.....	12,976	12,976	12,976	12,976
124 TACTICAL VEHICLES.....	25,352	25,352	25,352	25,352
125 AMPHIBIOUS EQUIPMENT.....	2,950	2,950	2,950	2,950

(In thousands of dollars)

	Budget	House	Senate	Recommendation
126 POLLUTION CONTROL EQUIPMENT.....	5,097	5,097	5,097	5,097
127 ITEMS UNDER \$5 MILLION.....	23,787	23,787	23,787	23,787
128 PHYSICAL SECURITY VEHICLES.....	1,115	1,115	1,115	1,115
TOTAL, CIVIL ENGINEERING SUPPORT EQUIPMENT.....	90,078	90,078	90,078	90,078
SUPPLY SUPPORT EQUIPMENT				
SUPPLY SUPPORT EQUIPMENT				
129 MATERIALS HANDLING EQUIPMENT.....	17,153	17,153	17,153	17,153
130 OTHER SUPPLY SUPPORT EQUIPMENT.....	6,368	6,368	10,368	9,568
131 FIRST DESTINATION TRANSPORTATION.....	6,217	6,217	6,217	6,217
132 SPECIAL PURPOSE SUPPLY SYSTEMS.....	71,597	71,597	71,597	71,597
TOTAL, SUPPLY SUPPORT EQUIPMENT.....	101,335	101,335	105,335	104,535
PERSONNEL AND COMMAND SUPPORT EQUIPMENT				
TRAINING DEVICES				
133 TRAINING SUPPORT EQUIPMENT.....	12,944	11,728	12,944	11,728
COMMAND SUPPORT EQUIPMENT				
134 COMMAND SUPPORT EQUIPMENT.....	55,267	51,682	52,267	48,682
135 EDUCATION SUPPORT EQUIPMENT.....	2,084	2,084	2,084	2,084
136 MEDICAL SUPPORT EQUIPMENT.....	5,517	2,092	5,517	5,517
137 NAVAL MIP SUPPORT EQUIPMENT.....	1,537	1,537	1,537	1,537
139 OPERATING FORCES SUPPORT EQUIPMENT.....	12,250	12,250	12,250	12,250
140 C4ISR EQUIPMENT.....	5,324	5,324	5,324	5,324
141 ENVIRONMENTAL SUPPORT EQUIPMENT.....	18,183	18,183	16,488	16,488
142 PHYSICAL SECURITY EQUIPMENT.....	128,921	126,921	128,921	126,921
143 ENTERPRISE INFORMATION TECHNOLOGY.....	79,747	87,247	65,747	70,747
TOTAL, PERSONNEL AND COMMAND SUPPORT EQUIPMENT.....	321,774	319,048	303,079	301,278
145 SPARES AND REPAIR PARTS.....	247,796	247,796	247,796	247,796
999 CLASSIFIED PROGRAMS.....	19,463	19,463	19,463	19,463
TOTAL, OTHER PROCUREMENT, NAVY.....	5,661,176	5,395,081	5,499,413	5,441,234

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

P-1	Budget Request	House	Senate	Recommendation
<b>3 OTHER PROPULSION EQUIPMENT</b>	<b>0</b>	<b>2,000</b>	<b>4,000</b>	<b>4,800</b>
LSD-41/49 Diesel Engine Low Load Upgrade Kit		2,000		1,600
LCS-1 Waterjet Spares			4,000	3,200
<b>4 OTHER NAVIGATION EQUIPMENT</b>	<b>34,743</b>	<b>32,249</b>	<b>34,743</b>	<b>32,249</b>
ECDIS-N units ahead of need		-1,494		-1,494
Support funding carryover		-1,000		-1,000
<b>5 SUB PERISCOPES &amp; IMAGING EQUIP</b>	<b>75,127</b>	<b>70,027</b>	<b>70,127</b>	<b>70,027</b>
Digital periscope contract delay		-5,100		-5,100
ISNS contract delay			-5,000	
<b>6 DDG MOD</b>	<b>142,262</b>	<b>111,366</b>	<b>145,362</b>	<b>144,742</b>
Modernization equipment ahead of need		-30,896		
Smart Valve Automatic Fire Suppression System			3,100	2,480
<b>9 POLLUTION CONTROL EQUIPMENT</b>	<b>24,992</b>	<b>23,832</b>	<b>24,992</b>	<b>23,832</b>
R-114 air conditioning units ahead of need		-1,160		-1,160
<b>11 VIRGINIA CLASS SUPPORT EQUIPMENT</b>	<b>103,153</b>	<b>103,153</b>	<b>93,673</b>	<b>93,673</b>
HM&E/NPES tech refresh contract delay			-9,480	-9,480
<b>12 SUBMARINE BATTERIES</b>	<b>51,482</b>	<b>41,582</b>	<b>51,482</b>	<b>45,082</b>
688 class installation funding ahead of need		-4,900		-4,900
Ohio class installation funding ahead of need		-3,500		
Support funding carryover		-1,500		-1,500
<b>13 STRATEGIC PLATFORM SUPPORT EQUIP</b>	<b>15,672</b>	<b>12,372</b>	<b>15,672</b>	<b>12,372</b>
Incremental funding of SSTG rotors		-3,300		-3,300
<b>15 CG-MODERNIZATION</b>	<b>315,323</b>	<b>314,123</b>	<b>315,323</b>	<b>314,123</b>
Properly price SPD-9B radar equipment		-1,200		-1,200
<b>18 UNDERWATER EOD PROGRAMS</b>	<b>19,232</b>	<b>16,182</b>	<b>19,232</b>	<b>19,232</b>
UUV, diver safety, and life support equipment cost growth		-3,050		
<b>19 ITEMS LESS THAN \$5 MILLION</b>	<b>127,554</b>	<b>123,388</b>	<b>121,030</b>	<b>118,808</b>
FFG-7 class diesel cost growth		-494		-494
CVN Smartship modification cost growth		-1,369		-1,369
CVN auto voltage regulators ahead of need		-3,600		-3,600
AS-39 elevator upgrade ahead of need		-703		-703
Secure Remote Monitoring Systems		2,000		1,600
Canned Lube Pumps LHD-1 Class			1,000	800
Remote Monitoring and Troubleshooting Project			2,900	2,320
Auto voltage regulator reduction to growth			-3,124	
LPD-17 Forcenet installation ahead of need			-3,800	-3,800
Machinery Plant Upgrades installation ahead of need			-3,500	-3,500
<b>25 STANDARD BOATS</b>	<b>35,318</b>	<b>37,318</b>	<b>68,518</b>	<b>52,018</b>
Force Protection Boats (Small)		2,000	2,000	2,000
Range support craft recapitalization			25,000	8,500
Dive Boats			2,000	2,000
Fuel Oil Barge (YON)			4,200	4,200

P-1		Budget Request	House	Senate	Recommendation
26	OTHER SHIPS TRAINING EQUIPMENT	15,113	13,507	15,113	13,507
	Virginia class submarine air conditioner trainer cost growth		-1,606		-1,606
27	OPERATING FORCES IPE	47,172	47,172	51,372	51,372
	Pearl Harbor Naval Shipyard Equipment Modernization			4,200	4,200
29	LCS MODULES	137,259	92,204	52,926	117,259
	Mission Package Integration funding		-17,955		-12,000
	Align Mission Package procurement with LCS schedule		-27,100		
	Defer MCM Mission Package			-76,333	
	RMS transfer to RDTE, Navy line number 32			-8,000	-8,000
30	LSD MIDLIFE	117,856	116,786	117,856	116,786
	30 ton deck crane ahead of need		-1,070		-1,070
31	RADAR SUPPORT	9,968	13,968	9,968	13,188
	Enhanced Detection Adjunct Processor		4,000		3,200
33	AN/SQQ-89 SURF ASW COMBAT SYSTEM	111,093	77,362	95,593	77,362
	SQQ-89 backfit suites ahead of need		-23,250		-23,250
	SQQ-89 backfit suites cost growth		-1,230		-1,230
	SQQ-89 IPS suites ahead of need		-7,751		-7,751
	Support funding carryover		-1,500		-1,500
	Contract delay			-15,500	
34	SSN ACOUSTICS	299,962	291,832	303,962	297,682
	TB-33 fiber optic array receivers cost growth		-1,850		
	BQS-15A EC-20 processor cost growth		-1,590		-1,590
	Phase III/IV technology insertion upgrade cost growth		-1,590		-1,590
	Support funding carryover		-3,100		-3,100
	TB-33 Thinline Towed Array			4,000	4,000
35	UNDERSEA WARFARE SUPPORT EQUIPMENT	38,705	30,548	38,705	30,548
	CVN tactical support center modifications ahead of need		-8,157		-8,157
36	SONAR SWITCHES AND TRANSDUCERS	13,537	11,894	13,537	11,894
	DT-899A and DT-592 component cost growth		-1,643		-1,643
37	SUBMARINE ACOUSTIC WARFARE SYSTEM	20,681	22,681	12,881	13,481
	Hydroacoustic Low Frequency Source Generation Systems		2,000	1,000	1,600
	Contract delays			-8,800	-8,800
38	SSTD	2,184	17,184	2,184	10,184
	Program Increase		15,000		8,000
42	AN/SLQ-32	34,264	31,267	34,264	31,267
	Support funding growth		-1,500		-1,500
	Block 1B2 specific emitter identification systems ahead of need		-1,497		-1,497
43	SHIPBOARD IW EXPLOIT	105,883	106,883	88,883	89,683
	AN/USQ-167 COMSEC Upgrade		1,000		800
	SSEE Inc F slow production ramp			-16,000	-16,000
	AIS funding carryover			-1,000	-1,000

P-1		Budget Request	House	Senate	Recommendation
44	<b>SUBMARINE SUPPORT EQUIPMENT PROG</b>	98,645	83,495	86,495	86,495
	Multi-function Modular Mast units ahead of need		-15,150		
	Multi-function Modular Mast contract delay			-15,150	-15,150
	AN/BLQ-10A(V) Wideband Signal Processor			3,000	3,000
46	<b>COOPERATIVE ENGAGEMENT CAPABILITY</b>	30,522	28,922	30,522	28,922
	Support funding carryover		-1,600		-1,600
49	<b>ATDLS</b>	7,314	7,314	4,314	4,314
	Installation delays			-3,000	-3,000
50	<b>MINESWEEPING SYSTEM REPLACEMENT</b>	79,091	69,285	74,291	72,285
	Magnetic silencing facility upgrades support funding growth		-5,000		-2,000
	Remote minehunting system upgrades		-4,806		-4,806
	RMS restructure			-4,800	
52	<b>NAVSTAR GPS RECEIVERS (SPACE)</b>	10,845	7,965	10,845	7,965
	Anti-jam antennas ahead of need		-2,880		-2,880
55	<b>OTHER TRAINING EQUIPMENT</b>	36,784	35,654	36,784	35,654
	Battle force tactical training and cryptor systems ahead of need		-1,130		-1,130
56	<b>MATCALs</b>	17,468	12,168	17,468	14,768
	Air Surveillance and Precision Approach Radar cost growth		-5,300		-2,700
58	<b>AUTOMATIC CARRIER LANDING SYSTEM</b>	18,878	17,878	18,878	17,878
	AN/URN-25 TACAN upgrade cost growth		-1,000		-1,000
64	<b>DEPLOYABLE JOINT COMMAND AND CONTROL</b>	8,719	11,719	8,719	11,119
	Deployable Joint Command and Control Shelter Upgrade Program		3,000		2,400
73	<b>ITEMS LESS THAN \$5 MILLION</b>	65,760	57,706	68,760	60,106
	AN/APA reliability kits ahead of need		-6,054		-6,054
	Radar support growth		-2,000		-2,000
	Radar Product Support System			3,000	2,400
76	<b>SHIP COMMUNICATIONS AUTOMATION</b>	310,605	263,625	290,305	282,105
	Shipboard network systems ahead of need		-20,300		
	SCI network modifications ahead of need		-6,200		-6,200
	Digital network modifications ahead of need		-18,480		
	Network operations center modifications ahead of need		-2,000		-2,000
	ISNS Afloat early to need			-20,300	-20,300
78	<b>COMMUNICATIONS ITEMS UNDER \$5M</b>	25,314	25,314	26,554	26,054
	HF ALE contract delay			-1,260	-1,260
	Intelligraf Training and Maintenance Aid for Above Water Sensors			2,500	2,000
81	<b>SATELLITE COMMUNICATIONS SYSTEMS</b>	50,172	43,747	48,572	48,572
	SUBHDR SHF modification kits ahead of need		-2,025		
	Broadband satellite network modifications ahead of need		-4,400		
	CBSP installation delays			-1,600	-1,600
82	<b>NAVY MULTIBAND TERMINAL (NMT)</b>	72,496	72,496	63,196	63,196
	NMT Ship ahead of need			-9,300	-9,300

P-1		Budget Request	House	Senate	Recommendation
86	INFO SYSTEMS SECURITY PROGRAM (ISSP)	119,054	116,754	110,554	110,554
	Computer network defense systems ahead of need		-2,300		
	CND program delay			-4,000	-4,000
	KMI ahead of need			-4,500	-4,500
90	SONOBUOYS - ALL TYPES	91,976	89,976	91,976	89,976
	Production engineering carryover		-2,000		-2,000
91	WEAPONS RANGE SUPPORT EQUIPMENT	75,329	72,829	92,329	88,929
	Production engineering carryover		-2,500		-1,000
	Range Support Enhancements			15,000	13,000
	Hawaiian Range Complex			2,000	1,600
94	AIRCRAFT LAUNCH & RECOVERY EQUIPMENT	48,670	44,849	46,849	39,808
	ADMACS Block II upgrade cost growth		-1,821		
	Production engineering carryover		-2,000		-2,000
	ADMACS Block 2 program delay			-1,821	-6,864
95	METEOROLOGICAL EQUIPMENT	21,458	21,458	14,558	14,558
	Defer METMF LRIP			-6,900	-6,900
97	AVIATION LIFE SUPPORT	27,367	29,867	32,367	30,367
	Multi-Climate Protection System		2,500	8,000	6,400
	Advanced Mission Extender Device Kits			2,000	1,600
	JHMCS Night Vision contract delay			-5,000	-5,000
98	AIRBORNE MINE COUNTERMEASURES	55,408	55,408	51,408	51,408
	AMNS funding carryover			-4,000	-4,000
100	PORTABLE ELECTRONIC MAINTENANCE AIDS	9,710	9,710	4,910	4,910
	Reduction to growth			-4,800	-4,800
101	OTHER AVIATION SUPPORT EQUIPMENT	16,541	13,541	16,541	13,541
	Program growth		-3,000		-3,000
105	RAM GMLS	7,762	7,762	8,762	8,762
	RAM Mark 49 Mod 3 Launcher Obsolescence/Affordability			1,000	1,000
107	AEGIS SUPPORT EQUIPMENT	108,886	101,733	108,886	101,733
	Smartship modifications ahead of need		-8,153		-8,153
	Adaptive Diagnostic Electronic Portable Testset		1,000		1,000
111	SSN COMBAT CONTROL SYSTEMS	118,528	113,563	118,528	113,563
	SSN 688 class technology insertion upgrade cost growth		-4,965		-4,965
117	ANTI-SHIP MISSILE DECOY SYSTEM	37,128	29,978	37,128	33,628
	Nulka decoy cost growth		-7,150		-3,500
130	OTHER SUPPLY SUPPORT EQUIPMENT	6,368	6,368	10,368	9,568
	Navy AIT Logistics Modernization			4,000	3,200
133	TRAINING SUPPORT EQUIPMENT	12,944	11,728	12,944	11,728
	Continuing training environment equipment cost growth		-1,216		-1,216
134	COMMAND SUPPORT EQUIPMENT	55,267	51,682	52,267	48,682
	MH/MOC upgrades cost growth		-3,585		-3,585
	National Small Unit Center of Excellence			-3,000	-3,000

<b>P-1</b>	<b>Budget Request</b>	<b>House</b>	<b>Senate</b>	<b>Recommendation</b>
<b>136 MEDICAL SUPPORT EQUIPMENT</b>	<b>5,517</b>	<b>2,092</b>	<b>5,517</b>	<b>5,517</b>
Commercial broadband satellite program		-3,425		
<b>141 ENVIRONMENTAL SUPPORT EQUIPMENT</b>	<b>18,183</b>	<b>18,183</b>	<b>16,488</b>	<b>16,488</b>
Wx Detection Display and Shallow Water Sismic System ahead of need			-1,695	-1,695
<b>142 PHYSICAL SECURITY EQUIPMENT</b>	<b>128,921</b>	<b>126,921</b>	<b>128,921</b>	<b>126,921</b>
Maritime Civil Affairs Group Activities growth		-2,000		-2,000
<b>143 ENTERPRISE INFORMATION TECHNOLOGY</b>	<b>79,747</b>	<b>87,247</b>	<b>65,747</b>	<b>70,747</b>
SPAWAR Systems Center (SSC/ITC) New Orleans		7,500	1,000	6,000
Base Level Information Infrastructure contract delay			-15,000	-15,000

## SHIP SERVICE TURBINE GENERATOR ROTORS

The budget request includes \$3,330,000 for an Ohio-class submarine Ship's Service Turbine Generator (SSTG) rotor. The recommendation provides no funds for the rotor because the procurement does not result in a usable end item in violation of the full funding policy. The Secretary of the Navy is urged to submit a fiscal year 2010 reprogramming request that fully funds the SSTG rotor in order to support the planned installation schedule.

## WEAPONS RANGE SUPPORT EQUIPMENT

Due to carryover of production engineering funding in the weapons range support equipment program, the recommendation reduces the program by \$1,000,000. This reduction is to be applied only against the fiscal year 2010 production engineering funding and shall not reduce funds available for completion of auxiliary systems in support of Magnetic Silencing Facility military construction.

## PROCUREMENT, MARINE CORPS

For Procurement, Marine Corps, funds are to be available for fiscal  
year 2010, as follows:

(In thousands of dollars)

	Budget	House	Senate	Recommendation	
PROCUREMENT, MARINE CORPS					
WEAPONS AND COMBAT VEHICLES					
TRACKED COMBAT VEHICLES					
1	AAV7A1 PIP.....	9,127	9,127	6,154	6,154
2	LAV PIP.....	34,969	34,969	34,969	34,969
ARTILLERY AND OTHER WEAPONS					
5	EXPEDITIONARY FIRE SUPPORT SYSTEM.....	19,591	19,591	19,591	19,591
6	155MM LIGHTWEIGHT TOWED HOWITZER.....	7,420	---	7,420	7,420
7	HIGH MOBILITY ARTILLERY ROCKET SYSTEM.....	71,476	71,476	71,476	71,476
8	WEAPONS AND COMBAT VEHICLES UNDER \$5 MILLION.....	25,949	25,949	16,158	16,158
WEAPONS					
OTHER SUPPORT					
10	MODIFICATION KITS.....	33,990	34,990	33,990	34,790
11	WEAPONS ENHANCEMENT PROGRAM.....	22,238	22,238	22,238	22,238
<hr/>					
TOTAL, WEAPONS AND COMBAT VEHICLES.....					
		224,760	218,340	211,996	212,796
GUIDED MISSILES AND EQUIPMENT					
GUIDED MISSILES					
12	GROUND BASED AIR DEFENSE.....	11,387	11,387	11,387	11,387
14	FOLLOW ON TO SHAW.....	25,333	25,333	---	---
15	ANTI-ARMOR WEAPONS SYSTEM-HEAVY (AAMS-H).....	71,225	71,225	71,225	71,225
OTHER SUPPORT					
16	MODIFICATION KITS.....	2,114	2,114	2,114	2,114
<hr/>					
TOTAL, GUIDED MISSILES AND EQUIPMENT.....					
		110,059	110,059	84,728	84,728

(In thousands of dollars)

	Budget	House	Senate	Recommendation	
COMMUNICATIONS AND ELECTRONICS EQUIPMENT					
COMMAND AND CONTROL SYSTEMS					
17	COMBAT OPERATIONS CENTER.....	19,832	19,832	19,832	19,832
REPAIR AND TEST EQUIPMENT					
18	REPAIR AND TEST EQUIPMENT.....	31,087	32,587	31,087	32,287
OTHER SUPPORT (TEL)					
19	COMBAT SUPPORT SYSTEM.....	11,368	11,368	11,368	11,368
21	ITEMS UNDER \$5 MILLION (COMM & ELEC).....	3,531	3,531	3,531	3,531
22	AIR OPERATIONS C2 SYSTEMS.....	45,084	45,084	45,084	45,084
RADAR + EQUIPMENT (NON-TEL)					
23	RADAR SYSTEMS.....	7,428	7,428	7,428	7,428
INTELL/COMM EQUIPMENT (NON-TEL)					
24	FIRE SUPPORT SYSTEM.....	2,580	2,580	2,580	2,580
25	INTELLIGENCE SUPPORT EQUIPMENT.....	37,581	37,581	33,270	33,270
26	RQ-11 UAV.....	42,403	42,403	28,580	28,580
OTHER COMM/ELEC EQUIPMENT (NON-TEL)					
27	NIGHT VISION EQUIPMENT.....	10,360	10,360	10,360	10,360
OTHER SUPPORT (NON-TEL)					
28	COMMON COMPUTER RESOURCES.....	115,263	115,263	115,263	115,263
29	COMMAND POST SYSTEMS.....	49,820	49,820	49,820	49,820
30	RADIO SYSTEMS.....	61,954	49,090	61,954	49,090
31	COMM SWITCHING & CONTROL SYSTEMS.....	98,254	92,254	98,254	92,254
32	COMM & ELEC INFRASTRUCTURE SUPPORT.....	15,531	15,531	15,531	15,531
TOTAL, COMMUNICATIONS AND ELECTRONICS EQUIPMENT.....					
		552,076	534,712	533,942	516,278

(In thousands of dollars)

	Budget	House	Senate	Recommendation
SUPPORT VEHICLES				
ADMINISTRATIVE VEHICLES				
33 COMMERCIAL PASSENGER VEHICLES.....	1,265	1,265	1,265	1,265
34 COMMERCIAL CARGO VEHICLES.....	13,610	13,610	13,610	13,610
TACTICAL VEHICLES				
35 5/4T TRUCK HMMWV (MYP).....	9,796	9,796	9,796	9,796
36 MOTOR TRANSPORT MODIFICATIONS.....	6,111	---	6,111	3,000
37 MEDIUM TACTICAL VEHICLE REPLACEMENT.....	10,792	10,792	10,792	10,792
38 LOGISTICS VEHICLE SYSTEM REP.....	217,390	220,390	217,390	217,390
39 FAMILY OF TACTICAL TRAILERS.....	26,497	26,497	19,070	21,470
40 TRAILERS.....	18,122	18,122	18,122	18,122
OTHER SUPPORT				
41 ITEMS LESS THAN \$5 MILLION.....	5,948	5,948	5,948	5,948
TOTAL, SUPPORT VEHICLES.....	309,531	306,420	302,104	301,393
ENGINEER AND OTHER EQUIPMENT				
ENGINEER AND OTHER EQUIPMENT				
42 ENVIRONMENTAL CONTROL EQUIP ASSORT.....	5,121	5,121	5,121	5,121
43 BULK LIQUID EQUIPMENT.....	13,035	13,035	16,135	16,135
44 TACTICAL FUEL SYSTEMS.....	35,059	35,059	35,059	35,059
45 POWER EQUIPMENT ASSORTED.....	21,033	21,033	31,033	30,033
46 AMPHIBIOUS SUPPORT EQUIPMENT.....	39,876	28,876	39,876	28,876
47 EOD SYSTEMS.....	93,335	93,335	93,335	93,335
MATERIALS HANDLING EQUIPMENT				
48 PHYSICAL SECURITY EQUIPMENT.....	12,169	13,169	12,169	13,169
49 GARRISON MOBILE ENGR EQUIP.....	11,825	11,825	11,825	11,825
50 MATERIAL HANDLING EQUIP.....	41,430	41,430	41,430	41,430
51 FIRST DESTINATION TRANSPORTATION.....	5,301	5,301	5,301	5,301

(In thousands of dollars)

	Budget	House	Senate	Recommendation
-----				
GENERAL PROPERTY				
52 FIELD MEDICAL EQUIPMENT.....	6,811	6,811	6,811	6,811
53 TRAINING DEVICES.....	14,854	14,854	14,854	14,854
54 CONTAINER FAMILY.....	3,770	3,770	3,770	3,770
55 FAMILY OF CONSTRUCTION EQUIPMENT.....	37,735	37,735	37,735	37,735
56 FAMILY OF INTERNALLY TRANSPORTABLE VEH (ITV).....	10,360	10,360	10,360	10,360
58 RAPID DEPLOYABLE KITCHEN.....	2,159	2,159	2,159	2,159
OTHER SUPPORT				
59 ITEMS LESS THAN \$5 MILLION.....	8,792	8,792	8,792	8,792
-----				
TOTAL, ENGINEER AND OTHER EQUIPMENT.....	362,665	352,665	375,765	364,765
60 SPARES AND REPAIR PARTS.....	41,547	41,547	41,547	41,547
-----				
TOTAL, PROCUREMENT, MARINE CORPS.....	1,600,638	1,563,743	1,550,080	1,521,505
=====				

**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
[in thousands of dollars]

P-1		Budget Request	House	Senate	Recommendation
1	<b>AAV7A1 PIP</b> Survivability, C4I and Environment upgrade - funding ahead of need	9,127	9,127	6,154	6,154
				-2,973	-2,973
6	<b>155MM LIGHTWEIGHT TOWED HOWITZER</b> Items previously purchased in the fiscal year 2009 supplemental	7,420	0	7,420	7,420
			-7,420		0
	<b>WEAPONS AND COMBAT VEHICLES UNDER \$5 MILLION</b>				
8	Multiple Shot Grenade Launcher contract award delays	25,949	25,949	16,158	16,158
				-9,791	-9,791
10	<b>MODIFICATION KITS</b> Microclimate Cooling Unit for M1 Abrams Tank	33,990	34,990	33,990	34,790
			1,000		800
14	<b>FOLLOW ON TO SMAW</b> Funding ahead of need	25,333	25,333	0	0
				-25,333	-25,333
18	<b>REPAIR AND TEST EQUIPMENT</b> Portable Military Radio Communications Test Set	31,087	32,587	31,087	32,287
			1,500		1,200
25	<b>INTELLIGENCE SUPPORT EQUIPMENT</b> Wide Field of View Persistent Surveillance - requirement suspended	37,581	37,581	33,270	33,270
				-4,311	-4,311
26	<b>RQ-11 UAV</b> Tier II UAS procurement funding ahead of need	42,403	42,403	28,580	28,580
				-13,823	-13,823
30	<b>RADIO SYSTEMS</b> Unjustified miscellaneous funding requirements	61,954	49,090	61,954	49,090
			-12,864		-12,864
31	<b>COMM SWITCHING &amp; CONTROL SYSTEMS</b> Items previously purchased in the fiscal year 2009 supplemental	98,254	92,254	98,254	92,254
			-6,000		-6,000
36	<b>MOTOR TRANSPORT MODIFICATIONS</b> Items previously purchased in the fiscal year 2009 supplemental	6,111	0	6,111	3,000
			-6,111		-3,111
38	<b>LOGISTICS VEHICLE SYSTEM REPLACEMENT</b> Marine Corps MK 1077 Flatracks (Transferred to line number 38)	217,390	220,390	217,390	217,390
			3,000		0
39	<b>FAMILY OF TACTICAL TRAILERS</b> Flat Rack Refueling capability - production delays Marine Corps MK 1077 Flatracks (Transferred from line number 38)	26,497	26,497	19,070	21,470
				-7,427	-7,427
					2,400
43	<b>BULK LIQUID EQUIPMENT</b> Nitrile Rubber Collapsible Fuel Bladders	13,035	13,035	16,135	16,135
				3,100	3,100
45	<b>POWER EQUIPMENT ASSORTED</b> On Board Vehicle Power Kits for USMC MTRV Trucks	21,033	21,033	31,033	30,033
				10,000	9,000

<b>P-1</b>		<b>Budget Request</b>	<b>House</b>	<b>Senate</b>	<b>Recommendation</b>
<b>46</b>	<b>AMPHIBIOUS SUPPORT EQUIPMENT</b>	<b>39,876</b>	<b>28,876</b>	<b>39,876</b>	<b>28,876</b>
	Items previously purchased in the fiscal year 2009 supplemental		-11,000		-11,000
<b>48</b>	<b>PHYSICAL SECURITY EQUIPMENT</b>	<b>12,169</b>	<b>13,169</b>	<b>12,169</b>	<b>13,169</b>
	Portable Armored Wall System		1,000		1,000

## AIRCRAFT PROCUREMENT, AIR FORCE

For Aircraft Procurement, Air Force, funds are to be available for  
fiscal year 2010, as follows:

(In thousands of dollars)

	Budget	House	Senate	Recommendation
AIRCRAFT PROCUREMENT, AIR FORCE				
COMBAT AIRCRAFT				
TACTICAL FORCES				
1 F-35.....	2,048,830	2,067,430	2,048,830	2,063,830
2 F-35 (AP-CY).....	300,600	278,600	278,600	278,600
3 F-22A.....	95,163	31,163	95,163	95,163
4 F-22A (AP-CY).....	---	368,800	---	---
TOTAL, COMBAT AIRCRAFT.....	2,444,593	2,745,993	2,422,593	2,457,593
AIRLIFT AIRCRAFT				
TACTICAL AIRLIFT				
5 C-17A (HYP).....	88,510	762,610	2,588,510	2,588,510
OTHER AIRLIFT				
6 C-130J.....	285,632	285,632	285,632	285,632
7 C-130J ADVANCE PROCUREMENT (CY).....	108,000	108,000	108,000	108,000
8 HC/MC-130 RECAP.....	879,231	375,231	375,231	375,231
9 HC/MC-130 RECAP (AP-CY).....	137,360	137,360	137,360	137,360
10 JOINT CARGO AIRCRAFT.....	319,050	319,050	319,050	319,050
TOTAL, AIRLIFT AIRCRAFT.....	1,817,783	1,987,883	3,813,783	3,813,783
TRAINER AIRCRAFT				
11 USAFA POWERED FLIGHT PROGRAM.....	4,144	4,144	4,144	4,144
OPERATIONAL TRAINERS				
12 JPATS.....	15,711	15,711	15,711	15,711
OTHER AIRCRAFT				
HELICOPTERS				
13 V-22 OSPREY.....	437,272	437,272	437,272	437,272
14 V-22 OSPREY (AP-CY).....	13,835	13,835	13,835	13,835
14A HH-60H.....	---	140,000	75,000	95,200
MISSION SUPPORT AIRCRAFT				
21 C-37.....	66,400	199,200	66,400	66,400
17 C-40.....	154,044	354,044	154,044	154,044
18 CIVIL AIR PATROL A/C.....	2,428	7,426	2,428	6,426

(In thousands of dollars)

	Budget	House	Senate	Recommendation
<b>OTHER AIRCRAFT</b>				
20 TARGET DRONES.....	78,511	78,511	74,711	74,711
22 GLOBAL HAWK.....	554,775	275,118	554,775	554,775
23 GLOBAL HAWK (AP-CY).....	113,049	63,049	113,049	113,049
25 MQ-9.....	489,469	489,469	489,469	489,469
23 TOTAL, OTHER AIRCRAFT.....	1,909,781	2,057,924	1,980,981	2,005,181
<b>MODIFICATION OF INSERVICE AIRCRAFT</b>				
<b>STRATEGIC AIRCRAFT</b>				
26 B-2A.....	283,955	264,155	247,855	247,855
28 B-1B.....	107,558	78,558	78,558	78,558
29 B-52.....	78,788	61,466	61,466	61,466
<b>TACTICAL AIRCRAFT</b>				
30 A-10.....	252,488	252,488	252,488	252,488
31 F-15.....	92,921	132,271	92,921	119,171
32 F-16.....	224,642	221,875	223,875	223,475
33 F-22A.....	350,735	187,295	177,335	177,335
<b>AIRLIFT AIRCRAFT</b>				
34 C-5.....	606,983	550,414	561,893	561,893
35 C-5 (AP-CY).....	108,300	108,300	108,300	108,300
36 C-9C.....	10	10	10	10
37 C-17A.....	489,731	317,174	424,431	352,331
38 C-21.....	562	562	562	562
39 C-32A.....	10,644	10,644	1,744	1,744
40 C-37A.....	4,336	4,336	436	436
<b>TRAINER AIRCRAFT</b>				
<b>GLIDER MODS.....</b>				
41.....	119	119	119	119
42 T6.....	33,074	33,074	33,074	33,074
43 T-1.....	35	35	35	35
44 T-38.....	75,274	61,057	61,057	61,057
<b>OTHER AIRCRAFT</b>				
46 KC-10A (ATCA).....	9,441	9,441	9,441	9,441
47 C-12.....	472	472	472	472
48 HC-12W.....	63,000	63,000	63,000	63,000
49 C-20 MODS.....	734	734	734	734
50 VC-25A MOD.....	15,610	15,610	15,610	15,610
51 C-40.....	9,162	9,162	262	262

(In thousands of dollars)

	Budget	House	Senate	Recommendation
52 C-130.....	354,421	99,965	146,171	181,675
53 C130J MODS.....	13,627	13,627	8,527	8,527
54 C-135.....	150,425	119,725	150,425	131,625
55 COMPASS CALL MODS.....	29,187	29,187	29,187	29,187
56 DARP.....	107,859	54,810	107,859	107,859
57 E-3.....	79,263	79,263	79,263	79,263
58 E-4.....	73,058	73,058	73,058	73,058
59 E-8.....	225,973	225,973	21,073	75,073
60 H-1.....	18,280	18,280	18,280	18,280
61 H-60.....	14,201	115,401	14,201	64,201
62 GLOBAL HAWK MODS.....	134,864	134,864	134,864	134,864
63 HC/MC-130 MODIFICATIONS.....	1,964	1,964	1,964	1,964
64 OTHER AIRCRAFT.....	103,274	103,274	103,274	103,274
65 MQ-1 MODS.....	123,889	144,889	123,889	123,889
66 MQ-9 MODS.....	48,837	54,037	48,837	48,837
67 CV-22 MODS.....	24,429	24,429	24,429	24,429
OTHER MODIFICATIONS				
TOTAL, MODIFICATION OF INSERVICE AIRCRAFT.....	4,302,135	3,674,998	3,500,979	3,575,433
AIRCRAFT SPARES AND REPAIR PARTS				
68 INITIAL SPARES/REPAIR PARTS.....	418,604	487,604	418,604	456,604
TOTAL, AIRCRAFT SPARES AND REPAIR PARTS.....	418,604	487,604	418,604	456,604
AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES				
COMMON SUPPORT EQUIPMENT				
69 AIRCRAFT REPLACEMENT SUPPORT EQUIP.....	105,820	105,820	115,820	106,820
POST PRODUCTION SUPPORT				
70 B-1.....	3,929	3,929	3,929	3,929
72 B-2A.....	24,481	24,481	24,481	24,481
73 C-5.....	2,259	2,259	2,259	2,259
74 C-5.....	11,787	11,787	11,787	7,787
75 KC-10A (ATCA).....	4,125	4,125	4,125	4,125
76 C-17A.....	91,400	---	---	---
77 C-130.....	28,092	28,092	28,092	28,092
78 EC-130J.....	5,283	5,283	5,283	5,283
78A B-2 POST PRODUCTION.....	---	19,800	19,800	19,800

(In thousands of dollars)

	Budget	House	Senate	Recommendation
79 F-15 POST PRODUCTION SUPPORT.....	15,744	15,744	15,744	15,744
80 F-16 POST PRODUCTION SUPPORT.....	19,951	19,951	12,951	12,951
81 OTHER AIRCRAFT.....	51,980	51,980	51,980	51,980
INDUSTRIAL PREPAREDNESS.....				
83 INDUSTRIAL PREPAREDNESS.....	25,529	25,529	25,529	25,529
WAR CONSUMABLES				
84 WAR CONSUMABLES.....	134,427	134,427	136,427	136,027
OTHER PRODUCTION CHARGES				
85 OTHER PRODUCTION CHARGES.....	490,344	490,344	495,344	483,844
DARP				
88 DARP.....	15,323	15,323	15,323	15,323
TOTAL, AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES....	1,030,474	958,874	968,874	943,974
999 CLASSIFIED PROGRAMS.....	23,051	23,051	23,051	23,051
TOTAL, AIRCRAFT PROCUREMENT, AIR FORCE.....	11,966,276	11,956,182	13,148,720	13,295,474

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

P-1		Budget Request	House	Senate	Recommendation
1	<b>F-35</b>	2,048,830	2,067,430	2,048,830	2,083,830
	Reduction to non-recurring engineering		-111,400		0
	Alternate Engine		130,000		35,000
2	<b>F-35 (AP-CY)</b>	300,600	278,600	278,600	278,600
	Reduction of two aircraft previously funded in fiscal year 2009		-22,000	-22,000	-22,000
3	<b>F-22A</b>	95,163	31,163	95,163	95,163
	Program reduction		-64,000		0
4	<b>F-22A (AP-CY)</b>	0	368,800	0	0
	Advance Procurement for 12 aircraft		368,800		0
5	<b>C-17A (MYP)</b>	88,510	762,610	2,588,510	2,588,510
	Program Increase - Provides for 10 C-17A aircraft		674,100	2,500,000	2,500,000
8	<b>HC/MC-130 RECAP</b>	879,231	375,231	375,231	375,231
	Funded in fiscal year 2009 supplemental		-504,000	-504,000	-504,000
XX	<b>HH-60M</b>		140,000	75,000	95,200
	Program Increase - Provides for four HH-60M aircraft for combat loss replacement		140,000	75,000	95,200
21	<b>C-37</b>	66,400	199,200	66,400	66,400
	Program Increase - C-37B (Note: One aircraft each for the 201st Airlift Squadron and 89th Airlift Wing)		132,800		0
17	<b>C-40</b>	154,044	354,044	154,044	154,044
	Program Increase - Two C-40C for Scott Air Force Base		200,000		0
18	<b>CIVIL AIR PATROL A/C</b>	2,426	7,426	2,426	6,426
	Civil Air Patrol		5,000		4,000
20	<b>TARGET DRONES</b>	78,511	78,511	74,711	74,711
	Pricing adjustment			-3,800	-3,800
22	<b>GLOBAL HAWK</b>	554,775	275,118	554,775	554,775
	Block 40 Program Delay		-279,657		0
23	<b>GLOBAL HAWK (AP-CY)</b>	113,049	63,049	113,049	113,049
	Unjustified program growth		-50,000		0
26	<b>B-2A</b>	283,955	264,155	247,856	247,856
	Air Force requested transfer to line number 78A B-2 Post Production Support for the B-2 Weapon System Support Center		-19,800	-19,800	-19,800
	Funding requested ahead of need			-16,300	-16,300
28	<b>B-1B</b>	107,558	78,558	78,558	78,558
	Program delay for various programs - Funding transferred to RDT&E, Air Force Line number 119		-29,000	-29,000	-29,000

P-1	Budget Request	House	Senate	Recommendation
29 B-52	78,788	61,466	61,466	61,466
Air Force identified excess		-17,322	-17,322	-17,322
31 F-15	92,921	132,271	92,921	119,171
Funding installs ahead of need - Digital Video Recorder installs		-3,250		-3,250
Program growth - Low Cost Mods for Other Government Costs		-1,000		-500
Program Increase - Advanced Radar Development for Active and ANG aircraft		43,600		30,000
32 F-16	224,642	221,875	223,875	223,475
Funding ahead of need - BLOS Installs		-2,767	-2,767	-2,767
ARC 210 Radios for ANG F-16s			2,000	1,600
33 F-22A	350,735	187,295	177,335	177,335
Common Configuration - Early to need		-158,399	-158,400	-158,400
Warfighter Urgent Requirements		-5,041		
Insufficient justification			-15,000	-15,000
34 C-5	606,993	550,414	561,893	561,893
Unjustified program		-56,579	-28,000	-28,000
Excessive Other Government costs			-10,000	-10,000
Excess in C-5 AMP program			-7,100	-7,100
37 C-17A	469,731	317,174	424,431	352,331
Reduction for Other Government Costs - LAIRCM		-4,023		0
Excess install funding for Pylon Stubs		-800		0
Funding prior to installs ELT Frequency Change		-1,586		0
Excess install funding for Block 13 to 17 Retrofits		-115,748		0
Excess install funding for OBIGGS II		-7,700		0
Excess install funding for Extended Range Retrofit		-22,700		0
Funding requested ahead of need			-45,300	-133,400
LAIRCM for the ANG (Transferred from House General Provision 8120)				16,000
39 C-32A	10,644	10,644	1,744	1,744
Contract delay			-8,900	-8,900
40 C-37A	4,336	4,336	436	436
Contract delay			-3,900	-3,900
44 T-38	75,274	61,057	61,057	61,057
Improved Brake System Program Termination		-14,217	-14,217	-14,217
51 C-40	9,162	9,162	262	262
Contract delay			-8,900	-8,900
52 C-130	354,421	99,965	146,171	181,675
Reduction due to low execution		-209,509	-209,500	-209,500
Centerwing Replacements - Early to need		-42,846	-19,000	-42,846
LAIRCM - Other Government Cost		-5,101		0
C-130 Active Noise Cancellation System		3,000		2,400

P-1	Budget Request	House	Senate	Recommendation
	Scathe View Hyper-Spectral Imagery Upgrade for Nevada ANG (Includes transfer from Other Procurement, Air Force line number 45)		4,500	3,600
	Senior Scout, Electro-Optical Infrared Capability		6,000	4,800
	Senior Scout, Line of Sight Datalink		3,000	2,400
	Senior Scout, Remote Operations Capability		3,000	2,400
	Support Equipment for Time Critical Targeting, Senior Scout		3,750	3,000
	LAIRCM for ANG HC/MC-130 aircraft (Transferred from House General Provision 8120)			33,000
	Air Force requested transfer from RDT&E, Air Force line number 218 for avionics modernization of special mission aircraft			28,000
53	C130J MODS	13,627	13,627	8,527
	Excess funding for other government costs			-5,100
54	C-135	150,425	119,725	150,425
	Excess program funding			-32,200
	Large Aircraft Podded Infrared Countermeasures Systems for Air Force Reserve KC-135		1,500	1,200
56	DARP	107,859	54,810	107,859
	Reduction for installs		-53,049	0
59	E-8	225,973	225,973	21,073
	Partial transfer of re-engining funds to RDT&E, Air Force line number 157			-204,900
61	H-60	14,201	115,401	14,201
	Program Increase - HH-60G Machine Gun		20,200	10,000
	Program Increase - HH-60G Forward Looking Infrared Radar		81,000	40,000
65	MQ-1 MODS	123,889	144,889	123,889
	Program Increase		21,000	0
66	MQ-9 MODS	48,837	54,037	48,837
	Program Increase		5,200	0
68	INITIAL SPARES/REPAIR PARTS	418,604	487,604	418,604
	ANG Block 42 F-16 Engine Upgrade		69,000	38,000
69	AIRCRAFT REPLACEMENT SUPPORT EQUIP	105,820	105,820	115,820
	Initiate depot repair capability for Predator		10,000	10,000
	Program reduction			-9,000
74	C-5	11,787	11,787	11,787
	Program Reduction			-4,000
76	C-17A	91,400	0	0
	Program Reduction		-91,400	-91,400

P-1	Budget Request	House	Senate	Recommendation
78A	B-2 POST PRODUCTION SUPPORT	19,800	19,800	19,800
	Air Force requested transfer from line number 26 for the B-2 Weapon System Support Center	19,800	19,800	19,800
80	F-16 POST PRODUCTION SUPPORT	19,951	12,951	12,951
	Funding requested ahead of need		-7,000	-7,000
84	WAR CONSUMABLES	134,427	136,427	136,027
	Miniature Air-Launched Decoy		2,000	1,600
85	OTHER PRODUCTION CHARGES	490,344	490,344	483,844
	LITENING 4th Generation Kit Upgrades		2,000	2,000
	P5CTS Equipment for the MT Joint Training Environment (Transferred to RDT&E, Air Force line number 81)		3,000	
	Advance Targeting Pods (Transferred from House General Provision 8120)			18,500
	Program Reduction			-27,000

## C-17 GLOBEMASTER III

The recent actions of the Air Force to address and curtail the wide use of undefinitized contract actions (UCA) are encouraging. To further encourage a sense of urgency to reduce the number of UCAs, bill language has been included that limits obligations for modifications until all C-17 UCAs funded with prior year "Aircraft Procurement, Air Force" funds are definitized or certifications of need are made by the Secretary of the Air Force.

The Under Secretary of Defense (Acquisition, Technology and Logistics) (USD(AT&L)) is directed to review contracting procedures within the Air Force and provide a report to the congressional defense committees not later than 90 days after enactment of this Act detailing a strategy to reduce current and minimize further undefinitized contracts in the Air Force. Additionally, the USD(AT&L) is directed to provide to the congressional defense committees a consolidated list of undefinitized contracts within the Department of Defense by November 15 and April 15 of each year.

The recommendation provides an additional \$2,500,000,000 for the procurement of ten C-17 aircraft, associated spares, support equipment and training equipment as required.

OPERATIONAL SUPPORT AND VIP SPECIAL AIRLIFT MISSION  
AIRCRAFT

The recommendation includes \$220,444,000 for operational support and VIP special mission aircraft, which is the amount and quantity requested by the President. The Department of Defense maintains a number of aircraft to provide safe and secure transportation for senior government officials as well as the Combatant Commanders and other senior military leadership. The fleet of aircraft is aging creating maintenance and reliability issues. For example, the Department of Defense grounded the C-9 aircraft within the fleet due to several safety of flight issues. Accordingly, the Secretary of Defense is directed to provide a report on the health of the fleet, inventory requirements and the plans to sustain and upgrade the aircraft in the future to the congressional defense committees, within 90 days after enactment of this Act.

## MISSILE PROCUREMENT, AIR FORCE

For Missile Procurement, Air Force, funds are to be available for  
fiscal year 2010, as follows:

(In thousands of dollars)

	Budget	House	Senate	Recommendation
MISSILE PROCUREMENT, AIR FORCE				
BALLISTIC MISSILES				
MISSILE REPLACEMENT EQUIPMENT - BALLISTIC				
1	58,139	58,139	58,139	58,139
MISSILE REPLACEMENT EQ-BALLISTIC.....				
OTHER MISSILES				
TACTICAL				
2	52,666	52,666	52,666	52,666
JASSM.....				
3	78,753	78,753	78,753	78,753
SIDEWINDER (AIM-9X).....				
4	291,827	282,827	275,497	273,497
AMRAAM.....				
5	79,699	64,530	57,545	57,545
PREDATOR HELLFIRE MISSILE.....				
6	134,801	134,801	134,801	134,801
SMALL DIAMETER BOMB.....				
INDUSTRIAL FACILITIES				
7	841	841	841	841
INDUSTRIAL PREPAREDNESS/POLLUTION PREVENTION.....				
TOTAL, OTHER MISSILES.....				
	638,587	614,418	600,103	598,103
MODIFICATION OF INSERVICE MISSILES				
CLASS IV				
8	32	32	32	32
ADVANCED CRUISE MISSILE.....				
9	199,484	199,484	199,484	199,484
MH III MODIFICATIONS.....				
10	258	258	258	258
AGR-65D MAVERICK.....				
11	30,280	30,280	30,280	30,280
AGM-88A HARM.....				
TOTAL, MODIFICATION OF INSERVICE MISSILES.....				
	230,054	230,054	230,054	230,054

(In thousands of dollars)

	Budget	House	Senate	Recommendation
SPARES AND REPAIR PARTS				
13 INITIAL SPARES/REPAIR PARTS .....	70,185	70,185	70,185	70,185
OTHER SUPPORT				
SPACE PROGRAMS				
14 ADVANCED EHF .....	1,843,475	1,843,475	1,843,475	1,843,475
16 WIDEBAND GAFILLER SATELLITES .....	201,671	626,671	151,671	151,671
17 WIDEBAND GAFILLER SATELLITES (AP-CY) .....	62,380	62,380	62,380	62,380
18 SPACEBORNE EQUIP (COMSEC) .....	9,871	9,871	9,871	9,871
19 GLOBAL POSITIONING (SPACE) .....	53,140	53,140	53,140	53,140
22 DEF METEOROLOGICAL SAT PROG (SPACE) .....	97,764	97,764	97,764	97,764
24 EVOLVED EXPENDABLE LAUNCH VEH (SPACE) .....	1,295,325	1,351,015	1,189,925	1,102,125
26 SBIR HIGH (SPACE) (AP-CY) .....	307,456	307,456	307,456	307,456
27 SBIR HIGH (SPACE) .....	159,000	159,000	159,000	159,000
28 NATL POLAR-ORBITING OP ENV SATELLITE .....	3,900	3,900	3,900	3,900
SPECIAL PROGRAMS				
29 DEFENSE SPACE RECONN PROGRAM .....	105,152	105,152	105,152	105,152
31 SPECIAL UPDATE PROGRAMS .....	311,070	311,070	311,070	311,070
TOTAL, OTHER SUPPORT .....	4,450,204	4,930,894	4,294,804	4,207,004
999 CLASSIFIED PROGRAMS .....	853,559	804,669	817,059	832,059
TOTAL, MISSILE PROCUREMENT, AIR FORCE .....	6,300,728	6,508,359	6,070,344	5,995,544

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

P-1		Budget Request	House	Senate	Recommendation
4	AMRAAM	291,827	282,827	275,497	273,497
	Funding ahead of need for DMS		-8,000	-5,000	-7,000
	Training Equipment Program Reduction			-11,330	-11,330
5	PREDATOR HELLFIRE MISSILE	79,699	64,530	57,545	57,545
	Updated pricing		-15,169	-22,154	-22,154
16	WIDEBAND GAFILLER SATELLITES	201,671	626,671	151,671	151,671
	Program delay		-50,000		0
	WGS-7, full funding		475,000		0
	Premature Request - transferred to RDT&E, Air Force line number 61A			-50,000	-50,000
24	EVOLVED EXPENDABLE LAUNCH VEH (SPACE)	1,295,325	1,351,015	1,189,925	1,102,125
	Reduction for AFSPC-4 and GPS IIF-8 boosters		-193,200		-193,200
	ELC transfer from classified programs		248,890		0
	Reduction for AFSPC-4			-105,400	0
999	CLASSIFIED PROGRAMS	853,559	604,669	817,059	832,059
	Classified adjustment		-248,890	-36,500	-21,500

## EVOLVED EXPENDABLE LAUNCH VEHICLE

There is concern that the Air Force has not established a robust process for managing content on the Evolved Expendable Launch Vehicle (EELV) Launch Capabilities contract. Therefore, the Secretary of the Air Force is directed to establish a formal systems engineering process which includes the National Reconnaissance Office as the functional manager for space launch for the Intelligence Community, as a voting member, in order to prioritize and manage all efforts encompassed by the EELV Launch Capabilities contract.

## MULTI-SATELLITE VEHICLE PROCUREMENT STRATEGIES

The language on multi-satellite vehicle procurement strategy as described in House Report 111-230 is supported in the recommendation. In addition to the programs listed in House Report 111-230, the five year investment strategy is also directed to consider Wideband Global Satellite and Advanced Extremely High Frequency satellite systems for future multi-vehicle purchases.

## PROCUREMENT OF AMMUNITION, AIR FORCE

For Procurement of Ammunition, Air Force, funds are to be available  
for fiscal year 2010, as follows:

(In thousands of dollars)

	Budget	House	Senate	Recommendation
-----				
PROCUREMENT OF AMMUNITION, AIR FORCE				
PROCUREMENT OF AMMO, AIR FORCE				
1 ROCKETS.....	43,461	40,661	43,461	40,661
2 CARTRIDGES.....	123,886	123,886	123,886	123,886
BOMBS				
3 PRACTICE BOMBS.....	52,459	52,459	52,459	52,459
4 GENERAL PURPOSE BOMBS.....	225,145	215,424	228,145	217,249
5 JOINT DIRECT ATTACK MUNITION.....	103,041	103,041	92,825	92,825
FLARE, IR MJU-7B				
6 CAD/PAD.....	40,522	40,522	40,522	40,522
7 EXPLOSIVE ORDNANCE DISPOSAL (EOD).....	3,302	3,302	3,302	3,302
8 SPARES AND REPAIR PARTS.....	4,582	4,582	4,582	4,582
9 MODIFICATIONS.....	1,289	1,289	1,289	1,289
10 ITEMS LESS THAN \$6,000,000.....	5,061	5,061	5,061	5,061
FUZES				
11 FLARES.....	152,515	152,515	152,515	152,515
12 FUZES.....	61,037	61,037	61,037	61,037
-----				
TOTAL, PROCUREMENT OF AMMO, AIR FORCE.....	816,300	803,779	809,064	795,388
WEAPONS				
13 SMALL ARMS.....	6,162	6,162	6,162	6,162
-----				
TOTAL, PROCUREMENT OF AMMUNITION, AIR FORCE.....	822,462	809,941	815,246	801,550
=====				

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

P-1	Budget Request	House	Senate	Recommendation
<b>1 ROCKETS</b>	<b>43,461</b>	<b>40,661</b>	<b>43,461</b>	<b>40,661</b>
Rockets (2.75 Rocket Motor) Inflation Adjustment		-1,400		-1,400
Rockets (2.75 WHD SP Smoke) Inflation Adjustment		-1,400		-1,400
<b>4 GENERAL PURPOSE BOMBS</b>	<b>225,145</b>	<b>214,849</b>	<b>228,145</b>	<b>217,249</b>
BLU-109 2000 Pound Hard Target Bomb Inflation Adjustment		-9,721		-9,721
BLU-117 2000 Pound Hard Target Bomb Inflation Adjustment		-575		-575
MCAAP Bomb Line Modernization (Note: Includes transfer from Procurement of Ammunition, Army line number 38)			3,000	2,400
<b>5 JOINT DIRECT ATTACK MUNITION</b>	<b>103,041</b>	<b>103,041</b>	<b>92,825</b>	<b>92,825</b>
Unit Cost Adjustment			-10,216	-10,216



(In thousands of dollars)

	Budget	House	Senate	Recommendation
SPECIAL COMM-ELECTRONICS PROJECTS				
20 GENERAL INFORMATION TECHNOLOGY.....	111,282	116,782	111,282	115,982
21 AF GLOBAL COMMAND & CONTROL SYSTEM.....	15,499	15,499	15,499	15,499
22 MOBILITY COMMAND AND CONTROL.....	8,610	8,610	8,610	8,610
23 AIR FORCE PHYSICAL SECURITY SYSTEM.....	137,293	77,293	77,293	77,293
24 COMBAT TRAINING RANGES.....	40,633	41,633	73,133	66,513
25 C3 COUNTERMEASURES.....	8,177	8,177	8,177	8,177
26 GCSS-AF FDS.....	81,579	37,079	81,579	37,079
27 THEATER BATTLE MGT C2 SYS.....	29,687	29,687	29,687	29,687
28 AIR OPERATIONS CENTER (AOC).....	54,093	54,093	54,093	58,093
AIR FORCE COMMUNICATIONS				
29 BASE INFORMATION INFRASTRUCTURE.....	433,859	333,859	384,859	333,859
30 USCENTCOM.....	38,958	38,958	38,958	38,958
DISA PROGRAMS				
32 SPACE BASED IR SENSOR PROG SPACE.....	34,440	34,440	2,000	2,000
33 NAVSTAR GPS SPACE.....	6,415	6,415	6,415	6,415
34 NUDET DETECTION SYS (NDS) SPACE.....	15,436	15,436	15,436	15,436
35 AF SATELLITE CONTROL NETWORK SPACE.....	58,865	58,865	58,865	58,865
36 SPACELIFT RANGE SYSTEM SPACE.....	100,275	100,275	100,275	100,275
37 MILSATCOM SPACE.....	110,575	110,575	108,075	108,075
38 SPACE MODS SPACE.....	30,594	30,594	30,594	30,594
39 COUNTERSPACE SYSTEM.....	29,793	29,793	29,793	29,793
ORGANIZATION AND BASE				
40 TACTICAL C-E EQUIPMENT.....	240,890	207,890	207,890	207,890
41 COMBAT SURVIVOR EVADER LOCATER.....	35,029	35,029	35,029	35,029
42 RADIO EQUIPMENT.....	15,536	15,536	15,536	15,536
44 CCTV/AUDIOVISUAL EQUIPMENT.....	12,961	12,961	12,961	12,961
45 BASE COMM INFRASTRUCTURE.....	121,049	122,049	121,049	121,049
50 ITEMS LESS THAN \$5M.....	---	3,000	---	2,400
MODIFICATIONS				
46 COMM ELECT MODS.....	64,087	64,087	64,087	64,087
TOTAL, ELECTRONICS AND TELECOMMUNICATIONS EQUIP.....	2,283,199	2,062,199	2,141,307	2,054,487

(In thousands of dollars)

	Budget	House	Senate	Recommendation
OTHER BASE MAINTENANCE AND SUPPORT EQUIP				
PERSONAL SAFETY AND RESCUE EQUIP				
47 NIGHT VISION GOGGLES.....	28,226	28,226	28,226	28,226
48 ITEMS LESS THAN \$5,000,000 (SAFETY).....	17,223	17,223	17,223	17,223
DEPOT PLANT + MATERIALS HANDLING EQ				
49 MECHANIZED MATERIAL HANDLING.....	15,449	15,449	15,449	15,449
BASE SUPPORT EQUIPMENT				
50 BASE PROCURED EQUIPMENT.....	14,300	14,300	14,300	14,300
51 CONTINGENCY OPERATIONS.....	22,973	10,000	10,000	10,000
52 PRODUCTIVITY CAPITAL INVESTMENT.....	3,020	3,020	3,020	3,020
53 MOBILITY EQUIPMENT.....	32,855	32,855	28,355	28,355
54 ITEMS LESS THAN \$5M (BASE SUPPORT).....	8,195	8,195	8,195	8,195
SPECIAL SUPPORT PROJECTS				
56 DARP RC135.....	23,132	23,132	23,132	23,132
57 DISTRIBUTED GROUND SYSTEMS.....	293,640	293,640	293,640	293,640
59 SPECIAL UPDATE PROGRAM.....	471,234	471,234	471,234	471,234
60 DEFENSE SPACE RECONNAISSANCE PROGRAM.....	30,041	30,041	30,041	30,041
TOTAL, OTHER BASE MAINTENANCE AND SUPPORT EQUIP.....	960,288	947,315	942,815	942,815
SPARE AND REPAIR PARTS				
61 SPARES AND REPAIR PARTS.....	19,460	19,460	19,460	19,460
999 CLASSIFIED PROGRAMS.....	13,830,722	13,690,508	13,995,177	13,936,950
TOTAL, OTHER PROCUREMENT, AIR FORCE.....	17,293,141	16,883,791	17,283,800	17,138,239

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

P-1	Budget Request	House	Senate	Recommendation
7 RUNWAY SNOW REMOVAL & CLEANING EQUIP	24,884	24,884	26,029	25,800
Mission Essential Airfield Operations Equipment			1,145	916
8 ITEMS LESS THAN \$5M	57,243	40,243	41,667	41,382
Reduce program growth		-17,000	-17,000	-17,000
Mission Essential Airfield Operations Equipment			1,424	1,139
12 INTELLIGENCE COMM EQUIP	21,965	27,965	24,965	29,165
Eagle Vision III		6,000		4,800
Eagle Vision for the Hawaii Air National Guard			3,000	2,400
19 DRUG INTERDICTION SUPPORT	452	452	0	0
Transferred to Drug Interdiction & Counter-Drug Activities, Defense			-452	-452
20 GENERAL INFORMATION TECHNOLOGY	111,282	116,782	111,282	115,982
Eagle Vision Program		1,500		1,500
One AF/One Network Infrastructure		2,000		1,600
One AF/One Network Infrastructure for the Pennsylvania National Guard		2,000		1,600
23 AIR FORCE PHYSICAL SECURITY SYSTEM	137,293	77,293	77,293	77,293
Weapons Storage Area - Request ahead of need		-60,000	-60,000	-60,000
24 COMBAT TRAINING RANGES	40,633	41,633	73,133	66,513
Air National Guard Joint Threat Emitter - Savannah				
Combat Readiness Training Centers		1,000		800
Training Range Enhancements			15,000	10,000
Unmanned Threat Emitters (UMTE) Modernization			3,000	2,400
Joint Pacific Alaska Range Complex (JPARC) Enhancements			14,500	12,680
26 GCSS-AF FOS	81,579	37,078	81,579	37,079
ECSS Program restructure		-44,500		-44,500
28 AIR OPERATIONS CENTER (AOC)	54,093	54,093	54,093	58,093
Joint Threat Emitters (Note: Includes transfer from RDT&E,A line number 120)				4,000
29 BASE INFORMATION INFRASTRUCTURE	433,859	333,859	384,859	333,859
Reduce program growth		-100,000	-49,000	-100,000
ANG Infrastructure				[100,000]
32 SPACE BASED IR SENSOR PROG SPACE	34,440	34,440	2,000	2,000
Premature request			-32,440	-32,440
37 MILSATCOM SPACE	110,575	110,575	108,075	108,075
Funding ahead of need			-2,500	-2,500

P-1		Budget Request	House	Senate	Recommendation
40	<b>TACTICAL C-E EQUIPMENT</b>	240,890	207,890	207,890	207,890
	Reduce Vehicle Communication Systems		-33,000	-33,000	-33,000
45	<b>BASE COMM INFRASTRUCTURE</b>	121,049	122,049	121,049	121,049
	Nevada Air National Guard Scathe View (Note: transferred to Air Procurement, Air Force line number 52)		1,000		
50	<b>ITEMS LESS THAN \$5M</b>	0	3,000	0	2,400
	Aircrew Body Armor and Load Carriage Vest System		3,000		2,400
51	<b>CONTINGENCY OPERATIONS</b>	22,973	10,000	10,000	10,000
	Reduce program growth		-12,973	-12,973	-12,973
53	<b>MOBILITY EQUIPMENT</b>	32,855	32,855	28,355	28,355
	Excess funding for EALS			-4,500	-4,500
999	<b>CLASSIFIED PROGRAMS</b>	13,830,722	13,690,508	13,995,177	13,936,950
	Classified adjustment		-158,377	164,455	106,228

## BASE INFORMATION INFRASTRUCTURE

The fiscal year 2010 budget request includes \$425,780,000 for the Combat Information Transport System (CITS), an increase of \$88,590,000 from the amount appropriated in fiscal year 2009. This requested increase stemmed from a requirement to modernize the information transport system at stand-alone Air National Guard (ANG) bases. While there is support for funding the ANG requirement, it is recognized that the CITS program has yet to obligate \$126,700,000 in fiscal year 2008 funding, and, despite reallocating over \$90,000,000 away from CITS, the service has yet to obligate an additional \$87,500,000 in fiscal year 2009 funding. Therefore, the Base Information Infrastructure request is reduced by \$100,000,000, and the Secretary of the Air Force is directed to allocate no less than \$100,000,000 of the appropriated amount to Air National Guard modernization.

## PROCUREMENT, DEFENSE-WIDE

For Procurement, Defense-Wide, funds are to be available for fiscal  
year 2010, as follows:

(In thousands of dollars)

	Budget	House	Senate	Recommendation
PROCUREMENT, DEFENSE-WIDE				
MAJOR EQUIPMENT				
MAJOR EQUIPMENT, OSD				
47 MAJOR EQUIPMENT, OSD.....	111,487	111,487	111,487	111,487
MAJOR EQUIPMENT, NSA				
44 INFORMATION SYSTEMS SECURITY PROGRAM (ISSP).....	4,013	4,013	4,013	4,013
MAJOR EQUIPMENT, WWS				
50 MAJOR EQUIPMENT, WWS.....	26,945	26,945	26,945	26,945
MAJOR EQUIPMENT, DISA				
18 INFORMATION SYSTEMS SECURITY.....	13,449	13,449	10,449	10,449
19 GLOBAL COMMAND AND CONTROL SYS.....	7,053	7,053	7,053	7,053
20 GLOBAL COMBAT SUPPORT SYSTEM.....	2,820	2,820	2,820	2,820
21 TELEPORT PROGRAM.....	68,037	68,037	68,037	68,037
22 ITEMS LESS THAN \$5M.....	196,232	196,232	196,232	196,232
23 NET CENTRIC ENTERPRISE SERVICES (NCES).....	3,051	3,051	3,051	3,051
24 DEFENSE INFORMATION SYSTEMS NETWORK.....	89,725	89,725	89,725	89,725
25 PUBLIC KEY INFRASTRUCTURE.....	1,780	1,780	1,780	1,780
26 JOINT COMMAND AND CONTROL PROGRAM.....	2,835	2,835	---	---
27 CYBER SECURITY INITIATIVE.....	18,188	18,188	18,188	18,188
MAJOR EQUIPMENT, DLA				
28 MAJOR EQUIPMENT.....	7,728	7,728	7,728	7,728
MAJOR EQUIPMENT, DCAA				
3 MAJOR EQUIPMENT ITEMS LESS THAN \$5M.....	1,489	1,489	1,489	1,489
MAJOR EQUIPMENT, TJS				
48 MAJOR EQUIPMENT, TJS.....	12,065	12,065	12,065	12,065
MAJOR EQUIPMENT, DHRA				
5 PERSONNEL ADMINISTRATION.....	10,431	10,431	10,431	10,431
MAJOR EQUIPMENT, DEFENSE THREAT REDUCTION AGENCY				
32 VEHICLES.....	50	50	50	50
33 OTHER MAJOR EQUIPMENT.....	7,447	7,447	7,447	7,447
MAJOR EQUIPMENT, DODDE				
30 AUTOMATION/EDUCATIONAL SUPPORT & LOGISTICS.....	1,463	1,463	1,463	1,463
MAJOR EQUIPMENT, DCMA				
4 MAJOR EQUIPMENT.....	2,012	2,012	2,012	2,012
MAJOR EQUIPMENT, DTSA				
34 MAJOR EQUIPMENT.....	436	436	436	436

(In thousands of dollars)

	Budget	House	Senate	Recommendation
<b>MAJOR EQUIPMENT, BTA</b>				
2 MAJOR EQUIPMENT, BTA.....	8,858	8,858	8,858	8,858
<b>MAJOR EQUIPMENT, DMACT</b>				
29 A - WEAPON SYSTEM COST.....	10,149	10,149	10,149	10,149
35 THAAD SYSTEM.....	420,300	420,300	420,300	420,300
36 SM-3.....	168,723	168,723	226,323	226,323
36A TPY-2 RADAR.....	---	---	41,000	---
<b>TOTAL, MAJOR EQUIPMENT.....</b>	<b>1,196,766</b>	<b>1,196,766</b>	<b>1,289,531</b>	<b>1,248,531</b>
<b>SPECIAL OPERATIONS COMMAND</b>				
<b>AVIATION PROGRAMS</b>				
51 SOF ROTARY WING UPGRADES AND SUSTAINMENT.....	101,936	90,936	101,936	90,936
52 MH-47 SERVICE LIFE EXTENSION PROGRAM.....	22,958	22,958	28,858	28,858
53 MH-60 SOF MODERNIZATION PROGRAM.....	146,820	146,820	146,820	146,820
54 NON-STANDARD AVIATION.....	227,552	197,552	152,562	177,552
56 SOF TANKER RECAPITALIZATION.....	34,200	34,200	34,200	34,200
57 SOF U-28.....	2,518	2,518	2,518	2,518
59 CV-22 SOF MODIFICATION.....	114,553	114,553	114,553	114,553
60 MQ-1 UAV.....	10,930	10,930	10,930	10,930
61 MQ-9 UAV.....	12,671	12,671	12,671	12,671
62 STUASLO.....	12,223	12,223	12,223	12,223
63 C-130 MODIFICATIONS.....	59,950	145,950	54,816	59,650
64 AIRCRAFT SUPPORT.....	973	973	973	973
<b>SHIPBUILDING</b>				
65 ADVANCED SEAL DELIVERY SYS (ASDS).....	5,236	---	---	---
66 MK VIII MOD 1 - SEAL DELIVERY VEH.....	1,463	1,463	1,463	1,463
<b>AMMUNITION PROGRAMS</b>				
67 SOF ORDNANCE REPLENISHMENT.....	61,360	61,360	61,360	61,360
68 SOF ORDNANCE ACQUISITION.....	26,791	26,791	26,791	26,791

(In thousands of dollars)

	Budget	House	Senate	Recommendation
OTHER PROCUREMENT PROGRAMS				
69 COMM EQUIPMENT & ELECTRONICS.....	55,080	55,080	55,080	55,080
70 SOF INTELLIGENCE SYSTEMS.....	72,811	72,811	72,811	72,811
71 SMALL ARMS & WEAPONS.....	35,235	40,235	35,635	41,635
72 MARITIME EQUIPMENT MODS.....	791	791	791	791
74 SOF COMBATANT CRAFT SYSTEMS.....	6,156	6,156	16,156	11,156
75 SPARES AND REPAIR PARTS.....	2,010	2,010	2,010	2,010
76 TACTICAL VEHICLES.....	18,821	20,821	15,821	19,421
77 MISSION TRAINING AND PREPARATIONS SYSTEMS.....	17,265	17,265	21,265	20,865
78 COMBAT MISSION REQUIREMENTS.....	20,000	20,000	20,000	20,000
79 MILCON COLLATERAL EQUIPMENT.....	6,835	6,835	6,835	6,835
81 SOF AUTOMATION SYSTEMS.....	60,836	49,136	60,836	55,136
82 SOF GLOBAL VIDEO SURVEILLANCE ACTIVITIES.....	12,401	12,401	12,401	12,401
83 SOF OPERATIONAL ENHANCEMENTS INTELLIGENCE.....	26,070	26,070	31,270	26,070
84 SOF SOLDIER PROTECTION AND SURVIVAL SYSTEMS.....	550	550	550	550
85 SOF VISUAL AUGMENTATION, LASERS AND SENSOR SY.....	33,741	33,741	43,741	39,341
86 SOF TACTICAL RADIO SYSTEMS.....	53,034	60,034	57,034	57,034
87 SOF MARITIME EQUIPMENT.....	2,777	5,277	2,777	2,777
89 MISCELLANEOUS EQUIPMENT.....	7,576	9,576	7,576	9,176
90 SOF OPERATIONAL ENHANCEMENTS.....	273,998	280,898	277,498	286,498
91 PSYOP EQUIPMENT.....	43,081	52,081	43,081	43,081
TOTAL, SPECIAL OPERATIONS COMMAND.....	1,591,202	1,653,666	1,545,832	1,564,166

(In thousands of dollars)

	Budget	House	Senate	Recommendation
-----				
CHEMICAL/BIOLOGICAL DEFENSE				
92 INSTALLATION FORCE PROTECTION.....	65,590	65,590	65,590	85,590
93 INDIVIDUAL PROTECTION.....	92,004	92,004	92,004	92,004
94 DECONTAMINATION.....	22,008	22,008	27,608	26,488
95 JOINT BIOLOGICAL DEFENSE PROGRAM.....	12,740	12,740	12,740	12,740
96 COLLECTIVE PROTECTION.....	27,938	27,938	32,938	32,938
97 CONTAMINATION AVOIDANCE.....	151,765	151,765	127,115	127,115
-----				
TOTAL, CHEMICAL/BIOLOGICAL DEFENSE.....	372,045	372,045	357,995	356,875
999 CLASSIFIED PROGRAMS.....	824,339	814,339	824,339	880,965
-----				
TOTAL, PROCUREMENT, DEFENSE-WIDE.....	3,984,352	4,036,816	4,017,697	4,050,537
=====				

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

P-1		Budget Request	House	Senate	Recommendation
18	INFORMATION SYSTEMS SECURITY	13,449	13,449	10,449	10,449
	Contract delays			-3,000	-3,000
26	JOINT COMMAND AND CONTROL PROGRAM	2,835	2,835	0	0
	NECC program adjustment			-2,835	-2,835
36	SM-3	168,723	168,723	226,323	226,323
	Addition of six SM-3 Block 1A missiles			57,600	57,600
36a	ADVANCED PROCUREMENT FUNDING FOR TPY-2 RADARS			41,000	0
51	SOF ROTARY WING UPGRADES AND SUSTAINMENT	101,938	90,936	101,936	90,936
	SIRFC execution		-11,000		-11,000
52	MH-47 SERVICE LIFE EXTENSION PROGRAM	22,958	22,958	28,858	28,858
	Program shortfall transferred from OCO line number 52			5,900	5,900
54	NON-STANDARD AVIATION	227,552	197,552	152,552	177,552
	Procurement schedule		-30,000		-50,000
	Medium non-standard aircraft			-75,000	0
63	C-130 MODIFICATIONS	59,950	145,950	54,816	59,650
	MC-130W Dragon Spear Modifications		85,000		0
	Intelligence Broadcast Receiver for AFSOC MC-130		1,000		800
	Carryover of fiscal year 2008 funds for center wing box replacement			-5,134	-1,100
65	ADVANCED SEAL DELIVERY SYSTEM (ASDS)	5,236	0	0	0
	SECDEF Program Termination		-5,236	-5,236	-5,236
71	SMALL ARMS & WEAPONS	35,235	40,235	35,635	41,635
	SOPMOD II (M4 Carbine Rail System)		2,500		2,000
	Special Operations Forces Combat Assault Rifle		2,500		2,000
	Contracting delays			-9,000	-7,000
	MK47 Mod 0 Advanced Lightweight Grenade Launcher			6,000	6,000
	M4 Weapons Shot Counter			3,400	3,400
74	SOF COMBATANT CRAFT SYSTEMS	6,156	6,156	16,156	11,156
	Special Operations Craft - Riverine			10,000	5,000
76	TACTICAL VEHICLES	18,821	20,821	15,821	19,421
	Light Mobility Vehicle - Internally Transportable Vehicle		2,000		1,600
	Contract delays			-3,000	-1,000
77	MISSION TRAINING AND PREPARATIONS SYSTEMS	17,265	17,265	21,265	20,865
	Special Operations Live Rehearsal System			2,000	1,600
	Small Arms Training Ranges			2,000	2,000
81	SOF AUTOMATION SYSTEMS	60,836	49,136	60,836	55,136
	Distributive Data Center		-11,700		-5,700
83	SOF OPERATIONAL ENHANCEMENTS INTELLIGENCE	26,070	26,070	31,270	26,070
	Mission Helmet Recording System (Transferred to line number 80)			5,200	0

P-1	Budget Request	House	Senate	Recommendation
<b>SOF VISUAL AUGMENTATION, LASERS AND SENSOR</b>				
<b>85 SYSTEMS</b>	<b>33,741</b>	<b>33,741</b>	<b>43,741</b>	<b>39,341</b>
Fusion Goggle System (Transferred to line number 90)			3,000	0
Overt Small Laser Marker			2,000	1,600
SOVAS-Hand Held Imager/Long Range			5,000	4,000
<b>86 SOF TACTICAL RADIO SYSTEMS</b>	<b>53,034</b>	<b>60,034</b>	<b>57,034</b>	<b>57,034</b>
AN/PRC-148 MBITR/JTRS Enhanced MBITR		10,000	4,000	4,000
Next Generation Communication System		-3,000		0
<b>87 SOF MARITIME EQUIPMENT</b>	<b>2,777</b>	<b>5,277</b>	<b>2,777</b>	<b>2,777</b>
NSW Protective Combat Uniform (Transferred to O&M Defense-Wide)		2,500		0
<b>89 MISCELLANEOUS EQUIPMENT</b>	<b>7,576</b>	<b>9,576</b>	<b>7,576</b>	<b>9,176</b>
Expansion of the Forensic Intelligence Technologies and Training Support Center of Excellence		2,000		1,600
<b>90 SOF OPERATIONAL ENHANCEMENTS</b>	<b>273,998</b>	<b>280,898</b>	<b>277,498</b>	<b>286,498</b>
Program Increase - Unfunded Requirement - Processing, Exploiting, and Dissemination Enhanced Capability		6,900		2,500
Special Operations High Performance In-Line Sniper Scope			3,500	2,400
Mission Helmet Recording System (Transferred from line number 83)				5,200
Fusion Goggle System (Transferred from line number 85)				2,400
<b>91 PSYOP EQUIPMENT</b>	<b>43,081</b>	<b>52,081</b>	<b>43,081</b>	<b>43,081</b>
Program Increase - Airborne Psyop Equipment		9,000		0
<b>94 DECONTAMINATION</b>	<b>22,008</b>	<b>22,008</b>	<b>27,608</b>	<b>26,488</b>
Reactive Skin Decontamination Lotion			5,600	4,480
<b>96 COLLECTIVE PROTECTION</b>	<b>27,938</b>	<b>27,938</b>	<b>27,938</b>	<b>32,938</b>
Chemical and Biological Protective Shelter			5,000	5,000
<b>97 CONTAMINATION AVOIDANCE</b>	<b>151,765</b>	<b>151,765</b>	<b>127,115</b>	<b>127,115</b>
JBPDS excessive engineering change orders			-3,000	-3,000
JNBCRS contract delays			-21,650	-21,650
<b>999 CLASSIFIED PROGRAMS</b>	<b>824,339</b>	<b>814,339</b>	<b>824,339</b>	<b>880,965</b>
Classified Adjustments		-10,000		56,626

COMBAT MISSION REQUIREMENTS

The Commander, Special Operations Command, is directed to submit quarterly reports to the congressional defense committees on the use of funds provided in this title for Special Operations Command combat mission requirements.

## NATIONAL GUARD AND RESERVE EQUIPMENT

Funding for National Guard and Reserve Equipment is addressed in  
Title IX of this Act.

(In thousands of dollars)

	Budget	House	Senate	Recommendation	
<b>NATIONAL GUARD &amp; RESERVE EQUIPMENT</b>					
<b>RESERVE EQUIPMENT</b>					
<b>ARMY RESERVE</b>					
1	MISCELLANEOUS EQUIPMENT.....	---	---	135,000	---
<b>NAVY RESERVE</b>					
2	MISCELLANEOUS EQUIPMENT.....	---	---	70,000	---
<b>MARINE CORPS RESERVE</b>					
3	MISCELLANEOUS EQUIPMENT.....	---	---	50,000	---
<b>AIR FORCE RESERVE</b>					
4	MISCELLANEOUS EQUIPMENT.....	---	---	70,000	---
<b>TOTAL, RESERVE EQUIPMENT.....</b>					
		---	---	<b>325,000</b>	---
<b>NATIONAL GUARD EQUIPMENT</b>					
<b>ARMY NATIONAL GUARD</b>					
5	MISCELLANEOUS EQUIPMENT.....	---	---	1,000,000	---
<b>AIR NATIONAL GUARD</b>					
6	MISCELLANEOUS EQUIPMENT.....	---	---	175,000	---
<b>TOTAL, NATIONAL GUARD EQUIPMENT.....</b>					
		---	---	<b>1,175,000</b>	---
<b>TOTAL, NATIONAL GUARD &amp; RESERVE EQUIPMENT.....</b>					
		---	---	<b>1,500,000</b>	---

## DEFENSE PRODUCTION ACT PURCHASES

For Defense Production Act Purchases, \$150,746,000 is available for  
fiscal year 2010, as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
(in thousands of dollars)

	Budget Request	House	Senate	Recommendation
BERYLLIUM SUPPLY INDUSTRIAL BASE	19,500	19,500	19,500	19,500
GALLIUM NITRIDE X-BAND MONOLITHIC MICROWAVE INTEGRATED CIRCUITS	2,500	2,500	2,500	2,500
GALLIUM NITRIDE ELECTRONIC WARFARE	120	120	120	120
POWER AND ENERGY SYSTEMS PRODUCTION INITIATIVE	9,086	9,086	9,086	9,086
RADIATION HARDENED MICROELECTRONICS MODERNIZATION	3,000	3,000	3,000	3,000
LITHIUM ION (LI ION) BATTERY PRODUCTION	4,040	6,040	54,040	31,040
Program Increase - Lithium Ion Battery Production		2,000	50,000	27,000
ALUMINUM OXY-NITRIDE AND SPINEL OPTICAL CERAMICS		3,000		2,400
ARMOR AND STRUCTURES TRANSFORMATION INITIATIVE - STEEL TO TITANIUM		8,100		8,100
FLEXIBLE AEROGEL MATERIALS SUPPLIER INITIATIVE		2,000	3,000	2,400
HIGH PERFORMANCE THERMAL BATTERY INFRASTRUCTURE PROJECT		3,000		3,000
INVENTORY FOR DEFENSE APPLICATIONS TO ENSURE RELIABILITY OF SHORT LEAD TIMES		10,000		10,000
LOW COST MILITARY GLOBAL POSITIONING SYSTEM (GPS) RECEIVER		4,000		3,200
METAL INJECTION MOLDING TECHNOLOGICAL IMPROVEMENTS		1,000		800
MILITARY LENS FABRICATION AND ASSEMBLY		4,000		3,200

	Budget Request	House	Senate	Recommendation
NAVY PRODUCTION CAPACITY IMPROVEMENT PROJECT	1,000	4,000		3,200
PRODUCTION OF MINIATURE COMPRESSORS FOR ELECTRONICS AND PERSONAL COOLING	4,500			3,600
RADIATION HARDENED CRYOGENIC READ OUT INTEGRATED CIRCUITS	2,000			1,600
ADVANCED CARBON NANOTUBE VOLUME PRODUCTION FACILITY			3,000	2,400
AUTOMATED COMPOSITE TECHNOLOGIES AND MANUFACTURING CENTER			12,000	9,600
BIO-SYNTHETIC PARAFFINIC KEROSENE PRODUCTION			5,000	4,000
CONDUCTIVE COMPOSITES NANO-MATERIALS SCALE-UP INITIATIVE			3,500	2,800
EXTREMELY LARGE, DOMESTIC EXPENDABLE AND REUSABLE STRUCTURES MANUFACTURING CENTER			9,800	7,840
GOODRICH TERAHERTZ SPECTROMETER			5,000	4,000
HIGH HOMOGENEITY OPTICAL GLASS			4,000	3,200
LIGHTWEIGHT SMALL CALIBER AMMUNITION PRODUCTION INITIATIVE			4,200	3,760
TITANIUM METAL MATRIX COMPOSITE AND NANO- ENHANCED TITANIUM DEVELOPMENT			8,000	6,400
<b>TOTAL DPA</b>	<b>38,246</b>	<b>82,846</b>	<b>149,746</b>	<b>150,746</b>

**TITLE IV - RESEARCH, DEVELOPMENT, TEST AND  
EVALUATION**

For Research, Development, Test and Evaluation, funds are to be  
available for fiscal year 2010, as follows:

(In thousands of dollars)

	Budget	House	Senate	Recommendation
RECAPITULATION				
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY.....	10,436,218	11,151,884	10,653,126	11,474,180
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY.....	19,270,932	20,197,300	19,148,509	20,003,463
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FORCE.	27,992,827	27,976,278	26,049,015	26,121,985
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, DEFENSE-WIDE.....	20,741,542	20,721,723	20,408,968	20,747,081
OPERATIONAL TEST AND EVALUATION, DEFENSE.....	190,770	190,770	190,770	190,770
GRAND TOTAL, RDT&E.....	78,634,289	80,237,955	78,450,388	80,537,479

## JOINT LIGHT TACTICAL VEHICLE

The budget request includes a total of \$90,099,000 to continue technology development for the Joint Light Tactical Vehicle (JLTV). The acquisition strategy involves competitive prototyping of vehicles from three contractors, followed by a down-select to two vehicles in fiscal year 2011 to proceed into the engineering and manufacturing development phase of the program. The recommendation fully supports this development strategy, which shares a number of elements of the reforms that have been written into law by the Weapon Systems Acquisition Reform Act of 2009. However, the program has yet to demonstrate itself as a model for a successful development program despite the reformed acquisition strategy. The funding profile has not changed despite a four month delay in initiating the program. Deficiencies in billings have resulted in the program falling far behind the financial benchmarks established by the Department of Defense. Program management has been complicated due to the different funding strategies pursued by the Army and the Marine Corps. There is great concern that of the \$217,255,000 Congress has approved for JLTV since fiscal year 2007, only \$53,128,000 had been expended through the end of fiscal year 2009. Despite these challenges, information has been provided that the program is proceeding in accordance with its revised schedule, billing errors are being addressed, budget execution is being corrected and prior year funding will be exhausted in 2010. Based upon these assurances, the recommendation contains full funding for the budget request. Careful oversight of program execution and military requirements will continue to ensure the commitment of the Army and Marine Corps to the success of the program.

## EJECTION SEATS

The US16E ejection seat was competitively selected as the ejection seat for the F-35 Joint Strike Fighter. The progress made on this ejection seat is encouraging and the program of record is fully supported.

## ENERGETICS

House language noted that the efforts of the military Services as coordinated through the Office of the Secretary of Defense, with the Department of Energy, have led to steady progress in the last decade in advancing the science of energetics and revitalizing the research and development workforce.

However, a report on energetics in the Department of Defense, as directed in House Report 110-652, and which was to be provided to the congressional defense committees not later than March 1, 2009, was completed June 2009, and was finally delivered September 2, 2009.

House language recommended that the Department of Defense capitalize on best practices within the individual Services to advance the state of the energetics field, and directed that no funds be expended for the creation of a new Executive Agent or Executive Director for Advanced Energetics. The Senate included no similar language.

The recommendation includes no language regarding the use of funds for the creation of a new Executive Agent or Executive Director for Advanced Energetics and directs instead that the Secretary of Defense shall provide a report to the congressional defense committees not later than October 1, 2010, on progress being made on the findings and actions in the June 2009 report.

#### DOMESTIC ENERGY PRODUCTION

There is concern that a plan has not been presented to fund continued development and risk mitigation of domestic gas centrifuge enrichment technology during fiscal year 2010. Despite that, there is support for efforts to develop domestic gas centrifuge enrichment technology so that it can move to commercial scale uranium enrichment operations and potentially serve as a domestic source of fuel for nuclear power and the enrichment requirements of the defense community. Therefore, the Secretary of Defense, in consultation with the Department of Energy, is urged to explore utilizing all possible existing statutory authority to fund this important activity and to report to the Committees on Appropriations of both the House and Senate no later than 30 days following enactment of this Act regarding funding options.

#### SPECIAL INTEREST ITEMS

Items for which additional funds have been provided as shown in the project level tables or in paragraphs using the phrase “only for” or “only to” are congressional interest items for purposes of the Base for Reprogramming Department of Defense form (DD Form 1414). Each of these items must be carried on the DD Form 1414 at the stated amount, as specifically addressed in these materials.

#### REPROGRAMMING GUIDANCE FOR ACQUISITION ACCOUNTS

It is the intent of Congress that the program baseline for reprogramming funds reflects all approved adjustment actions: the initial appropriation as well as any rescissions, supplemental appropriations and approved Department of Defense 1415 reprogrammings. The Secretary of Defense is directed to ensure that financial management regulations incorporate approved reprogramming actions as an adjustment to the base for reprogramming value.

The Department of Defense is directed to continue to follow the reprogramming guidance specified in the report accompanying the House version of the fiscal year 2006 Department of Defense Appropriations Act (H.R. 109–119). Specifically, the dollar threshold for reprogramming funds will remain at \$20,000,000 for procurement and \$10,000,000 for research, development, test, and evaluation. The Department shall continue to follow the limitation that prior approval reprogrammings are set at either the specified dollar threshold or 20 percent of the procurement or research, development, test and evaluation line, whichever is less. The percentage change limitation applies to both program increases and decreases. Additionally, this percentage change applies to the program base value at the time the below threshold movement of funds is executed. These thresholds are cumulative from the base for re-

programming value as modified by any adjustment action. Therefore, if the combined value of transfers into or out of a procurement (P-1) or research, development, test, and evaluation (R-1) line exceeds the identified threshold, the Department of Defense must submit a prior approval reprogramming request to the congressional defense committees. In addition, guidelines on the application of prior approval reprogramming procedures for congressional special interest items are established elsewhere in this report. This guidance is effective for fiscal year 2010 and forward.

#### REPROGRAMMING REPORTING REQUIREMENTS

The Under Secretary of Defense (Comptroller) is directed to continue to provide the congressional defense committees quarterly, spreadsheet-based DD 1416 reports for service and defense-wide accounts in titles III and IV of this Act as required in the statement of the managers accompanying the conference report on the Department of Defense Appropriations Act, 2006.

#### FUNDING INCREASES

The funding increases outlined in these tables shall be provided only for the specific purposes indicated in the table.

## RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY

For Research, Development, Test and Evaluation, Army, funds are to  
be available for fiscal year 2010, as follows:

(In thousands of dollars)

	Budget	House	Senate	Recommendation
RESEARCH, DEVELOPMENT, TEST & EVAL, ARMY				
BASIC RESEARCH				
1 IN-HOUSE LABORATORY INDEPENDENT RESEARCH.....	19,671	19,671	19,671	19,671
2 DEFENSE RESEARCH SCIENCES.....	173,024	196,074	163,324	196,504
3 UNIVERSITY RESEARCH INITIATIVES.....	88,421	110,421	87,921	99,921
4 UNIVERSITY AND INDUSTRY RESEARCH CENTERS.....	96,144	114,844	103,144	115,844
TOTAL, BASIC RESEARCH.....	377,260	441,010	384,060	434,040
APPLIED RESEARCH				
5 MATERIALS TECHNOLOGY.....	27,206	68,256	81,806	99,966
6 SENSORS AND ELECTRONIC SURVIVABILITY.....	50,641	67,641	58,641	70,641
7 TRACTOR HIP.....	14,324	14,324	14,324	14,324
8 AVIATION TECHNOLOGY.....	41,332	50,832	44,332	49,532
9 ELECTRONIC WARFARE TECHNOLOGY.....	16,119	24,119	16,119	22,419
10 MISSILE TECHNOLOGY.....	50,716	64,816	65,716	71,296
11 ADVANCED WEAPONS TECHNOLOGY.....	19,678	22,678	19,678	22,078
12 ADVANCED CONCEPTS AND SIMULATION.....	17,473	26,973	23,473	27,473
13 COMBAT VEHICLE AND AUTOMOTIVE TECHNOLOGY.....	55,937	74,437	66,437	79,337
14 BALLISTICS TECHNOLOGY.....	61,843	79,843	64,843	78,443
15 CHEMICAL, SMOKE AND EQUIPMENT DEFEATING TECHNOLOGY....	5,293	13,293	7,293	13,693
16 JOINT SERVICE SMALL ARMS PROGRAM.....	7,674	7,674	7,674	7,674
17 WEAPONS AND MUNITIONS TECHNOLOGY.....	41,065	124,565	88,965	145,625
18 ELECTRONICS AND ELECTRONIC DEVICES.....	61,404	115,454	107,204	135,234
19 NIGHT VISION TECHNOLOGY.....	26,893	48,893	35,893	51,143
20 COUNTERMINE SYSTEMS.....	18,945	20,945	22,945	23,745
21 HUMAN FACTORS ENGINEERING TECHNOLOGY.....	18,605	33,605	18,605	30,605
22 ENVIRONMENTAL QUALITY TECHNOLOGY.....	15,902	19,402	23,402	25,602
23 COMMAND, CONTROL, COMMUNICATIONS TECHNOLOGY.....	24,833	31,533	24,833	30,193
24 COMPUTER AND SOFTWARE TECHNOLOGY.....	5,639	5,639	5,639	5,639
25 MILITARY ENGINEERING TECHNOLOGY.....	54,818	61,918	57,818	61,098
26 MANPOWER/PERSONNEL/TRAINING TECHNOLOGY.....	18,701	18,701	18,701	16,701

(In thousands of dollars)

	Budget	House	Senate	Recommendation
27 WARFIGHTER TECHNOLOGY.....	27,109	31,909	38,109	38,549
28 MEDICAL TECHNOLOGY.....	99,027	195,942	165,387	223,107
TOTAL, APPLIED RESEARCH.....	781,197	1,223,412	1,075,857	1,344,117
ADVANCED TECHNOLOGY DEVELOPMENT				
29 WARFIGHTER ADVANCED TECHNOLOGY.....	37,574	54,524	41,874	54,574
30 MEDICAL ADVANCED TECHNOLOGY.....	72,940	301,866	196,040	341,531
31 AVIATION ADVANCED TECHNOLOGY.....	60,097	87,097	104,697	112,977
32 WEAPONS AND MUNITIONS ADVANCED TECHNOLOGY.....	66,410	89,910	71,210	90,330
33 COMBAT VEHICLE AND AUTOMOTIVE ADVANCED TECHNOLOGY.....	89,586	162,186	182,886	241,446
34 COMMAND, CONTROL, COMMUNICATIONS ADVANCED TECHNOLOGY..	8,667	13,667	8,667	12,417
35 MANPOWER, PERSONNEL AND TRAINING ADVANCED TECHNOLOGY..	7,410	7,410	7,410	7,410
36 ELECTRONIC WARFARE ADVANCED TECHNOLOGY.....	50,458	57,258	58,458	57,498
37 TRACTOR HIKE.....	11,328	11,328	11,328	11,328
38 NEXT GENERATION TRAINING & SIMULATION SYSTEMS.....	19,415	23,915	22,415	25,495
39 TRACTOR ROSE.....	14,569	14,569	14,569	14,569
40 EXPLOSIVES DEHILITARIZATION TECHNOLOGY.....	---	3,500	12,200	12,560
41 MILITARY HIV RESEARCH.....	6,657	29,657	6,657	29,657
42 COMBATING TERRORISM, TECHNOLOGY DEVELOPMENT.....	11,989	11,989	36,989	11,989
43 ELECTRONIC WARFARE TECHNOLOGY.....	19,192	22,692	19,192	21,992
44 MISSILE AND ROCKET ADVANCED TECHNOLOGY.....	63,951	75,751	79,451	87,011
45 TRACTOR CAGE.....	12,154	12,154	12,154	12,154
46 LANDMINE WARFARE AND BARRIER ADVANCED TECHNOLOGY.....	30,317	30,317	36,217	35,037
47 JOINT SERVICE SMALL ARMS PROGRAM.....	8,996	8,996	8,996	8,996
48 NIGHT VISION ADVANCED TECHNOLOGY.....	40,329	64,829	57,329	72,629
49 ENVIRONMENTAL QUALITY TECHNOLOGY DEMONSTRATIONS.....	15,706	15,706	16,206	16,206
50 MILITARY ENGINEERING ADVANCED TECHNOLOGY.....	5,911	45,461	17,511	45,631
51 ADVANCED TACTICAL COMPUTER SCIENCE & SENSOR TECHNOLOGY	41,561	60,061	47,061	57,361
TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	695,217	1,204,843	1,069,517	1,380,798

(In thousands of dollars)

	Budget	House	Senate	Recommendation
DEMONSTRATION & VALIDATION				
52 UNIQUE ITEM IDENTIFICATION (UID).....	---	2,500	---	2,000
53 ARMY MISSILE DEFENSE SYSTEMS INTEGRATION.....	14,683	31,683	74,783	72,163
54 ARMY MISSILE DEFENSE SYSTEMS INTEGRATION (SPACE).....	117,471	120,471	118,671	119,231
55 AIR AND MISSILE DEFENSE SYSTEMS ENGINEERING.....	209,531	110,531	211,531	166,931
57 LANDMINE WARFARE AND BARRIER - ADV DEV.....	17,536	17,536	17,536	17,536
58 SMOKE, OBSCURANT AND TARGET DEFEATING SYS-ADV DEV.....	4,920	4,920	4,920	4,920
59 TANK AND MEDIUM CALIBER AMMUNITION.....	33,934	33,934	33,934	33,934
60 ADVANCED TANK ARMAMENT SYSTEM (ATAS).....	90,299	90,299	90,299	90,299
61 SOLDIER SUPPORT AND SURVIVABILITY.....	31,752	31,752	33,752	33,352
62 TACTICAL ELECTRONIC SURVEILLANCE SYSTEM - AD.....	18,228	18,228	12,228	12,228
64 ENVIRONMENTAL QUALITY TECHNOLOGY.....	4,770	19,770	6,770	18,470
65 WARFIGHTER INFORMATION NETWORK-TACTICAL.....	180,673	165,673	180,673	170,673
66 NATO RESEARCH AND DEVELOPMENT.....	5,048	5,048	5,048	5,048
67 AVIATION - ADV DEV.....	8,537	8,537	8,537	8,537
68 LOGISTICS AND ENGINEER EQUIPMENT - ADV DEV.....	56,373	57,373	49,873	59,973
69 COMBAT SERVICE SUPPORT CONTROL SYSTEM EVALUATION.....	9,868	9,868	9,868	9,868
70 MEDICAL SYSTEMS - ADV DEV.....	31,275	37,275	33,275	36,075
71 SOLDIER SYSTEMS - ADVANCED DEVELOPMENT.....	71,832	71,007	71,832	74,172
72 INTEGRATED BROADCAST SERVICE.....	1,476	1,476	1,476	1,476
TOTAL, DEMONSTRATION & VALIDATION.....	908,206	837,881	965,006	936,886

(In thousands of dollars)

	Budget	House	Senate	Recommendation
ENGINEERING & MANUFACTURING DEVELOPMENT				
73 AIRCRAFT AVIONICS.....	92,977	88,977	92,977	89,977
74 ARMED, DEPLOYABLE OH-58D.....	65,515	70,515	61,236	66,515
75 ELECTRONIC WARFARE DEVELOPMENT.....	248,463	248,463	197,463	202,063
76 ALL SOURCE ANALYSIS SYSTEM.....	13,107	13,107	13,107	13,107
77 TRACTOR CAGE.....	16,286	16,286	16,286	16,286
78 INFANTRY SUPPORT WEAPONS.....	74,814	76,814	82,814	83,814
79 MEDIUM TACTICAL VEHICLES.....	5,683	5,683	5,683	5,683
80 SMOKE, OBSCURANT AND TARGET DEFEATING SYS-SDD.....	978	978	978	978
81 FAMILY OF HEAVY TACTICAL VEHICLES.....	7,477	10,477	7,477	9,877
82 AIR TRAFFIC CONTROL.....	7,578	7,578	7,578	7,578
83 NON-LIGHT OF SIGHT LAUNCH SYSTEM.....	88,660	88,660	92,460	91,700
84 NON-LINE OF SIGHT CANNON.....	58,216	31,216	58,216	48,216
85 FCS MANNED GRD VEHICLES & COMMON GRD VEHICLE.....	368,557	184,557	368,557	276,557
86 FCS SYSTEMS OF SYSTEMS ENGR & PROGRAM MGMT.....	1,067,191	1,067,191	868,191	917,191
87 FCS RECONNAISSANCE (UAV) PLATFORMS.....	68,701	68,701	78,001	75,501
88 FCS UNMANNED GROUND VEHICLES.....	125,616	125,616	125,616	125,616
89 FCS UNATTENDED GROUND SENSORS.....	26,919	26,919	26,919	26,919
90 FCS SUSTAINMENT & TRAINING R&D.....	749,182	749,182	567,182	659,182
92 NIGHT VISION SYSTEMS - SDD.....	55,410	57,910	55,410	57,410
93 COMBAT FEEDING, CLOTHING, AND EQUIPMENT.....	2,092	2,092	2,092	2,092
94 NON-SYSTEM TRAINING DEVICES - SDD.....	30,209	30,209	30,209	30,209
95 AIR DEFENSE COMMAND, CONTROL AND INTELLIGENCE -SDD....	28,936	28,936	28,936	28,936
96 CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT.....	33,213	33,213	33,213	33,213
97 AUTOMATIC TEST EQUIPMENT DEVELOPMENT.....	15,320	15,320	15,320	15,320
98 DISTRIBUTIVE INTERACTIVE SIMULATIONS (DIS) - SDD.....	15,727	15,727	15,727	15,727
99 POSITIONING SYSTEMS DEVELOPMENT (SPACE).....	9,446	9,446	9,446	9,446
100 COMBINED ARMS TACTICAL TRAINER (CATT) CORE.....	26,243	26,243	26,243	26,243
102 WEAPONS AND MUNITIONS - SDD.....	34,878	44,378	69,878	87,478
103 LOGISTICS AND ENGINEER EQUIPMENT - SDD.....	36,018	37,518	36,018	37,218

(In thousands of dollars)

	Budget	House	Senate	Recommendation
104 COMMAND, CONTROL, COMMUNICATIONS SYSTEMS - SDD.....	88,995	88,995	43,995	58,995
105 MEDICAL MATERIEL/MEDICAL BIOLOGICAL DEFENSE EQUIPMENT.	33,893	40,293	37,393	42,013
106 LANDMINE WARFARE/BARRIER - SDD.....	82,260	60,960	82,260	72,780
107 ARTILLERY MUNITIONS.....	42,452	42,452	42,452	42,452
108 COMBAT IDENTIFICATION.....	20,070	20,070	10,070	10,070
109 ARMY TACTICAL COMMAND & CONTROL HARDWARE & SOFTWARE...	90,864	85,364	78,072	79,864
111 GENERAL FUND ENTERPRISE BUSINESS SYSTEM (GFEB).....	6,002	6,002	6,002	23,902
112 FIREFINDER.....	20,333	20,333	20,333	20,333
113 SOLDIER SYSTEMS - WARRIOR DEV/VAL.....	19,786	19,786	19,786	19,786
114 ARTILLERY SYSTEMS.....	23,318	34,318	114,818	116,418
115 PATRIOT/HEADS COMBINED AGGREGATE PROGRAM (CAP).....	569,182	569,182	569,182	569,182
116 NUCLEAR ARMS CONTROL MONITORING SENSOR NETWORK.....	7,140	7,140	7,140	7,140
117 INFORMATION TECHNOLOGY DEVELOPMENT.....	35,309	35,309	67,109	66,909
118 JOINT AIR-TO-GROUND MISSILE (JAGH).....	127,439	127,439	127,439	127,439
119 MANNED GROUND VEHICLE.....	100,000	50,000	100,000	80,000
TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT.....	4,640,455	4,389,555	4,319,284	4,397,115
RT&E MANAGEMENT SUPPORT				
120 THREAT SIMULATOR DEVELOPMENT.....	22,222	30,222	22,222	25,222
121 TARGET SYSTEMS DEVELOPMENT.....	13,615	13,615	13,615	13,615
122 MAJOR T&E INVESTMENT.....	51,846	51,846	51,846	51,846
123 RAND ARROYO CENTER.....	16,305	16,305	18,305	17,905
124 ARMY KWAJALEIN ATOLL.....	163,514	163,514	163,514	163,514
125 CONCEPTS EXPERIMENTATION PROGRAM.....	23,445	23,445	26,945	26,545
127 ARMY TEST RANGES AND FACILITIES.....	354,693	354,693	354,693	354,693
128 ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS.....	72,911	75,111	86,611	84,831
129 SURVIVABILITY/LETHALITY ANALYSIS.....	45,016	45,016	45,016	45,016
130 DOD HIGH ENERGY LASER TEST FACILITY.....	2,891	2,891	8,891	7,391
131 AIRCRAFT CERTIFICATION.....	3,766	3,766	3,766	3,766
132 METEOROLOGICAL SUPPORT TO RT&E ACTIVITIES.....	8,391	8,391	8,391	8,391
133 MATERIEL SYSTEMS ANALYSIS.....	19,969	19,969	19,969	19,969

(In thousands of dollars)

	Budget	House	Senate	Recommendation
134 EXPLOITATION OF FOREIGN ITEMS.....	5,432	5,432	5,432	5,432
135 SUPPORT OF OPERATIONAL TESTING.....	77,877	77,877	77,877	77,877
136 ARMY EVALUATION CENTER.....	66,309	68,309	66,309	67,909
137 SIMULATION & MODELING FOR ACQ, RQTS, & TNG (SMART)....	5,357	5,357	5,357	5,357
138 PROGRAMWIDE ACTIVITIES.....	77,823	77,823	77,823	77,823
139 TECHNICAL INFORMATION ACTIVITIES.....	51,620	51,620	51,620	51,620
140 MUNITIONS STANDARDIZATION, EFFECTIVENESS AND SAFETY...	45,053	70,653	56,153	73,233
141 ENVIRONMENTAL QUALITY TECHNOLOGY MGMT SUPPORT.....	5,191	5,191	5,191	5,191
142 MANAGEMENT HEADQUARTERS (RESEARCH AND DEVELOPMENT)....	15,866	15,866	15,866	15,866
TOTAL, RDT&E MANAGEMENT SUPPORT.....	1,149,112	1,186,912	1,185,412	1,203,012
OPERATIONAL SYSTEMS DEVELOPMENT				
144 MLRS PRODUCT IMPROVEMENT PROGRAM.....	27,693	27,693	27,693	27,693
146 AEROSTAT JOINT PROJECT OFFICE.....	360,076	288,076	360,076	330,076
147 ADV FIELD ARTILLERY TACTICAL DATA SYSTEM.....	23,727	30,727	23,727	29,327
148 COMBAT VEHICLE IMPROVEMENT PROGRAMS.....	190,301	192,301	197,201	197,421
149 MANEUVER CONTROL SYSTEM.....	21,394	21,394	21,394	21,394
150 AIRCRAFT MODIFICATIONS/PRODUCT IMPROVEMENT PROGRAMS...	209,401	209,401	214,817	214,107
151 AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM.....	792	792	792	792
152 DIGITIZATION.....	10,692	10,692	10,692	10,692
154 MISSILE/AIR DEFENSE PRODUCT IMPROVEMENT PROGRAM.....	39,273	39,273	39,273	39,273
155 OTHER MISSILE PRODUCT IMPROVEMENT PROGRAMS.....	---	5,000	---	4,000
156 TRACTOR CARD.....	20,035	20,035	20,035	20,035
158 JOINT TACTICAL GROUND SYSTEM.....	13,258	13,258	13,258	13,258
159 JOINT HIGH SPEED VESSEL (JHSV).....	3,082	3,082	3,082	3,082
161 SECURITY AND INTELLIGENCE ACTIVITIES.....	2,144	2,144	2,144	2,144
162 INFORMATION SYSTEMS SECURITY PROGRAM.....	74,355	74,355	61,455	58,955
163 GLOBAL COMBAT SUPPORT SYSTEM.....	144,733	144,733	144,733	144,733
164 SATCOM GROUND ENVIRONMENT (SPACE).....	40,097	40,097	40,097	40,097
165 WMCCS/GLOBAL COMMAND AND CONTROL SYSTEM.....	12,034	12,034	12,034	12,034

(In thousands of dollars)

	Budget	House	Senate	Recommendation
166 JOINT COMMAND AND CONTROL PROGRAM (JC2).....	20,365	20,365	---	---
167 TACTICAL UNMANNED AERIAL VEHICLES.....	202,521	172,521	172,124	173,521
168 DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS.....	188,414	188,414	189,714	189,454
170 AERIAL COMMON SENSOR (ACS).....	210,035	210,035	---	116,035
172 END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES.....	68,466	94,466	85,766	103,406
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	1,882,888	1,820,888	1,640,107	1,751,529
999 CLASSIFIED PROGRAMS.....	3,883	47,383	3,883	26,683
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, ARMY.....	10,438,218	11,151,884	10,853,126	11,474,180

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[in thousands of dollars]

R-1	Budget Request	House	Senate	Recommendation
<b>2 DEFENSE RESEARCH SCIENCES</b>	<b>173,024</b>	<b>196,074</b>	<b>183,324</b>	<b>198,504</b>
Cyber Threat Analytics		3,000		2,400
Organic Semiconductor Modeling and Simulation		1,100		880
Perpetually Available and Secure Information Systems		4,000		3,200
Maine Center for Toxicology and Environmental Health, Toxic Particles Research and Equipment		2,000		1,600
Nanocrystal Source Display		950		760
Secure Open Source Initiative		3,000		2,400
Sustainable Alternative Energy		2,000		2,000
Lightweight Polymer Designs for Soldier Combat Optics		1,000		800
Combat Mental Health Initiative		2,000		1,600
Vision Integrating Strategies in Ophthalmology and Neurochemistry		4,000	2,000	3,200
Bioactive Polymers and Coating Systems for Protection Against Bio-Threats			4,500	3,600
High Frequency Devices and Circuits for Nanotubes and Nanowires			1,800	1,440
Integrated Flexible Electronics			2,000	1,600
<b>3 UNIVERSITY RESEARCH INITIATIVES</b>	<b>88,421</b>	<b>110,421</b>	<b>87,921</b>	<b>99,921</b>
Antennas for Unmanned Aerial Vehicles		1,000		1,000
Collaboration Skills Training for Time-Critical Teams, Squads and Workgroups		2,000		1,600
Construct Training Program		1,500	2,000	1,600
Cooperative Developmental Energy Program		2,000		1,600
Laboratory for Engineered Human Protection		2,000		1,600
Manufacturing Lab for Next Generation Engineers		2,000		1,600
Military Family Coping Patterns		500		400
National Biodefense Training Center (Transferred to line number 30)		5,000		0
Molecular Electronics for Flash Memory Production (Includes transfer from RDT&E, Navy line number 1)		2,000		2,400
Science, Technology, Engineering, Mathematics (STEM) at Coppin University		1,000		800
Battlefield Exercise and Combat Related Spinal Cord Injury Research		3,000		2,400
V72			-7,500	-7,500
Burn and Shock Trauma Institute			2,000	1,600
Hi-Tech Eyes for the Battlefield			2,000	1,600
Open Source Intelligence for Force Protection and Intelligence Analysis			1,000	800
<b>4 UNIVERSITY AND INDUSTRY RESEARCH CENTERS</b>	<b>96,144</b>	<b>114,844</b>	<b>103,144</b>	<b>115,944</b>
Advanced Polymer Systems for Defense Application - Power Generation, Protection and Sensing		3,000		2,400
Center for Hetero-Functional Materials		1,000		800
Center for Nanoscale Bio-Sensors as a Defense against Biological Threats		3,000	3,000	3,000
Development of Enabling Chemical Technologies for Power from Green Sources		1,500		1,200

R-1	Budget Request	House	Senate	Recommendation
	High Performance Computing in Biomedical Engineering and Health Sciences	1,500		1,200
	Intelligent Network-Centric Sensor Development Program	1,500		1,200
	Ink-Based Desktop Electronic Material Technology Manufacturing and Industrial Technology Center	2,000		1,600
	Materials Processing and Applications Development Center of Excellence for Industry	500		400
	DoD Diabetes Research and Development Initiative (DRDI)	1,500		1,200
	H50/J22 Network Science - fiscal year 2009 execution delays and excessive growth	3,200		2,560
	ARL-ONAMI Center for Nanoarchitectures for Enhanced Performance		-6,000	-6,000
	Academic Support and Research Compliance for Knowledge Gathering (Transferred from O&M, Army line number 323)		1,000	800
	Army Material Degradation		800	640
	MEMS Antenna for Wireless Communications Supporting UAVs in the Battlefield		3,000	2,400
	Nanotubes Optimized for Lightweight Exceptional Strength (NOLES)		4,000	3,200
	Visualization for Training and Simulation in Urban Terrains at Fort Knox		1,200	1,200
<b>5</b>	<b>MATERIALS TECHNOLOGY</b>	<b>27,206</b>	<b>68,266</b>	<b>81,806</b>
	Advanced Composite Research for Vehicles		5,000	4,000
	Advanced Conductivity Program		1,000	1,000
	Advanced Nanocomposite Materials for Lightweight Integrated Armor Systems		2,000	1,600
	Aluminum Armor Project		1,050	840
	Ballistic Armor Research		1,000	4,000
	Capabilities Expansion of Spinel Transparent Armor Manufacturing		2,000	1,600
	Composite Applied Research and Technology for FCS and Tactical Vehicle Survivability		1,500	4,000
	Development of Improved Lighter-Weight IED/EFP Armor Solutions		2,000	1,600
	Distributed, Networked, Unmanned Ground Systems		2,000	4,000
	Dual Stage Variable Energy Absorber		3,000	2,400
	Fused Silica for Large-Format Transparent Armor		4,000	3,200
	High Strength Glass Production and Qualification for Armor Applications		2,000	1,600
	Large-Scale Manufacturing of Revolutionary Nanostructured Materials		1,500	1,200
	Lightweight Metal Alloy Foam for Armor		4,000	3,200
	Modeling and Testing of Next Generation Body Armor		1,500	2,500
	Multi-Utility Materials for Future Combat Systems		1,000	9,000
	Nanomanufacturing of Multifunctional Sensors		2,000	4,000
	One-Step JP-8 Bio-Diesel Fuel		2,000	1,600
	Reactive Materials		1,500	1,200
	Ultra Light Metallic Armor		1,000	800
	Affordable Light-Weight Metal Matrix Composite (MMC) Armor		2,500	2,500

R-1	Budget Request	House	Senate	Recommendation	
				Development, Optimization, and Transfer of a Reliable Testing Technology for Materials Designed to Protect Warfighters Against Toxic Chemical Warfare Agents	
			600	480	
				Lattice Block Structures for AM2 Matting Replacement	
			2,000	1,600	
				Materials Technology for LED Lighting Applications	
			3,000	2,400	
				Moldable Fabric Armor (Includes transfer from RDT&E, Defense-Wide line number 18)	
			2,000	2,240	
				Nanoelectronic Memory, Sensor and Energy Devices	
			7,000	6,300	
				Next Generation High Strength Glass Fibers for Ballistic Armor Applications	
			2,000	1,600	
				Next Generation Lightweight Drive System for Army Weapons Systems	
			2,000	1,600	
				Renewable Jet Fuel from Lignocellulosic Feedstocks	
			3,000	2,400	
				Smart Integrated Systems: Materials, Manufacturing Methods, and Structures	
			1,000	1,000	
				Ultrasonic Impact Technology	
			2,000	2,000	
<b>6</b>	<b>SENSORS AND ELECTRONIC SURVIVABILITY</b>	<b>50,641</b>	<b>67,641</b>	<b>58,641</b>	<b>70,641</b>
				Advanced Bonded Diamond for Optical Applications	
			2,500	2,000	
				Advanced Communications for Mobile Networks	
			4,000	3,200	
				Advanced Composite Nickel-Manganese-Cobalt and other Lithium Ion Battery Technologies using Nano Crystal Scission Process	
			3,000	2,400	
				Advanced Detection of Explosives	
			2,000	1,600	
				Advanced Tactical Laser Flashlight	
			1,000	800	
				Next Generation Wearable Video Capture System	
			1,000	800	
				Surveillance Augmentation Vehicle	
			1,500	1,200	
				Terahertz Sensing and Imaging Technology	
			2,000	1,600	
				Advanced UV Light Diode Development	
			1,000	800	
				Diamond Lens Elements for High Powered Laser	
			1,000	800	
				Electronic Keel	
			2,000	1,600	
				Force Protection Radar for Forward Operating Bases	
			2,000	1,600	
				Nanophotonic Devices	
			2,000	1,600	
<b>8</b>	<b>AVIATION TECHNOLOGY</b>	<b>41,332</b>	<b>50,832</b>	<b>44,332</b>	<b>49,532</b>
				Composite Small Main Rotor Blades	
			3,000	3,000	
				Intensive Quenching for Advanced Weapon Systems	
			1,500	1,200	
				OMNI Active Vibration Control System	
			3,000	2,400	
				Technologies for Military Equipment Replenishment	
			2,000	1,600	
<b>9</b>	<b>ELECTRONIC WARFARE TECHNOLOGY</b>	<b>16,119</b>	<b>24,119</b>	<b>16,119</b>	<b>22,419</b>
				Short Wave Infrared Hostile Fire Indicator for Aircraft	
			2,000	1,500	
				Integrated Information Technology Policy Analysis Research and Technology Commercialization and Management Network	
			4,000	3,200	
				Silver Fox and Manta Unmanned Aerial Systems	
			2,000	1,600	
<b>10</b>	<b>MISSILE TECHNOLOGY</b>	<b>50,716</b>	<b>64,816</b>	<b>65,716</b>	<b>71,296</b>
				Electrically Charged Mesh Defense Net Troop Protection System	
			7,500	6,000	
				Mariah Hypersonic Wind Tunnel Development Program	
			4,000	7,600	
				Portable Sensor for Toxic Gas Detection	
			2,600	2,080	

R-1	Budget Request	House	Senate	Recommendation
	Novel Endothemic Armor Material for Insensitive Munitions Protection of Tactical Missiles and Tubes		2,500	2,500
	Swarms Defense System		3,000	2,400
<b>11</b>	<b>ADVANCED WEAPONS TECHNOLOGY</b>	<b>19,678</b>	<b>22,678</b>	<b>19,678</b>
	Integrated Family of Test Equipment V6 Product Improvement Program	3,000		2,400
<b>12</b>	<b>ADVANCED CONCEPTS AND SIMULATION</b>	<b>17,473</b>	<b>26,973</b>	<b>23,473</b>
	Advanced Live, Virtual, and Constructive Training Systems	3,500		2,800
	Cognitive Based Modeling and Simulation for Tactical Decision Support	2,000		1,600
	Compact Biothreat Rapid Analysis Concept	3,000	6,000	4,800
	Protective Gear Development through Man-In-Simulant-Test Chamber	1,000		800
<b>13</b>	<b>COMBAT VEHICLE AND AUTOMOTIVE TECHNOLOGY</b>	<b>55,937</b>	<b>74,437</b>	<b>66,437</b>
	Advanced Composite Materials Research for Land, Marine, and Air Vehicles	3,500		2,800
	Automotive Technology Tactical Metal Fabrication System	2,500		2,500
	Automotive Tribology Center	2,000		1,600
	Nanofluid Coolants	500	500	500
	Smart Oil Sensor	3,000		2,400
	Tactical Metal Fabrication System (TacFab)	1,000		800
	Turbo Fuel Cell Engine	4,000		3,200
	Ultra Light Weight Transmissions	2,000		1,600
	Vehicle Systems Engineering and Integration Activities		10,000	8,000
<b>14</b>	<b>BALLISTICS TECHNOLOGY</b>	<b>61,843</b>	<b>79,843</b>	<b>64,843</b>
	Advanced Composite Armor for Force Protection	2,000		1,600
	Beneficial Infrastructure for Rotorcraft Risk Reduction	1,000		800
	Direct Carbon Fuel Cell	3,500		2,800
	Enabling Optimization of Reactive Armor	3,000	3,000	3,000
	Eye-Safe Standoff Fusion Detection of CBE Threats	2,500		2,000
	Flexible Solar Cell for Man-portable Power Generator	1,000		800
	SHARK Precision Guided Artillery Round - 105mm	5,000		4,000
	EMG - lack of authorization		-2,000	0
	5.56mm Aluminum Cartridge Case		2,000	1,600
	<b>CHEMICAL, SMOKE AND EQUIPMENT DEFEATING TECHNOLOGY</b>	<b>5,293</b>	<b>13,293</b>	<b>7,293</b>
	Highlander Electro-Optical Sensors		2,000	1,600
	Locating and Tracking Explosive Threats with Wireless Sensors and Networks	6,000		4,800
	Missouri Multi-Threat Detection Initiative (M2TDI)		2,000	2,000
<b>17</b>	<b>WEAPONS AND MUNITIONS TECHNOLOGY</b>	<b>41,085</b>	<b>124,585</b>	<b>88,985</b>
	Advanced Rarefaction Weapon Engineered System	4,000		3,200
	Advanced Technology, Energy Manufacturing Sciences	7,000		7,000
	Air Drop Mortar Guided Munition for the Tactical UAV	3,000		2,400
	Armament System Engineering and Integration Initiative	2,000		1,600
	Armaments Academy	3,000		3,000

R-1	Budget Request	House	Senate	Recommendation
	Army Center of Excellence in Acoustics, National Center for Physical Acoustics	4,000	4,100	4,000
	Defense Support for Civil Authorities for Key Resource Protection	1,000		800
	Developmental Mission Integration	7,000		5,600
	Effects Based Operations Decision Support Services	2,000		1,600
	Green Armament and RangeSafe Technology Initiatives	2,000		1,600
	Highly Integrated Lethality Systems Development	4,000		4,000
	Highly Integrated Production for Expediting Reset	2,500		2,000
	Mortar Anti-Personnel/Anti-Materiel Technology	4,000		3,200
	Project National Shield Integration Center	1,500		1,200
	Rare Earth Mining Separation and Metal Production	3,000		2,400
	Rapid Response Force Projection Systems	2,000		1,600
	Reliability and Affordability Enhancement for Precision Guided Munition Systems	6,000		4,800
	Scaleable Efficient Power for Armament Systems and Vehicles Dual Use	5,000		4,000
	Specialized Compact Automated Mechanical Clearance Platform	4,000		3,200
	Tamper Proof Organic Packaging as Applied to Remote Armament Systems	6,000		4,800
	Technology Development at the Quad Cities Manufacturing Laboratory (Transferred to line number 32)	2,000		0
	Threat Detection and Neutralization	4,000		3,200
	Tungsten Heavy Alloy Penetrator and Warhead Development	1,500		1,200
	Accelerated Materials Development for Army Cannon Systems		3,000	2,400
	Acoustic Gun Detection System for Tracked Combat Vehicles		2,000	1,600
	Advanced Materials and Process for Armament Structures (AMPAS)		4,000	3,200
	Building a Unified Information Framework		2,000	1,600
	Center for Borane Technology		2,000	2,000
	Exploding Foil Initiators (EFI) with Nanomaterial-Based Circuits		3,000	2,400
	Kinetic Energy Enhanced Lethality and Protection Materials		2,000	2,000
	Laser-Guided Energy (LGE) Demonstrator		2,800	2,240
	Multifunctional Nanomaterials for Homeland Defense, Counter-Terrorism and Dual-Use Applications		2,500	2,000
	Nanotechnology Enterprise Consortium (NTEC)		5,000	5,000
	Perimeter Security Systems		5,000	4,500
	Projectile Unmanned Aerial Systems	3,000	2,000	2,400
	Ripsaw Unmanned Ground Vehicle (UGV) Weaponization		2,500	2,000
	Titanium Extraction, Mining and Process Engineering Research		6,000	4,800
<b>18</b>	<b>ELECTRONICS AND ELECTRONIC DEVICES</b>	<b>61,404</b>	<b>115,454</b>	<b>135,234</b>
	Advanced Flexible Solar Photovoltaic Technologies		3,000	2,400
	Advanced Power Generation Unit for Military Applications		650	650

R-1	Budget Request	House	Senate	Recommendation
	Advanced Power Source for Future Soldiers	1,500		1,200
	Bio Battery	1,000		800
	Program Increase - SOF Technology Insertion	10,000		6,000
	Portable Fuel Cell Power Source	3,000		2,400
	High-Volume Manufacturing Development for Thin-film Lithium Stack Battery Technologies	1,000		800
	Integrated Lightweight Tracker System	2,000		2,000
	Intelligent Energy Control Systems	3,000		2,400
	Internal Base Facility Energy Independence	3,200		2,560
	Large Format Li-Ion Battery	600	6,200	4,960
	Market Viable, Dual-Use, Advanced Energy Storage Solutions Development	5,000		4,000
	Micromachined Switches in Support of Transformational Communications Architecture	3,000		2,400
	Mid-Infrared Super Continuum Laser	1,000		800
	Military Fuel Cell Genset Technology Demonstration	2,500		2,000
	Multi-Campus Base Facility Energy Independence	4,000		3,200
	Novel Zinc Air Power Sources for Military Applications	2,500		2,000
	ONAMI Miniaturized Tactical Energy Systems Development	2,500	3,000	2,500
	Printed and Conformal Electronics for Military Applications	2,000		1,600
	Soldier Situational Awareness Wristband	1,400		1,120
	Solid Oxide Fuel Cell Powered Tactical Charger	1,200		960
	Unmanned System Algorithm Development	4,000		3,200
	Unjustified program growth	-5,000		-5,000
	Tactical Cogeneration System	1,000	3,000	2,400
	Advanced Hybrid Chemistry for Portable Power		3,200	2,560
	Advanced Soldier-Portable Power Systems Technologies		3,100	2,480
	Advanced Wearable Power System Manufacturing		2,000	1,600
	Army Asset Visibility Enhancement		1,000	800
	Ceramic Membrane - 10(X) Times More Energy for Battery Systems		3,000	2,400
	Cogeneration for Enhanced Cooling and Heating of Advanced Tactical Vehicles		4,000	3,200
	Eye Safe Laser Range Finder		3,000	2,400
	High-Frequency, High-Power Electronic and Optoelectronic Devices on Aluminum Nitride (AlN)		4,000	3,200
	Light Weight Nanophosphate Battery with Improved Energy Density		3,000	2,000
	Maryland Proof of Concept Alliance for Defense Technologies		2,000	1,600
	Self Powered, Lightweight, Flexible Display Unit on a Plastic Substrate		3,800	3,040
	Stabilized Enzyme Biofuel Cell (SEBC) for Unmanned Ground Sensors		1,500	1,200
<b>19</b>	<b>NIGHT VISION TECHNOLOGY</b>	<b>26,893</b>	<b>48,893</b>	<b>51,143</b>
	IR-Vascular Facial Fingerprinting	3,000		2,400
	Next Generation Communications System	1,000		800
	Personal Miniature Thermal Viewer	1,000		800
	Program Increase	11,000		8,250
	Standoff Improvised Explosive Detection Program	6,000		4,800
	Materials for Infrared Night Vision Equipment		9,000	7,200

R-1		Budget Request	House	Senate	Recommendation
20	<b>COUNTERMINE SYSTEMS</b>	18,945	20,945	22,945	23,745
	Spectroscopic Materials Identification Center		2,000		1,600
	Standoff Sensors, Detection of Explosives and Explosive Devices (IEDs)			4,000	3,200
21	<b>HUMAN FACTORS ENGINEERING TECHNOLOGY</b>	18,605	33,605	18,605	30,605
	Leonard Wood Institute		15,000		12,000
22	<b>ENVIRONMENTAL QUALITY TECHNOLOGY</b>	15,902	19,402	23,402	25,602
	Biowaste-to-Bioenergy Center		2,500		2,000
	Rocket Motor Contained System		1,000		800
	Chemical Materials and Environmental Modeling Project			2,000	2,000
	Cluster Bomb Unit and Combined Effects Munitions Demilitarization			1,000	800
	MLRS Disposal System			2,500	2,500
	Navy Gun Ammunition Demilitarization and Recycling			2,000	1,600
	<b>COMMAND, CONTROL, COMMUNICATIONS TECHNOLOGY</b>	24,833	31,533	24,833	30,193
	Command, Control, Communications Technology		2,000		1,600
	Lightweight 10-meter Antenna Mast		2,500		2,000
	Mobile Mesh Network Node		2,200		1,760
25	<b>MILITARY ENGINEERING TECHNOLOGY</b>	54,818	61,918	57,818	61,098
	Cellulose Nanocomposites Panels for Ballistic Protection		2,000		1,600
	Environmentally Intelligent Moisture and Corrosion Control for Concrete		2,100		1,680
	Geosciences/Atmospheric Research		3,000	3,000	3,000
26	<b>MANPOWER/PERSONNEL/TRAINING TECHNOLOGY</b>	18,701	18,701	16,701	16,701
	Premature Growth			-2,000	-2,000
27	<b>WARFIGHTER TECHNOLOGY</b>	27,109	31,909	38,109	38,549
	Improved Thermal Resistant Nylon for Enhanced Durability and Thermal Protection in Combat Uniforms		1,500	4,000	3,200
	Injection Molded Ceramic Body Armor		1,000		800
	Joint Precision Airdrop Systems-Wind Profiling Portable Radar		2,300		1,840
	Biosecurity Research for Soldier Food Safety			2,000	1,600
	Carbon Nanotube Production			2,000	1,600
	Nano-enabled Ultra High Storage Density Non-volatile Memory for Commander's Digital Assistant			3,000	2,400
28	<b>MEDICAL TECHNOLOGY</b>	99,027	195,942	165,387	223,107
	Advanced Bio-Engineering for Enhancement of Soldier Survivability		3,000	2,500	2,500
	Advanced Functional Nanomaterials for Biological Processes		2,500	2,400	2,400
	Alginate Oligomers to Treat Infectious Microbial Biofilms		2,000		1,600
	Battlefield Research Accelerating Virtual Environments for Military Individual Neuro Disorders (BRAVEMIND)		1,000		1,000

R-1	Budget Request	House	Senate	Recommendation
	Protein Hydrogel for Surgical Repair of Battlefield Injuries	1,000		800
	Cancer Prevention through Remote Biological Sensing	2,000		1,600
	Carbide Derived Carbon for Treatment of Combat Related Sepsis	1,000		800
	Center for Bone Repair and Military Readiness	1,500		1,200
	Center for Injury Biomechanics	4,000	4,000	4,000
	Womens Cancer Genomics Center	3,000		2,400
	Clinical Trial to Investigate Efficacy of Human Skin Substitute	1,000		800
	Control of Vector-Borne Diseases	3,000		2,400
	Diabetes Care in the Military	2,000		1,600
	Flu Vaccine Technology Program	1,500		1,200
	Epigenetic Disease Research	2,000		1,600
	Evaluation of Integrative Approaches to Resilience	2,000		1,600
	Extended Duration Silver Wound Dressing - Phase II	1,000		800
	Eye Trauma and Visual Restoration	1,000		800
	Florida Trauma Rehabilitation Institute for Returning Military Personnel	3,000		2,400
	Framework for Electronic Health Record-Linked Predictive Models	3,000		2,400
	Human Organ and Tissue Preservation Technology	2,000		1,600
	Improving Soldier Recovery from Catastrophic Bone Injuries	4,000	3,000	3,200
	Jackson Health System Military Trauma Training Enhancement Initiative	2,500		2,000
	Lifestyle Modifications to Reduce Chronic Disease in Military Personnel	1,500		1,500
	Lightweight, Battery Driven, and Battlefield Deployment Ready NG Feeding Tube Cleaner	500		500
	Myositis Association-exposure to environmental toxins	1,250		1,000
	Nanofiber Based Synthetic Bone Repair Device for Limb Salvage	1,000		1,000
	Nano-Imaging Agents for Early Disease Detection	1,000		800
	National Eye Evaluation and Research Network	3,000		2,400
	Neuro-Performance Research	2,000		1,600
	Neuroscience Research Consortium to Study Spinal Cord Injury	1,500		1,200
	New York Medical College Bioterrorism Research	165		132
	Non-Leaching Antimicrobial Surface for Orthopedic Devices	1,500		1,200
	Operating Room of the Future (Includes transfer from Defense Health Program RDT&E)	2,500		2,000
	Portable Low-Volume Therapy for Severe Blood Loss	2,000		1,600
	Positron Capture and Storage (Transferred to line number 54)	1,500		0
	Rapid Wound Healing Cell Technology	2,500		2,000
	Regenerative Medicine Research	2,000		1,600
	Research to Develop Strategies to Improve Prognosis of Soldiers Suffering Abdominal Trauma	2,000		1,600
	Research to Treat Cancerous Brain Tumors using Neural Stem Cells	2,000		1,600
	School of Nursing Advancement	2,000		2,000

R-1	Budget Request	House	Senate	Recommendation
	Self Powered Prosthetic Limb Technology	2,000	1,000	1,600
	Synchrotron-Based Scanning Research Neuroscience and Proton Institute	6,000		6,000
	Technology Solutions for Brain Cancer Detection and Treatment	1,500		1,200
	Understanding Blast Induced Brain Injury	3,000		2,400
	University of Miami Ryder Trauma Center/ William Lehman Injury Research Center	4,000		3,200
	Westchester County Medical Center Health Imaging Upgrades	1,500		1,200
	Biometric Signature and Passive Physiological Monitoring (Transferred to RDT&E, Air Force line number 238)		5,000	0
	Center for Advanced Emergency Response (Transferred from RDT&E, Defense-Wide line number 32)			4,000
	Center for Engineered Biomedical Devices		360	288
	Center for Respiratory Biodefense		3,000	2,400
	Cleveland Clinic Rehabilitation Research		1,000	800
	Complimentary and Alternative Medicine Research for Military Operations and Healthcare (MIL-CAM)		6,500	5,200
	Development of Drugs for Malaria and Leishmaniasis		3,400	3,120
	Expansion and Development of Bionic Limbs for US Military Personnel		2,500	2,000
	Identification of New Drug Targets in Multi-Drug Resistant Bacterial Infections (Includes transfer from RDT&E, Defense-Wide line number 26)		2,500	2,000
	Lightweight Medical Devices		2,000	1,600
	Long-term Pain and Infection Management for Combat Casualty Care		2,900	2,320
	Military Family Empowerment Initiative		1,000	800
	Minimizing Shock in Battlefield Injuries		1,900	1,900
	New Vaccines to Fight Respiratory Disease and Central Nervous Disorders		6,000	4,800
	Online Health Services Optimization		3,900	3,120
	Optical Neural Techniques for Combat and Post-Trauma Healthcare		4,000	3,500
	Regenerative Medicine for Battlefield Injuries		1,000	1,000
	Stabilized Hemoglobin Wound Healing Development		1,500	1,200
	SupportNet for Frontline Providers		3,000	2,400
	The Center for Neuroprosthetics and BioMEMS		2,000	1,600
<b>29</b>	<b>WARFIGHTER ADVANCED TECHNOLOGY</b>	<b>37,574</b>	<b>41,874</b>	<b>54,574</b>
	Advanced Packaging Materials for Combat Rations		1,000	800
	Compostable and Recyclable Fiberboard Material for Secondary Packaging		2,500	2,000
	Multi-layer Co-extrusion for High Performance Packaging		2,000	1,600
	Next Generation Precision Airdrop System		2,500	2,000
	Precision Guided Airdropped Equipment		1,500	1,200
	Predictive Casting Process Modeling for Rapid Production of Critical Defense Components		2,000	1,600
	Reducing First Responder Casualties with Physiological Monitoring		1,500	1,200

R-1	Budget Request	House	Senate	Recommendation
	Remote Environmental Monitoring and Diagnostics in the Perishables Supply Chain	2,750		2,200
	Soldier Personal Cooling System	1,200		960
	High Pressure Pasteurization and Pressure Assisted Thermal Sterilization Project		4,300	3,440
30	<b>MEDICAL ADVANCED TECHNOLOGY</b>	<b>72,940</b>	<b>196,040</b>	<b>341,531</b>
	Advanced Cancer Genome Institute	2,500		2,000
	Advanced Diagnostic and Therapeutic Digital Technologies	2,000		1,600
	Advanced Military Wound Healing Research and Treatment	1,000		800
	Alliance for Nanohealth	5,000		4,000
	ALS Therapy Development Institute -Gulf War Illness Research Project	2,000		1,600
	Anti-Microbial Bone Graft Product	2,000		1,600
	Antioxidant Micronutrient Therapeutic Countermeasures	1,000		800
	Automated Portable Field System for Rapid Detection and Diagnosis of Endemic Diseases and Other Pathogens	2,000		1,600
	Battlefield Nursing	2,000		1,600
	Battlefield Related Injury Translational Research Strategies	2,250		1,800
	Bio-Printing of Skin for Battlefield Burn Repairs	1,000	2,000	2,000
	Blood and Bone Marrow Collection Fellowship	2,500		2,000
	Blood Safety and Decontamination Technology	3,000		2,400
	Brain Interventional Surgical Hybrid Initiative	3,000		2,400
	Brain Safety Net	3,000		2,400
	Breast Cancer Medical Information Network Decision Support	1,000		800
	Cellular Therapy for Battlefield Wounds	3,500		2,800
	Center for Cancer Immunology Research	2,000		1,600
	Center for Genetic Origins of Cancer	2,500		2,000
	Center for Integration of Medicine and Innovative Technology	9,000	10,000	9,000
	Center for Ophthalmic Innovation	3,000		2,400
	Center of Excellence in Infectious Diseases and Human Microbiome	3,000		2,400
	Center for Virtual Reality Medical Simulation Training	1,500		1,200
	Clinical Technology Integration for Military Health	2,000		1,600
	Chronic Tinnitus Treatment Program	1,000		800
	Collagen-Based Wound Dressing	1,000		800
	Combat Wound Initiative	3,000		2,400
	Customized Nursing Programs for Fort Benning	2,000		1,600
	Enhancing Military Ophthalmic Education and Overcoming Urban Healthcare Disparities with Telemedicine	3,000		2,400
	Enhancing Wound Healing, Tissue Regeneration, and Biomarker Discovery	2,500	2,000	2,000
	Exceptional Family Transitional Training Program for US Military Soldiers, Sailors, Marines and Airmen	800		640
	Hadron Particle Therapy	2,000		1,600
	Human Genomics, Molecular Epidemiology, and Clinical Diagnostics for Infectious Diseases	1,500		1,200
	Health Disparities in Troop Readiness	8,000		8,000
	Imaging and Cognitive Evaluation of Soldiers	800		640

R-1	Budget Request	House	Senate	Recommendation
Infection Prevention Program for Battlefield Wounds	2,000			1,600
Infectious and Airborne Pathogen Reduction	2,800			2,240
Institute for Simulation and Interprofessional Studies	5,800			4,640
Advancement of Bloodless Medicine	1,866			1,493
Intelligent Orthopedic Fracture Implant Program	1,000			800
Integrated Patient Electronic Record System	2,000			1,600
Joint Medical Simulation Technology Center (Transferred to line number 38 )	1,600			0
Linear Accelerator Cancer Research Project	1,000			800
Maine Institute for Human Genetics and Health	2,000			1,600
Malaria Vaccine Development	2,000		5,000	4,000
Marty Driester Lung Cancer Project	2,000			1,600
Mass Casualty First Responders Disaster Surge Technology Program	3,000			2,400
Medical Biosurveillance and Efficiency Program	2,000			1,600
Medical Errors Reduction Initiative	2,500			2,000
Microencapsulation and Vaccine Delivery Research	1,000			800
Midwest Traumatic Injury Rehabilitation Center	1,460			1,168
Military Burn Trauma Research Program	2,000		6,000	4,500
Military Low Vision Research	3,000			2,400
Military Drug Management System	3,000			2,400
Military Mental Health Initiative	750			600
Military Pediatric Training and Support	5,000			4,000
Mission Hospital Computerized Physician Order Entry	1,000			800
Mobile Integrated Diagnostic and Data Analysis	2,000			1,600
Montefiore Critical Looking Glass	1,500			1,200
Multiplexed Human Fungal Infection Diagnostic	2,000			1,600
Musculoskeletal Interdisciplinary Research Initiative	2,000			1,600
National Biodefense Training Center (Includes transfer from line number 3)			5,000	5,000
National Functional Genomics Center	6,000			6,000
National Oncogenomics and Molecular Imaging Center	5,950			4,760
Northern Illinois Proton Treatment and Research Center	3,500			2,800
NAU-TGen North Dangerous Pathogens DNA Forensics Center Upgrades	2,000			1,600
Near Infrared Spectroscopy Military Personnel Assessment	1,000			800
Neural Control of External Devices	1,000		2,000	2,000
Neuroimaging and Neuropsychiatric Trauma in US Warfighters	6,250		5,000	6,250
Nursing Teaching and Leadership Program	1,000			800
Nicholson Center for Surgical Advancement Medical Robotics and Simulation	5,250			4,200
Personal Status Monitor	1,000			800
Nurse Education Center of Excellence for Remote and Medically Underserved Populations	2,000			1,600
Operation Re-Entry NC	3,000		2,000	2,400
Parsons Institute for Information Mapping	1,500			1,200
Pediatric Cancer Research and Clinical Trials	2,000			1,600
Plant-Based Vaccine Research	2,500			2,000
Plug-In Architecture for DOD Medical Imaging	1,500			1,200
Power Efficient Microdisplay Development for US Army Night Vision	3,000			2,400

R-1	Budget Request	House	Senate	Recommendation
	Prader Willi Syndrome Research	2,000		1,600
	Pride Center for America's Wounded Veterans	2,000		1,600
	Remote Bio-Medical Detector	3,500		2,800
	Rural Health Center of Excellence for Remote and Medically Underserved Populations	2,000		1,600
	Sensor Tape Physiological Monitoring	2,500		2,000
	Smart Wound Dressing for MRSA Infected Battlefield Wounds	1,000		800
	Spinal Cord Restoration Therapies	1,000	2,000	1,600
	Spinal Muscular Atrophy Research Program	3,000		3,000
	Stress Disorders Research Initiative at Fort Hood	3,000		2,400
	Dermal Matrix Research	2,000	2,000	2,000
	Techniques to Manage Noncompressible Hemorrhage Following Combat Injury	2,500		2,000
	Telepharmacy Robotic Medicine Device Unit	1,000		800
	Testing of Microneedle Device for Multiple Applications	1,200		960
	Translational Research for Muscular Dystrophy	2,000		1,600
	Transportable Renal Replacement Therapy for Battlefield Applications	1,000		800
	Trauma Response Simulation Training (Transferred from O&M, Army National Guard line number 131)			1,200
	Treatment of Battlefield Spinal Cord and Burn Injuries	450		360
	VTOL Man-Rated UAV and UGV for Medical Multi-Missions and CASEVAC	1,000		800
	Vanadium Safety Readiness	4,200		3,360
	Wounded Servicemember Bioelectronics Research	1,500	1,000	1,200
	101st Airborne/Air Assault Injury Prevention and Performance Enhancement Initiative		3,000	3,000
	Advanced Lower Limb Prostheses for Battlefield Amputees		4,000	3,200
	Advanced Regenerative Medicine Therapies for Combat Injuries		4,000	3,200
	Bio-Surveillance in a Highly Mobile Population		2,000	1,600
	Blood, Medical and Food Safety via Eco-Friendly Wireless Sensing (Phase II)		2,000	1,600
	Clinical Development of a Norovirus Gastroenteritis Vaccine		4,500	3,600
	Cooperative International Neuromuscular Research Group (CINRG)		4,100	3,280
	Countermeasures to Hemorrhaging (Liquid Bandage and Tissue Regeneration)		7,200	5,760
	Fibrin Adhesive Stat (FAST) Dressing		3,000	2,400
	Health Sciences Regenerative Medicine Center - Autologous Tissues Research		4,000	3,200
	Highly Functional Neurally Controlled Skeletally Attached and Intelligent Prosthetic Devices		3,800	3,040
	Identification of Pain Mechanisms and Therapeutic Targets		1,000	800
	In-Field Body Temperature Conditioner		3,000	2,400
	Military Medical Decontamination System		4,500	4,500
	Military Nutrition Research: Four Tasks to Address Personnel Readiness		1,000	800
	Mobile Aerosol Monitoring System for the Department of Defense		1,500	1,200

R-1	Budget Request	House	Senate	Recommendation
			2,000	1,600
			2,000	2,000
			3,000	2,400
			3,000	2,400
			3,500	2,800
			8,000	6,400
			3,000	2,400
			2,000	1,600
<b>31 AVIATION ADVANCED TECHNOLOGY</b>	<b>60,097</b>	<b>87,097</b>	<b>104,697</b>	<b>112,977</b>
Advanced Affordable Turbine Engine Program		4,000	5,000	4,000
Crewmember Alert Display Development Program		2,000		1,600
Drive System Composite Structural Component Risk Reduction Program		3,000		2,400
Fighting Combat-Related Fatigue Syndrome		1,000		800
Inter Turbine Burner for Turbo Shaft Engines		3,000		2,400
Next Generation Green, Economical and Automated Production of Composite Structures for Aerospace		1,000		1,000
Qualification and Insertion of New High Temperature Domestic Sourced PES for Military Aircraft		3,000		2,400
Heavy Fuel Engine Family for Unmanned Systems		4,000		3,200
UH-60 Transmission/Gearbox Galvanic Corrosion Reduction		1,500	1,500	1,500
Wireless HUMS for Condition Based Maintenance of Army Helicopters		2,000		1,600
Universal Control		2,500	9,000	7,200
Autonomous Cargo Acquisition for Rotorcraft Unmanned Aerial Vehicles			1,600	1,280
Enhanced-Rapid Tactical Integration for Fielding of Systems Initiative			3,000	3,120
Parts-on-Demand from CONUS Operations			5,000	4,500
Robust Composite Structural Core for Army Helicopters			2,000	1,600
Transitioning Stretch Broken Carbon Fiber to Production Programs			4,000	3,200
Unmanned Aerial Systems Ground Based Sense and Avoid Capability Development for Integration into the National Air Space			3,600	2,880
Unmanned Aerial Vehicle Resupply (UAVR) - BURRO			4,000	3,200
Vectored Thrust Ducted Compound Helicopter			5,000	5,000
<b>WEAPONS AND MUNITIONS ADVANCED</b>				
<b>32 TECHNOLOGY</b>	<b>66,410</b>	<b>89,910</b>	<b>71,210</b>	<b>90,330</b>
Advanced Lightweight Gunner Protection Kit for Lightweight MRAP Vehicle		1,000		800
Lens-Less Dual-Mode Micro Seeker for Medium-Caliber Guided Projectiles		2,500		2,000
Lightweight Munitions and Surveillance System for Unmanned Air and Ground Vehicles		4,800		3,840
Micro Inertial Navigation Unit Technology		1,500		1,200
Nanotechnology Fuze		2,000		1,600
Next Generation Machining Technology and Equipment		2,000		1,600
Rapid Insertion of Developmental Technologies into Fielded Systems		2,000		1,600

R-1	Budget Request	House	Senate	Recommendation
	Recovery, Recycle, and Reuse of DOE Metals for DoD Applications (Transferred to RDT&E, Defense-Wide line number 26)	2,400		0
	Soldier Protection through Unmanned Ground Vehicles	1,500		1,200
	Titanium Powder Advanced Forged Parts Program	3,800		3,040
	EMG - lack of authorization		-11,500	-5,500
	Biosensor, Communicator and Controller System		3,500	3,500
	Advanced Prototyping with Non Traditional Suppliers		1,500	0
	Advanced Robot and Sensor Technology for Surveillance and Energy Efficiency Applications		1,500	1,200
	Lightweight Reliable Materials for Military Systems Technology Development at the Quad Cities		3,500	2,800
	Manufacturing Laboratory (Includes transfer from line number 17)		6,300	5,040
<b>33</b>	<b>COMBAT VEHICLE AND AUTOMOTIVE ADVANCED TECHNOLOGY</b>	<b>89,586</b>	<b>162,186</b>	<b>182,886</b>
	Advanced Battery Materials and Manufacturing	5,000		4,000
	Advanced Carbon Hybrid Battery for Hybrid Electric Vehicles	1,000		800
	Advanced Composites for Light Weight, Low Cost Transportation Systems using a 3+ Ring Extruder	3,000		2,400
	Advanced Digital Hydraulic Drive System	2,500		2,000
	Advanced Lightweight Multifunctional Multi-Threat Composite Armor Material Technology	3,000		2,400
	Advanced Lithium Ion Phosphate Battery System for Army Combat Hybrid HMMWV and Other Army Vehicle Platforms	2,000	3,000	2,400
	Advanced Technology for Energy Storage	2,000		1,600
	Advanced Thermal Management System	3,000		2,400
	All Composite Bus Program	2,500		2,000
	Ceramic and Metal Matrix Composites Armor Development using Ring Extruder Technology	1,000		800
	Army Vehicle Condition Based Maintenance	5,000		4,000
	Electric All Terrain Ultra Light Vehicle for the Minnesota National Guard	2,000		1,600
	Fire Shield	4,000		3,200
	Friction Stir Welding Program	3,000		2,400
	Fuel System Component Technology Research	2,000		1,600
	Fully Burdened Cost of Fuel and Alternative Energy Methodology and Conceptual Model	3,500		2,800
	Hybrid Electric Drive All Terrain Vehicle	2,000		1,600
	Hybrid Electric Heavy Truck Vehicle	2,000		1,600
	Integrated Defense Technical Information	2,000		1,600
	Logistical Fuel Processors Development	1,500		1,200
	Networked Reliability and Safety Early Evaluation System	2,000		1,600
	Protective 3-D Armor Structure to Safeguard Military Vehicles and Troops	2,000		1,600
	Smart Plug-In Hybrid Vehicle Program	4,100	3,000	3,280
	Silent Watch, IB NPS 1160 Lithium-Ion Advanced Battery	1,000		800
	Superlattice Semiconductors for Mobile SS Lighting and Solar Power Applications	3,500		2,800

R-1	Budget Request	House	Senate	Recommendation
	Unmanned Robotic System Utilizing a Hydrocarbon Fueled Solid Oxide Fuel Cell System	3,000		2,400
	Program Increase	5,000		3,750
	30-Kilowatt Auxiliary Power Unit for Armored Combat Vehicles		2,000	1,600
	Advanced Battery Development Program		10,000	9,000
	Advanced Corrosion Protection for Military Vehicles and Equipment		3,000	2,400
	Advanced Suspension System For Heavy Vehicles		2,700	2,160
	Alternative Energy Advanced Technology Development/Demonstration (Transferred from line number 42)			18,250
	All Composite Lightweight Military Vehicle		2,000	1,600
	Antiballistic Windshield Armor		3,000	2,400
	Compact 10 Kilowatt Generator Set for Army and Marine Combat Vehicles		2,000	1,600
	Defense Advanced Transportation Technology Program			
	Hybrid Truck Users Forum		6,000	4,800
	Enhanced Military Vehicle Maintenance System Demonstration Project		2,800	2,800
	Field Deployable Fleet Hydrogen Fueling		3,000	2,400
	Future Tactical Truck Carbon Composite Shelter and Retrofit of Current Vehicle Shelters		2,000	1,600
	Ground-forces Readiness Enabler for Advanced Tactical Vehicles (GREAT-V)		1,000	800
	Hybrid Engine Development Program		4,000	3,200
	Hydraulic Hybrid Vehicles for the Tactical Wheeled Fleet		3,500	2,800
	JAMMA Family of Vehicles		1,000	800
	Military Installation Electric Vehicle Demonstration Project		2,000	1,600
	On-Board Vehicle Power Systems Development		3,100	2,480
	Plug-In Hybrid Electric Vehicle		4,000	4,000
	Pre-Discharge Threat Cues		2,000	1,600
	Simulation Based Reliability and Safety (SimBRS) Program		4,900	4,900
	Unmanned Ground Vehicle Initiative		12,000	11,000
	VePro - Vehicle Health Usage Monitoring and Prognostics		3,100	2,880
	VSIL: Armored Vehicle Components and Systems Simulated In Cost-Effective Virtual Design and Test Environment		4,000	3,200
	Zouline Armor		4,200	3,360
	<b>COMMAND, CONTROL, COMMUNICATIONS</b>			
34	<b>ADVANCED TECHNOLOGY</b>	8,667	13,667	8,667
	Program Increase		5,000	3,750
36	<b>ELECTRONIC WARFARE ADVANCED TECHNOLOGY</b>	50,458	57,258	58,458
	Applied Communication and Information Networking		3,800	3,000
	Portable Mobile Emergency Broadband Systems		3,000	4,000
	Cybersecurity in Tactical Environments		1,000	800

R-1	Budget Request	House	Senate	Recommendation
<b>NEXT GENERATION TRAINING AND SIMULATION</b>				
<b>38 SYSTEMS</b>	<b>19,415</b>	<b>23,915</b>	<b>22,415</b>	<b>25,495</b>
Combat Medic Trainer		2,000	2,000	2,000
Joint Fires and Effects Trainer System Enhancements		2,500		2,000
Joint Medical Simulation Technology Center (Transferred from line number 30)				1,280
HapMed Combat Medic Trainer			1,000	800
<b>40 EXPLOSIVES DEMILITARIZATION TECHNOLOGY</b>	<b>0</b>	<b>3,500</b>	<b>12,200</b>	<b>12,560</b>
Advanced Reactive Armor Systems		2,000		1,600
Zumwalt National Program for Countermeasures to Biological and Chemical Threats		1,500		1,200
Cryofracture/Plasma Arc Demilitarization Program			8,000	6,400
Ultra Wideband Active RF Detection of IEDs			2,200	1,780
Unserviceable Ammunition Demilitarization via Chemical Dissolution at Tooele Army Depot			2,000	1,600
<b>41 MILITARY HIV RESEARCH</b>	<b>6,657</b>	<b>29,657</b>	<b>6,657</b>	<b>29,657</b>
HIV Prevention and Reducing Risk to US Military Personnel		3,000		3,000
Program Increase		20,000		20,000
<b>COMBATING TERRORISM, TECHNOLOGY</b>				
<b>42 DEVELOPMENT</b>	<b>11,989</b>	<b>11,989</b>	<b>36,989</b>	<b>11,989</b>
Alternative Energy Advanced Technology Development/Demonstration (Transferred to line number 33)			25,000	0
<b>43 ELECTRONIC WARFARE TECHNOLOGY</b>	<b>19,192</b>	<b>22,692</b>	<b>19,192</b>	<b>21,992</b>
Advanced Ground EW and Signals Intelligence System		2,500		2,000
ANALQ 211 Networked EW Controller		1,000		800
<b>44 MISSILE AND ROCKET ADVANCED TECHNOLOGY</b>	<b>63,951</b>	<b>75,751</b>	<b>79,451</b>	<b>87,011</b>
Anti-Tamper Research and Development		3,800		3,040
Captive Carry Sensor Test-Bed		3,000		2,400
Foil Bearing Supported UAV Engine		1,000		800
Waterside Wide Area Tactical Coverage and Homing		4,000		3,200
Advanced Commercial Technology Insertion			3,100	3,100
Army Responsive Tactical Space System Exerciser			3,000	3,000
Long Range Hypersonic Interceptor			2,000	1,600
Rapid Response Hostile Fire Detection and Active Protection of Ground and Air Vehicles Sensor Demonstration			3,200	2,560
Scenario Generation for Integrated Air and Missile Defense Evaluation			4,200	3,360
<b>LANDMINE WARFARE AND BARRIER ADVANCED TECHNOLOGY</b>				
<b>46 TECHNOLOGY</b>	<b>30,317</b>	<b>30,317</b>	<b>36,217</b>	<b>35,037</b>
Advanced Demining Technology			5,900	4,720
<b>48 NIGHT VISION ADVANCED TECHNOLOGY</b>	<b>40,329</b>	<b>64,829</b>	<b>57,329</b>	<b>72,629</b>
Brownout Situational Awareness Sensor		3,000		2,400
Buster/Blacklight UAV Development		1,000		800
Enhanced Driver Situational Awareness		1,000		800
Hyper Spectral Sensor for Improved Force Protection		2,000		1,600
Program Increase		15,000		9,000

R-1	Budget Request	House	Senate	Recommendation
	Night Vision and Electronic Sensors Directorate	2,500		2,000
	Bradley Third Generation FLIR		5,000	4,500
	Compact Airborne Multi-Mission Payload (CAMP) (Transferred from line number 51)			1,600
	Microterrain Persistent Surveillance		2,000	1,600
	Smart Sensor Supercomputing Center		10,000	8,000
	<b>ENVIRONMENTAL QUALITY TECHNOLOGY</b>			
<b>49</b>	<b>DEMONSTRATIONS</b>	<b>15,706</b>	<b>15,706</b>	<b>16,206</b>
	Permafrost Tunnel		500	500
<b>50</b>	<b>MILITARY ENGINEERING ADVANCED TECHNOLOGY</b>	<b>5,911</b>	<b>45,461</b>	<b>45,631</b>
	Conversion of Municipal Solid Waste to Renewable Diesel Fuel		3,150	2,520
	Defense Support to Civil Authorities Automated Support System		2,000	1,600
	Demonstration of Thin Film Solar Modules as a Renewable Energy Source		1,000	800
	Distributed Power from Wastewater		2,500	2,000
	Enhancing the Commercial Joint Mapping Toolkit to Support Tactical Military Operations		4,000	3,200
	Field Deployable Hologram Production System		4,800	3,840
	Gas Engine Driven Air Conditioning		3,000	2,400
	Hybrid Energy Systems Design and Testing		2,000	2,000
	Lightweight Protective Roofing		1,500	1,200
	Nanotechnology for Potable Water and Waste Treatment		2,000	1,600
	Optimization of the US Army Topographic Data Management Enterprise		2,600	2,080
	Pacific Command Renewable Energy Security Systems		3,000	2,400
	Ruggedized Military Laptop Fuel Cell Power Supply-Project Phase 3		4,000	3,200
	University Center for Disaster Preparedness and Emergency Response		1,500	1,200
	Zinc-Flow Electrical Energy Storage		2,500	2,000
	Advanced Tactical Fuels for the US Military			3,200
	Amorphous Si Flexible Photovoltaics for Grid Parity		4,000	1,600
	Integrated Alternative Power Systems		2,600	2,080
	Natural Gas Firetube Boiler Demonstration		1,000	800
<b>51</b>	<b>ADVANCED TACTICAL COMPUTER SCIENCE AND SENSOR TECHNOLOGY</b>	<b>41,561</b>	<b>60,061</b>	<b>47,061</b>
	Advanced Radar Transceiver Integrated Circuit Development		1,000	800
	CERDEC Integrated Tool Control System		2,000	1,600
	Foliage Penetrating, Reconnaissance, Surveillance, Tracking, and Engagement Radar (FORESTER) Phase II		2,000	1,600
	Intelligence, Surveillance and Reconnaissance (ISR) Simulation Integration Laboratory		2,000	1,600
	Optimizing Natural Language Processing of Open Source Intelligence		1,500	1,200
	Reduced Manning Situational Awareness		5,000	4,000
	Shared Vision		3,000	2,400
	Video Compression Technology		2,000	1,400



R-1	Budget Request	House	Senate	Recommendation
<b>TACTICAL ELECTRONIC SURVEILLANCE</b>				
62 SYSTEM - AD	18,228	18,228	12,228	12,228
Unsustained growth			-6,000	-6,000
64 ENVIRONMENTAL QUALITY TECHNOLOGY	4,770	19,770	6,770	18,470
Cadmium Emissions Reduction - Letterkenny Army Depot		1,000		1,000
Program Increase		10,000		7,500
Renewable Energy Testing Center		1,000		800
Vanadium Technology Program		3,000		2,400
Environmental Management Information System (EMIS) (Army requested transfer from O&M, Army line number 131)			2,000	2,000
65 WARFIGHTER INFORMATION NETWORK-TACTICAL	180,673	165,673	180,673	170,673
Program adjustment for FCS termination		-15,000		-10,000
<b>LOGISTICS AND ENGINEER EQUIPMENT - ADVANCED DEVELOPMENT</b>				
68 DEVELOPMENT	56,373	57,373	49,873	59,973
In-Theater Evaluation of Ballistic Protection		1,000		800
JLTV unjustified growth			-10,000	0
Expeditionary Water Reclamation Process using Supercritical Water Oxidation			3,500	2,800
70 MEDICAL SYSTEMS - ADVANCED DEVELOPMENT	31,275	37,275	33,275	36,075
Execution of a Quality Systems Program for FDA Regulation Activities		1,500		1,200
Model for Green Laboratories and Clean Rooms		1,500		1,200
Wireless Medical Monitoring System		3,000	2,000	2,400
71 SOLDIER SYSTEMS - ADVANCED DEVELOPMENT	71,832	71,007	71,832	74,172
Unexecutable growth		-5,000		-1,000
Acid Alkaline Direct Methanol Fuel Cell		2,000		1,600
Fire Suppression System		1,425		1,140
Improved HELLHOUND 40mm Low Velocity High Explosive Ammunition		750		600
73 AIRCRAFT AVIONICS	92,977	88,977	92,977	89,977
Unjustified program growth		-4,000		-3,000
74 ARMED, DEPLOYABLE OH-58D	65,515	70,515	61,236	66,515
Advanced Composite Ammunition Magazine/Mount System		2,000		1,600
LW25 Gun System and Demonstration		3,000		2,400
Kiowa Warrior Replacement funds requested ahead of Analysis of Alternatives completion			-4,270	-3,000
75 ELECTRONIC WARFARE DEVELOPMENT	248,463	248,463	197,463	202,063
L12 unjustified growth			-18,000	-18,000
Excessive CIRCUM management services			-35,000	-30,000
Hostile Fire Indicator			2,000	1,600
76 INFANTRY SUPPORT WEAPONS	74,814	76,814	62,814	83,614
Headborne Energy Analysis and Diagnostic System		2,000		1,600
Composite Bottles for Survival Egress Air			4,000	4,000
Lightweight Caliber .50 Machine Gun			4,000	3,200

R-1	Budget Request	House	Senate	Recommendation
<b>81 FAMILY OF HEAVY TACTICAL VEHICLES</b>	<b>7,477</b>	<b>10,477</b>	<b>7,477</b>	<b>9,877</b>
Mobile Power 30 Kilowatt System Power Control Unit Development Project		1,000		800
RDT&E for the Family of Heavy Tactical Vehicles (FHTV)		2,000		1,600
<b>83 NON-LINE OF SIGHT LAUNCH SYSTEM</b>	<b>88,660</b>	<b>88,660</b>	<b>92,480</b>	<b>91,700</b>
NLOS-LS Anti-Tamper Initiative			3,800	3,040
<b>84 NON-LINE OF SIGHT CANNON</b>	<b>58,216</b>	<b>31,216</b>	<b>58,216</b>	<b>48,216</b>
Unjustified termination costs		-27,000		-10,000
<b>85 FCS MANNED GROUND VEHICLES AND COMMON GROUND VEHICLE</b>	<b>368,557</b>	<b>184,557</b>	<b>368,557</b>	<b>276,557</b>
Unjustified termination costs		-184,000		-92,000
<b>86 FCS SYSTEMS OF SYSTEMS ENGINEERING AND PROGRAM MANAGEMENT</b>	<b>1,067,191</b>	<b>1,067,191</b>	<b>868,191</b>	<b>917,191</b>
Contractor fee reduction due to contract restructure			-199,000	-150,000
<b>87 FCS RECONNAISSANCE (UAV) PLATFORMS</b>	<b>68,701</b>	<b>68,701</b>	<b>78,001</b>	<b>75,501</b>
MQ-8B Fire Scout Army			9,300	6,800
<b>90 FCS SUSTAINMENT &amp; TRAINING R&amp;D</b>	<b>749,182</b>	<b>749,182</b>	<b>567,182</b>	<b>659,182</b>
Program adjustment			-182,000	-90,000
<b>92 NIGHT VISION SYSTEMS - SDD</b>	<b>55,410</b>	<b>57,910</b>	<b>55,410</b>	<b>57,410</b>
Standard Ground Station - Enhancement Program		2,500		2,000
<b>102 WEAPONS AND MUNITIONS - SDD</b>	<b>34,878</b>	<b>44,378</b>	<b>69,878</b>	<b>87,478</b>
Lightweight Packaging System for Enhancing Combat Munitions Logistics		2,000		1,600
Precision Guidance Kit Technology Development		7,500		6,000
SLAMRAAM (Transferred from Missile Procurement, Army line number 3)			35,000	45,000
<b>103 LOGISTICS AND ENGINEER EQUIPMENT - SDD</b>	<b>36,018</b>	<b>37,518</b>	<b>36,018</b>	<b>37,218</b>
Autonomous Sustainment Cargo Container		1,500		1,200
<b>104 COMMAND, CONTROL, COMMUNICATIONS SYSTEMS - SDD</b>	<b>88,995</b>	<b>88,995</b>	<b>43,995</b>	<b>58,995</b>
JBC-P lack of justification			-45,000	-30,000
<b>105 MEDICAL MATERIEL/MEDICAL BIOLOGICAL DEFENSE EQUIPMENT</b>	<b>33,893</b>	<b>40,293</b>	<b>37,393</b>	<b>42,013</b>
Army Portable Oxygen Concentration System		1,500		1,200
Nanophotonic Biosensor Detection of Bioagents and Pathogens		1,900		1,520
Plasma Sterilizer		3,000		2,400
Military Applications for Medical Grade Chitosan			3,500	3,000
<b>106 LANDMINE WARFARE/BARRIER - SDD</b>	<b>82,260</b>	<b>60,960</b>	<b>82,260</b>	<b>72,760</b>
Program adjustment for FCS termination		-21,300		-9,500
<b>108 COMBAT IDENTIFICATION</b>	<b>20,070</b>	<b>20,070</b>	<b>10,070</b>	<b>10,070</b>
JCTI-G lack of acquisition strategy			-10,000	-10,000

R-1		Budget Request	House	Senate	Recommendation
	ARMY TACTICAL COMMAND AND CONTROL				
109	HARDWARE AND SOFTWARE	90,864	85,364	78,072	79,864
	Unjustified program growth		-5,500		-3,000
	Fiscal year 2011 operational testing funds requested ahead of need			-12,792	-8,000
	GENERAL FUND ENTERPRISE BUSINESS SYSTEM				
111	(GFEBs)	6,002	6,002	6,002	23,902
	Army requested transfer from Other Procurement, Army line number 118				17,900
114	ARTILLERY SYSTEMS	23,318	34,318	114,818	116,418
	M109A6 Paladin		2,000		1,600
	Program Increase		9,000		0
	Army requested transfer from Weapons and Tracked Combat Vehicles, Army line number 11, for Paladin Integrated Management			91,500	91,500
117	INFORMATION TECHNOLOGY DEVELOPMENT	35,309	35,309	67,109	66,909
	DIMHRS (Transferred from RDT&E, Defense-Wide line number 117)			30,800	30,800
	Electronic Commodity Project			1,000	800
119	MANNED GROUND VEHICLE	100,000	50,000	100,000	80,000
	Unjustified program growth		-50,000		-20,000
120	THREAT SIMULATOR DEVELOPMENT	22,222	30,222	22,222	25,222
	Electronic Combat and Counter Terrorism Threat Developments to Support Joint Forces		3,000		3,000
	Joint Threat Emitters (Transferred to Other Procurement, Air Force line number 28)		5,000		0
123	RAND ARROYO CENTER	16,305	16,305	18,305	17,905
	Rand Arroyo Center			2,000	1,600
125	CONCEPTS EXPERIMENTATION PROGRAM	23,445	23,445	26,945	26,545
	Automated Communications Support Systems for WARFIGHTERS, Intelligence Community, Linguists, and Analysts			1,500	1,500
	Technology for Rapid Foreign Language Acquisition for Specialized Military and Intelligence Purposes			2,000	1,600
	ARMY TECHNICAL TEST INSTRUMENTATION AND				
128	TARGETS	72,911	75,111	86,611	84,831
	Define Renewable Energy Sources for Base Energy Independence		1,000	2,000	1,600
	MOTS All Sky Imager		1,200		960
	Dugway Field Test Improvements			4,500	3,600
	Multiple Source Data Fusion for Dugway Proving Ground			2,500	2,000
	Phase II, Regional Partnership – Ft. Bliss, WSMR, Holloman			4,700	3,760
130	DOD HIGH ENERGY LASER TEST FACILITY	2,891	2,891	8,891	7,391
	High Energy Laser System Test Facility- HELSTF / HELTD			6,000	4,500

R-1	Budget Request	House	Senate	Recommendation	
136	ARMY EVALUATION CENTER	66,309	68,309	66,309	67,909
	Tire to Track Transformer System for Light Vehicles		2,000		1,600
	<b>MUNITIONS STANDARDIZATION, EFFECTIVENESS</b>				
140	AND SAFETY	45,053	70,653	56,153	73,233
	Defense Metals Technology Center		2,500		2,000
	Atomized Magnesium Domestic Production Design and Development		2,000		1,600
	Domestic Production of Nanodiamond for Military Applications		2,000		1,600
	Improved Thermal Batteries for Guided Munitions		3,000		2,400
	Joint Munitions and Lethality Mission Integration		2,000		1,600
	Medium Caliber Metal Parts Upgrade		3,100	3,000	3,000
	Nano Advanced Cluster Energetics		2,000		1,600
	Nanotechnology-Enabled Self-Healing Anti-Corrosion Coating Products		2,000		1,400
	Program Increase - Protective Armor Systems		5,000		5,000
	Self-Powered Sensor System for Munition Guidance and Health Monitoring		2,000		1,500
	3D Woven Preform Technology for Army Munitions Applications			2,000	1,600
	Army Range Technology Program (ARTP)			6,100	4,880
146	AEROSTAT JOINT PROJECT OFFICE	360,076	288,076	360,076	330,076
	Funding ahead of need		-72,000		-30,000
147	ADV FIELD ARTILLERY TACTICAL DATA SYSTEM	23,727	30,727	23,727	29,327
	Advanced Field Artillery Tactical Data System		4,500		3,600
	Voice Recognition and Cross Platform Speech Interface System		2,500		2,000
148	COMBAT VEHICLE IMPROVEMENT PROGRAMS	190,301	192,301	197,201	197,421
	Current Force Common Active Protection System Radar		2,000		1,600
	Combat Vehicle Electrical Power-21st Century (CVEP-21)			3,900	3,120
	Vibration Management Enhancement Program			3,000	2,400
	<b>AIRCRAFT MODIFICATIONS/PRODUCT IMPROVEMENT</b>				
150	PROGRAMS	209,401	209,401	214,817	214,107
	D18 - JCA PQT and LFT&E non-Army requirements			-984	-984
	UH-60 Aviation Software Performance Assessment Test Bed			6,400	5,680
	<b>OTHER MISSILE PRODUCT IMPROVEMENT</b>				
155	PROGRAMS	0	5,000	0	4,000
	Javelin Warhead Improvement Program		5,000		4,000
162	INFORMATION SYSTEMS SECURITY PROGRAM	74,355	74,355	61,455	58,955
	BEC EMD contract funds requested ahead of need			-10,100	-10,100
	JPIv2 EMD contract funds requested ahead of need			-6,800	-6,800
	Biometrics DNA Applications			4,000	1,500
166	JOINT COMMAND AND CONTROL PROGRAM (JC2)	20,365	20,365	0	0
	NECC program adjustment			-20,365	-20,365

R-1	Budget Request	House	Senate	Recommendation
<b>167 TACTICAL UNMANNED AERIAL VEHICLES</b>	<b>202,521</b>	<b>172,521</b>	<b>172,124</b>	<b>173,521</b>
Unjustified program growth		-30,000		-20,000
UGCS lack of synchronization with Department-wide enterprise			-15,000	-15,000
D09 IOT&E funds requested ahead of need			-22,897	0
4th Generation Wireless Exploitation			3,000	2,400
Shadow TUAS Flight in the National Air Space			2,500	2,000
Tactical UAV, Heavy Fuel Engine			2,000	1,600
<b>DISTRIBUTED COMMON GROUND/SURFACE</b>				
<b>168 SYSTEMS</b>	<b>188,414</b>	<b>188,414</b>	<b>189,714</b>	<b>189,454</b>
Heuristic Internet Protocol Packet Inspection Engine (HIPPIE)			1,300	1,040
<b>170 AERIAL COMMON SENSOR (ACS)</b>	<b>210,035</b>	<b>210,035</b>	<b>0</b>	<b>116,035</b>
Program adjustment			-210,035	-94,000
<b>172 END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES</b>	<b>68,466</b>	<b>94,466</b>	<b>85,766</b>	<b>103,406</b>
Achieving Lightweight Casting Solutions		2,000		1,600
ARL 3D Model-Based Inspection and Scanning		3,000		2,400
De-Weighting Military Vehicles through Advanced Composites Manufacturing Technology		2,000	3,700	2,960
High Performance Alloy Materials and Advanced Manufacturing of Steel Castings for New Light Weight and Robotic Weapon Systems		3,000		2,400
Lightweight Magnesium Parts for Military Applications		2,000		1,600
National Center for Defense Manufacturing and Machining		2,000		1,600
Network Centric Prototype Manufacturing		4,000		4,000
Polymeric Web Run-Flat Tire Inserts for Convoy Protection		3,500		3,500
Smart Machine Platform Initiative		3,000		2,400
Solid State Processing of Titanium Alloys for Advanced Materiel Armaments		1,500		1,200
Aging and Battle Damaged Weapon Systems Repair			1,500	1,200
Improved Manufacturing Processes Demonstration Program for Army Tactical Vehicles			2,000	1,600
Large Structure Titanium Machining Initiative			1,000	800
Legacy Aerospace Gear Drive Re-Engineering Initiative			2,000	2,000
Precision Strike Munitions Advancement with Integrated Millimeter Wave Power Sources to Satisfy Army Strategic Goals			4,100	3,280
Spinel Transparent Armor Production Technology			1,000	800
Superior Weapons Systems through Castings			2,000	1,600
<b>999 CLASSIFIED PROGRAMS</b>	<b>3,883</b>	<b>47,383</b>	<b>3,883</b>	<b>26,683</b>
Asymmetric Threat Response and Analysis Project		2,500		2,000
Army/Joint STARS Surveillance and Control Data Link Technology Refresh		1,000		800
Classified adjustment		40,000		20,000

ENHANCED MEDIUM ALTITUDE RECONNAISSANCE AND  
SURVEILLANCE SYSTEM

The fiscal year 2010 budget request includes \$210,035,000 in Research, Development, Test and Evaluation, Army to initiate the restructured Aerial Common Sensor (ACS) program. However, the Department of Defense has advised that the ACS has been terminated as a program of record and established in its place the Enhanced Medium Altitude Reconnaissance and Surveillance System (EMARSS), which provides a fixed-wing, multi-sensor, integrated intelligence, surveillance and reconnaissance capability to the warfighter. Additionally, the fiscal year 2010 Overseas Contingency Operations (OCO) budget request includes \$105,000,000 to procure EMARSS C-12 aircraft and to modify those aircraft with special mission hardware as a quick reaction capability to satisfy theater-based requirements. The Department based its OCO request on the assumption that ACS would not deliver capability to the war fighter for several years. However, with EMARSS selected as a new program of record in lieu of ACS, the EMARSS quick reaction capability request is duplicative of the program of record, and under current schedules, system deliveries for the program of record are expected shortly after deliveries of the so-called quick reaction capability. Accordingly, the recommendation provides no funding in the OCO title for procurement and modification of C-12 aircraft. In order to establish EMARSS as a program of record while fulfilling urgent theater-based fielding requirements, the recommendation includes \$116,035,000 in Research, Development, Test and Evaluation, Army, to fully fund the new EMARSS program of record and to accelerate its fielding while establishing a standardized, sustainable intelligence, surveillance and reconnaissance program.

REPORT ON THE USE OF LIVE PRIMATES IN TRAINING RELATING TO  
CHEMICAL AND BIOLOGICAL AGENTS

The Secretary of Defense is directed to submit to the congressional defense committees, not later than 90 days after the date of the enactment of this Act, a report setting forth a detailed description of the requirements for use by the Department of Defense of live primates at the United States Army Medical Research Institute of Chemical Defense, and elsewhere, to demonstrate the effects of chemical or biological agents or chemical (such as physostigmine) or biological agent simulants in training programs. The report shall include, at a minimum, the following:

- (1) The number of live primates used in the training;
- (2) The average lifespan of primates from the point of introduction into such training programs;
- (3) An explanation as to why the use of primates in such training is more advantageous and realistic than the use of human simulators or other alternatives; and
- (4) An estimate of the cost of converting from the use of primates to human simulators in such training.

## RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY

For Research, Development, Test and Evaluation, Navy, funds are to  
be available for fiscal year 2010, as follows:

(In thousands of dollars)

	Budget	House	Senate	Recommendation
RESEARCH, DEVELOPMENT, TEST & EVAL, NAVY				
BASIC RESEARCH				
1 UNIVERSITY RESEARCH INITIATIVES.....	99,472	103,472	102,472	102,672
2 IN-HOUSE LABORATORY INDEPENDENT RESEARCH.....	18,076	18,076	18,076	18,076
3 DEFENSE RESEARCH SCIENCES.....	413,743	426,143	423,643	430,903
TOTAL, BASIC RESEARCH.....	531,291	547,691	544,191	551,651
APPLIED RESEARCH				
4 POWER PROJECTION APPLIED RESEARCH.....	59,787	68,787	72,287	77,547
5 FORCE PROTECTION APPLIED RESEARCH.....	91,400	124,900	135,900	146,700
6 MARINE CORPS LANDING FORCE TECHNOLOGY.....	39,308	39,308	46,808	45,808
7 MATERIALS, ELECTRONICS AND COMPUTER TECHNOLOGY.....	---	3,500	---	2,800
8 COMMON PICTURE APPLIED RESEARCH.....	83,163	85,963	89,863	90,903
9 WARFIGHTER SUSTAINMENT APPLIED RESEARCH.....	104,169	104,169	122,569	119,289
10 RF SYSTEMS APPLIED RESEARCH.....	64,616	66,316	66,616	69,616
11 OCEAN WARFIGHTING ENVIRONMENT APPLIED RESEARCH.....	48,750	53,750	51,750	53,950
12 JOINT NON-LETHAL WEAPONS APPLIED RESEARCH.....	6,008	6,008	6,008	6,008
13 UNDERSEA WARFARE APPLIED RESEARCH.....	55,694	60,194	63,194	65,294
14 MINE AND EXPEDITIONARY WARFARE APPLIED RESEARCH.....	40,880	40,880	44,380	44,080
TOTAL, APPLIED RESEARCH.....	593,975	665,775	699,375	721,995
ADVANCED TECHNOLOGY DEVELOPMENT				
15 POWER PROJECTION ADVANCED TECHNOLOGY.....	107,969	125,869	106,869	116,669
16 FORCE PROTECTION ADVANCED TECHNOLOGY.....	66,035	91,935	75,235	93,355
17 COMMON PICTURE ADVANCED TECHNOLOGY.....	108,394	49,284	110,394	109,994
18 WARFIGHTER SUSTAINMENT ADVANCED TECHNOLOGY.....	86,239	95,039	86,239	93,279
19 ELECTROMAGNETIC SYSTEMS ADVANCED TECHNOLOGY.....	65,827	65,827	76,327	75,827
20 MARINE CORPS ADVANCED TECHNOLOGY DEMONSTRATION (ATD)...	107,363	114,863	115,363	121,063
21 JOINT NON-LETHAL WEAPONS TECHNOLOGY DEVELOPMENT.....	10,998	11,998	10,998	11,798
22 WARFIGHTER PROTECTION ADVANCED TECHNOLOGY.....	18,609	52,609	20,609	52,109
23 UNDERSEA WARFARE ADVANCED TECHNOLOGY.....	68,037	76,037	68,037	74,037
24 NAVY WARFIGHTING EXPERIMENTS AND DEMONSTRATIONS.....	52,643	52,643	52,643	52,643

(In thousands of dollars)

	Budget	House	Senate	Recommendation
25 MINE AND EXPEDITIONARY WARFARE ADVANCED TECHNOLOGY....	28,782	30,782	28,782	30,382
TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	720,896	766,886	751,496	831,176
DEMONSTRATION & VALIDATION				
26 AIR/OCEAN TACTICAL APPLICATIONS.....	118,082	117,982	117,482	119,002
27 AVIATION SURVIVABILITY.....	6,505	19,505	18,005	27,405
28 DEPLOYABLE JOINT COMMAND AND CONTROL.....	6,032	9,832	6,032	9,072
29 ASW SYSTEMS DEVELOPMENT.....	16,585	26,455	19,585	25,680
30 TACTICAL AIRBORNE RECONNAISSANCE.....	7,713	10,213	7,713	9,713
31 ADVANCED COMBAT SYSTEMS TECHNOLOGY.....	1,677	4,177	1,677	3,677
32 SURFACE AND SHALLOW WATER MINE COUNTERMEASURES.....	76,739	86,739	84,739	92,739
33 SURFACE SHIP TORPEDO DEFENSE.....	57,538	70,038	57,538	67,538
34 CARRIER SYSTEMS DEVELOPMENT.....	173,594	173,594	176,794	176,554
35 SHIPBOARD SYSTEM COMPONENT DEVELOPMENT.....	1,691	13,791	21,491	30,351
36 PILOT FISH.....	79,194	79,194	79,194	79,194
37 RETRACT LARCH.....	99,757	99,757	99,757	109,757
38 RETRACT JUNIPER.....	120,752	120,752	114,752	114,752
39 RADIOLOGICAL CONTROL.....	1,372	1,372	1,372	1,372
40 SURFACE ASW.....	21,995	23,995	21,995	23,595
41 ADVANCED SUBMARINE SYSTEM DEVELOPMENT.....	551,836	554,836	550,836	551,836
42 SUBMARINE TACTICAL WARFARE SYSTEMS.....	10,172	11,172	12,172	12,572
43 SHIP CONCEPT ADVANCED DESIGN.....	22,541	22,541	22,541	22,541
44 SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES.....	28,135	40,935	28,135	38,375
45 ADVANCED NUCLEAR POWER SYSTEMS.....	259,887	259,887	259,887	259,887
46 ADVANCED SURFACE MACHINERY SYSTEMS.....	5,599	13,199	19,399	20,639
47 CHALK EAGLE.....	443,555	443,555	443,555	443,555
48 LITTORAL COMBAT SHIP (LCS).....	360,518	366,918	360,518	424,518
49 COMBAT SYSTEM INTEGRATION.....	22,558	22,558	22,558	22,558
50 CONVENTIONAL MUNITIONS.....	3,458	4,458	3,458	4,258
51 MARINE CORPS ASSAULT VEHICLES.....	293,466	243,466	293,466	293,466
53 MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM.....	73,798	73,798	59,798	78,598

(In thousands of dollars)

	Budget	House	Senate	Recommendation
54 JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT.....	21,054	21,054	21,054	21,054
55 COOPERATIVE ENGAGEMENT.....	56,586	61,586	56,586	60,586
56 OCEAN ENGINEERING TECHNOLOGY DEVELOPMENT.....	17,328	17,328	17,328	17,328
57 ENVIRONMENTAL PROTECTION.....	20,661	20,661	21,661	21,461
58 NAVY ENERGY PROGRAM.....	8,476	13,476	17,876	18,996
59 FACILITIES IMPROVEMENT.....	4,002	9,202	7,402	10,082
60 CHALK CORAL.....	70,772	70,772	70,772	70,772
61 NAVY LOGISTIC PRODUCTIVITY.....	4,301	7,101	16,001	15,101
62 RETRACT MAPLE.....	210,237	210,237	210,237	210,237
63 LINK PLUMERIA.....	69,313	69,313	63,313	63,313
64 RETRACT ELM.....	152,151	152,151	152,151	152,151
65 SHIP SELF DEFENSE.....	6,960	6,960	6,960	6,960
66 LINK EVERGREEN.....	123,660	123,660	123,660	123,660
67 SPECIAL PROCESSES.....	54,115	54,115	54,115	54,115
68 NATO RESEARCH AND DEVELOPMENT.....	10,194	10,194	10,194	10,194
69 LAND ATTACK TECHNOLOGY.....	1,238	8,238	1,238	6,838
70 NONLETHAL WEAPONS.....	46,971	49,871	46,971	49,291
71 JOINT PRECISION APPROACH AND LANDING SYSTEMS.....	150,304	150,304	150,304	150,304
72 SINGLE INTEGRATED AIR PICTURE (SIAP) SYSTEM ENGINEER..	52,716	52,716	52,716	52,716
74 DIRECTED ENERGY AND ELECTRIC WEAPON SYSTEMS.....	5,003	22,003	8,003	19,303
75 TACTICAL AIR DIRECTIONAL INFRARED COUNTERMEASURES....	63,702	63,702	50,702	50,702
77 JOINT COUNTER RADIO CONTROLLED IED ELECTRONIC WARFARE.	67,843	67,843	32,843	55,843
78 PRECISION STRIKE WEAPONS DEVELOPMENT PROGRAM.....	40,926	40,926	40,926	40,926
79 SPACE & ELECTRONIC WARFARE (SEW) ARCHITECTURE/ENGINE..	42,533	42,533	40,533	40,533
TOTAL, DEMONSTRATION & VALIDATION.....	4,163,795	4,260,665	4,177,995	4,385,670
ENGINEERING & MANUFACTURING DEVELOPMENT				
80 OTHER HELO DEVELOPMENT.....	54,092	54,092	54,092	54,092
81 AV-8B AIRCRAFT - ENG DEV.....	20,886	20,886	20,886	20,886
82 STANDARDS DEVELOPMENT.....	53,540	59,340	53,540	59,340

(In thousands of dollars)

	Budget	House	Senate	Recommendation
83 MULTI-MISSION HELICOPTER UPGRADE DEVELOPMENT.....	81,953	81,953	76,553	75,613
84 AIR/OCEAN EQUIPMENT ENGINEERING.....	7,485	7,485	7,485	7,485
85 P-3 MODERNIZATION PROGRAM.....	3,659	3,659	3,659	3,659
86 WARFARE SUPPORT SYSTEM.....	6,307	6,307	6,307	6,307
87 TACTICAL COMMAND SYSTEM.....	86,462	95,462	86,462	92,862
88 ADVANCED HAWKEYE.....	364,557	362,557	364,557	362,557
89 H-1 UPGRADES.....	32,830	25,830	32,830	32,830
90 ACOUSTIC SEARCH SENSORS.....	56,369	56,369	56,369	56,369
91 V-22A.....	89,512	89,512	64,512	77,012
92 AIR CREW SYSTEMS DEVELOPMENT.....	14,265	12,565	14,265	12,565
93 EA-18.....	55,446	57,446	55,446	57,046
94 ELECTRONIC WARFARE DEVELOPMENT.....	97,635	101,635	102,635	105,635
95 VHXX EXECUTIVE HELO DEVELOPMENT.....	85,240	485,240	30,000	130,000
96 NEXT GENERATION JAMMER (NGJ).....	127,970	117,970	127,970	117,970
97 JOINT TACTICAL RADIO SYSTEM - NAVY (JTRS-NAVY).....	876,374	880,874	876,374	879,974
98 SC-21 TOTAL SHIP SYSTEM ENGINEERING.....	---	5,000	5,000	8,000
99 SURFACE COMBATANT COMBAT SYSTEM ENGINEERING.....	178,459	185,459	178,459	184,059
100 LPD-17 CLASS SYSTEMS INTEGRATION.....	5,304	5,304	5,304	5,304
101 SMALL DIAMETER BOMB (SDB).....	43,902	43,902	43,902	43,902
102 STANDARD MISSILE IMPROVEMENTS.....	182,197	168,197	182,197	167,997
103 AIRBORNE MCM.....	48,712	51,712	48,712	51,112
104 NAVAL INTEGRATED FIRE CONTROL-COUNTER AIR SYSTEMS ENG.	11,727	11,727	11,727	11,727
105 ADVANCED ABOVE WATER SENSORS.....	236,078	259,078	236,078	252,478
106 SSN-688 AND TRIDENT MODERNIZATION.....	122,733	122,733	121,733	121,333
107 AIR CONTROL.....	6,533	6,533	6,533	6,533
108 SHIPBOARD AVIATION SYSTEMS.....	80,623	82,123	77,623	78,823
109 COMBAT INFORMATION CENTER CONVERSION.....	13,305	13,305	13,305	13,305
110 NEW DESIGN SSN.....	154,756	195,256	162,756	185,156
112 SUBMARINE TACTICAL WARFARE SYSTEM.....	59,703	62,203	66,703	67,303

(In thousands of dollars)

	Budget	House	Senate	Recommendation
113 SHIP CONTRACT DESIGN/LIVE FIRE T&E.....	89,988	92,488	91,988	91,988
114 NAVY TACTICAL COMPUTER RESOURCES.....	4,620	4,620	4,620	4,620
115 MINE DEVELOPMENT.....	2,249	2,249	2,249	2,249
116 LIGHTWEIGHT TORPEDO DEVELOPMENT.....	21,105	21,105	24,105	23,505
117 JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT.....	10,327	10,327	10,327	10,327
118 PERSONNEL, TRAINING, SIMULATION, AND HUMAN FACTORS.....	5,898	6,898	5,898	6,698
119 JOINT STANDOFF WEAPON SYSTEMS.....	10,022	10,022	10,022	10,022
120 SHIP SELF DEFENSE (DETECT & CONTROL).....	35,459	37,459	46,459	44,559
121 SHIP SELF DEFENSE (ENGAGE: HARD KILL).....	34,236	35,736	46,236	46,236
122 SHIP SELF DEFENSE (ENGAGE: SOFT KILL/EW).....	88,895	88,895	88,895	88,895
123 INTELLIGENCE ENGINEERING.....	14,438	14,438	14,438	14,438
124 MEDICAL DEVELOPMENT.....	9,888	33,788	22,288	56,928
125 NAVIGATION/ID SYSTEM.....	63,184	63,184	63,184	63,184
127 JOINT STRIKE FIGHTER (JSF).....	1,741,296	1,956,296	1,663,296	1,956,296
128 INFORMATION TECHNOLOGY DEVELOPMENT.....	9,868	9,868	9,868	9,868
129 INFORMATION TECHNOLOGY DEVELOPMENT.....	69,026	75,826	90,126	91,866
130 CH-53K.....	554,827	524,443	554,827	524,443
132 JOINT AIR-TO-GROUND MISSILE (JAGM).....	81,434	77,734	81,434	77,734
133 MULTI-MISSION MARITIME AIRCRAFT (MMA).....	1,162,417	1,182,417	1,162,417	1,175,417
134 CG(X).....	150,022	110,022	86,022	46,022
135 DDG-1000.....	539,053	539,053	526,453	526,453
136 TACTICAL CRYPTOLOGIC SYSTEMS.....	19,016	20,516	19,016	19,916
TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT.....	7,975,882	8,649,098	7,818,142	8,240,898
RDT&E MANAGEMENT SUPPORT				
137 THREAT SIMULATOR DEVELOPMENT.....	25,534	27,534	25,534	27,134
138 TARGET SYSTEMS DEVELOPMENT.....	79,603	79,603	79,603	79,603
139 MAJOR T&E INVESTMENT.....	44,844	51,544	49,844	51,844
140 STUDIES AND ANALYSIS SUPPORT - NAVY.....	11,422	12,422	11,422	12,422
141 CENTER FOR NAVAL ANALYSES.....	49,821	49,821	49,821	49,821

(In thousands of dollars)

	Budget	House	Senate	Recommendation
142 SMALL BUSINESS INNOVATIVE RESEARCH.....	---	---	2,000	1,600
143 TECHNICAL INFORMATION SERVICES.....	735	4,735	19,735	20,835
144 MANAGEMENT, TECHNICAL & INTERNATIONAL SUPPORT.....	60,590	60,590	60,590	60,590
145 STRATEGIC TECHNICAL SUPPORT.....	3,633	3,633	3,633	3,633
146 RDT&E SCIENCE AND TECHNOLOGY MANAGEMENT.....	70,942	70,942	70,942	70,942
148 RDT&E SHIP AND AIRCRAFT SUPPORT.....	193,353	193,353	183,353	193,353
149 TEST AND EVALUATION SUPPORT.....	380,733	380,733	380,733	370,733
150 OPERATIONAL TEST AND EVALUATION CAPABILITY.....	12,010	12,010	12,010	12,010
151 NAVY SPACE AND ELECTRONIC WARFARE (SEW) SUPPORT.....	2,703	2,703	2,703	2,703
152 SEW SURVEILLANCE/RECONNAISSANCE SUPPORT.....	20,921	20,921	20,921	20,921
153 MARINE CORPS PROGRAM WIDE SUPPORT.....	19,004	20,004	19,004	19,804
154 TACTICAL CRYPTOLOGIC ACTIVITIES.....	2,464	2,464	2,464	2,464
155 SERVICE SUPPORT TO JFCOM, JNTC.....	4,197	4,197	4,197	4,197
<b>TOTAL, RDT&amp;E MANAGEMENT SUPPORT.....</b>	<b>982,509</b>	<b>987,209</b>	<b>998,509</b>	<b>1,004,609</b>
OPERATIONAL SYSTEMS DEVELOPMENT				
159 UNMANNED COMBAT AIR VEHICLE (UCAV) ADVANCED COMPONENT.....	311,204	306,204	311,204	306,204
160 STRATEGIC SUB & WEAPONS SYSTEM SUPPORT.....	74,939	75,139	69,439	69,699
161 SSBN SECURITY TECHNOLOGY PROGRAM.....	34,479	34,479	34,479	34,479
162 SUBMARINE ACOUSTIC WARFARE DEVELOPMENT.....	7,211	7,211	7,211	7,211
163 NAVY STRATEGIC COMMUNICATIONS.....	43,982	23,982	46,982	46,382
164 RAPID TECHNOLOGY TRANSITION (RTT).....	39,125	39,125	39,125	39,125
165 F/A-18 SQUADRONS.....	127,733	127,733	122,333	121,613
166 E-2 SQUADRONS.....	63,058	63,058	63,058	63,058
167 FLEET TELECOMMUNICATIONS (TACTICAL).....	37,431	37,431	37,431	37,031
168 TOMAHAWK AND TOMAHAWK MISSION PLANNING CENTER (TMPC).....	13,238	14,038	17,338	17,158
169 INTEGRATED SURVEILLANCE SYSTEM.....	24,835	26,835	24,835	26,435
170 AMPHIBIOUS TACTICAL SUPPORT UNITS.....	2,324	2,324	2,324	2,324
171 CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT.....	49,293	52,293	39,293	41,693
172 CRYPTOLOGIC DIRECT SUPPORT.....	1,609	1,609	1,609	1,609
173 ELECTRONIC WARFARE (EW) READINESS SUPPORT.....	37,524	37,524	37,524	37,524

(In thousands of dollars)

	Budget	House	Senate	Recommendation
174 HARM IMPROVEMENT.....	30,045	30,045	30,045	30,045
175 TACTICAL DATA LINKS.....	25,003	25,003	15,003	15,003
176 SURFACE ASM COMBAT SYSTEM INTEGRATION.....	41,803	41,803	41,803	41,803
177 MK-48 ADCAP.....	28,438	38,438	28,438	34,438
178 AVIATION IMPROVEMENTS.....	135,840	127,349	134,149	135,189
179 NAVY SCIENCE ASSISTANCE PROGRAM.....	3,716	3,716	3,716	3,716
180 OPERATIONAL NUCLEAR POWER SYSTEMS.....	72,031	72,031	72,031	72,031
181 MARINE CORPS COMMUNICATIONS SYSTEMS.....	287,348	291,848	277,348	280,748
182 MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYSTEMS....	120,379	124,179	106,479	109,319
183 MARINE CORPS COMBAT SERVICES SUPPORT.....	17,057	17,057	21,457	20,577
184 USMC INTELLIGENCE/ELECTRONIC WARFARE SYSTEMS (MIP)....	30,167	29,900	30,167	29,900
185 TACTICAL AIM MISSILES.....	2,298	2,298	2,298	2,298
186 ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM).....	3,604	3,604	3,604	3,604
187 JOINT HIGH SPEED VESSEL (JHSV).....	8,431	8,431	8,431	8,431
192 SATELLITE COMMUNICATIONS (SPACE).....	474,009	474,009	474,009	474,009
193 CONSOLIDATED AFLOAT NETWORK ENTERPRISE SERVICES.....	45,513	45,513	45,513	45,513
194 INFORMATION SYSTEMS SECURITY PROGRAM.....	24,226	24,226	29,226	29,226
195 JOINT COMMAND AND CONTROL PROGRAM (JC2).....	2,453	2,453	---	---
196 JOINT COMMAND AND CONTROL PROGRAM (JC2).....	4,139	4,139	---	---
197 COBRA JUDY.....	62,061	62,061	62,061	62,061
198 NAVY METEOROLOGICAL AND OCEAN SENSORS-SPACE (METOC)....	28,094	29,094	28,094	28,894
199 JOINT MILITARY INTELLIGENCE PROGRAMS.....	4,600	7,000	4,600	6,520
200 TACTICAL UNMANNED AERIAL VEHICLES.....	8,971	8,971	8,871	8,871
202 AIRBORNE RECONNAISSANCE SYSTEMS.....	46,208	52,458	50,558	55,558
203 MANNED RECONNAISSANCE SYSTEMS.....	22,599	19,899	22,599	19,899
204 DISTRIBUTED COMMON GROUND SYSTEMS.....	18,079	12,379	18,079	12,379
205 RQ-4 UAV.....	465,839	380,839	465,839	440,839
206 MQ-8 UAV.....	25,639	25,639	25,639	25,639
207 RQ-11 UAV.....	553	553	553	553

(In thousands of dollars)

	Budget	House	Senate	Recommendation
208 RQ-7 UAV.....	986	986	986	986
209 SMALL (LEVEL 0) TACTICAL UAS (STUASLO).....	18,763	18,763	18,763	18,763
210 SMALL (LEVEL 0) TACTICAL UAS (STUASLO).....	23,594	23,594	23,594	23,594
212 EP-3E REPLACEMENT (EPX).....	11,976	11,976	11,976	11,976
213 MODELING AND SIMULATION SUPPORT.....	8,028	8,028	8,028	8,028
214 DEPOT MAINTENANCE (NON-IF).....	14,675	14,675	14,675	14,675
215 AVIONICS COMPONENT IMPROVEMENT PROGRAM.....	2,725	3,725	2,725	3,525
216 INDUSTRIAL PREPAREDNESS.....	56,691	69,191	66,941	75,191
MARITIME TECHNOLOGY (MARITECH).....	---	1,000	4,000	4,100
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	3,044,566	2,966,858	3,016,483	3,009,446
999 CLASSIFIED PROGRAMS.....	1,258,018	1,353,118	1,142,318	1,258,018
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, NAVY.....	19,270,932	20,197,300	19,148,509	20,003,463

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

R-1	Budget Request	House	Senate	Recommendation
<b>1 UNIVERSITY RESEARCH INITIATIVES</b>	<b>99,472</b>	<b>103,472</b>	<b>102,472</b>	<b>102,672</b>
Center for Assured Critical Application and Infrastructure Security		1,500		1,200
Ship Model Testing		2,500		2,000
Molecular Electronics for Flash Memory Production (transferred to RDT&E, Army line number 3)			3,000	
<b>3 DEFENSE RESEARCH SCIENCES</b>	<b>413,743</b>	<b>426,143</b>	<b>423,643</b>	<b>430,903</b>
Characterization and Exploitation of Magnetic and Electric Fields in the Coastal Ocean Environment		2,500		2,000
Energetics S&T Workforce Development		3,500		3,500
Next Generation Manufacturing Processes and Systems		1,500		1,200
ONAMI Nanoelectronics, Nanometrology and Nanobiotechnology Initiative		2,500	4,800	3,840
Shock and Vibration Modeling of Marine Composites Waves, Wind and Scavengers: Next Generation		2,400		1,920
Renewable Energy Systems for Naval Applications			2,000	2,000
Texas Microfactory			2,000	1,600
Human Neural Cell-Based Biosensor			1,100	1,100
<b>4 POWER PROJECTION APPLIED RESEARCH</b>	<b>59,787</b>	<b>68,787</b>	<b>72,287</b>	<b>77,547</b>
Aging Military Aircraft Fleet Support		2,000		1,600
Electronic Motion Actuation Systems		1,000		800
Multifunctional Materials, Devices, and Applications		2,000		1,600
Strike Weapon Propulsion		4,000		3,200
Advanced Helicopter Landing Aid			800	800
Combustion Light Gas Gun Projectile			5,000	4,000
Enhanced EO/IR Sensors			3,000	2,400
Naval Advanced Electric Launcher System			2,000	2,000
Millimeter Wave Imaging			1,700	1,360
<b>5 FORCE PROTECTION APPLIED RESEARCH</b>	<b>91,400</b>	<b>124,900</b>	<b>135,900</b>	<b>146,700</b>
Advanced Battery System for Military Avionics Power Systems		2,000		1,600
Advanced Energetics Initiative		4,000		4,000
Advanced Simulation Tools for Composite Aircraft Structures		2,000		1,600
Energetic Nano-Materials Agent Defeat Initiative		2,000		1,600
Center for Autonomous Solar Power - Supercapacitors for Integrated Power Storage		5,000	2,500	4,000
Advanced Composite Manufacturing for Composite High- Speed Boat Design		2,000		1,600
Non Traditional Ballistic Fiber and Fabric Weaving Application for Force Protection		2,500		2,000
Integration of Electro-Kinetic Weapons into Next Generation Navy Ships		5,000	4,000	4,000
Lithium Ion Storage Advancement for Aircraft Applications		2,500		2,000
Multi-Mission Unmanned Surface Vessel		2,500		2,000
Program Increase - Hybrid Power Systems		4,000		2,000
Alternative Energy Research			25,000	18,500
Carbon Composite Thin Films for Power Generation and Energy Storage			2,000	1,600
Magnetic Refrigeration Technology for Naval Applications			5,000	4,000

R-1		Budget Request	House	Senate	Recommendation
	Fuel Efficient, High Specific Power Free Piston Engine for USSVs			2,000	1,600
	Harbor Shield - Homeland Defense Port Security Initiative			2,000	1,600
	Proton Exchange Membrane Fuel Cell for Underwater Vehicles			2,000	1,600
<b>6</b>	<b>MARINE CORPS LANDING FORCE TECHNOLOGY</b>	<b>39,308</b>	<b>39,308</b>	<b>46,808</b>	<b>45,808</b>
	Warfighter Rapid Awareness Processing Technologies			5,000	4,500
	High Power Ultra Lightweight Zinc-Air Battery			2,500	2,000
<b>7</b>	<b>MATERIALS, ELECTRONICS AND COMPUTER TECHNOLOGY</b>	<b>0</b>	<b>3,500</b>	<b>0</b>	<b>2,800</b>
	Infrared Materials Laboratory		3,500		2,800
<b>8</b>	<b>COMMON PICTURE APPLIED RESEARCH</b>	<b>83,163</b>	<b>85,963</b>	<b>89,663</b>	<b>90,303</b>
	Cognitive Radio Institute		1,000		800
	Sensor Integration Framework		1,800		1,440
	Intelligent Decision Exploration			4,500	3,900
	Head Attitude Tracking System			2,000	1,600
<b>9</b>	<b>WARFIGHTER SUSTAINMENT APPLIED RESEARCH</b>	<b>104,169</b>	<b>104,169</b>	<b>122,569</b>	<b>119,289</b>
	Composite Materials Enhancements through Polymer Science R&D			5,900	5,120
	Productionization of Anti-fouling and Fouling Release Coating Systems			3,500	2,800
	Nanotechnology for Anti-Reverse Engineering			3,000	2,400
	Biosensors for Defense Applications			1,000	800
	Managing and Extending DoD Asset Lifecycles			2,000	1,600
	Advanced Composite Maritime Manufacturing			2,000	1,600
	Assistive Technologies for Injured Service Members			1,000	800
<b>10</b>	<b>RF SYSTEMS APPLIED RESEARCH</b>	<b>64,816</b>	<b>68,316</b>	<b>66,816</b>	<b>69,616</b>
	Gallium Nitride (GaN) Power Technology		2,000		1,600
	Silicon Carbide Wafer Production - Process Development for Low Defect Power Electronics		1,500		1,200
	National Initiatives for Applications of Multifunctional Materials			2,000	2,000
<b>11</b>	<b>OCEAN WARFIGHTING ENVIRONMENT APPLIED RESEARCH</b>	<b>48,750</b>	<b>53,750</b>	<b>51,750</b>	<b>53,950</b>
	Autonomous Marine Sensors and Networks for Rapid Littoral Assessment		3,000		2,400
	Underwater Imaging and Communications Using Lasers		2,000	2,000	2,000
	Unmanned Undersea Vehicle Submerged Long Range Positioning			1,000	800
<b>13</b>	<b>UNDERSEA WARFARE APPLIED RESEARCH</b>	<b>55,694</b>	<b>60,194</b>	<b>63,194</b>	<b>65,294</b>
	Autonomous UUV Delivery and Communication System Integration		4,500		3,600
	Advanced High Energy Density Surveillance Power Module			4,000	3,200
	Gallienol Energy Harvesting			3,500	2,800
<b>14</b>	<b>MINE AND EXPEDITIONARY WARFARE APPLIED RESEARCH</b>	<b>40,880</b>	<b>40,880</b>	<b>44,380</b>	<b>44,080</b>
	Electromagnetic Signatures Assessment System Using Multiple Autonomous Undersea Vehicles, Phase III			2,000	2,000
	Virtual Onboard Analyst for Multi-Sensor Mine Detection			1,500	1,200

R-1		Budget Request	House	Senate	Recommendation
15	<b>POWER PROJECTION ADVANCED TECHNOLOGY</b>	107,969	125,869	106,869	116,689
	AARGM Counter Air Defense Future Capabilities		2,500		2,000
	Countermine LIDAR UAV-Based Systems		2,000	1,400	1,600
	Flow Path Analysis Tool		2,000		1,600
	Moving Target Indicator Scout Radar		1,000		800
	Quiet Drive Advanced Rotary Actuator		2,000		1,600
	Smart Instrument Development for the Magdalena Ridge Observatory		2,000	5,000	4,000
	Tactical High Speed Anti-Radiation Missile Propulsion Demonstration		1,900		1,520
	X-49A Envelope Expansion Modifications		4,500		3,600
	Reduction to growth			-10,000	-10,000
	Detection, Tracking, and Identification for ISRTE of Mobile and Asymmetric Targets			2,500	2,000
16	<b>FORCE PROTECTION ADVANCED TECHNOLOGY</b>	66,035	91,935	75,235	93,355
	Accelerating Fuel Cells Manufacturability		2,000		1,600
	Advanced Logistics Fuel Reformer for Fuel Cells (Phase II)		3,000		2,400
	Agile Port and High Speed Ship Technology		2,000		1,600
	HBCU Applied Research Incubator		1,000		800
	High Power Density Motor Drive		3,600		2,880
	High Temperature Radar Dome Materials		2,000		1,600
	High Temperature Superconductor Trap Field Magnet Motor		1,000		800
	Multi-Element Structured Filter Arrays for Naval Platforms		4,300		3,440
	NAVAIR Project for Land/Sea-Based Air Systems Maintenance and Air Worthiness		2,000	2,000	2,000
	Pure Hydrogen Supply from Logistic Fuels		3,000		2,400
	Wide Area Sensor Force Protection Targeting		2,000		1,600
	Single Generator Operations Lithium Ion Battery			5,000	4,000
	Captive Air Amphibious Transporter			2,200	2,200
17	<b>COMMON PICTURE ADVANCED TECHNOLOGY</b>	108,394	49,284	110,394	109,994
	High Integrity Global Positioning System		-59,110		
	4-D Data Fusion Visualization			2,000	1,600
	<b>WARFIGHTER SUSTAINMENT ADVANCED TECHNOLOGY</b>	86,239	95,039	86,239	93,279
	Intelligent Retrieval of Imagery		2,500		2,000
	Marine Corps Cultural and Language Training Platform		800		640
	Nanofluidic Lubricants for Increased Fuel Efficiency in Heavy Duty Vehicles		1,500		1,200
	Environmentally Sealed, Ruggedized Avionics Displays		4,000		3,200
	<b>ELECTROMAGNETIC SYSTEMS ADVANCED TECHNOLOGY</b>	65,827	65,827	76,327	75,827
	Reduction to new starts			-7,000	-7,000
	Pacific Airborne Surveillance and Testing			17,500	17,000
20	<b>MARINE CORPS ADVANCED TECHNOLOGY DEMONSTRATION (ATD)</b>	107,363	114,863	115,363	121,063
	California Central Coast Partnership Research		3,500		2,800
	Enhanced Small Arms Protective Insert		2,000		1,600
	Near Infrared Optical Augmentation System		2,000		1,600
	Ground Warfare Acoustical Combat Systems of Netted Sensors			5,000	5,000
	Marine Air-Ground Task Force Situational Awareness			3,000	2,700

R-1		Budget Request	House	Senate	Recommendation
	<b>JOINT NON-LETHAL WEAPONS TECHNOLOGY</b>				
21	<b>DEVELOPMENT</b>	10,998	11,998	10,998	11,798
	Dynamic Eye-Safe Imaging Laser		1,000		800
	<b>WARFIGHTER PROTECTION ADVANCED TECHNOLOGY</b>				
22	<b>TECHNOLOGY</b>	18,609	52,609	20,609	52,109
	Navy Special Warfare Performance and Injury Prevention Program for Special Boat Team 22		2,500	2,000	2,000
	C.W. Bill Young Bone Marrow Donor Recruitment and Research Program		31,500		31,500
23	<b>UNDERSEA WARFARE ADVANCED TECHNOLOGY</b>	68,037	76,037	68,037	74,037
	Underwater Explosives and Warhead Research		3,000		3,000
	Program Increase - ASW Research		5,000		3,000
	<b>MINE AND EXPEDITIONARY WARFARE ADVANCED TECHNOLOGY</b>				
25	<b>TECHNOLOGY</b>	28,782	30,782	28,782	30,382
	Joint Explosive Ordnance Disposal Diver Situational Awareness System		2,000		1,600
26	<b>AIR/OCEAN TACTICAL APPLICATIONS</b>	116,082	117,982	117,482	119,002
	Non-Gasoline Burning Outboard Engine		1,900		1,520
	Semi-Submersible UUV for Sensor Enhancements			1,400	1,400
27	<b>AVIATION SURVIVABILITY</b>	6,505	19,505	18,005	27,405
	Common Safety System Controller		3,000		2,400
	Improved Capabilities for Irregular Warfare Platforms		4,000		4,000
	Lighter-than-Air Stratospheric Unmanned Aerial Vehicle for Persistent Communications Relay and Surveillance		3,000		2,400
	Military Upset Recovery Training		1,000		800
	Modular Advanced Vision System		2,000		1,600
	Integrated Manifold and Tube Ceramic Oxygen Generator			6,000	4,800
	Conformal Ceramics for Enhanced Aviation Armor Systems			2,500	2,500
	Unmanned Vehicle Sensor Optimization Technologies Program			3,000	2,400
28	<b>DEPLOYABLE JOINT COMMAND AND CONTROL</b>	6,032	9,832	6,032	9,072
	Deployable Command and Control Vehicle		3,800		3,040
29	<b>ASW SYSTEMS DEVELOPMENT</b>	16,585	26,455	19,585	25,680
	Air Readiness/Effectiveness Measurement Program		2,000		1,600
	Marine Mammal Awareness, Alert and Response Systems		3,000		2,400
	Marine Mammal Detection System		2,000	2,000	2,000
	Marine Species Mitigation		2,870		2,295
	Sonobuoy Wave-Energy Module			1,000	800
30	<b>TACTICAL AIRBORNE RECONNAISSANCE</b>	7,713	10,213	7,713	9,713
	Precision Engagement Technologies for Unmanned Systems		2,500		2,000
31	<b>ADVANCED COMBAT SYSTEMS TECHNOLOGY</b>	1,677	4,177	1,677	3,677
	Maintenance Free Operating Period		2,500		2,000

R-1	Budget Request	House	Senate	Recommendation
<b>SURFACE AND SHALLOW WATER MINE</b>				
<b>32 COUNTERMEASURES</b>	<b>76,739</b>	<b>86,739</b>	<b>84,739</b>	<b>92,739</b>
Persistent Autonomous Maritime Surveillance		5,000		5,000
Program Increase - Minehunting Sonar		5,000		3,000
RMS transfer from Other Procurement ,Navy line number 29			8,000	8,000
<b>33 SURFACE SHIP TORPEDO DEFENSE</b>	<b>57,538</b>	<b>70,038</b>	<b>57,538</b>	<b>67,538</b>
AN/SLO-25D Integration		8,000		6,400
Continuous Active Sonar for Torpedo DCL Systems		4,500		3,600
<b>34 CARRIER SYSTEMS DEVELOPMENT</b>	<b>173,594</b>	<b>173,594</b>	<b>176,794</b>	<b>176,554</b>
Composite Mast for CVNs			3,200	2,980
<b>35 SHIPBOARD SYSTEM COMPONENT DEVELOPMENT</b>	<b>1,691</b>	<b>13,791</b>	<b>21,491</b>	<b>30,351</b>
Advanced Fuel Filtration System		1,500		1,200
High-Shock 100 Amp Current Limiting Circuit Breaker		600		600
Integrated Condition Assessment and Reliability Engineering		1,000		800
Integrated Power System Power Dense Harmonic Filter Design		2,000		1,600
IP over Power Line Carrier Network Integration with ICAS		2,000		1,600
Landing Craft Composite Lift Fan		1,500		1,200
Shipboard Wireless Maintenance Assistant		1,500		1,200
Integrated Power System Converter		2,000		1,600
DDG-51 Hybrid Drive System			8,100	8,100
Advanced Steam Turbine			4,000	4,000
Propulsion Manufacturing Technology Development			4,700	3,760
Advanced Fluid Controls for Shipboard Application			3,000	3,000
<b>37 RETRACT LARCH</b>	<b>99,757</b>	<b>99,757</b>	<b>99,757</b>	<b>109,757</b>
Transfer from RDT&E, Defense-Wide line number 70				10,000
<b>38 RETRACT JUNIPER</b>	<b>120,752</b>	<b>120,752</b>	<b>114,752</b>	<b>114,752</b>
Program adjustment			-6,000	-6,000
<b>40 SURFACE ASW</b>	<b>21,995</b>	<b>23,995</b>	<b>21,995</b>	<b>23,595</b>
Low Frequency Active Towed Sonar System Organic ASW Capability		2,000		1,600
<b>41 ADVANCED SUBMARINE SYSTEM DEVELOPMENT</b>	<b>551,836</b>	<b>554,836</b>	<b>550,836</b>	<b>551,836</b>
Program delay		-4,000		-4,000
SSBN(X) Systems Development		2,500		2,000
Submarine Fatline Vector Sensor Towed Array		2,000		1,600
Underwater Explosion Modeling and Simulation for Ohio Class Replacement Composite Non-Pressure Hull Fairing		2,500		2,000
Organic Submarine ISRT Demonstration (IRST OSAID)			3,000	2,400
Undersea Superiority program support			-4,000	-4,000
<b>42 SUBMARINE TACTICAL WARFARE SYSTEMS</b>	<b>10,172</b>	<b>11,172</b>	<b>12,172</b>	<b>12,572</b>
Submarine Panoramic Awareness System		1,000		800
High Torque, Low Speed, Direct Drive Electric Motor Technology			2,000	1,600
<b>44 SHIP PRELIMINARY DESIGN &amp; FEASIBILITY STUDIES</b>	<b>28,135</b>	<b>40,935</b>	<b>28,135</b>	<b>38,375</b>
Bow Lifting Body Project		4,000		3,200
Low Signature Defensive Weapon System for Surface Combatant Craft		4,800		3,840
Naval Ship Hydrodynamic Test Facilities		4,000		3,200

R-1		Budget Request	House	Senate	Recommendation
46	<b>ADVANCED SURFACE MACHINERY SYSTEMS</b>	5,599	13,199	19,399	20,639
	High Density Power Conversion and Distribution Equipment		1,500		1,200
	Hybrid Propulsion/Power Generation for Increased Fuel Efficiency for Surface Combatants		2,000	8,000	6,400
	Integrated Advanced Ship Control		1,500		1,200
	Micro-Drive for Future HVAC Systems		600	2,400	1,920
	Next Generation Shipboard Integrated Power-Fuel Efficiency and Advanced Capability Enhancer		2,000		1,600
	Fan Coil Assembly of the Future			3,400	2,720
48	<b>LITTORAL COMBAT SHIP (LCS)</b>	360,518	366,918	360,518	424,518
	Program Increase - Mine Warfare Modules		6,400		4,000
	Revised acquisition strategy				60,000
50	<b>CONVENTIONAL MUNITIONS</b>	3,458	4,458	3,458	4,258
	Improved Kinetic Energy Cargo Round		1,000		800
51	<b>MARINE CORPS ASSAULT VEHICLES</b>	293,466	243,466	293,466	293,466
	Program delay		-50,000		
53	<b>MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM</b>	73,798	73,798	59,798	76,598
	Expeditionary Capabilities Laboratory			3,000	2,400
	Marine Expeditionary Rifle Squad Reconfigurable Vehicle Simulator			3,000	2,400
	JLTV program delay			-20,000	
55	<b>COOPERATIVE ENGAGEMENT</b>	56,586	61,586	56,586	60,586
	Cooperative Engagement Capability		5,000		4,000
57	<b>ENVIRONMENTAL PROTECTION</b>	20,661	20,661	21,861	21,461
	Compliance Tools Development for Metals in Antifouling Paints			1,000	800
58	<b>NAVY ENERGY PROGRAM</b>	8,476	13,476	17,876	18,996
	Program Increase - Alternative and Renewable Energy Sources		5,000		3,000
	Solar Heat Reflective Film for Energy and Fuel Efficiency in Buildings and Vehicles			4,900	3,920
	Molten Carbonate Fuel Cell Demonstrator			4,500	3,600
59	<b>FACILITIES IMPROVEMENT</b>	4,002	9,202	7,402	10,082
	Kinetic Hydropower System Turbine		2,000		1,600
	Photovoltaic Rooftop Systems for Military Housing		1,500		1,200
	Regenerative Fuel Cell Back-up Power		1,700	1,000	1,360
	Permanent Magnet Generator - Wave Energy Buoy			2,400	1,920

R-1		Budget Request	House	Senate	Recommendation
61	<b>NAVY LOGISTIC PRODUCTIVITY</b>	4,301	7,101	16,001	15,101
	Highly Integrated Siloxane Optical Interconnect for Military Avionics		1,000		800
	NSWC Corona Item Unique Identification Center		1,800		1,440
	Advanced Naval Logistics			3,000	2,400
	Hawaii National Guard Integrated Information Command System			1,800	1,280
	Photonic Integration Foundry			3,000	2,400
	Thin Film Materials for Advanced Applications, Advanced IED and Anti-Personnel Sensors			1,800	1,280
	Radio Frequency Identification (RFID) Technologies (transferred to RDT&E, Defense-Wide line number 41)			1,000	
	Real-time Tactical Intelligence Collection System			1,500	1,200
63	<b>LINK PLUMERIA</b>	69,313	69,313	63,313	63,313
	Program adjustment			-6,000	-6,000
69	<b>LAND ATTACK TECHNOLOGY</b>	1,238	8,238	1,238	6,838
	76mm Swambuster Capability		2,000		1,600
	Hybrid Propellant for Medium and Large Caliber Ammunition		5,000		4,000
70	<b>NONLETHAL WEAPONS</b>	46,971	49,871	46,971	49,291
	Non-Lethal Defense Technologies		2,900		2,320
	<b>DIRECTED ENERGY AND ELECTRIC WEAPON SYSTEMS</b>	5,003	22,003	8,003	19,303
	Joint Technology Insertion and Accelerated System Integration Capability for Electronic Warfare		2,000		1,600
	Program Increase - Directed Energy Weapons		15,000		10,000
	Global Law Enforcement Support for Counter-Narcotics			1,500	1,500
	Maritime Directed Energy Test and Evaluation Center			1,500	1,200
	<b>TACTICAL AIR DIRECTIONAL INFRARED COUNTERMEASURES</b>	63,702	63,702	50,702	50,702
	TADIRCM program delay			-13,000	-13,000
	<b>JOINT COUNTER RADIO CONTROLLED IED ELECTRONIC WARFARE</b>	67,843	67,843	32,843	55,843
	JCREW 3.3 contract delay			-35,000	-12,000
	<b>SPACE &amp; ELECTRONIC WARFARE (SEW) ARCHITECTURE/ENGINE</b>	42,533	42,533	40,533	40,533
	Funding carryover due to fleet schedules			-2,000	-2,000
82	<b>STANDARDS DEVELOPMENT</b>	53,540	59,340	53,540	59,340
	Measurement Standards Research and Development		5,800		5,800
	<b>MULTI-MISSION HELICOPTER UPGRADE DEVELOPMENT</b>	81,953	81,953	76,553	75,613
	M230 30mm Chain Gun Automatic Cannon			4,700	3,760
	Defer IFF Mode 5			-10,100	-10,100
87	<b>TACTICAL COMMAND SYSTEM</b>	86,462	95,462	86,462	92,862
	Shipboard Wireless Network		3,000		2,400
	Program Increase - ISR Enhancements		6,000		4,000
88	<b>ADVANCED HAWKEYE</b>	364,557	362,557	364,557	362,557
	Engineering support growth		-2,000		-2,000

R-1		Budget Request	House	Senate	Recommendation
89	H-1 UPGRADES Excessive program growth	32,830	25,830 -7,000	32,830	32,830
91	V-22A Reduction to growth	89,512	89,512	64,512 -25,000	77,012 -12,500
92	AIR CREW SYSTEMS DEVELOPMENT Common Mobile Aircrew Restraint System contract delay	14,265	12,565 -1,700	14,265	12,565 -1,700
93	EA-18 Next Generation Electronic Warfare Simulator	55,446	57,446 2,000	55,446	57,046 1,600
94	ELECTRONIC WARFARE DEVELOPMENT NAWCWD Point Mugu Electronic Warfare Laboratory Upgrade Small Survivable Jammer F/A-18 Countermeasures Improvement	97,635	101,635 4,000	102,635 1,000 4,000	105,635 3,200 800 4,000
95	VHXX EXECUTIVE HELO DEVELOPMENT Continue Increment One Development Termination costs funded ahead of estimate Technology capture	85,240	485,240 400,000	30,000 -55,240	130,000 -55,240 100,000
96	NEXT GENERATION JAMMER (NGJ) Program growth	127,970	117,970 -10,000	127,970	117,970 -10,000
97	JOINT TACTICAL RADIO SYSTEM - NAVY (JTRS-NAVY) Joint Tactical Radio System Handheld Manpack Small Form Factor Radio System	876,374	880,874 4,500	876,374	879,974 3,600
98	SC-21 TOTAL SHIP SYSTEM ENGINEERING Floating Area Network Littoral Sensor Grid Guidance, Navigation, Control, and Targeting	0	5,000 5,000	5,000 5,000	8,000 4,000 4,000
99	SURFACE COMBATANT COMBAT SYSTEM ENGINEERING Advanced Capability Build 12 and 14 Aegis Research and Development	178,459	185,459 2,000 5,000	178,459	184,059 1,600 4,000
102	STANDARD MISSILE IMPROVEMENTS SM-6 program execution Automated Missile Tracking	182,197	168,197 -15,000 1,000	182,197	167,997 -15,000 800
103	AIRBORNE MCM Common Air Mine Countermeasures Tow Cable	48,712	51,712 3,000	48,712	51,112 2,400
105	ADVANCED ABOVE WATER SENSORS Common Digital Sensor Architecture Submarine Navigation Decision Aids Program Increase - Advanced Sensor Development	236,078	259,078 3,000 5,000 15,000	236,078	252,478 2,400 4,000 10,000
106	SSN-688 AND TRIDENT MODERNIZATION Improved Submarine Towed Array Systems OE-538/OE-592 funding carryover	122,733	122,733	121,733 2,000 -3,000	121,333 1,600 -3,000
108	SHIPBOARD AVIATION SYSTEMS Voyage Repair Team Tool Management ADMACS Block 3 program delay	80,623	82,123 1,500	77,623 -3,000	78,823 1,200 -3,000

R-1	Budget Request	House	Senate	Recommendation
<b>110 NEW DESIGN SSN</b>	<b>154,756</b>	<b>195,256</b>	<b>162,756</b>	<b>185,156</b>
Advanced Manufacturing for Submarine Bow Domes and Rubber Boots		2,000		1,600
Common Command and Control System Module		4,000	6,000	4,800
Mold-in-Place Coating Development for the US Submarine Fleet		2,000	2,000	2,000
Submarine Automated Test and Re-Test		2,500		2,000
Small Business Technology Insertion		30,000		20,000
<b>112 SUBMARINE TACTICAL WARFARE SYSTEM</b>	<b>59,703</b>	<b>62,203</b>	<b>66,703</b>	<b>67,303</b>
Submarine System Biometrics Access Control		2,500		2,000
Artificial Intelligence-Based Combat System Kernel			4,000	3,200
Submarine Environment for Evaluation and Development			3,000	2,400
<b>113 SHIP CONTRACT DESIGN/ LIVE FIRE T&amp;E</b>	<b>89,988</b>	<b>92,488</b>	<b>91,988</b>	<b>91,988</b>
Automated Fiber Optic Manufacturing Initiative for Navy Ships		2,500	2,000	2,000
<b>116 LIGHTWEIGHT TORPEDO DEVELOPMENT</b>	<b>21,105</b>	<b>21,105</b>	<b>24,105</b>	<b>23,505</b>
Weapon Acquisition and Firing System			3,000	2,400
<b>PERSONNEL, TRAINING, SIMULATION, AND HUMAN FACTORS</b>				
<b>118 FACTORS</b>	<b>5,898</b>	<b>6,898</b>	<b>5,898</b>	<b>6,698</b>
Workforce Requirements Planning - Team Enhancement		1,000		800
<b>120 SHIP SELF DEFENSE (DETECT &amp; CONTROL)</b>	<b>35,459</b>	<b>37,459</b>	<b>46,459</b>	<b>44,559</b>
Persistent Surveillance Wave Powerbuoy System		2,000	4,000	3,200
Autonomous Unmanned Surface Vehicle			3,000	2,700
Expeditionary Swimmer Defense System			4,000	3,200
<b>121 SHIP SELF DEFENSE (ENGAGE: HARD KILL)</b>	<b>34,236</b>	<b>35,736</b>	<b>46,236</b>	<b>46,236</b>
Laser Phalanx		1,500	12,000	12,000
<b>124 MEDICAL DEVELOPMENT</b>	<b>9,888</b>	<b>33,788</b>	<b>22,288</b>	<b>56,928</b>
Advanced Molecular Medicine Initiative		1,000		800
Hampton University Proton Cancer Treatment Initiative		5,000		4,000
Deployment Health and Chronic Disease Surveillance		1,000		800
Integrated Psycho-Social Health Care Demonstration Program		1,000		1,000
Management of Lung Injury by Micronutrients		1,500		1,200
Mobile Oxygen, Ventilation, and External Suction (MOVES) System		3,400	2,000	2,720
National Functional Genomics Center Collaborating Site		4,000		3,200
On-Demand Custom Body Implants/Prosthesis for Injured Personnel		2,000		1,600
U.S. Navy Pandemic Influenza Vaccine Program		2,000		1,600
U.S. Navy Cancer Vaccine Program		3,000		2,400
Biocidal Wound Dressings			1,500	1,200
Simplified Orthopedic Surgery			5,300	4,240
Composite Tissue Transplantation for Combat Wounded Repair			2,000	2,000
Multivalent Dengue Vaccine Program			1,600	1,280
Military Dental Research (transferred from Defense Health Program)				6,000
Wound Care Research (transferred from Defense Health Program)				13,000
<b>127 JOINT STRIKE FIGHTER (JSF)</b>	<b>1,741,296</b>	<b>1,956,296</b>	<b>1,663,296</b>	<b>1,956,296</b>
Alternate Engine Development		215,000		215,000
Excess to need			-78,000	

R-1	Budget Request	House	Senate	Recommendation
<b>129 INFORMATION TECHNOLOGY DEVELOPMENT</b>	<b>69,026</b>	<b>75,826</b>	<b>90,126</b>	<b>91,866</b>
Instrumented Underwater Training Systems		2,800		2,240
Integrated Manufacturing Systems 3D Simulation and Modeling Project		2,500		2,000
Maintenance Planning and Assessment Technology Insertion		1,500		1,200
Condition-Based Maintenance Enabling Technologies Program			3,000	2,400
Digitization, Integration, and Analyst Access of Investigative Files, NCIS			1,500	1,200
Integration of Logistics Information of Knowledge Projection and Readiness Assessment Program			2,000	1,600
METOC Integrated Network-Centric Technology Systems			2,600	2,600
Supply Chain Logistics Capability at the ABL NIROP			8,000	6,400
SPAWAR Systems Center/ITC New Orleans			4,000	3,200
<b>130 CH-53K</b>	<b>554,827</b>	<b>524,443</b>	<b>554,827</b>	<b>524,443</b>
Program execution		-30,384		-30,384
<b>132 JOINT AIR-TO-GROUND MISSILE (JAGM)</b>	<b>81,434</b>	<b>77,734</b>	<b>81,434</b>	<b>77,734</b>
Program delay		-3,700		-3,700
<b>133 MULTI-MISSION MARITIME AIRCRAFT (MMA)</b>	<b>1,162,417</b>	<b>1,182,417</b>	<b>1,162,417</b>	<b>1,175,417</b>
Small Business Technology Insertion		20,000		13,000
<b>134 CG(X)</b>	<b>150,022</b>	<b>110,022</b>	<b>86,022</b>	<b>46,022</b>
Program delay		-40,000		-40,000
Propulsion development ahead of material solution decision			-24,000	-24,000
Unjustified request			-40,000	-40,000
<b>135 DDG-1000</b>	<b>539,053</b>	<b>539,053</b>	<b>526,453</b>	<b>526,453</b>
FSST alternative initiative			-12,600	-12,600
<b>136 TACTICAL CRYPTOLOGIC SYSTEMS</b>	<b>19,016</b>	<b>20,516</b>	<b>19,016</b>	<b>19,916</b>
Engineering support growth		-1,500		-1,500
Paragon (Frequency Extension)		3,000		2,400
<b>137 THREAT SIMULATOR DEVELOPMENT</b>	<b>25,534</b>	<b>27,534</b>	<b>25,534</b>	<b>27,134</b>
Navy Advanced Threat Simulator		2,000		1,600
<b>139 MAJOR T&amp;E INVESTMENT</b>	<b>44,844</b>	<b>51,544</b>	<b>49,844</b>	<b>51,844</b>
Joint Mission Battle-Space to Support Net-Ready Key Performance Parameters		2,000		2,000
National Aviation Enterprise Interoperability with Carrier Strike and Expeditionary Group Forces		4,700	5,000	5,000
<b>140 STUDIES AND ANALYSIS SUPPORT - NAVY</b>	<b>11,422</b>	<b>12,422</b>	<b>11,422</b>	<b>12,422</b>
Joint Heavy-Lift Rotocraft Research		1,000		1,000
<b>142 SMALL BUSINESS INNOVATIVE RESEARCH</b>	<b>0</b>	<b>0</b>	<b>2,000</b>	<b>1,600</b>
Wave Energy Harvesting for Buoy Applications			2,000	1,600
<b>143 TECHNICAL INFORMATION SERVICES</b>	<b>735</b>	<b>4,735</b>	<b>19,735</b>	<b>20,835</b>
Center for Commercialization of Advanced Technology		2,500		2,000
Technology Transfer Office		1,500	1,500	1,500
Hawaii Technology Development Venture			10,500	10,000
Integrated Manufacturing Enterprise			5,000	5,000
Virtual Business Accelerator for the Silicon Prairie			2,000	1,600

R-1	Budget Request	House	Senate	Recommendation
148 RDT&E SHIP AND AIRCRAFT SUPPORT	193,353	193,353	183,353	193,353
MRTFB additional aircraft support early to need (transferred to line number 149)			-10,000	
149 TEST AND EVALUATION SUPPORT	380,733	380,733	380,733	370,733
MRTFB additional aircraft support early to need (transferred from line number 148)				-10,000
153 MARINE CORPS PROGRAM WIDE SUPPORT	19,004	20,004	19,004	19,804
Global Supply Chain Management		1,000		800
UNMANNED COMBAT AIR VEHICLE (UCAV)				
159 ADVANCED COMPONENT	311,204	306,204	311,204	306,204
Engineering support growth		-5,000		-5,000
160 STRATEGIC SUB & WEAPONS SYSTEM SUPPORT	74,939	76,139	69,439	69,699
Advanced Linear Accelerator Facility		1,200		960
Adelos Program: Nuclear Security Sensor System			3,500	2,800
Joint Warhead Fuze Sustainment growth			-9,000	-9,000
163 NAVY STRATEGIC COMMUNICATIONS	43,982	23,982	46,982	46,382
Block 1A contract delay		-20,000		
E-6B Strategic Communications Upgrade			3,000	2,400
165 F/A-18 SQUADRONS	127,733	127,733	122,333	121,613
Fighter Jet Noise Reduction Under Carrier Deck Operational Environment			3,600	2,880
IRST contract delay			-9,000	-9,000
167 FLEET TELECOMMUNICATIONS (TACTICAL)	37,431	37,431	37,431	37,031
Shipboard Automated Radio Room System			2,000	1,600
NC3-LTS late Milestone B			-2,000	-2,000
TOMAHAWK AND TOMAHAWK MISSION PLANNING				
168 CENTER (TMPC)	13,238	14,038	17,338	17,158
Image-Based Navigation and Precision Targeting		800		640
Tomahawk Cost Reduction Initiative			4,100	3,280
169 INTEGRATED SURVEILLANCE SYSTEM	24,835	26,835	24,835	26,435
Autonomous Anti-Submarine Warfare Vertical Beam Array Sonar		2,000		1,600
171 CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT	49,293	52,293	39,293	41,693
NAVAIR High Fidelity Oceanographic Library		3,000		2,400
Reduction to growth			-10,000	-10,000
175 TACTICAL DATA LINKS	25,003	25,003	15,003	15,003
Increment 3 program uncertainty			-10,000	-10,000
177 MK-48 ADCAP	26,438	38,438	28,438	34,438
Small Business Technology Insertion		10,000		6,000

R-1		Budget Request	House	Senate	Recommendation
178	<b>AVIATION IMPROVEMENTS</b>	<b>135,840</b>	<b>127,349</b>	<b>134,149</b>	<b>135,189</b>
	F-135 engine funding ahead of need		-12,491	-12,491	-12,491
	Arc Fault Circuit Breaker with Arc Location		1,000		800
	Lightweight Composite Structure Development for Aerospace Vehicles		3,000		2,400
	Highly Conductive Lightweight Aircraft Sealant			1,200	960
	Laser Peening for P-3 Life Extension			1,600	1,280
	Vet-Biz Initiative for National Sustainment			5,000	4,000
	Wireless Sensors for Navy Aircraft			3,000	2,400
181	<b>MARINE CORPS COMMUNICATIONS SYSTEMS</b>	<b>287,348</b>	<b>291,848</b>	<b>277,348</b>	<b>280,748</b>
	Battlefield Sensor Netting		3,000		2,400
	Media Exploitation Tool Integration with Intelligence C2 Systems		1,500		1,200
	Mobile Modular Command Center (M2C2)			3,000	2,800
	DCGS-MC tech development excessive growth			-5,000	-5,000
	C2 Warfare Systems reduce growth			-8,000	-8,000
	<b>MARINE CORPS GROUND COMBAT/SUPPORTING</b>				
182	<b>ARMS SYSTEMS</b>	<b>120,379</b>	<b>124,179</b>	<b>106,479</b>	<b>109,319</b>
	Remote Aiming and Sighting Optical Retrofit		3,800		3,040
	Expandable Rigid Wall Composite Shelter			1,000	800
	LAV Indirect Fire Modernization			-12,200	-12,200
	Battlefield Target Identification Device program uncertainty			-2,700	-2,700
183	<b>MARINE CORPS COMBAT SERVICES SUPPORT</b>	<b>17,057</b>	<b>17,057</b>	<b>21,457</b>	<b>20,577</b>
	High Performance Capabilities for Military Vehicles Project			1,400	1,120
	Marine Personnel Carrier Support System			3,000	2,400
	<b>USMC INTELLIGENCE/ELECTRONIC WARFARE</b>				
184	<b>SYSTEMS (MIP)</b>	<b>30,167</b>	<b>29,900</b>	<b>30,167</b>	<b>29,900</b>
	Argelfire program cancellation		-267		-267
194	<b>INFORMATION SYSTEMS SECURITY PROGRAM</b>	<b>24,226</b>	<b>24,226</b>	<b>29,226</b>	<b>29,226</b>
	Trusted Discovery/Universal Description Discovery and Integration UDDI			5,000	5,000
195	<b>JOINT COMMAND AND CONTROL PROGRAM (JC2)</b>	<b>2,453</b>	<b>2,453</b>	<b>0</b>	<b>0</b>
	Program delay			-2,453	-2,453
196	<b>JOINT COMMAND AND CONTROL PROGRAM (JC2)</b>	<b>4,139</b>	<b>4,139</b>	<b>0</b>	<b>0</b>
	Program delay			-4,139	-4,139
	<b>NAVY METEOROLOGICAL AND OCEAN SENSORS-</b>				
198	<b>SPACE (METOC)</b>	<b>28,094</b>	<b>29,094</b>	<b>28,094</b>	<b>28,894</b>
	Integration of Advanced Wide Field of View Sensor with Reusable, Reconfigurable Payload Processing Testbed System		1,000		800
199	<b>JOINT MILITARY INTELLIGENCE PROGRAMS</b>	<b>4,600</b>	<b>7,000</b>	<b>4,600</b>	<b>6,520</b>
	Open Source Naval and Missile Database Reporting System		2,400		1,920
200	<b>TACTICAL UNMANNED AERIAL VEHICLES</b>	<b>8,971</b>	<b>8,971</b>	<b>8,871</b>	<b>8,871</b>
	New start UAS			-100	-100

R-1	Budget Request	House	Senate	Recommendation
<b>202 AIRBORNE RECONNAISSANCE SYSTEMS</b>	<b>46,208</b>	<b>52,458</b>	<b>50,558</b>	<b>55,558</b>
EP-3E Requirements Capability Migration Systems Integration Lab		6,250		5,000
FEATHAR -- Fusion, Exploitation, Algorithm, Targeting High-Altitude Reconnaissance			4,350	4,350
<b>203 MANNED RECONNAISSANCE SYSTEMS</b>	<b>22,599</b>	<b>19,899</b>	<b>22,599</b>	<b>19,899</b>
RF research growth		-2,700		-2,700
<b>204 DISTRIBUTED COMMON GROUND SYSTEMS</b>	<b>18,079</b>	<b>12,379</b>	<b>18,079</b>	<b>12,379</b>
Program delay		-5,700		-5,700
<b>205 RQ-4 UAV</b>	<b>465,839</b>	<b>380,839</b>	<b>465,839</b>	<b>440,839</b>
Program execution		-85,000		-25,000
<b>215 AVIONICS COMPONENT IMPROVEMENT PROGRAM</b>	<b>2,725</b>	<b>3,725</b>	<b>2,725</b>	<b>3,525</b>
Avionics Life Extension		1,000		800
<b>216 INDUSTRIAL PREPAREDNESS</b>	<b>56,691</b>	<b>69,191</b>	<b>66,941</b>	<b>75,191</b>
Laser Optimization Remote Lighting System		2,500		2,000
Manufacturing S&T for Next-Generation Energetics		5,000		5,000
Next Generation Scalable Lean Manufacturing Initiative - Phase Two		3,000		2,400
Out of Autoclave Composite Processing		2,000	2,000	2,000
Low Acoustic and Thermal Signature Battlefield Power Source			4,000	3,200
Life Extension of Weapon Systems Through Advanced Materials Processing			2,500	2,500
Flight/Hangar Deck Cleaner			1,750	1,400
<b>217 MARITIME TECHNOLOGY (MARITECH)</b>	<b>0</b>	<b>1,000</b>	<b>4,000</b>	<b>4,100</b>
Passive RFID Development		1,000		900
National Shipbuilding Research Program Advanced Shipbuilding Enterprise			4,000	3,200
<b>999 CLASSIFIED PROGRAMS</b>	<b>1,258,018</b>	<b>1,353,118</b>	<b>1,142,318</b>	<b>1,258,018</b>
Classified adjustment		95,100	-115,700	0

## PRESIDENTIAL HELICOPTER

The House report directed the Secretary of Defense to report on the use of certain funds for the VH-71 Presidential Helicopter. The Senate report contained no similar language. The recommendation does not retain the House language.

## BONE MARROW REGISTRY

The recommendation includes \$31,500,000 for the Department of the Navy, to be administered by the C.W. Bill Young Marrow Donor Recruitment and Research Program, also known as and referred to within the Naval Medical Research Center as the Bone Marrow Registry. Funds appropriated for the C.W. Bill Young Marrow Donor Recruitment and Research Program shall remain available only for the purposes for which they were appropriated, and may only be obligated for the C.W. Bill Young Marrow Program. This donor center has recruited more than 525,000 Department of Defense volunteers and provides more marrow donors per week than any other donor center in the nation. More than 3,360 servicemembers and other Department volunteers from this donor center have provided marrow to save the lives of patients. The success of this national and international life-saving program for military and civilian patients, which now includes more than 7,500,000 potential volunteer donors, is admirable. Further, the agencies involved in contingency planning are encouraged to continue to include the C.W. Bill Young Marrow Donor Recruitment and Research Program in the development and testing of their contingency plans. The Department of Defense form (DD Form 1414) shall show this as a congressional interest item. The Department of Defense is further directed to release all the funds appropriated for this purpose to the C.W. Bill Young Marrow Donor Recruitment and Research Program within 60 days of the enactment of this Act.

## RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FORCE

For Research, Development, Test and Evaluation, Air Force, funds are  
to be available for fiscal year 2010, as follows:

(In thousands of dollars)

	Budget	House	Senate	Recommendation
RESEARCH, DEVELOPMENT, TEST & EVAL, AIR FORCE				
BASIC RESEARCH				
1 DEFENSE RESEARCH SCIENCES.....	321,028	323,528	331,028	320,828
2 UNIVERSITY RESEARCH INITIATIVES.....	132,249	140,449	136,949	142,109
3 HIGH ENERGY LASER RESEARCH INITIATIVES.....	12,834	12,834	12,834	12,834
TOTAL, BASIC RESEARCH.....	466,111	476,811	480,811	484,771
APPLIED RESEARCH				
7 MATERIALS.....	127,957	155,707	168,957	179,157
8 AEROSPACE VEHICLE TECHNOLOGIES.....	127,129	129,129	138,529	139,149
9 HUMAN EFFECTIVENESS APPLIED RESEARCH.....	85,122	85,122	96,122	93,922
10 AEROSPACE PROPULSION.....	196,529	226,669	199,529	221,641
11 AEROSPACE SENSORS.....	121,768	129,768	135,668	136,588
12 SPACE TECHNOLOGY.....	104,148	116,248	110,148	119,628
13 CONVENTIONAL MUNITIONS.....	58,289	58,289	58,289	58,289
14 DIRECTED ENERGY TECHNOLOGY.....	105,677	106,677	99,927	106,477
15 COMMAND CONTROL AND COMMUNICATIONS.....	---	2,500	---	2,000
16 DOMINANT INFORMATION SCIENCES AND METHODS.....	115,278	115,278	115,278	115,278
17 HIGH ENERGY LASER RESEARCH.....	52,754	61,254	46,654	53,454
TOTAL, APPLIED RESEARCH.....	1,094,651	1,186,841	1,169,101	1,225,583
ADVANCED TECHNOLOGY DEVELOPMENT				
18 ADVANCED MATERIALS FOR WEAPON SYSTEMS.....	37,901	56,301	64,501	71,901
19 SUSTAINMENT SCIENCE AND TECHNOLOGY (S&T).....	2,955	2,955	2,955	2,955
20 ADVANCED AEROSPACE SENSORS.....	51,482	53,482	51,482	53,082
21 AEROSPACE TECHNOLOGY DEV/DEMO.....	76,844	81,844	76,844	88,584
22 AEROSPACE PROPULSION AND POWER TECHNOLOGY.....	175,678	191,178	178,678	189,578
23 CREW SYSTEMS AND PERSONNEL PROTECTION TECHNOLOGY.....	---	---	3,000	2,940
24 ELECTRONIC COMBAT TECHNOLOGY.....	31,021	32,521	31,021	32,221
25 ADVANCED SPACECRAFT TECHNOLOGY.....	83,909	98,609	90,409	99,269
26 HAWAII SPACE SURVEILLANCE SYSTEM (HSSS).....	5,813	5,813	37,813	36,813
27 HUMAN EFFECTIVENESS ADVANCED TECHNOLOGY DEVELOPMENT.....	24,565	24,565	24,565	24,565

(In thousands of dollars)

	Budget	House	Senate	Recommendation
28 CONVENTIONAL WEAPONS TECHNOLOGY.....	14,356	16,556	14,356	16,116
29 ADVANCED WEAPONS TECHNOLOGY.....	30,056	30,056	44,556	44,996
30 MANUFACTURING TECHNOLOGY PROGRAM.....	39,913	41,913	44,913	45,513
31 BATTLESPACE KNOWLEDGE DEVELOPMENT & DEMONSTRATION.....	39,708	39,708	39,708	39,708
32 C3I ADVANCED DEVELOPMENT.....	---	4,000	2,900	6,900
33 HIGH ENERGY LASER ADVANCED TECHNOLOGY PROGRAM.....	3,831	3,831	3,831	3,831
TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	618,030	693,330	711,530	758,980
DEMONSTRATION & VALIDATION				
34 INTELLIGENCE ADVANCED DEVELOPMENT.....	5,009	6,009	5,009	5,809
35 PHYSICAL SECURITY EQUIPMENT.....	3,623	3,623	3,623	3,623
36 ADVANCED EHF MILSATCOM (SPACE).....	464,335	464,335	464,335	464,335
39 POLAR MILSATCOM (SPACE).....	253,150	253,150	253,150	253,150
40 SPACE CONTROL TECHNOLOGY.....	97,701	97,701	102,701	101,701
41 COMBAT IDENTIFICATION TECHNOLOGY.....	27,252	27,252	29,252	28,852
42 NATO RESEARCH AND DEVELOPMENT.....	4,351	4,351	4,351	4,351
43 INTERNATIONAL SPACE COOPERATIVE R&D.....	632	632	632	632
45 INTEGRATED BROADCAST SERVICE.....	20,739	20,739	20,739	20,739
46 INTERCONTINENTAL BALLISTIC MISSILE.....	66,079	69,079	66,079	68,479
47 WIDEBAND GAFILLER SYSTEM RDT&E (SPACE).....	70,956	70,956	70,956	70,956
48 POLLUTION PREVENTION (DEN/VAL).....	2,896	12,896	2,896	10,396
49 JOINT PRECISION APPROACH AND LANDING SYSTEMS.....	23,174	23,174	23,174	23,174
51 BATTLE MGMT COM & CTRL SENSOR DEVELOPMENT.....	22,612	---	72,612	22,612
52 HARD AND DEEPLY BURIED TARGET DEFEAT SYSTEM.....	20,891	20,891	20,891	20,891
53 JOINT DUAL ROLE AIR DOMINANCE MISSILE.....	6,882	6,882	6,882	6,882
54 REQUIREMENTS ANALYSIS AND MATURATION.....	35,533	35,533	35,533	35,533
55 GROUND ATTACK WEAPONS FUZE DEVELOPMENT.....	18,778	18,778	18,778	18,778
56 ALTERNATIVE FUELS.....	89,020	94,020	69,020	73,020
57 AUTOMATED AIR-TO-AIR REFUELING.....	43,158	43,158	43,158	43,158
59 OPERATIONALLY RESPONSIVE SPACE.....	112,861	114,361	125,861	125,211
60 TECH TRANSITION PROGRAM.....	9,611	9,611	9,611	9,611

(In thousands of dollars)

	Budget	House	Senate	Recommendation
61 NATIONAL POLAR-ORBITING OPERATIONAL ENVIRONMENTAL SAT.	396,641	396,641	396,641	396,641
61A NEXT GENERATION MILSATCOM TECHNOLOGY DEVELOPMENT.....	---	---	50,000	50,000
TOTAL, DEMONSTRATION & VALIDATION.....	1,795,884	1,793,772	1,895,884	1,858,534
ENGINEERING & MANUFACTURING DEVELOPMENT				
62 GLOBAL BROADCAST SERVICE (GBS).....	31,124	31,124	31,124	31,124
63 NUCLEAR WEAPONS SUPPORT.....	37,860	42,860	37,860	41,860
65 SPECIALIZED UNDERGRADUATE FLIGHT TRAINING.....	6,227	10,862	7,862	10,862
68 ELECTRONIC WARFARE DEVELOPMENT.....	97,275	97,275	80,275	80,275
69 TACTICAL DATA NETWORKS ENTERPRISE.....	88,444	88,444	82,944	87,444
70 PHYSICAL SECURITY EQUIPMENT.....	50	50	50	50
71 SMALL DIAMETER BOMB (SDB).....	153,815	155,815	153,815	155,415
72 COUNTERSPACE SYSTEMS.....	64,248	64,248	64,248	64,248
73 SPACE SITUATION AWARENESS SYSTEMS.....	308,134	207,834	289,534	239,534
74 AIRBORNE ELECTRONIC ATTACK.....	11,107	11,107	11,107	11,107
75 SPACE BASED INFRARED SYSTEM (SBIRS) HIGH EMD.....	512,642	526,442	512,642	526,442
76 THIRD GENERATION INFRARED SURVEILLANCE (3GIRS).....	143,169	39,169	143,169	73,369
77 ARMAMENT/ORDNANCE DEVELOPMENT.....	18,671	18,671	18,671	18,671
78 SUBMUNITIONS.....	1,784	1,784	1,784	1,784
79 AGILE COMBAT SUPPORT.....	11,261	11,261	11,261	11,261
80 LIFE SUPPORT SYSTEMS.....	10,711	11,911	14,111	14,331
81 COMBAT TRAINING RANGES.....	29,718	29,718	14,718	22,718
82 INTEGRATED COMMAND & CONTROL APPLICATIONS (IC2A).....	10	9,010	10	6,960
83 INTELLIGENCE EQUIPMENT.....	1,495	1,495	1,495	1,495
84 JOINT STRIKE FIGHTER (JSF).....	1,858,055	2,073,055	1,780,055	2,073,055
85 INTERCONTINENTAL BALLISTIC MISSILE.....	60,010	60,010	60,010	60,010
86 EVOLVED EXPENDABLE LAUNCH VEHICLE PROGRAM (SPACE).....	26,545	51,545	26,545	46,545
88 NEXT GENERATION AERIAL REFUELING AIRCRAFT.....	439,615	---	409,615	15,000
89 CSAR-X RDT&E.....	89,975	9,975	---	---
89a HH-60 RDT&E.....	---	---	14,975	14,975

(In thousands of dollars)

	Budget	House	Senate	Recommendation
90 HC/MC-130 RECAP RDT&E.....	20,582	20,582	20,582	20,582
91 JOINT SIAP EXECUTIVE PROGRAM OFFICE.....	34,877	34,877	14,877	14,877
92 LINK-16 SUPPORT AND SUSTAINMENT.....	---	---	79,300	79,300
94 SINGLE INTEGRATED AIR PICTURE (SIAP).....	13,466	13,466	13,466	13,466
95 FULL COMBAT MISSION TRAINING.....	99,807	99,807	79,807	79,807
97 JOINT CARGO AIRCRAFT (JCA).....	9,353	9,353	9,353	9,353
98 CV-22.....	19,640	19,640	19,640	19,640
99 AIRBORNE SENIOR LEADER C3 (SLC3S).....	20,056	20,056	20,056	20,056
<b>TOTAL, ENGINEERING &amp; MANUFACTURING DEVELOPMENT.....</b>	<b>4,219,726</b>	<b>3,771,446</b>	<b>4,004,961</b>	<b>3,865,616</b>
RDT&E MANAGEMENT SUPPORT				
100 THREAT SIMULATOR DEVELOPMENT.....	27,789	27,789	27,789	27,789
101 MAJOR T&E INVESTMENT.....	60,824	63,324	67,824	67,824
102 RAND PROJECT AIR FORCE.....	27,501	27,501	29,501	29,101
104 INITIAL OPERATIONAL TEST & EVALUATION.....	25,833	25,833	25,833	25,833
105 TEST AND EVALUATION SUPPORT.....	736,488	736,488	755,788	746,488
106 ROCKET SYSTEMS LAUNCH PROGRAM (SPACE).....	14,637	14,637	14,637	14,637
107 SPACE TEST PROGRAM (STP).....	47,215	47,215	47,215	47,215
108 FACILITIES RESTORATION & MODERNIZATION - TEST & EVAL..	52,409	60,409	52,409	58,809
109 FACILITIES SUSTAINMENT - TEST AND EVALUATION SUPPORT..	29,683	29,683	34,683	33,683
110 ACQUISITION AND MANAGEMENT SUPPORT.....	18,947	18,947	18,947	18,947
111 GENERAL SKILL TRAINING.....	1,450	1,450	1,450	1,450
113 INTERNATIONAL ACTIVITIES.....	3,748	3,748	3,748	3,748
<b>TOTAL, RDT&amp;E MANAGEMENT SUPPORT.....</b>	<b>1,046,524</b>	<b>1,057,024</b>	<b>1,079,824</b>	<b>1,075,524</b>
OPERATIONAL SYSTEMS DEVELOPMENT				
114 COMMON VERTICAL LIFT SUPPORT PLATFORM.....	9,513	2,000	5,513	4,000
115 ANTI-TAMPER TECHNOLOGY EXECUTIVE AGENCY.....	47,276	47,276	47,276	47,276
117 B-52 SQUADRONS.....	93,930	102,930	99,930	102,330
118 AIR-LAUNCHED CRUISE MISSILE (ALCM).....	3,652	3,652	3,652	3,652
119 B-1B SQUADRONS.....	148,025	178,025	179,025	179,025
120 B-2 SQUADRONS.....	415,414	436,714	397,414	407,189

(In thousands of dollars)

	Budget	House	Senate	Recommendation
121 STRAT WAR PLANNING SYSTEM - USSTRATCOM.....	33,836	33,836	33,836	33,836
122 NIGHT FIST - USSTRATCOM.....	5,328	5,328	5,328	5,328
124 ATMOSPHERIC EARLY WARNING SYSTEM.....	9,832	9,832	9,832	9,832
125 REGION/SECTOR OPERATION CONTROL CENTER MODERNIZATION..	25,734	25,734	25,734	25,734
126 STRATEGIC AEROSPACE INTELLIGENCE SYSTEM ACTIVITIES....	18	18	18	18
127 WARFIGHTER RAPID ACQUISITION PROCESS (WRAP) RAPID TRAN	11,996	11,996	11,996	11,996
128 MQ-9 UAV.....	39,245	109,245	39,245	91,745
129 MULTI-PLATFORM ELECTRONIC WARFARE EQUIPMENT.....	14,747	14,747	14,747	14,747
130 A-10 SQUADRONS.....	9,697	9,697	12,197	12,197
131 F-16 SQUADRONS.....	141,020	141,020	143,020	142,620
132 F-15E SQUADRONS.....	311,167	320,167	323,167	319,967
133 MANNED DESTRUCTIVE SUPPRESSION.....	10,748	10,748	8,748	9,748
134 F-22 SQUADRONS.....	569,345	569,345	569,345	569,345
135 TACTICAL AIM MISSILES.....	5,915	5,915	5,915	5,915
136 ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM)....	49,971	49,971	49,971	49,971
137 JOINT HELMET MOUNTED CUEING SYSTEM (JHMCS).....	2,529	2,529	2,529	2,529
138 COMBAT RESCUE - PARARESCUE.....	2,950	2,950	2,950	2,950
139 AF TENCAP.....	11,643	11,643	11,643	11,643
140 PRECISION ATTACK SYSTEMS PROCUREMENT.....	2,950	2,950	2,950	2,950
141 COMPASS CALL.....	13,019	13,019	13,019	13,019
142 AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM.....	166,563	157,563	154,563	156,963
143 CSAF INNOVATION PROGRAM.....	4,621	4,621	12,921	11,261
144 JOINT AIR-TO-SURFACE STANDOFF MISSILE (JASSM).....	29,494	29,494	29,494	29,494
145 AIR AND SPACE OPERATIONS CENTER (AOC).....	99,405	101,405	103,405	102,605
146 CONTROL AND REPORTING CENTER (CRC).....	52,508	52,508	52,508	52,508
147 AIRBORNE WARNING AND CONTROL SYSTEM (AWACS).....	176,040	176,040	176,040	176,040
149 ADVANCED COMMUNICATIONS SYSTEMS.....	63,782	63,782	63,782	63,782
151 COMBAT AIR INTELLIGENCE SYSTEM ACTIVITIES.....	1,475	1,475	1,475	1,475
152 THEATER BATTLE MANAGEMENT (TBM) C4I.....	19,067	19,067	19,067	19,067

(In thousands of dollars)

	Budget	House	Senate	Recommendation
153 FIGHTER TACTICAL DATA LINK.....	72,106	72,106	62,106	67,106
155 C2ISR TACTICAL DATA LINK.....	1,667	1,667	1,667	1,667
156 COMMAND AND CONTROL (C2) CONSTELLATION.....	26,792	31,792	26,792	30,792
157 JOINT SURVEILLANCE AND TARGET ATTACK RADAR SYSTEM.....	140,670	140,670	175,670	186,670
158 SEEK EAGLE.....	22,071	22,071	22,071	22,071
159 USAF MODELING AND SIMULATION.....	27,245	27,245	27,245	27,245
160 WARGAMING AND SIMULATION CENTERS.....	7,018	7,018	7,018	7,018
161 DISTRIBUTED TRAINING AND EXERCISES.....	6,740	6,740	6,740	6,740
162 MISSION PLANNING SYSTEMS.....	91,995	91,995	41,995	81,995
163 INFORMATION WARFARE SUPPORT.....	12,271	14,271	12,271	13,871
170 E-4B NATIONAL AIRBORNE OPERATIONS CENTER (NAOC).....	26,107	26,107	26,107	26,107
172 MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK.....	72,694	72,694	72,694	72,694
173 INFORMATION SYSTEMS SECURITY PROGRAM.....	196,621	196,621	136,621	166,621
174 GLOBAL COMBAT SUPPORT SYSTEM.....	3,375	3,375	3,375	3,375
175 GLOBAL COMMAND AND CONTROL SYSTEM.....	3,149	7,149	3,149	6,349
176 JOINT COMMAND AND CONTROL PROGRAM (JC2).....	3,087	3,087	---	---
177 MILSATCOM TERMINALS.....	257,693	257,693	257,693	257,693
179 AIRBORNE SIGINT ENTERPRISE.....	176,989	176,989	166,989	166,989
181 ADVANCED GEOSPATIAL INTELLIGENCE.....	---	---	6,500	5,200
182 GLOBAL AIR TRAFFIC MANAGEMENT (GATM).....	6,028	6,028	6,028	6,028
183 CYBER SECURITY INITIATIVE.....	2,065	2,065	7,065	2,065
184 SATELLITE CONTROL NETWORK (SPACE).....	20,991	20,991	20,991	20,991
185 WEATHER SERVICE.....	33,531	33,531	33,531	33,531
186 AIR TRAFFIC CONTROL, APPROACH, & LANDING SYSTEM (ATC).....	9,006	9,006	12,006	11,406
187 AERIAL TARGETS.....	54,807	54,807	54,807	54,807
190 SECURITY AND INVESTIGATIVE ACTIVITIES.....	742	742	742	742
192 DEFENSE JOINT COUNTERINTELLIGENCE ACTIVITIES.....	39	39	39	39
194 NAVSTAR GLOBAL POSITIONING SYSTEM (USER EQUIPMENT).....	137,692	137,692	137,692	137,692
195 NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE AND CONTROL).....	52,039	52,039	52,039	52,039
197 SPACE AND MISSILE TEST AND EVALUATION CENTER.....	3,599	3,599	3,599	3,599

(In thousands of dollars)

	Budget	House	Senate	Recommendation
198 SPACE WARFARE CENTER.....	3,009	3,009	3,009	3,009
199 SPACELIFT RANGE SYSTEM (SPACE).....	9,957	9,957	9,957	9,957
200 INTELLIGENCE SUPPORT TO INFORMATION OPERATIONS.....	1,240	2,240	1,240	2,240
202 ENDURANCE UNMANNED AERIAL VEHICLES.....	73,736	73,736	38,736	48,736
203 AIRBORNE RECONNAISSANCE SYSTEMS.....	143,892	145,892	143,892	145,492
204 MANNED RECONNAISSANCE SYSTEMS.....	12,846	15,346	12,846	14,846
205 DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS.....	82,765	82,765	82,765	82,765
206 PREDATOR UAV (JHIP).....	18,101	24,301	22,101	23,776
207 RQ-4 UAV.....	317,316	317,316	317,316	317,316
208 NETWORK-CENTRIC COLLABORATIVE TARGET (TIARA).....	8,160	8,160	8,160	8,160
209 GPS III SPACE SEGMENT.....	815,095	717,695	425,695	425,695
209 GPS CONTROL SEGMENT (OCX).....	---	---	292,000	292,000
210 JSPOC MISSION SYSTEM.....	131,271	131,271	137,271	136,271
211 INTELLIGENCE SUPPORT TO INFORMATION WARFARE.....	5,267	5,267	5,267	5,267
213 NUDET DETECTION SYSTEM (SPACE).....	84,021	84,021	84,021	84,021
214 NATIONAL SECURITY SPACE OFFICE.....	10,634	---	10,634	---
215 SPACE SITUATION AWARENESS OPERATIONS.....	54,648	54,648	54,648	54,648
216 MASS, IO TECHNOLOGY INTEGRATION & TOOL DEV.....	30,076	30,076	30,076	30,076
217 SHARED EARLY WARNING (SEW).....	3,082	3,082	3,082	3,082
218 C-130 AIRLIFT SQUADRON.....	201,250	201,250	182,250	109,250
219 C-5 AIRLIFT SQUADRONS.....	95,266	95,266	85,266	85,266
220 C-17 AIRCRAFT.....	161,855	161,855	161,855	161,855
221 C-130J PROGRAM.....	30,019	30,019	30,019	30,019
222 LARGE AIRCRAFT IR COUNTERMEASURES (LAIRCM).....	31,784	31,784	26,784	26,784
223 KC-135S.....	10,297	10,297	10,297	10,297
224 KC-10S.....	35,586	35,586	35,586	35,586
226 OPERATIONAL SUPPORT AIRLIFT.....	4,916	4,916	4,916	4,916
228 SPECIAL TACTICS / COMBAT CONTROL.....	8,222	10,222	10,222	11,422
229 DEPOT MAINTENANCE (NON-IF).....	1,508	1,508	1,508	1,508

(In thousands of dollars)

	Budget	House	Senate	Recommendation
231 INDUSTRIAL PREPAREDNESS.....	---	4,000	1,000	4,000
232 LOGISTICS INFORMATION TECHNOLOGY (LOGIT).....	246,483	246,483	246,483	246,483
233 SUPPORT SYSTEMS DEVELOPMENT.....	6,288	12,788	38,188	38,258
234 OTHER FLIGHT TRAINING.....	805	805	805	805
235 JOINT NATIONAL TRAINING CENTER.....	3,220	3,220	3,220	3,220
236 TRAINING DEVELOPMENTS.....	1,769	1,769	1,769	1,769
237 OTHER PERSONNEL ACTIVITIES.....	116	116	116	116
238 JOINT PERSONNEL RECOVERY AGENCY.....	6,376	6,376	6,376	11,376
239 SERVICE-WIDE SUPPORT (NOT OTHERWISE ACCOUNTED FOR)....	---	---	---	---
240 CIVILIAN COMPENSATION PROGRAM.....	8,174	8,174	8,174	8,174
241 PERSONNEL ADMINISTRATION.....	10,492	10,492	30,982	30,982
242 FINANCIAL MANAGEMENT INFORMATION SYSTEMS DEVELOPMENT..	55,991	55,991	55,991	55,991
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	6,796,817	6,848,770	6,642,020	6,731,333
999 CLASSIFIED PROGRAMS.....	11,955,084	12,148,484	12,064,884	12,121,644
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, AIR FORCE	27,992,827	27,978,278	28,049,015	28,121,985

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

R-1	Budget Request	House	Senate	Recommendation
<b>1 DEFENSE RESEARCH SCIENCES</b>	<b>321,028</b>	<b>323,528</b>	<b>331,028</b>	<b>329,828</b>
Process Integrated Mechanism for Human-Computer Collaboration and Coordination		1,000		800
Safeguarding End-User Military Software		1,500	5,000	4,000
Coal Transformation Laboratory			1,000	800
Development and Validation of Advanced Design Technologies for Hypersonic Research			2,000	1,600
Development of Deployable Biosensors			2,000	1,600
<b>2 UNIVERSITY RESEARCH INITIATIVES</b>	<b>132,249</b>	<b>140,449</b>	<b>136,949</b>	<b>142,109</b>
Cyber Security Research Program/Cyber Security Laboratory		1,500	1,000	1,200
Unmanned Aerial Systems Mission Planning and Operation Center		3,500		2,800
Energy and Sensor Informatics Research and Translation		1,000		800
Frank R. Seaver Science and Engineering Initiative		2,200		1,780
Cyber Innovation Center (CIC) Research and Development Seed Fund			1,000	800
Cybersecurity of Security Control Networks (Note: Includes transfer from O&M, Air Force)			1,700	1,700
High Temperature Hydrogen Energy Production Facility			1,000	800
<b>7 MATERIALS</b>	<b>127,957</b>	<b>155,707</b>	<b>168,957</b>	<b>178,157</b>
Accelerated Insertion of Advanced Materials and Certification for Military Aircraft Structure Material Substitution and Repair		2,500		2,000
Advanced Aerospace Carbon Foam Heat Exchangers		750	4,000	3,200
Aerospace Laser Micro Engineering Station		1,000		800
Fine Water Mist Fire Suppression Technology to Replace Halon		2,500		2,000
Gallium Nitride (GaN) Microelectronics and Materials		2,000		1,600
Institute for Science and Engineering Simulation/Aircraft Fatigue Modeling and Simulation		4,500	3,000	3,600
Large Area, APVT Materials Development for High Power Devices		2,000		1,600
Low-Defect Density Gallium Nitride Materials for High- Performance Electronic Devices		3,500		2,800
ONAMI Safer Nanomaterials and Nanomanufacturing		2,000	4,400	3,520
Partnership for Energy and Automation Technologies		2,000		1,600
Pennsylvania Nanomaterials Commercialization Center		1,000		800
Ultra-High Temperature Materials for Hypersonic Aerospace Vehicles		3,000		2,400
Carbon Nanomaterials for Advanced Aerospace Applications		1,000		800
Air Force Minority Leaders Program			6,000	4,800
Conducting Polymer Stress and Polymer Damage Sensors for Composites			3,600	2,880
Consortium for Nanomaterials for Aerospace Commerce and Technology (CONTACT)			4,000	3,200
Development of Mobile Wind Turbine Systems to Power Forward Bases			1,500	1,200
Energy Efficiency, Recovery and Generation (ENERGY)			1,000	1,000
Fire and Blast Resistant Materials for Force Protection			4,000	3,200
Hybrid Materials Integration (HMI)			2,500	2,000

R-1	Budget Request	House	Senate	Recommendation	
			2,000	1,600	
			3,000	3,000	
			1,000	800	
			1,000	800	
8	AEROSPACE VEHICLE TECHNOLOGIES	127,129	129,129	138,529	139,149
	Unmanned Sense, Track, and Avoid Radar		2,000		1,600
	Materials Integrity Management Research for the Air Force			3,000	3,000
	UAV Sensor and Maintenance Development Center			4,900	3,920
	Unmanned Aerial System Exploitation			3,500	3,500
9	HUMAN EFFECTIVENESS APPLIED RESEARCH	85,122	85,122	96,122	93,922
	Advanced Night Vision System - Cockpit Integration			1,000	800
	Imaging Tools for Human Performance Enhancement and Diagnostics			2,000	1,600
	Center for UAS Research, Education and Training (Includes transfer from line number 206)			8,000	6,400
10	AEROSPACE PROPULSION	196,529	226,669	199,529	221,641
	Advanced Lithium Battery Scale-up and Manufacturing		2,000		1,600
	Advanced Vehicle Propulsion Center		3,000		2,400
	Aerospace Lab Equipment Upgrade		1,500		1,200
	AFRL Edwards Rocket Test Stand 2-A Technical Improvements (Includes transfer from line number 11)		1,500		3,200
	Development and Testing of Advanced Hybrid Rockets for Space Applications		3,500		2,800
	High Energy Li-Ion Technology for Aviation Batteries		1,500		1,200
	Integrated Engine Starter/Generator		2,000		1,600
	Integrated Propulsion Analysis and Spacecraft Engineering Tools (IPAT/ISET)		6,000		4,800
	Multi-Mode Propulsion Phase IIA: High Performance Green Propellant		2,000		1,600
	National Test Facility for Aerospace Fuels Propulsion		1,640		1,312
	Thermal and Energy Management for Aerospace		4,000	3,000	3,200
	Wavelength Agile Spectral Harmonic Oxygen Sensor and Cell-Level Battery Controller		1,500		1,200
	Energy Superior Lithium Battery Technology for Defense Applications			2,000	1,600
	HEETE - funded in P.L. 111-5			-5,000	-5,000
	Next Generation Solar Electric In-Space Propulsion			1,000	800
	Split Discharge Variable Delivery Pump for Military Aircraft			2,000	1,600
11	AEROSPACE SENSORS	121,768	129,768	135,668	136,588
	Advanced Electronic Components for Sensor Arrays		3,000		2,400
	Net-Centric Sensor Grids		3,000		2,400
	Watchkeeper		2,000		1,600
	Advanced Integrated Microsystems for Military Electronic Systems			3,100	2,480
	Edwards Rocket Test Stand 2-A Improvements (Transferred to line number 10)			4,000	
	Information Quality Tools for Persistent Surveillance Data Sets			1,800	1,440
	On-Chip Integrated Photonic Polymer Transceiver			5,000	4,500

R-1		Budget Request	House	Senate	Recommendation
12	<b>SPACE TECHNOLOGY</b>	104,148	116,248	110,148	119,628
	Advanced Modular Avionics for Operationally Responsive Satellite Use		3,100		2,480
	Center for Solar Electricity and Hydrogen		5,000		4,000
	Center for Space Entrepreneurship		2,000		1,600
	Mission Design and Analysis Tool		2,000		1,600
	AFRL Seismic Research Program			5,000	5,000
	Reconfigurable Electronics and Non-Volatile Memory Research			1,000	800
14	<b>DIRECTED ENERGY TECHNOLOGY</b>	105,677	106,677	99,927	106,477
	Hybrid Nanoparticle-based Coolant Technology Development and Manufacturing		1,000		800
	Chemical Laser Technology - authorization adjustment			-5,750	0
15	<b>COMMAND CONTROL AND COMMUNICATIONS</b>	0	2,500	0	2,000
	Efficient Utilization of Transmission Hyperspace		2,500		2,000
17	<b>HIGH ENERGY LASER RESEARCH</b>	52,754	61,254	46,654	53,454
	Advanced Deformable Mirrors for High Energy Laser Weapons		2,000		1,600
	High Bandwidth, High Energy Storage, Exawatt Laser Glass Development		3,500		2,800
	Planar Lightwave Circuit Development for High Power Military Laser Applications		3,000		2,400
	Chemical Laser Technology - authorization adjustment			-6,100	-6,100
18	<b>ADVANCED MATERIALS FOR WEAPON SYSTEMS</b>	37,901	56,301	64,501	71,901
	EMI Grid Fabrication Technology		3,000		2,400
	Hawaii Microalgae Biofuel Project		4,400		3,520
	Hybrid Bearings		1,000		800
	Metals Affordability Initiative		10,000	5,000	10,000
	Aircraft Evaluation Readiness Initiative			3,000	2,400
	Automated Processing of Advanced Low Observables (RAPALO)			1,500	1,200
	Military Waste-to-Energy Project using the Hydro-Thermal Energy Conversion (Hy-TEC) Process			2,000	1,600
	Sewage-Derived Biofuels Project			4,800	3,840
	SiC - RF Power for Airborne Avionics Systems			2,000	1,600
	Silicon Carbide Electronics Material Producibility Initiative			6,300	5,040
	Strategic Biofuels Supply System			2,000	1,600
20	<b>ADVANCED AEROSPACE SENSORS</b>	51,482	53,482	51,482	53,082
	Reconfigurable Secure Computing		2,000		1,600
21	<b>AEROSPACE TECHNOLOGY DEV/DEMO</b>	76,844	91,844	76,844	88,594
	3D Bias Woven Perform Development		3,000		2,400
	Big Antennas Small Structures Efficient Tactical UAV		2,000		1,600
	Long-Loiter, Load Bearing Antenna Platform for Pervasive Airborne Intelligence		5,000		4,000
	Program Increase		5,000		3,750
	<b>AEROSPACE PROPULSION AND POWER</b>				
22	<b>TECHNOLOGY</b>	175,676	191,176	178,676	189,576
	Algal-Derived Jet Fuel for Air Force Applications		3,000		2,700
	Bio-JP8 Fuel Development		5,000		4,000
	Renewable Hydrocarbon Fuels for Military Applications		2,500		2,000



R-1		Budget Request	House	Senate	Recommendation
34	INTELLIGENCE ADVANCED DEVELOPMENT Multilingual Text Mining Platform for Intelligence Analysts	5,009	6,009 1,000	5,009	5,809 800
40	SPACE CONTROL TECHNOLOGY Space Situational Awareness	97,701	97,701	102,701 5,000	101,701 4,000
41	COMBAT IDENTIFICATION TECHNOLOGY Advanced Fast Steering Mirror Applications for 3-D LADAR in LITENING Pod	27,252	27,252	29,252 2,000	28,852 1,600
46	INTERCONTINENTAL BALLISTIC MISSILE Minuteman III Advanced Third Stage Domestic Fiber Motor Case Development	66,079	69,079 3,000	66,079	68,479 2,400
48	POLLUTION PREVENTION (DEMAVAL) Program Increase	2,896	12,896 10,000	2,896	10,396 7,500
51	BATTLE MGMT COM & CTRL SENSOR DEVELOPMENT Early to need RTIP development for large aircraft platform	22,612	0 -22,612	72,612 50,000	22,612 0 0
56	ALTERNATIVE FUELS Synthetic Liquid Fuels Advance Propulsion Non-Tactical Vehicle Excess to need	89,020	94,020 3,000 2,000	69,020 -20,000	73,020 2,400 1,600 -20,000
59	OPERATIONALLY RESPONSIVE SPACE Micro-Satellite Serial Manufacturing to Include Academic Outreach Educational Program Low-Earth Orbit Nanosatellite Integrated Defense Autonomous Systems (LEONIDAS) Rapid Small Satellite Development Test Facilities Space Sensor Data Link Technology	112,861	114,361 1,500	125,861 5,000 2,000 6,000	125,211 1,200 4,750 1,600 4,800
51A	NEXT GENERATION MILSATCOM TECHNOLOGY DEVELOPMENT Next generation MILSATCOM technology development (Transferred from Missile Procurement, Air Force line number 16)			50,000 50,000	50,000 50,000
63	NUCLEAR WEAPONS SUPPORT Nuclear Enterprise Surety Tracking	37,860	42,860 5,000	37,860	41,860 4,000
65	SPECIALIZED UNDERGRADUATE FLIGHT TRAINING Improved Brake System Program Termination AT-6B Demonstration for ANG	6,227	10,862 -2,365 7,000	7,862 -2,365 4,000	10,862 -2,365 7,000
68	ELECTRONIC WARFARE DEVELOPMENT MALD-J excess to Air Force requirement	97,275	97,275	80,275 -17,000	80,275 -17,000
69	TACTICAL DATA NETWORKS ENTERPRISE Excess to need Global UAS Networking and Interoperability System (GUNIS)	88,444	88,444	82,944 -10,000 4,500	87,444 -5,000 4,000
71	SMALL DIAMETER BOMB (SDB) High Pressure Pure Air Generator System	153,815	155,815 2,000	153,815	155,415 1,600

R-1	Budget Request	House	Senate	Recommendation
<b>73 SPACE SITUATION AWARENESS SYSTEMS</b>	<b>308,134</b>	<b>207,834</b>	<b>269,534</b>	<b>239,534</b>
Space Fence Program Reduction		-45,200		-30,000
Space Based Space Surveillance Follow-on		-55,100	-36,700	-36,700
High Accuracy Network Determination System-Intelligent Optical Network for Space Situational Awareness (Includes transfer from RDT&E, Defense-Wide line number 34)			5,000	5,000
Space Surveillance Telescope (SST)			-6,900	-6,900
<b>75 SPACE BASED INFRARED SYSTEM (SBIRS) HIGH EMD</b>	<b>512,642</b>	<b>526,442</b>	<b>512,642</b>	<b>526,442</b>
Ground Development (Transferred from line number 76)		13,800		13,800
<b>THIRD GENERATION INFRARED SURVEILLANCE (3GIRS)</b>				
<b>76 (3GIRS)</b>	<b>143,169</b>	<b>39,169</b>	<b>143,169</b>	<b>73,369</b>
Third Generation Infrared System		-90,200		-56,000
Ground Development (Transfer to line number 75)		-13,800		-13,800
<b>80 LIFE SUPPORT SYSTEMS</b>	<b>10,711</b>	<b>11,911</b>	<b>14,111</b>	<b>14,331</b>
Program Increase - Bomber Crew Safety Study		1,200		900
ACES 5 Ejection Seat			2,400	1,920
Backpack Medical Oxygen System (BMOS)			1,000	800
<b>81 COMBAT TRAINING RANGES</b>	<b>29,718</b>	<b>29,718</b>	<b>14,718</b>	<b>22,718</b>
ACTS Range Threat Systems - program delay			-15,000	-10,000
PSCTS Equipment for the MT Joint Training Environment (Transferred from Aircraft Procurement, Air Force line number 85)				3,000
<b>INTEGRATED COMMAND &amp; CONTROL APPLICATIONS (IC2A)</b>				
<b>82 (IC2A)</b>	<b>10</b>	<b>9,010</b>	<b>10</b>	<b>6,960</b>
Distributed Mission Interoperability Toolkit (DMIT)		4,000		3,200
Program Increase		5,000		3,750
<b>84 JOINT STRIKE FIGHTER (JSF)</b>	<b>1,858,055</b>	<b>2,073,055</b>	<b>1,780,055</b>	<b>2,073,055</b>
Alternate Engine Development		215,000		215,000
Excess to need			-78,000	0
<b>EVOLVED EXPENDABLE LAUNCH VEHICLE PROGRAM (SPACE)</b>				
<b>86 (SPACE)</b>	<b>26,546</b>	<b>51,546</b>	<b>26,546</b>	<b>46,546</b>
Program Increase		25,000		20,000
<b>88 NEXT GENERATION AERIAL REFUELING AIRCRAFT</b>	<b>439,615</b>	<b>0</b>	<b>409,615</b>	<b>15,000</b>
Transferred to Title VIII		-439,615		-394,615
Contract award delay			-30,000	-30,000
<b>89 CSAR-X RDT&amp;E</b>	<b>89,975</b>	<b>9,975</b>	<b>0</b>	<b>0</b>
Program terminated		-80,000		0
Air Force requested transfer to line number 89A and Aircraft Procurement, Air Force line number 14			-89,975	-89,975
<b>89A HH-60 RDT&amp;E</b>			<b>14,975</b>	<b>14,975</b>
HH-60 Replacements - Air Force requested transfer from line number 89			14,975	14,975
<b>91 JOINT SIAP EXECUTIVE PROGRAM OFFICE</b>	<b>34,877</b>	<b>34,877</b>	<b>14,877</b>	<b>14,877</b>
Unjustified request			-20,000	-20,000

R-1		Budget Request	House	Senate	Recommendation
92	LINK-16 SUPPORT AND SUSTAINMENT	0	0	79,300	79,300
	DOD requested transfer from Title VI Rapid Acquisition Fund for BACN			79,300	79,300
95	FULL COMBAT MISSION TRAINING	99,807	99,807	79,807	79,807
	Contract award delay			-20,000	-20,000
101	MAJOR T&E INVESTMENT	60,824	63,324	67,824	67,824
	Eglin AFB Range Operations Control Center		2,500		2,000
	Holloman High Speed Test Track			7,000	5,000
102	RAND PROJECT AIR FORCE	27,501	27,501	29,501	29,101
	RAND Project Air Force			2,000	1,600
105	TEST AND EVALUATION SUPPORT	736,488	736,488	755,788	746,488
	Authorization increase - Test Resources Management Center			19,300	10,000
	FACILITIES RESTORATION & MODERNIZATION - TEST & EVAL				
108		52,409	60,409	52,409	58,809
	Base Facility Energy Independence, Stewart Air National Guard Base		5,000		4,000
	Inter-Base Facility Energy Independence		3,000		2,400
	FACILITIES SUSTAINMENT - TEST AND EVALUATION SUPPORT				
109		29,683	29,683	34,683	33,683
	Sustainable Energy Vermont National Guard			5,000	4,000
114	COMMON VERTICAL LIFT SUPPORT PLATFORM	9,513	2,000	5,513	4,000
	Unjustified program/Excess to need		-7,513	-4,000	-5,513
117	B-52 SQUADRONS	93,930	102,930	99,930	102,330
	B-52 Tactical Data Link Capability		6,000	6,000	6,000
	Reconstitution of B-52 Nuclear Capability Study		3,000		2,400
119	B-1B SQUADRONS	148,025	178,025	179,025	179,025
	Transferred from Aircraft Procurement, Air Force line number 28		29,000	29,000	29,000
	B-1 AESA Radar Operational Utility Evaluation		1,000	2,000	2,000
120	B-2 SQUADRONS	415,414	436,714	397,414	407,189
	Program Increase		15,300		12,175
	B-2 Advanced Tactical Data Link		6,000	12,000	9,600
	EHF SATCOM Increment 2 - premature request			-30,000	-30,000
128	MQ-9 UAV	39,245	109,245	39,245	91,745
	Program Increase		70,000		52,500
130	A-10 SQUADRONS	9,697	9,697	12,197	12,197
	CAD/CAM Aircraft Structural Overhaul Work Center			2,500	2,500
131	F-16 SQUADRONS	141,020	141,020	143,020	142,620
	Thunder Radar Pod			2,000	1,600
132	F-15E SQUADRONS	311,167	312,167	323,167	319,967
	Corrosion Detection and Visualization Program		1,000		800
	F-15C AESA Classified Demo		8,000	12,000	8,000

R-1	Budget Request	House	Senate	Recommendation
133 MANNED DESTRUCTIVE SUPPRESSION	10,748	10,748	8,748	9,748
Funding ahead of need			-2,000	-1,000
AIRCRAFT ENGINE COMPONENT IMPROVEMENT				
142 PROGRAM	166,563	157,563	154,563	156,963
F-135 Engine - Early to need		-12,000	-12,000	-12,000
Senior Scout Communications Intelligence (COMINT) Capability Upgrade		3,000		2,400
143 CSAF INNOVATION PROGRAM	4,621	4,621	12,921	11,261
Eagle Vision III Upgrades			6,000	4,800
Multiband Realtime Hyperspectral Targeting Sensor			2,300	1,840
145 AIR AND SPACE OPERATIONS CENTER (AOC)	99,405	101,405	103,405	102,605
COTS Technology for Space Command and Control		2,000	4,000	3,200
153 FIGHTER TACTICAL DATA LINK	72,106	72,106	62,106	67,106
Excess to need			10,000	-5,000
156 COMMAND AND CONTROL (C2) CONSTELLATION	26,792	31,792	26,792	30,792
GAPS/AWS Horizontal Integration		5,000		4,000
JOINT SURVEILLANCE AND TARGET ATTACK RADAR				
157 SYSTEM	140,670	140,670	175,670	186,670
Re-engining program (Transferred from Aircraft Procurement, Air Force line number 59)			35,000	46,000
162 MISSION PLANNING SYSTEMS	91,995	91,995	41,995	81,995
Program delay			-50,000	-10,000
163 INFORMATION WARFARE SUPPORT	12,271	14,271	12,271	13,871
Electromagnetic Battlespace Management		2,000		1,600
173 INFORMATION SYSTEMS SECURITY PROGRAM	196,621	196,621	136,621	166,621
Restructure of Cryptographic Modernization program			-35,000	-10,000
Premature request			-25,000	-20,000
175 GLOBAL COMMAND AND CONTROL SYSTEM	3,149	7,149	3,149	6,349
Command and Control Service Level Management (C2SLM) Program		4,000		3,200
176 JOINT COMMAND AND CONTROL PROGRAM (JC2)	3,087	3,087	0	0
Program termination			-3,087	-3,087
179 AIRBORNE SIGINT ENTERPRISE	176,989	176,989	166,989	166,989
ASIP RQ-4 program delay			-10,000	-10,000
181 ADVANCED GEOSPATIAL INTELLIGENCE	0	0	6,500	5,200
Advanced Technical Intelligence Center (ATIC)			6,500	5,200
183 CYBER SECURITY INITIATIVE	2,065	2,065	7,065	2,065
Cyber Attack and Security Environment (CASE) (Transferred to line number 32)			5,000	0
AIR TRAFFIC CONTROL, APPROACH, & LANDING				
186 SYSTEM (ATC)	9,006	9,006	12,006	11,406
Transportable Transponder Landing System			3,000	2,400

R-1	Budget Request	House	Senate	Recommendation
200 INTELLIGENCE SUPPORT TO INFORMATION	1,240	2,240	1,240	2,240
Open Source Research Centers		1,000		1,000
202 ENDURANCE UNMANNED AERIAL VEHICLES	73,736	73,736	38,736	48,736
ISIS - authorization adjustment			-35,000	-25,000
203 AIRBORNE RECONNAISSANCE SYSTEMS	143,892	145,892	143,892	145,492
Multiple UAS Cooperative Concentrated Observation and Engagement Against a Common Ground Objective		2,000		1,600
204 MANNED RECONNAISSANCE SYSTEMS	12,846	15,346	12,846	14,846
Rivet Joint Services Oriented Architecture		2,500		2,000
206 PREDATOR UAV (JMIP)	18,101	24,301	22,101	23,776
Predator C		1,500		1,200
Center for UAS Research, Education and Training Infrastructure (Transferred to line number 9)		3,000		0
Program increase		1,700		1,275
Multi Sensor Detect, Sense and Avoid (MSDSA)			4,000	3,200
209 GPS III SPACE SEGMENT	815,095	717,695	425,695	425,695
GPS Control Segment (OCX)		-97,400		0
GPS Control Segment (OCX) (Transferred to line number 209A)			-389,400	-389,400
209A GPS Control Segment (OCX)			292,000	292,000
GPS Control Segment (OCX) (Transferred from line number 209 - reduction due to contract award delay)			292,000	292,000
210 JSPOC MISSION SYSTEM	131,271	131,271	137,271	136,271
Project Kameac - authorization adjustment			6,000	5,000
214 NATIONAL SECURITY SPACE OFFICE	10,634	0	10,634	0
Program transferred to O&M, Defense-Wide		-10,634		-10,634
218 C-130 AIRLIFT SQUADRON	201,250	201,250	182,250	109,250
Funded in prior year reprogramming			-19,000	-19,000
Air Force requested transfer to Aircraft Procurement, Air Force line number 52 for avionics modernization of special mission aircraft				-73,000
219 C-5 AIRLIFT SQUADRONS	95,266	95,266	85,266	85,266
C-5 RERP - program underexecution			-10,000	-10,000
222 LARGE AIRCRAFT IR COUNTERMEASURES (LAIRCM)	31,784	31,784	26,784	26,784
Program underexecution			-5,000	-5,000
228 SPECIAL TACTICS / COMBAT CONTROL	8,222	10,222	10,222	11,422
BATMAV Program Miniature Digital Data Link		2,000		1,600
Next Generation Simulation Training for Pararescue Forces			2,000	1,600
231 INDUSTRIAL PREPAREDNESS	0	4,000	1,000	4,000
Laser Peening for Friction Stir Welded Aerospace Structures		2,000		1,600
Wire Integrity Technology		2,000		1,600
Mobile Laser Systems for Aircraft Structures (MLSAS)			1,000	800

R-1		Budget Request	House	Senate	Recommendation
233	<b>SUPPORT SYSTEMS DEVELOPMENT</b>	6,288	12,788	38,188	38,258
	Accelerator-Driven Non-Destructive Testing		2,000		2,000
	ALC Logistics Integration Environment		1,000		800
	Demonstration and Validation of Renewable Energy Technology		1,000		800
	Technical Order Modernization Environment		1,500		1,200
	Mitigating RoHS Lead-Free Issues in Aerospace Circuit Board Manufacturing		1,000		800
	Alternative energy research and integration			25,000	18,450
	Assessment of Alternative Energy for Aircraft Ground Equipment (AGE)			2,000	1,600
	Freedom Fuels/Coal Fuel Alliance			4,900	3,920
	Engine Health Management Plus Data Repository Center (Transferred from O&M, Air Force)				2,400
238	<b>JOINT PERSONNEL RECOVERY AGENCY</b>	6,376	6,376	6,376	11,376
	Biometric Signature and Passive Physiological Monitoring (Transferred from RDT&E, Army line number 28)				5,000
241	<b>PERSONNEL ADMINISTRATION</b>	10,492	10,492	30,982	30,982
	DIMHRS (OSD requested transfer from RDT&E, Defense- Wide line number 117)			20,490	20,490
999	<b>CLASSIFIED PROGRAMS</b>	11,955,084	12,148,484	12,064,884	12,121,644
	Classified adjustment		-27,800	-30,200	1,600
	Carbon Nanotube Enhanced Power Sources for Space		2,000		1,600
	Remote Language-Independent Suspect Identification		3,200		2,560
	Close Proximity Space Situational Awareness		1,000		800
	Classified Program		215,000	140,000	160,000

## AERIAL REFUELING TANKER PROGRAM

The recommendation includes \$15,000,000 in Research, Development, Test and Evaluation, Air Force for program management and a general provision providing \$291,715,000 in a Tanker Replacement Transfer Fund.

Not later than 10 days after the release of the final request for proposal soliciting bids for an aerial tanker replacement aircraft, the Secretary of the Air Force is directed to submit a report to the congressional defense committees that includes a description of changes from the draft proposal to the final request for proposal and the rationale for each change.

The Secretary of the Air Force is encouraged to pursue tanker recapitalization at a rate of 36 aircraft per year instead of 12 or 15 aircraft in the current plan. This quantity will recapitalize the fleet in one-third the time and allow for a rapid retirement of the aging KC-135 aircraft. Furthermore, a more accelerated procurement strategy will avoid the large sustainment and modernization costs associated with keeping the legacy KC-135 fleet in the inventory longer.

## MODULAR AERIAL SPRAY SYSTEM (MASS) REPLACEMENT

The modular aerial spray system (MASS) is maintained by the Air Force Reserve and is the only fixed-wing aerial spray capability in the Department of the Defense. The current program is over 20 years old and is becoming increasingly difficult to maintain, leading to increased cost and the inability to conduct required missions. There is presently no recapitalization plan to replace the system. The Secretary of the Air Force is encouraged to pursue a recapitalization program in order to maintain this needed capability.

## EVOLVED EXPENDABLE LAUNCH VEHICLE COMMON UPPER STAGE

The recommendation includes \$20,000,000 to study options and begin research and development to achieve a common upper stage between the Atlas and Delta launch vehicle families. The Air Force is urged to develop a process to modify Delta IV RL-10 upper stage engines to the Atlas V RL-10 configuration to enable more efficient use of the existing RL-10 inventory. The study shall also investigate how to modify the upper stage(s) to enable Centaur and the Delta Cryogenic Second Stage to use a common RL-10 engine and other potential modifications to achieve a truly common upper stage.

## EVOLVED EXPENDABLE LAUNCH VEHICLE SUSTAINMENT PLAN

The Secretary of the Air Force, in consultation with the Director of the National Reconnaissance Office, is directed to submit an Evolved Expendable Launch Vehicle sustainment plan as described in House Report 111-230 to the congressional defense committees with the fiscal year 2011 budget submission.

## 15-YEAR SPACE SYSTEM INVESTMENT STRATEGY

The recommendation supports language on a long-term space system investment strategy as described in House Report 111-230.

The investment strategy is directed to span 15 years rather than the originally proposed 30 years. In addition, the Under Secretary of Defense (Acquisition, Technology and Logistics) is directed, in coordination with the Secretary of the Air Force and the Under Secretary of Defense (Intelligence), to deliver this Space System Investment Strategy to the congressional defense committees not later than May 1, 2010. As necessary, the report should contain a classified appendix.

#### NATIONAL POLAR-ORBITING OPERATIONAL ENVIRONMENTAL SATELLITE SYSTEM

There is concern about the executability and management of the National Polar-orbiting Operational Environmental Satellite System (NPOESS) program. Therefore, it is directed that not more than 50 percent of the funds made available to the Department of Defense for the NPOESS program shall be obligated or expended until the Under Secretary of Defense (Acquisition, Technology and Logistics) certifies in writing to the congressional defense committees that the NPOESS program is being executed in support of the requirements, timelines and acquisition policies needed to meet Department of Defense missions.

The Secretary of Defense is directed, in consultation with the National Oceanic and Atmospheric Administration and the National Aeronautics and Space Administration, to perform an independent cost analysis of all recommended programmatic and acquisition alternatives. This analysis shall be submitted to the Committee on Appropriations, Subcommittees on Defense and Commerce, Justice, Science and Related Agencies, of both the House and Senate, in addition to any other congressional oversight committee before any contract changes are signed and any major documents are revised by the government.

#### OPERATIONALLY RESPONSIVE SPACE

The Director of the Operationally Responsive Space program office is urged to provide the congressional defense committees with independent cost, schedule and performance estimates prior to initiating any satellite development activity.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION,  
DEFENSE-WIDE

For Research, Development, Test and Evaluation, Defense-Wide,  
funds are to be available for fiscal year 2010, as follows:

(In thousands of dollars)

	Budget	House	Senate	Recommendation
RESEARCH, DEVELOPMENT, TEST & EVAL, DEFENSE-WIDE				
BASIC RESEARCH				
1 DTRA UNIVERSITY STRATEGIC PARTNERSHIP BASIC RESEARCH..	48,544	48,544	33,544	41,044
2 DEFENSE RESEARCH SCIENCES.....	228,125	242,825	194,218	206,778
3 GOVT/INDUSTRY COSPONSORSHIP OF UNIVERSITY RESEARCH....	---	5,000	---	4,800
5 NATIONAL DEFENSE EDUCATION PROGRAM.....	89,980	89,980	69,980	79,980
6 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	58,974	79,474	67,874	79,094
TOTAL, BASIC RESEARCH.....	423,623	465,823	365,616	411,696
APPLIED RESEARCH				
7 INSENSITIVE MUNITIONS--EXPLORATORY DEVELOPMENT.....	22,689	18,961	15,112	18,961
9 HISTORICALLY BLACK COLLEGES & UNIV (HBCU) SCIENCE.....	15,164	65,521	18,464	67,086
10 LINCOLN LABORATORY RESEARCH PROGRAM.....	34,034	34,034	34,034	34,034
11 INFORMATION AND COMMUNICATIONS TECHNOLOGY.....	282,749	285,749	255,931	273,331
12 COGNITIVE COMPUTING SYSTEMS.....	142,840	144,840	142,840	144,840
13 BIOLOGICAL WARFARE DEFENSE.....	40,587	40,587	40,587	40,587
14 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	209,072	226,572	215,972	225,772
15 JOINT DATA MANAGEMENT ADVANCED DEVELOPMENT.....	4,940	4,940	---	---
16 HUMAN, SOCIAL AND CULTURE BEHAVIOR MODELING (HSCB) APP	9,446	9,446	7,946	7,946
17 TACTICAL TECHNOLOGY.....	276,075	278,075	241,125	249,725
18 MATERIALS AND BIOLOGICAL TECHNOLOGY.....	268,859	268,959	272,359	271,339
19 ELECTRONICS TECHNOLOGY.....	223,841	225,841	170,154	180,154
20 WEAPONS OF MASS DESTRUCTION DEFEAT TECHNOLOGIES.....	219,130	220,630	221,530	222,250
21 SPECIAL OPERATIONS TECHNOLOGY DEVELOPMENT.....	27,384	33,884	24,884	30,734
22 SOF MEDICAL TECHNOLOGY DEVELOPMENT.....	---	3,000	---	2,400
TOTAL, APPLIED RESEARCH.....	1,776,790	1,861,039	1,660,938	1,769,169

(In thousands of dollars)

	Budget	House	Senate	Recommendation
ADVANCED TECHNOLOGY DEVELOPMENT				
23 JOINT MUNITIONS ADVANCED TECH INSENSITIVE MUNITIONS AD	23,538	16,754	10,428	13,644
24 SO/LIC ADVANCED DEVELOPMENT.....	43,808	43,808	43,808	43,808
25 COMBATING TERRORISM TECHNOLOGY SUPPORT.....	81,888	102,368	106,266	118,108
26 COUNTERPROLIFERATION INITIATIVES--PROLIF PREV & DEFEAT	233,203	241,203	233,203	239,923
27 BALLISTIC MISSILE DEFENSE TECHNOLOGY.....	109,760	109,760	104,760	190,260
28 JOINT ADVANCED CONCEPTS.....	7,817	3,909	7,817	3,909
29 JOINT DOD-DOE MUNITIONS TECHNOLOGY DEVELOPMENT.....	23,276	23,276	23,276	23,276
30 ADVANCED AEROSPACE SYSTEMS.....	338,360	338,360	249,360	259,360
31 SPACE PROGRAMS AND TECHNOLOGY.....	200,612	202,612	189,312	190,912
32 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM - ADVANCED DEV	282,235	297,735	296,235	300,935
33 JOINT ELECTRONIC ADVANCED TECHNOLOGY.....	10,838	10,838	10,838	10,838
34 JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS.....	198,352	202,352	143,467	169,952
35 NETWORKED COMMUNICATIONS CAPABILITIES.....	28,212	28,212	28,212	28,212
36 JOINT DATA MANAGEMENT RESEARCH.....	4,935	4,935	4,935	4,935
37 BIOMETRICS SCIENCE AND TECHNOLOGY.....	10,993	10,993	10,993	10,993
38 HUMAN, SOCIAL AND CULTURE BEHAVIOR MODELING (HSCB) ADV	11,480	11,480	9,980	10,480
39 DEFENSE-WIDE MANUFACTURING SCIENCE AND TECHNOLOGY PROG	14,638	16,638	24,638	23,738
40 JOINT ROBOTICS PROGRAM/AUTONOMOUS SYSTEMS.....	9,110	11,610	9,110	11,110
41 GENERIC LOGISTICS R&D TECHNOLOGY DEMONSTRATIONS.....	19,043	34,043	42,643	52,123
42 DEPLOYMENT AND DISTRIBUTION ENTERPRISE TECHNOLOGY.....	29,356	29,356	29,356	29,356
43 STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM.....	69,175	69,175	67,675	67,675
44 MICROELECTRONIC TECHNOLOGY DEVELOPMENT AND SUPPORT....	26,310	51,810	55,210	70,830
45 JOINT WARFIGHTING PROGRAM.....	11,135	11,135	11,135	11,135
46 ADVANCED ELECTRONICS TECHNOLOGIES.....	205,912	207,912	179,907	194,907
47 SYNTHETIC APERTURE RADAR (SAR) COHERENT CHANGE DETECT.	4,864	4,864	4,864	4,864
49 HIGH PERFORMANCE COMPUTING MODERNIZATION PROGRAM.....	221,286	221,286	245,186	237,406
50 COMMAND, CONTROL AND COMMUNICATIONS SYSTEMS.....	293,476	293,476	270,326	270,326
52 CLASSIFIED DARPA PROGRAMS.....	186,526	186,526	178,326	178,326
53 NETWORK-CENTRIC WARFARE TECHNOLOGY.....	135,941	135,941	135,941	138,941

(In thousands of dollars)

	Budget	House	Senate	Recommendation
54 SENSOR TECHNOLOGY.....	243,056	243,056	223,800	223,800
55 GUIDANCE TECHNOLOGY.....	37,040	37,040	37,040	37,040
56 DISTRIBUTED LEARNING ADVANCED TECHNOLOGY DEVELOPMENT..	13,822	13,822	13,822	13,822
57 SOFTWARE ENGINEERING INSTITUTE.....	31,298	31,298	31,298	31,298
59 QUICK REACTION SPECIAL PROJECTS.....	107,984	92,984	69,484	74,184
60 JOINT EXPERIMENTATION.....	124,480	107,380	109,480	106,800
61 JOINT WARGAMING SIMULATION MANAGEMENT OFFICE.....	38,505	38,505	34,505	34,505
62 TEST & EVALUATION SCIENCE & TECHNOLOGY.....	95,734	95,734	95,734	95,734
63 TECHNOLOGY TRANSFER.....	2,219	12,219	8,319	13,669
65 SPECIAL OPERATIONS ADVANCED TECHNOLOGY DEVELOPMENT....	31,875	57,175	36,975	56,965
66 SPECIAL OPERATIONS ADVANCED TECHNOLOGY DEVELOPMENT....	3,544	3,544	3,544	3,544
67 SOF INFORMATION & BROADCAST SYSTEMS ADVANCED TECHNOLOG	4,988	4,988	4,988	4,988
TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	3,570,404	3,660,112	3,396,198	3,606,631
DEMONSTRATION & VALIDATION				
68 NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT..	36,019	39,019	46,219	46,179
70 RETRACT LARCH.....	21,718	21,718	37,218	21,718
71 JOINT ROBOTICS PROGRAM.....	11,803	15,803	11,803	15,403
72 ADVANCE SENSOR APPLICATIONS PROGRAM.....	17,771	17,771	17,771	17,771
73 ENVIRONMENTAL SECURITY TECHNICAL CERTIFICATION PROGRAM	31,613	36,613	37,013	41,113
74 BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT....	719,465	719,465	719,465	719,465
75 BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT....	982,922	982,922	1,032,922	1,032,922
76 BALLISTIC MISSILE DEFENSE BOOST DEFENSE SEGMENT.....	186,697	186,697	186,697	183,297
77 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	205,952	210,952	205,952	210,152
78 BALLISTIC MISSILE DEFENSE SENSORS.....	636,856	636,856	626,856	624,156
79 BALLISTIC MISSILE DEFENSE SYSTEM INTERCEPTOR.....	---	80,000	---	---
80 BALLISTIC MISSILE DEFENSE TEST & TARGETS.....	966,752	940,752	778,652	827,752
81 BALLISTIC MISSILE DEFENSE SYSTEMS CORE.....	369,145	358,645	358,145	360,645
82 SPECIAL PROGRAMS - MDA.....	301,566	286,566	251,566	251,566
83 AEGIS BMD.....	1,690,758	1,670,758	1,468,358	1,443,358
183 AEGIS SM-3 BLOCK IIA CO-DEVELOPMENT.....	---	---	257,400	257,400

(In thousands of dollars)

	Budget	House	Senate	Recommendation
84 SPACE SURVEILLANCE & TRACKING SYSTEM.....	180,000	160,000	173,200	162,500
86 BALLISTIC MISSILE DEFENSE SYSTEM SPACE PROGRAMS.....	12,549	12,549	12,549	12,549
87 BALLISTIC MISSILE DEFENSE C2BMC.....	340,014	340,014	340,014	336,514
88 BALLISTIC MISSILE DEFENSE HERCULES.....	48,186	48,186	48,186	48,186
89 BALLISTIC MISSILE DEFENSE JOINT WARFIGHTER SUPPORT....	60,921	61,421	60,921	61,421
90 BALLISTIC MISSILE DEFENSE JOINT NATIONAL INTERGRATION.	86,949	86,949	86,949	86,949
91 REGARDING TRENCH.....	6,164	6,164	6,164	6,164
92 SEA BASED X-BAND RADAR (SBX).....	174,576	161,576	174,576	168,076
95 BMD EUROPEAN CAPABILITY.....	50,504	50,504	50,504	50,504
97 ISRAELI COOPERATIVE PROGRAMS.....	119,634	202,434	202,434	202,434
98 HUMANITARIAN DEMINING.....	14,687	14,687	14,687	14,687
99 COALITION WARFARE.....	13,885	13,885	13,885	13,885
100 DEPARTMENT OF DEFENSE CORROSION PROGRAM.....	4,887	6,387	21,487	22,287
101 DOD UNMANNED AIRCRAFT SYSTEM (UAS) COMMON DEVELOPMENT.	55,289	65,289	55,289	61,289
102 JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS.....	18,577	3,577	18,577	11,077
103 HUMAN, SOCIAL AND CULTURE BEHAVIOR MODELING (HSCB) RES	7,006	7,006	7,006	7,006
104 JOINT SYSTEMS INTEGRATION COMMAND (JSIC).....	19,744	19,744	19,744	19,744
105 JOINT FIRES INTEGRATION & INTEROPERABILITY TEAM.....	16,972	16,972	16,972	16,972
106 REDUCTION OF TOTAL OWNERSHIP COST.....	24,647	24,647	24,647	24,647
107 JOINT ELECTROMAGNETIC TECHNOLOGY (JET) PROGRAM.....	3,949	6,949	3,949	6,349
108 DEFENSE ACQUISITION CHALLENGE PROGRAM (DACP).....	28,862	28,862	28,862	28,862
109 NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT .	7,628	7,628	7,628	7,628
110 PROMPT GLOBAL STRIKE CAPABILITY DEVELOPMENT.....	166,913	166,913	166,913	166,913
TOTAL, DEMONSTRATION & VALIDATION.....	7,641,580	7,716,880	7,591,180	7,589,540
ENGINEERING & MANUFACTURING DEVELOPMENT				
111 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	332,895	339,895	296,595	301,575
112 JOINT ROBOTICS PROGRAM.....	5,127	5,127	5,127	5,127
113 ADVANCED IT SERVICES JOINT PROGRAM OFFICE (AITS-JPO)..	39,911	39,911	15,157	15,157
114 JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM (JTIDS)	20,633	20,633	20,633	20,633

(In thousands of dollars)

	Budget	House	Senate	Recommendation
115 WEAPONS OF MASS DESTRUCTION DEFEAT CAPABILITIES.....	8,735	8,735	9,735	9,535
116 INFORMATION TECHNOLOGY DEVELOPMENT.....	11,705	15,205	11,705	14,505
117 DEFENSE INTEGRATED MILITARY HUMAN RESOURCES SYSTEM....	70,000	70,000	18,710	18,710
118 BUSINESS TRANSFORMATION AGENCY R&D ACTIVITIES.....	197,008	197,008	192,508	192,508
119 HOMELAND PERSONNEL SECURITY INITIATIVE.....	395	395	395	395
120 OUSD(C) IT DEVELOPMENT INITIATIVES.....	5,000	5,000	5,000	5,000
121 TRUSTED FOUNDRY.....	41,223	41,223	51,223	51,223
122 DEFENSE ACQUISITION EXECUTIVE (DAE) PILOT PROGRAM.....	4,267	4,267	4,267	4,267
123 GLOBAL COMBAT SUPPORT SYSTEM.....	18,431	18,431	18,431	18,431
124 JOINT COMMAND AND CONTROL PROGRAM (JC2).....	49,047	49,047	---	---
125 WOUNDED ILL AND INJURED SENIOR OVERSIGHT COMMITTEE OFF	1,609	1,609	1,609	1,609
<b>TOTAL, ENGINEERING &amp; MANUFACTURING DEVELOPMENT.....</b>	<b>805,986</b>	<b>816,486</b>	<b>651,095</b>	<b>658,675</b>
RD&E MANAGEMENT SUPPORT				
126 GENERIC LOGISTICS TECHNOLOGY DEMONSTRATIONS.....	---	2,000	---	---
127 DEFENSE READINESS REPORTING SYSTEM (DRRS).....	13,121	16,121	13,121	15,371
128 JOINT SYSTEMS ARCHITECTURE DEVELOPMENT.....	15,247	15,247	7,430	11,339
129 CENTRAL TEST AND EVALUATION INVESTMENT DEVELOPMENT....	145,052	152,552	157,452	162,272
130 THERMAL VICAR.....	9,045	12,045	9,045	11,445
131 JOINT MISSION ENVIRONMENT TEST CAPABILITY (JMETS).....	9,455	9,455	9,455	9,455
132 TECHNICAL STUDIES, SUPPORT AND ANALYSIS.....	44,760	44,760	44,760	44,760
133 USD(A&T)--CRITICAL TECHNOLOGY SUPPORT.....	4,914	4,914	4,914	4,914
134 FOREIGN MATERIAL ACQUISITION AND EXPLOITATION.....	94,921	94,921	94,921	94,921
135 JOINT THEATER AIR AND MISSILE DEFENSE ORGANIZATION....	96,909	96,909	96,909	96,909
136 CLASSIFIED PROGRAM USD(P).....	---	95,637	95,637	95,637
137 FOREIGN COMPARATIVE TESTING.....	35,054	35,054	35,054	35,054
138 NUCLEAR MATTERS - PHYSICAL SECURITY.....	6,474	6,474	6,474	6,474
139 SUPPORT TO NETWORKS AND INFORMATION INTEGRATION.....	14,916	14,916	14,916	14,916
140 GENERAL SUPPORT TO USD (INTELLIGENCE).....	5,888	5,888	5,888	5,888
141 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	106,477	106,477	106,477	106,477
147 SMALL BUSINESS INNOVATION RESEARCH/CHALLENGE ADMINISTR	2,163	3,163	4,063	4,683

(In thousands of dollars)

	Budget	House	Senate	Recommendation
148 DEFENSE TECHNOLOGY ANALYSIS.....	11,005	11,805	11,005	11,805
150 FORCE TRANSFORMATION DIRECTORATE.....	19,981	24,981	19,981	23,981
151 DEFENSE TECHNICAL INFORMATION CENTER (DTIC).....	54,411	49,411	54,411	49,411
152 R&D IN SUPPORT OF DOD ENLISTMENT, TESTING & EVALUATION	19,554	19,554	19,554	19,554
153 DEVELOPMENT TEST AND EVALUATION.....	23,512	23,512	23,512	23,512
154 DARPA AGENCY RELOCATION.....	45,000	45,000	15,000	45,000
155 MANAGEMENT HEADQUARTERS (RESEARCH & DEVELOPMENT).....	51,055	51,055	51,055	51,055
156 BUDGET AND PROGRAM ASSESSMENTS.....	5,929	5,929	5,929	5,929
157 AVIATION SAFETY TECHNOLOGIES.....	8,000	8,000	8,000	8,000
158 JOINT STAFF ANALYTICAL SUPPORT.....	1,250	1,250	1,250	1,250
161 SUPPORT TO INFORMATION OPERATIONS (IO) CAPABILITIES...	30,604	25,904	36,504	30,624
162 INFORMATION TECHNOLOGY RAPID ACQUISITION.....	4,667	4,667	4,667	4,667
163 CYBER SECURITY INITIATIVE.....	50,000	50,000	50,000	50,000
164 INTELLIGENCE SUPPORT TO INFORMATION OPERATIONS (IO)...	20,648	22,648	20,648	20,648
166 WARFIGHTING AND INTELLIGENCE-RELATED SUPPORT.....	829	829	829	829
167 COCOM EXERCISE ENGAGEMENT AND TRAINING TRANSFORMATION.	34,308	34,308	41,806	40,706
168 PENTAGON RESERVATION.....	19,709	---	19,709	19,709
169 MANAGEMENT HEADQUARTERS - MDA.....	57,403	52,403	57,403	52,403
170 IT SOFTWARE DEV INITIATIVES.....	980	980	980	980
TOTAL, RDT&E MANAGEMENT SUPPORT.....	1,063,239	1,148,767	1,148,759	1,180,578
OPERATIONAL SYSTEMS DEVELOPMENT				
171 DEFENSE INFORMATION SYSTEM FOR SECURITY (DISS).....	1,384	1,384	1,384	1,384
172 REGIONAL INTERNATIONAL OUTREACH & PARTNERSHIP FOR PEAC	2,001	2,001	2,001	2,001
173 OVERSEAS HUMANITARIAN ASSISTANCE SHARED INFORMATION SY	292	292	292	292
174 CHEMICAL AND BIOLOGICAL DEFENSE (OPERATIONAL SYSTEMS D	6,198	6,198	6,198	6,198
175 JOINT INTEGRATION AND INTEROPERABILITY.....	46,214	46,214	46,214	46,214
177 CLASSIFIED PROGRAMS.....	2,179	2,179	2,179	2,179
178 C4I INTEROPERABILITY.....	74,786	74,786	74,786	74,786
180 JOINT/ALLIED COALITION INFORMATION SHARING.....	10,767	10,767	10,767	10,767

(In thousands of dollars)

	Budget	House	Senate	Recommendation
187 NATIONAL MILITARY COMMAND SYSTEM-WIDE SUPPORT.....	548	548	548	548
188 DEFENSE INFO INFRASTRUCTURE ENGINEERING AND INTEGRATIO	17,655	17,655	17,655	17,655
189 LONG HAUL COMMUNICATIONS (DCS).....	9,406	9,406	9,406	9,406
190 MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK....	9,830	9,830	9,830	9,830
191 PUBLIC KEY INFRASTRUCTURE (PKI).....	8,116	8,116	8,116	8,116
192 KEY MANAGEMENT INFRASTRUCTURE (KMI).....	41,002	41,002	41,002	41,002
193 INFORMATION SYSTEMS SECURITY PROGRAM.....	13,477	13,477	15,477	15,077
194 INFORMATION SYSTEMS SECURITY PROGRAM.....	408,316	408,316	408,316	408,316
196 DISA MISSION SUPPORT OPERATIONS.....	1,205	1,205	1,205	1,205
197 C4I FOR THE WARRIOR.....	4,098	4,098	4,098	4,098
198 GLOBAL COMMAND AND CONTROL SYSTEM.....	23,761	23,761	34,761	34,761
199 JOINT SPECTRUM CENTER.....	18,944	18,944	18,944	18,944
200 NET-CENTRIC ENTERPRISE SERVICES (NCES).....	1,782	1,782	1,782	1,782
201 JOINT MILITARY DECEPTION INITIATIVE.....	942	942	942	942
202 TELEPORT PROGRAM.....	5,239	5,239	5,239	5,239
203 SPECIAL APPLICATIONS FOR CONTINGENCIES.....	16,381	30,381	16,381	27,581
206 CYBER SECURITY INITIATIVE.....	993	993	993	993
208 CYBER SECURITY INITIATIVE.....	10,080	10,080	10,080	10,080
209 CRITICAL INFRASTRUCTURE PROTECTION (CIP).....	12,725	12,725	17,725	16,725
215 POLICY R&D PROGRAMS.....	6,948	6,948	6,948	6,948
217 NET CENTRICITY.....	1,479	1,479	1,479	1,479
221 DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS.....	1,407	9,407	1,407	7,407
224 DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS.....	3,158	3,158	3,158	3,158
226 MQ-1 PREDATOR A UAV.....	2,067	2,067	2,067	2,067
228 HOMELAND DEFENSE TECHNOLOGY TRANSFER PROGRAM.....	2,963	2,963	2,963	2,963
229 INT'L INTELLIGENCE TECHNOLOGY ASSESSMENT, ADVANCEMENT.	1,389	1,389	1,389	1,389
236 INDUSTRIAL PREPAREDNESS.....	20,514	28,014	50,514	46,514
239 LOGISTICS SUPPORT ACTIVITIES.....	2,798	2,798	2,798	2,798
240 MANAGEMENT HEADQUARTERS (JCS).....	8,303	8,303	8,303	8,303
241 NATO AGS.....	74,485	74,485	66,485	69,485

(In thousands of dollars)

	Budget	House	Senate	Recommendation
242 MQ-9 UAV.....	4,380	4,380	4,380	4,380
245 SPECIAL OPERATIONS TECHNOLOGY DEVELOPMENT.....	82,621	74,121	67,592	72,612
246 SPECIAL OPERATIONS TACTICAL SYSTEMS DEVELOPMENT.....	6,182	2,594	7,494	6,874
247 SPECIAL OPERATIONS INTELLIGENCE SYSTEMS DEVELOPMENT....	21,273	21,780	36,173	41,393
248 SOF OPERATIONAL ENHANCEMENTS.....	60,310	64,310	60,310	63,310
249 SPECIAL OPERATIONS CV-22 DEVELOPMENT.....	12,687	12,687	12,687	12,687
250 JOINT MULTI-MISSION SUBMERSIBLE.....	43,412	23,412	43,412	33,412
252 OPS ADVANCED SEAL DELIVERY SYSTEM (ASDS) DEVELOPMENT..	1,321	3,500	1,600	3,500
253 MISSION TRAINING AND PREPARATION SYSTEMS (MTPS).....	3,192	3,192	3,192	3,192
254 UNMANNED VEHICLES (UV).....	---	1,000	---	1,000
255 MC130J SOF TANKER RECAPITALIZATION.....	5,957	5,957	5,957	5,957
256 SOF COMMUNICATIONS EQUIPMENT AND ELECTRONICS SYSTEMS..	733	733	733	733
257 SOF TACTICAL RADIO SYSTEMS.....	2,368	2,368	2,368	2,368
258 SOF WEAPONS SYSTEMS.....	1,081	1,081	1,081	1,081
259 SOF SOLDIER PROTECTION AND SURVIVAL SYSTEMS.....	597	597	597	597
260 SOF VISUAL AUGMENTATION, LASERS & SENSOR SYSTEMS.....	3,369	6,869	6,369	8,569
261 SOF TACTICAL VEHICLES.....	1,973	1,973	1,973	1,973
262 SOF ROTARY WING AVIATION.....	18,863	18,863	18,863	18,863
263 SOF UNDERWATER SYSTEMS.....	3,452	13,000	12,452	18,852
264 SOF SURFACE CRAFT.....	12,250	10,000	12,250	10,000
265 SOF PSYOP.....	9,887	9,887	9,887	9,887
266 SOF GLOBAL VIDEO SURVEILLANCE ACTIVITIES.....	4,944	4,944	4,944	4,944
267 SOF OPERATIONAL ENHANCEMENTS INTELLIGENCE.....	11,547	11,547	11,547	11,547
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	1,186,231	1,202,127	1,239,693	1,266,363
999 CLASSIFIED PROGRAMS.....	4,273,689	4,050,489	4,355,489	4,264,429
DARPA UNDISTRIBUTED REDUCTION.....	---	-200,000	---	---
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, DEF-WIDE.	20,741,542	20,721,723	20,408,968	20,747,081

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

R-1	Budget Request	House	Senate	Recommendation
<b>DTRA UNIVERSITY STRATEGIC PARTNERSHIP BASIC</b>				
<b>1 RESEARCH</b>	<b>48,544</b>	<b>48,544</b>	<b>33,544</b>	<b>41,044</b>
Excessive growth ahead of program assessment			-15,000	-7,500
<b>2 DEFENSE RESEARCH SCIENCES</b>	<b>226,125</b>	<b>242,825</b>	<b>194,218</b>	<b>206,778</b>
Laboratory for Advanced Photonic Composites Research		1,800		1,280
Hydrogen Fuel Cell Research		4,000		4,000
Institute for Collaborative Sciences Research		2,800		2,080
Science, Technology, Engineering and Mathematics Initiative		2,000		1,800
Solid Oxide Fuel Technology		1,000		1,000
American Museum of Natural History Infectious Disease Research		1,500		1,200
Countermeasures to Combat Protozoan Parasites (Toxoplasmosis and Malaria)		2,000		1,600
UAV Systems and Operations Validation Program (Transferred to line number 129)		2,000		0
Fiscal year 2009 new start execution delays			-16,750	-16,750
Reduction to requested fiscal year 2010 new starts			-20,057	-20,057
Advanced Materials Research Institute (AMRI)			1,000	800
Security Protection using Ballistic CORE Technology			3,900	3,900
<b>GOVERNMENT/INDUSTRY COSPONSORSHIP OF</b>				
<b>3 UNIVERSITY RESEARCH</b>	<b>0</b>	<b>5,000</b>	<b>0</b>	<b>4,800</b>
High Efficiency Solar Energy Generation and Storage		1,000		800
Integrated Cryo-cooled High Power Density Systems		4,000		3,200
Center for Research on Minority Health Prostate Cancer Outreach Project		1,000		800
<b>5 NATIONAL DEFENSE EDUCATION PROGRAM</b>	<b>89,980</b>	<b>89,980</b>	<b>69,980</b>	<b>79,980</b>
Premature funding increase			-20,000	-10,000
<b>6 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM</b>	<b>58,974</b>	<b>79,474</b>	<b>67,874</b>	<b>79,094</b>
Joint Services Aircrew Mask Don/Doff Inflight (Transferred to line number 111)		1,500		0
Advanced Development of Antiviral Prophylactics and Therapeutics		3,000		3,000
Countermeasures to Chemical and Biological Controls-Rapid Response		3,500		2,800
MEMS Sensors for Real-Time Sensing of Weaponized Pathogens		2,500		2,000
Mismatch Repair Driven Antibody Medicines to Treat Staphylococcus-derived Bioweapons		1,000		1,000
Portable Rapid Bacterial Warfare Detection Unit		4,000	5,000	4,000
Potent Human Monoclonal Antibodies Against BoNT A, B and E Suided for Mass Production and Treatment of Large Populations		1,000		1,000
Synchrotron Beamline Experimental Station		4,000		3,200
High Speed, High Volume Laboratory Network for Infectious Disease			2,000	1,600
InVitro Models for Biodefense Vaccines			1,900	1,520

R-1		Budget Request	House	Senate	Recommendation
	<b>INSENSITIVE MUNITIONS--EXPLORATORY</b>				
7	<b>DEVELOPMENT</b>	22,669	18,961	15,112	18,961
	Partial Program growth reduction		-3,708		-3,708
	P-204 - new start			-7,557	0
	<b>HISTORICALLY BLACK COLLEGES &amp; UNIVERSITIES</b>				
9	<b>(HBCU) SCIENCE</b>	15,164	65,521	18,464	67,098
	Reappropriation of fiscal year 2008 account level		34,457		34,457
	Program Increase		9,400		9,400
	Active Duty Training and Education Program		2,000		2,000
	Morehouse College, John H. Hopps Defense Research Scholars Program		3,000		2,400
	Thurgood Marshall College Fund Defense Leadership and Technology Initiative		1,500		1,200
	Instrumentation Program for Tribal Colleges			3,300	2,475
11	<b>INFORMATION AND COMMUNICATIONS TECHNOLOGY</b>	282,749	285,749	255,931	273,331
	High Speed Optical Interconnects for Next Generation Supercomputing		1,500		1,200
	Intelligent Remote Sensing for Urban Warfare Operations II		1,500		1,200
	Fiscal year 2009 new start execution delays			-8,198	-8,198
	Reduction to requested fiscal year 2010 new starts			-18,622	-18,622
	Fiscal year 2010 new starts				15,000
12	<b>COGNITIVE COMPUTING SYSTEMS</b>	142,840	144,840	142,840	144,840
	BioButanol Production Research		2,000		2,000
14	<b>CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM</b>	209,072	226,672	215,972	225,772
	Self-decontaminating Polymer System for Chemical and Biological Warfare Agents (Transferred to line number 111)		3,500		0
	Botulinum Neurotoxin Research		2,500		2,000
	Botulinum Toxin Treatment Therapy		1,000		800
	Chemical and Biological Agent Fate Appropriate Response Operational Tool		2,000		1,600
	Chemical and Biological Resistant Clothing		2,000		1,600
	Anti-viral vaccine development		4,500	1,000	3,600
	Miniaturized Chemical Detector for Chemical Warfare Protection		2,000		1,600
	Chemical and Biological Infrared Detection System			1,900	1,900
	Contaminated Human Remains Pouch			2,000	1,600
	PaintShield for Protecting People from Microbial Threats			2,000	2,000
	<b>JOINT DATA MANAGEMENT ADVANCED</b>				
15	<b>DEVELOPMENT</b>	4,940	4,940	0	0
	Redundancy with other DoD programs			-4,940	-4,940
	<b>HUMAN, SOCIAL AND CULTURE BEHAVIOR</b>				
16	<b>MODELING (HSCB) APP</b>	9,448	9,448	7,948	7,948
	Unexecutable growth			-1,500	-1,500

R-1		Budget Request	House	Senate	Recommendation
17	<b>TACTICAL TECHNOLOGY</b>	276,075	278,075	241,125	249,725
	Sea Catcher UAS Launch and Recovery System		2,000		1,600
	Fiscal year 2009 new start execution delays			-31,950	-31,950
	Reduction to requested fiscal year 2010 new starts			-24,000	-24,000
	Fiscal year 2010 new starts			12,000	20,000
	Center of Excellence for Research in Ocean Sciences (CEROS)			9,000	8,000
18	<b>MATERIALS AND BIOLOGICAL TECHNOLOGY</b>	268,859	268,959	272,359	271,339
	Moldable Fabric Armor (Transferred to RDT&E, Army line number 5)		2,800		0
	Photovoltaic Ribbon Solar Cell Technology Project		3,600		2,880
	Center for Nonproliferation Studies, Monterey Institute for International Affairs		2,000		1,600
	Bioinspired Sensors - excessive program growth		-5,000		-5,000
	Biological Interfaces - excessive program growth		-3,300		0
	Fiscal year 2009 new start execution delays			-2,000	-2,000
	Strategic Materials			5,500	5,000
19	<b>ELECTRONICS TECHNOLOGY</b>	223,841	225,841	170,154	180,154
	3-D Technology for Advanced Sensor Systems		2,000		2,000
	Fiscal year 2009 new start execution delays			-39,500	-39,500
	Reduction to requested fiscal year 2010 new starts			-26,187	-26,187
	Fiscal year 2010 new starts			12,000	20,000
	<b>WEAPONS OF MASS DESTRUCTION DEFEAT TECHNOLOGIES</b>	219,130	220,630	221,530	222,250
	National Center for Blast Mitigation		1,500		1,200
	University Strategic Partnership			2,400	1,920
21	<b>SPECIAL OPERATIONS TECHNOLOGY DEVELOPMENT</b>	27,384	33,884	24,884	30,734
	Flashlight Soldier-to-Soldier Combat Identification System		4,500	2,000	4,500
	United States Special Operations Command - USSOCOM / STAR-TEC Partnership Program		2,000		1,600
	REITS unjustified new starts			-4,500	-2,750
22	<b>SOF MEDICAL TECHNOLOGY DEVELOPMENT</b>	0	3,000	0	2,400
	Personalized Medicine Initiative		3,000		2,400
	<b>JOINT MUNITIONS ADVANCED TECHNOLOGY, INSENSITIVE MUNITIONS - ADVANCED</b>	23,538	16,754	10,428	13,644
	Partial Program growth reduction		-6,784	-10,000	-6,784
	P301 new start			-3,110	-3,110
25	<b>COMBATING TERRORISM TECHNOLOGY SUPPORT</b>	81,868	102,368	106,268	118,108
	Affordable Robust Mid-Sized Unmanned Ground Vehicle		2,000		1,600
	Comprehensive and Integrated Procedures for Risk Assessment and Resource Allocation		2,500		2,000
	Facility Security Using Tactical Surveys		4,500		3,600
	Integrated Rugged Checkpoint Container		2,500	1,600	2,000
	Low Cost Stabilized Turret		1,000		800
	Military/Law Enforcement Counterterrorism Test Bed		3,000		2,400
	Radio Inter-Operability System		2,000		1,600
	Ultra Low Profile EARS Gunshot Localization System		1,500		1,200
	Remote VBIED Detection and Defeat System		1,500		1,200



R-1	Budget Request	House	Senate	Recommendation	
			2,000	1,600	
			5,000	0	
			3,000	2,400	
			1,000	800	
<b>34</b>	<b>JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS</b>	<b>198,352</b>	<b>202,352</b>	<b>143,487</b>	<b>169,952</b>
	Distributed Network Switching and Security		2,000		1,600
	High Accuracy Network Determination System - Intelligent Optical Networks (Transferred to RDT&E, Air Force line number 73)		2,000		0
	Fiscal year 2010 JCTD New Starts		-54,885		-30,000
	<b>HUMAN, SOCIAL AND CULTURE BEHAVIOR</b>				
<b>38</b>	<b>MODELING (HSCB) ADVANCED DEVELOPMENT</b>	<b>11,480</b>	<b>11,480</b>	<b>9,980</b>	<b>10,480</b>
	Unexecutable growth		-1,500		-1,000
	<b>DEFENSE-WIDE MANUFACTURING SCIENCE AND TECHNOLOGY PROGRAM</b>				
<b>39</b>	<b>TECHNOLOGY PROGRAM</b>	<b>14,638</b>	<b>16,638</b>	<b>24,638</b>	<b>23,738</b>
	California Enhanced Defense Small Manufacturing Suppliers Program		2,000		1,600
	High Performance Manufacturing Technology Initiative		10,000		7,500
	<b>JOINT ROBOTICS PROGRAM/AUTONOMOUS SYSTEMS</b>				
<b>40</b>	<b>SYSTEMS</b>	<b>9,110</b>	<b>11,610</b>	<b>9,110</b>	<b>11,110</b>
	Autonomous Control and Video Sensing for Robots		1,000		800
	Battle-Proven Packbot		1,500		1,200
	<b>GENERIC LOGISTICS R&amp;D TECHNOLOGY DEMONSTRATIONS</b>				
<b>41</b>	<b>DEMONSTRATIONS</b>	<b>19,043</b>	<b>34,043</b>	<b>42,643</b>	<b>52,123</b>
	Aging Systems Sustainment and Enabling Technologies		3,000		2,400
	Progressive Research for Sustainable Manufacturing		1,500		1,200
	Reduced Cost Supply Readiness		1,500		1,200
	Alternative Energy from Organic Sources		6,000		6,000
	Cellulosic-Derived Biofuels Research		3,000		2,400
	Biofuels Program		2,000		1,600
	Commodity Management Systems Consolidation Program		2,000		1,600
	Continuous Acquisition and Life-Cycle Support (CALS)				
	Integrated Data Environment and Defense Logistics Enterprise Services Program (DLES)		4,000		3,200
	Fuel Cell Hybrid Battery Manufacturing for Defense Operations		1,000		800
	Fuelcell Locomotive		3,000		2,400
	Next Generation Manufacturing Technologies Initiative		2,000		1,600
	Vehicle Fuel Cell and Hydrogen Logistics Program		8,000		6,400
	Woody Biomass Conversion to JP-8 Fuel		1,600		1,280
	Radio Frequency Identification Technologies (Transferred from line number 63 and RDT&E, Navy line number 61)				1,000
<b>43</b>	<b>STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM</b>	<b>69,175</b>	<b>69,175</b>	<b>67,675</b>	<b>67,675</b>
	Execution adjustment		-1,500		-1,500

R-1		Budget Request	House	Senate	Recommendation
	<b>MICROELECTRONIC TECHNOLOGY DEVELOPMENT</b>				
44	<b>AND SUPPORT</b>	26,310	51,810	55,210	70,830
	3-D Electronics and Power		6,000		4,800
	AESA Technology Insertion Program		3,000		2,400
	Carbon Nanotube Thin Film Near Infrared Detector		2,000		1,600
	End to End Semi Fab Alpha Tool		2,000		1,600
	Feature Size Yield Enhancement Advanced Reconfigurable Manufacturing for Semiconductors Foundry		3,000		2,400
	Heterogeneous Gallium Nitride/Silicon Microcircuit Technology		2,000		1,600
	Spintronics Memory Storage Technology		3,500		2,800
	Superconducting Quantum Information Technology		1,000		800
	X-Band/W-Band Solid State Power Amplifier		1,000		1,000
	Semiconductor Photomask Technology Infrastructure Initiative		2,000		1,600
	Electronics and Materials for Flexible Sensors and Transponders (EMFST)			6,000	4,800
	High Performance Tunable Materials - Combinatorial Development of Advanced Dielectrics			4,500	3,600
	Shipping Container Security System Field Evaluation			4,500	3,600
	Smart Bomb Targeting Radar System			2,900	2,320
	Tunable MicroRadio for Military Systems			7,000	5,600
	Vehicle and Dismount Exploitation Radar (VADER)			4,000	4,000
46	<b>ADVANCED ELECTRONICS TECHNOLOGIES</b>	205,912	207,912	179,907	194,907
	Hybrid Power Generating System		2,000		0
	Fiscal year 2009 new start execution delays			-11,000	-11,000
	Reduction to requested fiscal year 2010 new starts			-22,005	-22,005
	Institute of Advanced Flexible Manufacturing Systems			7,000	7,000
	Fiscal year 2010 new starts				15,000
	<b>HIGH PERFORMANCE COMPUTING MODERNIZATION</b>				
49	<b>PROGRAM</b>	221,286	221,286	245,186	237,406
	Program adjustment			20,000	13,000
	High Performance Computational Design of Novel Materials			3,900	3,120
	<b>COMMAND, CONTROL AND COMMUNICATIONS</b>				
50	<b>SYSTEMS</b>	293,476	293,476	270,326	270,326
	Fiscal year 2009 new start execution delays			-2,000	-2,000
	CCC-CLS execution delays			-18,150	-18,150
	Reduction to requested fiscal year 2010 new starts			-3,000	-3,000
52	<b>CLASSIFIED DARPA PROGRAMS</b>	186,526	186,526	178,326	178,326
	Program terminated by DARPA			-8,200	-8,200
53	<b>NETWORK-CENTRIC WARFARE TECHNOLOGY</b>	135,941	135,941	135,941	138,941
	Fiscal year 2009 new start execution delays			-9,500	-9,500
	Reduction to requested fiscal year 2010 new starts			-2,500	-2,500
	Fiscal year 2010 new starts			12,000	15,000
54	<b>SENSOR TECHNOLOGY</b>	243,056	243,056	223,800	223,800
	Fiscal year 2009 new start execution delays			-4,256	-4,256
	SEN-CLS execution delays			-10,000	-10,000
	Reduction to requested fiscal year 2010 new starts			-5,000	-5,000

R-1		Budget Request	House	Senate	Recommendation
59	<b>QUICK REACTION SPECIAL PROJECTS</b>	107,984	92,984	69,484	74,184
	Reduction from Technology Transition Initiative		-15,000		-10,000
	QRF fiscal year 2010 new starts			-15,000	-10,000
	RRF fiscal year 2010 new starts			-25,000	-15,000
	Small Craft Threat Identification Program			1,500	1,200
60	<b>JOINT EXPERIMENTATION</b>	124,480	107,380	109,480	106,800
	Reduction for National Center for Small Unit Excellence		-20,000	-5,000	-10,000
	Tidewater Full Scale Exercise		2,900		2,320
	Unexecutable program growth			-10,000	-10,000
	<b>JOINT WARGAMING SIMULATION MANAGEMENT</b>				
61	<b>OFFICE</b>	38,505	38,505	34,505	34,505
	Unexecutable growth			-4,000	-4,000
63	<b>TECHNOLOGY TRANSFER</b>	2,219	12,219	8,319	13,669
	National Radio Frequency Research, Development and Technology Transfer		5,000	1,400	4,000
	Radio Frequency Identification Technologies (Transferred to line number 41)		1,000		0
	FirstLink Technology Transfer Program		3,000		2,400
	Program Increase		1,000		750
	Center for Innovation at Arlington			2,700	2,700
	MiTech Expansion Program			2,000	1,600
	<b>SPECIAL OPERATIONS ADVANCED TECHNOLOGY</b>				
65	<b>DEVELOPMENT</b>	31,675	57,175	36,975	56,985
	Affordable Miniature FOPEN Radar for Special Operations Craft - Riverine		3,500		2,800
	Optical Surveillance Equipment		2,000		2,000
	Field Experiment Program for Special Operations		2,000		1,600
	CBRN Detection Unmanned Aircraft		2,000		1,600
	Intelligence, Surveillance, and Reconnaissance Global Sensors Architecture		2,000		1,600
	Partnership for Defense Innovation Wi-Fi Laboratory Testing and Assessment Center		1,500	3,500	2,800
	Program Increase Helicopter Situational Awareness and Survivability		12,500		10,000
	REITS unjustified new starts			-4,500	-2,750
	Advanced Distributed Aperture System (ADAS)/Hostile Fire Indicating System (HFIS)			1,300	1,040
	Antennas and other CNT Devices for Intelligence/Special Military			3,000	3,000
	Tiger Moth Air-Launched Off Board Sensing Small Unmanned Aerial System			2,000	1,600
	<b>NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY</b>				
68	<b>EQUIPMENT</b>	36,019	39,019	46,219	46,179
	Under-Vehicle Inspection System		3,000	1,500	2,400
	Advance Detection of Special Nuclear Materials			2,000	2,000
	Pacific Data Conversion and Technology Program			2,000	2,000
	Wyoming Army National Guard Joint Training and Experimentation Center (JTEC)			4,700	3,760
70	<b>RETRACT LARCH</b>	21,718	21,718	37,218	21,718
	Program adjustment (Transferred to RDT&E, Navy line number 37)			15,500	0

R-1		Budget Request	House	Senate	Recommendation
71	<b>JOINT ROBOTICS PROGRAM</b>	11,803	15,803	11,803	15,403
	Autonomous Machine Vision for Mapping and Investigation of Remote Sites		2,000		1,600
	Joint Robotics Training Program		2,000		2,000
	<b>ENVIRONMENTAL SECURITY TECHNICAL</b>				
73	<b>CERTIFICATION PROGRAM</b>	31,613	36,613	37,013	41,113
	Environmentally Friendly Nanometal Electroplating Processes for Cadmium and Chromium Replacement		3,000		3,000
	Wellhead Treatment of Perchlorate Contaminated Wells		2,000		1,600
	Alternative Energy Study			1,400	1,400
	Inland Empire Perchlorate Remediation			4,000	3,500
	<b>BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE</b>				
75	<b>SEGMENT</b>	982,922	982,922	1,032,922	1,032,922
	GBI vendor base sustainment			50,000	50,000
	<b>BALLISTIC MISSILE DEFENSE BOOST DEFENSE</b>				
76	<b>SEGMENT</b>	186,697	186,697	186,697	183,297
	Support for FTS-01				-3,400
	<b>CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM</b>	205,952	210,952	205,952	210,152
	Automated Sample Preparation for Biological Detection		1,000		800
	Broad Spectrum Therapeutic Countermeasures to OP Nerve Agents		2,000		1,600
	Tactical, Cargo, and Rotary Wing Aircraft Decon		2,000		1,800
	<b>BALLISTIC MISSILE DEFENSE SENSORS</b>	636,856	636,856	626,856	624,156
	Replacement Patriot Launcher Pad for Japan - MDA requested adjustment			[2,500]	[2,500]
	System Engineering and Unifying Missile Defense Functions-reduce program growth to support near-term missile defense programs			-10,000	-10,000
	Support for FTS-01				-2,700
	<b>BALLISTIC MISSILE DEFENSE SYSTEM INTERCEPTOR</b>	0	80,000	0	0
	Program Increase - Early Interceptor Program (Transferred to line number 27)		80,000		0
	<b>BALLISTIC MISSILE DEFENSE TEST &amp; TARGETS</b>	966,752	940,752	778,652	827,752
	Target Synchronization with Test Schedule		-26,000		0
	Premature Request			-151,100	-135,800
	STSS Targets - FTS-01			-37,000	-3,200
	<b>BALLISTIC MISSILE DEFENSE SYSTEMS CORE</b>	369,145	358,645	358,145	360,645
	General Reduction		-25,000	-15,000	-20,000
	Next Generation Sensor Producability-Flight 2		10,000		7,500
	Advanced Decision Support System		2,500		2,000
	Miniature Divert and Altitude Controls System Thruster		2,000		1,800
	Advanced Composite Radome			4,000	3,200
	Support for FTS-01				-2,800
82	<b>SPECIAL PROGRAMS - MDA</b>	301,566	286,566	251,566	251,566
	Program decrease due to excessive growth		-15,000	-50,000	-50,000

R-1		Budget Request	House	Senate	Recommendation
83	<b>AEGIS BMD</b>	1,690,758	1,670,758	1,468,358	1,443,358
	New Operational Configuration for six additional Aegis Cruisers and New Missile Type for Block 5.2 not determined		-50,000		-30,000
	Ballistic Signal Processor/Open Architecture Transfer to line 83A		30,000		20,000
	SM-3 Development			-257,400	-257,400
				35,000	20,000
83A	<b>AEGIS BMD SM-3 Block IIA co-development</b>	0	0	257,400	257,400
	Transferred from line 83	0	0	257,400	257,400
84	<b>SPACE SURVEILLANCE &amp; TRACKING SYSTEM</b>	180,000	160,000	173,200	162,500
	Demonstration Satellites		-20,000		-10,000
	Support for FTS-01			-6,800	-7,500
87	<b>BALLISTIC MISSILE DEFENSE C2BMC</b>	340,014	340,014	340,014	336,514
	Support for FTS-01				-3,500
	<b>BALLISTIC MISSILE DEFENSE JOINT WARFIGHTER</b>				
89	<b>SUPPORT</b>	60,921	61,421	60,921	61,421
	Independent Advisory Group to Review Ballistic Missile Defense Training Needs		500		500
92	<b>SEA BASED X-BAND RADAR (SBX)</b>	174,576	161,576	174,576	168,076
	General Reduction		-13,000		-6,500
97	<b>ISRAELI COOPERATIVE PROGRAMS</b>	119,634	202,434	202,434	202,434
	Arrow 3		12,500	12,500	12,500
	Arrow 2 Development		26,000	26,000	26,000
	Arrow 2 Co-Production		10,000	10,000	10,000
	David's Sling		34,300	34,300	34,300
100	<b>DEPARTMENT OF DEFENSE CORROSION PROGRAM</b>	4,887	6,387	21,487	22,287
	Corrosion Training Simulation Program		1,500		1,200
	Center for Education and Research on Corrosion and Materials Performance			2,000	1,600
	Department of Defense Corrosion Prevention and Control Program			14,600	14,600
	<b>DOD UNMANNED AIRCRAFT SYSTEM (UAS) COMMON</b>				
101	<b>DEVELOPMENT</b>	55,289	65,289	55,289	61,289
	Small Business Technology Insertion		10,000		6,000
102	<b>JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS</b>	18,577	3,577	18,577	11,077
	Reduction due to obligation and expenditure		-15,000		-7,500
	<b>JOINT ELECTROMAGNETIC TECHNOLOGY (JET)</b>				
107	<b>PROGRAM</b>	3,949	6,949	3,949	6,349
	Lifetime Power for Wireless Control Sensors		1,000		800
	Secure, Miniaturized, Hybrid, Free Space, Optical Communications		2,000		1,600
111	<b>CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM</b>	332,895	339,895	296,595	301,575
	Chemical and Biological Threat Reduction Coating		3,000		2,400
	Detection and Remediation of Bio/Chemical Weapons Program		2,000		2,000
	Protective Self-Decontaminating Surfaces		2,000		1,600
	Lack of justification for core program growth			-47,400	-47,400



R-1	Budget Request	House	Senate	Recommendation
<b>CENTRAL TEST AND EVALUATION INVESTMENT</b>				
<b>129 DEVELOPMENT</b>	<b>145,052</b>	<b>152,552</b>	<b>157,452</b>	<b>162,272</b>
Gulf Range Mobile Instrumentation Capability		3,000		2,400
Savannah CRTC Training Enabled Maneuver Instrumentation (STEM)		4,500		3,600
Advanced SAM Hardware Simulator Development			4,000	4,000
Border Security and Defense Systems Research			2,000	1,600
Pacific Region Interoperability Test and Evaluation Capability			3,500	3,300
UAV Systems and Operations Validation Program (Includes transfer from line number 2)			2,900	2,320
<b>130 THERMAL VICAR</b>	<b>9,045</b>	<b>12,045</b>	<b>9,045</b>	<b>11,445</b>
Joint Gulf Range Complex Test and Training		3,000		2,400
<b>136 CLASSIFIED PROGRAM USD(P)</b>	<b>0</b>	<b>95,637</b>	<b>95,637</b>	<b>95,637</b>
Classified Program USD(P)		95,637	95,637	95,637
<b>SMALL BUSINESS INNOVATION</b>				
<b>147 RESEARCH/CHALLENGE ADMINISTRATION</b>	<b>2,163</b>	<b>3,163</b>	<b>4,063</b>	<b>4,683</b>
UAV Directed Energy Weapons Systems Payloads		1,000		1,000
Random Obfuscating Compiler Anti-Tamper Software			1,800	1,520
<b>148 DEFENSE TECHNOLOGY ANALYSIS</b>	<b>11,005</b>	<b>11,805</b>	<b>11,005</b>	<b>11,805</b>
Modeling and Simulation Standards Study		800		800
<b>150 FORCE TRANSFORMATION DIRECTORATE</b>	<b>19,981</b>	<b>24,981</b>	<b>19,981</b>	<b>23,981</b>
Rigid Aeroshell Variable Buoyancy Air Vehicle		5,000		4,000
<b>151 DEFENSE TECHNICAL INFORMATION CENTER (DTIC)</b>	<b>54,411</b>	<b>49,411</b>	<b>54,411</b>	<b>49,411</b>
General Reduction		-5,000		-5,000
<b>164 DARPA AGENCY RELOCATION</b>	<b>45,000</b>	<b>45,000</b>	<b>15,000</b>	<b>45,000</b>
Delay to project initiation			-30,000	0
<b>SUPPORT TO INFORMATION OPERATIONS (IO)</b>				
<b>161 CAPABILITIES</b>	<b>30,604</b>	<b>25,904</b>	<b>36,504</b>	<b>30,624</b>
Excess Funding		-4,700		-4,700
Enhanced Simulation for Information Operations Capabilities			5,900	4,720
<b>INTELLIGENCE SUPPORT TO INFORMATION</b>				
<b>164 OPERATIONS (IO)</b>	<b>20,648</b>	<b>22,648</b>	<b>20,648</b>	<b>20,648</b>
Biological and Chemical Warfare Online Repository of Technical Holdings (Transferred to line number 999)		2,000		0
<b>167 COCOM EXERCISE ENGAGEMENT AND TRAINING</b>	<b>34,306</b>	<b>34,306</b>	<b>41,806</b>	<b>40,706</b>
Agile Software Capability Intervention (ASCI)			1,500	1,200
Integrated Analysis Environment (Includes transfer from line number 126)			2,000	2,000
Playas Training and Research Center			4,000	3,200
<b>168 PENTAGON RESERVATION</b>	<b>19,709</b>	<b>0</b>	<b>19,709</b>	<b>19,709</b>
Duplicative Maintenance and Facilities Support Costs for FOB 2		-19,709	0	0
<b>169 MANAGEMENT HEADQUARTERS - MDA</b>	<b>57,403</b>	<b>52,403</b>	<b>57,403</b>	<b>52,403</b>
General Reduction		-5,000		-5,000

R-1		Budget Request	House	Senate	Recommendation
193	INFORMATION SYSTEMS SECURITY PROGRAM IASTAR Federal Information Security Management Act Compliance	13,477	13,477	15,477	15,077
				2,000	1,600
198	GLOBAL COMMAND AND CONTROL SYSTEM Transfer from line number 124 for program enhancements	23,761	23,761	34,761	34,761
				11,000	11,000
203	SPECIAL APPLICATIONS FOR CONTINGENCIES Advanced Technologies Sensors and Payloads/Unattended SIGINT Node Comprehensive Maritime Domain Awareness GMTI Radar for Class II UAVs UAV/UAS Test Facility	16,381	30,381	16,381	27,581
			6,000		4,800
			4,000		3,200
			1,000		800
			3,000		2,400
209	CRITICAL INFRASTRUCTURE PROTECTION (CIP) Disaster Response: Communications and Other Infrastructure Restoration	12,725	12,725	17,725	16,725
				5,000	4,000
221	DISTRIBUTED COMMON GROUND/SURFACE Program Increase - DCGS Capabilities Modernization	1,407	9,407	1,407	7,407
			8,000		6,000
238	INDUSTRIAL PREPAREDNESS Copper-base Casting Technology Applications Corrosion Resistant Ultrahigh-Strength Steel for Landing Gear DLA VetBiz Initiative for National Sustainment Northwest Manufacturing Initiative Industrial Base Innovation Fund	20,514	28,014	50,514	46,514
			2,000		1,600
			2,000		1,600
			1,000		800
			2,500		2,000
				30,000	20,000
241	NATO AGS Excess to requirement	74,485	74,485	66,485	69,485
				-8,000	-5,000
245	SPECIAL OPERATIONS TECHNOLOGY DEVELOPMENT Avionics Modernization Program Helicopter Cable Warning and Obstacle Avoidance EC-130J Multi-Mission Upgrades	82,621	74,121	67,592	72,612
			-10,000	-20,029	-15,209
			1,500		1,200
				5,000	4,000
	SPECIAL OPERATIONS TACTICAL SYSTEMS				
246	DEVELOPMENT SOF Resource Business Information System Cover Waveform for Software Defined Radios SOC-R Armor Development for Small Arms Armor Piercing Ammo	6,182	2,594	7,494	6,874
			-4,588	-4,588	-4,588
			1,000	2,800	2,900
				3,100	2,480
	SPECIAL OPERATIONS INTELLIGENCE SYSTEMS				
247	DEVELOPMENT Counterproliferation Analysis and Planning System Program Review Advanced, Long Endurance Unattended Ground Sensor Technologies Biometric Optical Surveillance System Counterproliferation Analysis and Planning System United States Special Operations Command SOCRATES High Assurance Platform Program University Multi-Spectral Laboratories Picoceptor and Processor for Man-portable Threat Warning	21,273	21,780	36,173	41,393
			-14,993		0
			2,000	4,900	3,920
			5,000	6,000	6,000
			5,000		4,000
			1,000		1,000
			2,500		2,000
				4,000	3,200

R-1		Budget Request	House	Senate	Recommendation
248	SOF OPERATIONAL ENHANCEMENTS	60,310	64,310	60,310	63,310
	USSOCOM Medical Research		4,000		3,000
250	JOINT MULTI-MISSION SUBMERSIBLE	43,412	23,412	43,412	33,412
	Fiscal year 2009 new start execution delays		-20,000		-10,000
	OPS ADVANCED SEAL DELIVERY SYSTEM (ASDS)				
252	DEVELOPMENT	1,321	3,500	1,600	3,500
	ASDS Program Termination		-1,321	-1,321	-1,321
	Lithium-ion Battery Safety Detection and Control of Impending Failures		1,500	1,600	1,500
	Material, Design and Fabrication Solutions for Advanced SEAL Delivery System External Structural Components		2,000		2,000
254	UNMANNED VEHICLES (UV)	0	1,000	0	1,000
	Hand-held, Lethal Small Unmanned Aircraft System		1,000		1,000
	SOF VISUAL AUGMENTATION, LASERS & SENSOR				
260	SYSTEMS	3,369	6,869	6,369	8,569
	Miniature Day Night Sight for Crew Served Weapons		1,500		1,200
	Thermal Pointer/Illuminator for Force Protection		2,000		1,600
	ASIC Miniaturization for Lasers and Sensors Development			3,000	2,400
263	SOF UNDERWATER SYSTEMS	3,452	13,000	12,452	18,852
	Fiscal year 2009 new start execution delays		-1,452		0
	Alternative SOF Submersible Concept Design Study		1,000	1,000	1,000
	Non-Gasoline Burning Outboard Engine		1,900		1,520
	Technology for Shallow Water Special Operation Forces Mobility		3,600		2,880
	Transformer Technology for Combat Submersibles		4,500		3,600
	Future Dry Deck Shelter			5,500	4,400
	Undersea Special Warfare Engineering Support Office			2,500	2,000
264	SOF SURFACE CRAFT	12,250	10,000	12,250	10,000
	Fiscal year 2009 new start execution delays		-2,250		-2,250
999	CLASSIFIED PROGRAMS	4,273,689	4,050,489	4,355,489	4,264,429
	Classified Adjustments		-251,500	52,900	-57,100
	Laser Ablation Resonance Ionization Mass Spectrometer		3,000		2,400
	Portable Device for Latent Fingerprint Identification		1,800		1,440
	Advanced Scientific Missile Intelligence Preparation of the Battlespace		2,500		2,000
	Security for Critical Communication Networks		7,000		5,600
	Cybersecurity and Operational Identity Management		2,000		1,600
	Improving Support to the Warfighter		7,000		7,000
	MS GIS Educational and Research Program (Transferred to O&M Def-wide)		1,000		0
	Enhancement of Geo-location Systems		4,000		3,200
	Armed Forces Health and Food Supply Research			5,000	4,000
	Center for Intelligence and Security Studies			2,400	2,400
	Hawaii Advanced Laboratory for Information Integration			2,500	2,000
	Initiative to Advance Adaptive Petascale Supercomputing			10,000	8,000
	Intelligent Explosives Detection			4,000	3,200
	Technology Applications for Security Enhancement			3,000	3,000
	Biological and Chemical Warfare Online Repository of Technical Holdings (Includes transfer from line number 164)			2,000	2,000

<u>R-1</u>	<u>Budget Request</u>	<u>House</u>	<u>Senate</u>	<u>Recommendation</u>
DARPA Undistributed Reduction		-200,000	0	0

## DARPA NEW START PROGRAMS

The Defense Advanced Research Projects Agency's (DARPA's) fiscal year 2010 budget request includes \$135,170,000 for new start programs, a significant increase over the \$28,000,000 executed for new starts in fiscal year 2009 and the \$16,000,000 executed for new starts in fiscal year 2008. The recently appointed Director of DARPA did not have an opportunity to adjust DARPA's fiscal year 2010 budget submission to reflect the new administration's priorities. Additionally, management changes instituted to address DARPA's historic budget execution challenges are likely to require some time before taking effect.

Therefore, the recommendation denies all funding for the requested new start programs. Instead, following the receipt of additional information from the new DARPA Director, the recommendation provides \$85,000,000 in multiple program elements, as requested by the Director, for fiscal year 2010 new starts to be selected by the Director in fiscal year 2010. None of these funds may be obligated until the Director provides details to the congressional defense committees on the programs to be initiated, to include descriptions, program objectives, the expected duration of the DARPA effort and associated out-year funding requirements and planned technology readiness levels to be achieved by DARPA and Service transition partners. This is an exception to conventional budgeting procedures and the Director of DARPA is directed to use established budgeting procedures for its fiscal year 2011 budget submission.

RAPID EXPLOITATION OF INNOVATIVE TECHNOLOGIES IN ALL AREAS  
OF SCIENCE AND TECHNOLOGY

The recommendation provides \$4,500,000 for fiscal year 2010 new starts in Rapid Exploitation of Innovative Technologies (REITS) and directs the Commander, Special Operations Command, to provide quarterly reports to the congressional defense committees on the use of any current fiscal year or prior year funds provided for REITS, to include individual project schedules, cost estimates and transition plans. The Commander, Special Operations Command, is further directed to submit an annual report to the congressional defense committees on the actual cost, schedule to complete and transition to operational use or further development for all projects for which REITS funds were executed.

## GROUND-BASED MISSILE DEFENSE

In addition to the reporting requirements contained in Sections 232 and 233 of H.R. 2647, the National Defense Authorization Act for Fiscal Year 2010, the Director of the Missile Defense Agency (MDA) is directed to provide a report on how MDA will utilize the funds in the Ground-based Midcourse Defense (GMD) program in fiscal year 2010 to maintain the Ground-Based Interceptor (GBI) production line. The report shall identify the number of GBIs that are being produced in fiscal year 2010. Furthermore, the report shall include a discussion of MDA's GMD Analysis of Alternatives that was conducted as a result of U.S. Northern Command's Ballistic Missile Defense study that was provided to MDA in October

2008. These reports shall be submitted to the congressional defense committees at the same time the President submits the fiscal year 2011 budget request to Congress.

#### BALLISTIC MISSILE DEFENSE TEST AND TARGETS

There is strong support for a robust testing program for the Missile Defense Agency (MDA). In December of 2008, the Director of MDA initiated a review of the entire Ballistic Missile Defense test program and developed the Integrated Master Test Plan (IMTP) that was signed in late July 2009, well after the submission of the fiscal year 2010 budget request. The IMTP's primary purpose is to establish and document the executable test baseline program from fiscal year 2010 and out to satisfy critical engagement conditions and empirical measurement events data collection requirements.

Since the plan was submitted, it has become known that some tests scheduled for fiscal year 2010 have slipped to fiscal year 2011 and that target synchronization with the new test plan still needs clarification. Furthermore, the fiscal year 2010 budget requests an increase of \$50,000,000 over last year's funding level. However, MDA has not expended over \$500,000,000 of fiscal year 2009 funds and those funds will be carried over into fiscal year 2010 in the test and target program. Therefore, the recommendation reduces the budget request by \$135,800,000 due to a premature request of funding.

#### EARLY INTERCEPTOR

The Director of the Missile Defense Agency (MDA) is conducting a 90-day study on the different components of the early interceptor to evaluate how best to incorporate them into the Integrated Master Test Plan and MDA's new focus on early/ascent-phase intercept. The recommendation includes \$80,000,000 in Line 27, Ballistic Missile Defense Technology, only for the development of the relevant technologies and incorporation of existing technologies to support the early intercept program. Additionally, MDA is urged to use previously appropriated funds in other program elements that would be complimentary or enhance the relevant technologies for early/ascent-phase intercept.

#### TWO-STAGE GROUND-BASED INTERCEPTOR

The Missile Defense Agency (MDA) is encouraged to continue developing and testing the two-stage ground-based interceptor. It is understood that over \$173,000,000 has already been obligated in prior year funding to support development and testing. MDA is encouraged to provide at least \$50,000,000 in fiscal year 2010 funds to continue the two-stage interceptor program.

Furthermore, the Under Secretary of Defense for Policy is directed to submit a report to the congressional defense committees by June 1, 2010. The report shall include a plan for the continuation of the two-stage ground-based interceptor program as well as how MDA plans to leverage the development and testing of the interceptor to modernize the Ground-based Midcourse Defense system. If the report recommends continuation of the two-stage interceptor program, it shall address any options for basing two-stage

interceptors in Europe or the United States to provide enhanced defense in response to future long-range missile threats from Iran. The report shall also include a description of how such a site may be made interoperable with the planned missile defense architecture for Europe and the United States. Finally, the report shall include an independent cost estimate for the two-stage ground-based interceptor plan that is recommended.

#### GLOBAL SUPPLY CHAIN SECURITY

The national security establishment currently relies on electronic and computer components manufactured predominately overseas. The Department of Defense requires a trusted procurement process to provide classified handling, chain of custody, tracking and vital control of mission critical information technology system components. Accordingly, the Department is urged to provide the necessary resources to establish a Secure Procurement Logistics pilot project within the Cyber Security Initiative to perform secure procurement and logistics support for mission critical information technology.

## OPERATIONAL TEST AND EVALUATION, DEFENSE

For Operational Test and Evaluation, Defense, funds are to be available for fiscal year 2010, as follows:

(In thousands of dollars)

	Budget	House	Senate	Recommendation
-----				
OPERATIONAL TEST & EVAL, DEFENSE				
RD&E MANAGEMENT SUPPORT				
1	58,647	58,647	58,647	58,647
2	12,285	12,285	12,285	12,285
3	119,838	119,838	119,838	119,838
-----				
TOTAL, RD&E MANAGEMENT SUPPORT	190,770	190,770	190,770	190,770
-----				
TOTAL, OPERATIONAL TEST & EVAL, DEFENSE	190,770	190,770	190,770	190,770
=====				