

# OSD RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

May 2009

APPROPRIATION/ BUDGET ACTIVITY <b>RDTE, Defense Wide BA# 6</b>		PE NUMBER AND TITLE <b>0605804D8Z - Developmental Test and Evaluation</b>						
COST (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate					
Total Program Element (PE) Cost	17.452	23.566	23.512					
P804 Developmental Test and Evaluation	14.795	19.193	19.148					
P805 Software Engineering and System Assurance	2.657	2.873	2.764					
P806 Energy		1.500	1.600					

**A. Mission Description and Budget Item Justification:**

This program supports systems engineering and technical analysis and engineering evaluation of the Department's weapons systems. Activities in this program include developing and disseminating policy and guidance to support acquisition Developmental Testing and Evaluation. This program provides updates to DoD 5000.02 and the Defense Acquisition Guidebook (DAG) and tracks and evaluates the effectiveness of the Test and Evaluation Strategy (TES) and the Test and Evaluation Master Plan (TEMP) process. Efforts determine the adequacy of system or system of systems test program structure and development plans, substantiation of technical performance requirements achievement, identification of weapon system cost performance trade-offs/design risks, system certification for Operational Test and Evaluation, and ensures programs are sound, well executed and sufficiently address warfighter requirements. This program also funds the evaluation of safety best practices, procedures, methods and tools to support sound, stable acquisition programs.

This program develops education and training materials for instructing, maintaining and enhancing the defense acquisition workforce. Activities include developing guidance to enhance T&E acquisition career planning and progression, monitoring and facilitating Defense Acquisition University (DAU) updates of test and evaluation course to ensure curriculum represents the education and training requirements necessary to be a viable team member in the acquisition process

This program provides necessary modeling and simulation policy and guidance, clarifies the application of distributed simulation standards and works with the DoD modeling and simulation community to identify and prioritize required capabilities and competencies needed to support acquisition modeling and simulations.

FY 2009 will see a significant ramp-up in activity as the Departments takes the revitalization of Systems and Software Engineering to the next level. Traction is being gained in implementation of systems engineering and a renewed focus on developmental test and evaluation. The department must redouble its efforts to create Centers of Excellence and increased direct support to program through program support reviews, best practices identification and dissemination and more intensive development T&E prior to Initial Operational Test and Evaluation (IOT&E). New approaches, with associated policy, guidance, education and training are essential in software engineering and systems assurance as the department is becoming increasing dependent on a more globalized information Technology market place.

This program funds technical analyses and policy guidance for the Department of Defense (DoD) energy programs. In FY 2009 Project P806 Energy will be broken out separately from P804.

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<b>APPROPRIATION/ BUDGET ACTIVITY</b> <b>RDTE, Defense Wide BA# 6</b>	<b>PE NUMBER AND TITLE</b> <b>0605804D8Z - Developmental Test and Evaluation</b>
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<b><u>B. Program Change Summary</u></b>	FY 2008	FY 2009	FY 2010	
Previous President's Budget (FY 2008/2009)	18.550	20.396	20.845	
Current BES/President's Budget (FY 2010)	17.452	23.566	23.512	
Total Adjustments	-1.098	3.170	2.667	
Congressional Program Reductions				
Congressional Rescissions		-0.130		
Congressional Increases		3.200		
Reprogrammings	-0.540	0.100		
SBIR/STTR Transfer	-0.520			
Other	-0.038		2.667	

**C. Other Program Funding Summary:** Not applicable for this item.

**D. Acquisition Strategy:** Not applicable for this item.

**E. Performance Metrics:**

FY	Strategic Goals Supported	Existing Baseline	Planned Performance Improvement / Requirement Goal	Actual Performance Improvement	Planned Performance Metric / Methods of Measurement	Actual Performance Metric / Methods of Measurement
08	See Below					
09	See Below					
10	See Below					

Comment:

Strategic Goals Supported: Technical Readiness and Technology Maturity

FY 2008 Accomplishments: Monitored effectiveness of guidance in acquisition programs.

Metric - Updated training at DAU; and publicized DAG changes Chapter 4 (SE) and 9 (T&E).

FY 2009 Plans: Update training at DAU, publicize at PEO/SYSCOM and industry events in FY 2009; and monitor effectiveness of guidance in acquisition programs.

FY 2010 Plans: Monitor effectiveness of guidance in acquisition programs; and develop modifications to guidance, if required.

Strategic Goals Supported: Improve Modeling and Simulations (M&S) in Systems Engineering and Lead Acquisition Community

FY 2008 Accomplishments: Provided necessary, SE, Developmental Test & Evaluation (DT&E) M&S policy and guidance.

Metric: Published M&S Cross-Cutting Business Plan; Provided necessary A&T, SE, and DT&E M&S policy and guidance; Developed M&S project proposals provided evaluation guidance; Identified M&S competencies needed to support acquisition.

**OSD RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)****May 2009**

APPROPRIATION/ BUDGET ACTIVITY

PE NUMBER AND TITLE

**RDTE, Defense Wide BA# 6****0605804D8Z - Developmental Test and Evaluation**

Strategic Goals Supported: Improve Joint Warfighting Capability

FY 2008 Accomplishments: Guided development of T&amp;E infrastructure to support concept development and DT&amp;E in improving Joint Warfighting Capabilities.

Metric: Joint Test T&amp;E Joint Feasibility Studies (JFS) selected; JT&amp;E Program Test Plans signed; and JME Continuous Learning Module (CLM) developed.

FY 2009 Plans: Draft JME DoD test policy; monitor and facilitate improvements of T&amp;E methods and processes; and monitor and facilitate improvements of T&amp;E infrastructure to support Joint Warfighting Capability concept development.

FY 2010 Plans: Monitor and facilitate improvements of T&amp;E methods and processes to support Joint Warfighting Capability concept development.

Strategic Goals Supported: Test Resources/Targets availability to meet T&amp;E requirements

FY 2008 Accomplishments: Ensured targets are sufficiently threat representative and available.

Metric: Fifth generation full scale aerial target AoA completed; and Threat D anti-ship missile target Request for Proposals released.

FY 2009 Plans: Monitor resource availability; draft Fifth generation full scale aerial target development plan; monitor FY 2007 Test Resource Management Center (TRMC), Strategic Plan implementation; and monitor Threat D anti-ship missile target progress.

FY 2010 Plans: Monitor resource availability; monitor TRMC, Strategic Plan implementation; and monitor Threat D anti-ship missile target progress.

Strategic Goals Supported: Safety - Support Defense Safety Oversight Council 50% Accident Reduction Goal

2008 Accomplishments: Developed safety best practices and procedures to support acquisition programs.

Metric: Chaired Acquisition Technology Program Task Force.

FY 2009 Plans: Integrate safety process advances into DOD 5000.02 and the DAG to reflect reporting safety risks throughout systems life cycle; evaluate/introduce safety technologies into new and legacy systems; and streamline joint safety certification requirements.

FY 2010 Plans: Evaluate current safety practices and provide guidance, as required.

Strategic Goals Supported: Energy - Acquisition Investment Decisions

FY 2008 Accomplishments: Implemented policy regarding valuing energy in Acquisition Investment Decisions.

Metric: Supported Defense Science Board Energy Security Study; and led Institute for Defense Analyses (IDA) study on developing analytical tools and methodologies to support the Fully Burdened Cost of Fuel (FBCF) Pilot Program.

FY 2009 Plans:

Complete FBCF Pilot; integrate FBCF in Life Cycle Cost analyses; integrate FBCF construct with energy KPP; develop energy guidance and policy to value energy early in acquisition processes; develop FBCF course modules for DAU; provide necessary M&amp;S policy and guidance; execute acquisition M&amp;S master plan; manage M&amp;S Steering Committee funded projects; and develop M&amp;S policy &amp; guidance recommendations, as required.

FY 2010 Plans: Provide M&amp;S policy and guidance.

# OSD RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

May 2009

APPROPRIATION/ BUDGET ACTIVITY <b>RDTE, Defense Wide BA# 6</b>		PE NUMBER AND TITLE <b>0605804D8Z - Developmental Test and Evaluation</b>				PROJECT <b>P804</b>	
COST (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate				
P804 Developmental Test and Evaluation	14.795	19.193	19.148				

**A. Mission Description and Budget Item Justification:**

This (P804) program supports systems engineering and technical analysis and engineering evaluation of the Department's weapons systems. Activities in this program are broken out into two focus areas and include developing and disseminating policy and guidance to support acquisition Developmental Testing and Evaluation, and the second focus area funds program Assessments and Support and the technical management oversight for major defense acquisition programs (MDAPs). This program provides updates to DoD 5000.02 and the Defense Acquisition Guidebook (DAG) and tracks and evaluates the effectiveness of the Test and Evaluation Strategy (TES) and the Test and Evaluation Master Plan (TEMP) process. Efforts determine the adequacy of system or system of systems test program structure and development plans, substantiation of technical performance requirements achievement, identification of weapon system cost performance trade-offs/design risks, system certification for Operational Test and Evaluation, and ensures programs are sound, well executed and sufficiently address warfighter requirements. This program also funds the evaluation of safety best practices, procedures, methods and tools to support sound, stable acquisition programs.

Activities include the following:

- Working with program managers to prepare system engineering plans (SEPs) to document the technical management approach.
- Conduct periodic visits during technical reviews to confirm programs are executed in accordance with the SEP.
- Review all aspects of the systems engineering process for individual assigned weapon system programs to ensure they are adequate to support fielding and the achievement of cost and performance goals.
- Participate in Test and Evaluation (T&E) Integrated product Teams (IPTs), T&E Working IPTs, Systems Engineering (SE) IPTs and SE WIPTs.
- Work with DoD Service program managers, their staffs, and other support organizations, technical authorities, and oversight organizations to develop and implement technical management programs for major defense acquisition program (MDAPS).
- Work to identify and resolve T&E issues, and assists in removing roadblocks to allow program test teams to develop baseline knowledge that aids in program decision making, notifying leadership immediately of issues that will have an impact on programs.
- Conceive plans and lead program support reviews and assessments of MDAP weapons systems and other programs (e.g., Major Automated Information Systems) to shape technical planning and management.
- Conduct assessments of operational test readiness (AOTR), and Nunn-McCurdy certification reviews to confirm the maturation of system capabilities during developmental testing and readiness to proceed into the initial operational test and evaluation with a high probability of being found operationally effective, suitable and survivable.
- Conduct non-advocate reviews (NAR) sponsored by the program offices for assigned programs.

This program develops education and training materials for instructing, maintaining and enhancing the defense acquisition workforce. Activities include developing guidance to enhance T&E acquisition career planning and progression, monitoring and facilitating Defense Acquisition University (DAU) updates of test and evaluation course to ensure curriculum represents the education and training requirements necessary to be a viable team member in the acquisition process

# OSD RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

May 2009

<b>APPROPRIATION/ BUDGET ACTIVITY</b> <b>RDTE, Defense Wide BA# 6</b>	<b>PE NUMBER AND TITLE</b> <b>0605804D8Z - Developmental Test and Evaluation</b>	<b>PROJECT</b> <b>P804</b>
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This program provides necessary modeling and simulation policy and guidance, clarifies the application of distributed simulation standards and works with the DoD modeling and simulation community to identify and prioritize required capabilities and competencies needed to support acquisition modeling and simulations.

FY 2009 will see a significant ramp-up in activity as the Department takes the revitalization of Systems and Software Engineering to the next level. Traction is being gained in implementation of systems engineering and a renewed focus on developmental test and evaluation. The department must redouble its efforts to create Centers of Excellence and increased direct support to program through program support reviews, best practices identification and dissemination and more intensive development T&E prior to Initial Operational Test and Evaluation (IOT&E). New approaches, with associated policy, guidance, education and training are essential in software engineering and systems assurance as the department is becoming increasingly dependent on a more globalized information Technology market place.

This program funds technical analyses and policy guidance for the Department of Defense (DoD) energy programs. In FY 2009 Project P806 Energy will be broken out separately from P804.

**B. Accomplishments/Planned Program:**

<b><u>Accomplishments/Planned Program Title:</u></b>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
Strategic Goals Supported: Technical Readiness and Technology Maturity	14.795	19.193	19.148

FY 2008 Accomplishments: Monitored effectiveness of guidance in acquisition programs.  
 Performed over 28 program support reviews, assessment of operational test readiness reviews, non-advocate reviews, joint assessment team, and defense support team reviews.  
 Worked with Service components to develop, review, coordinate and staff for approval over 40 SEPs, TES, and TEMPs.  
 Metric - Updated training at DAU; Publicized DAG changes Chapter 4 (SE) and 9 (T&E).  
 FY 2009 Plans: Update training at DAU, publicize at PEO/SYSCOM and industry events in FY 2009; Monitor effectiveness of guidance in acquisition programs.  
 Plan to perform approximately 33 MDAP program assessments to include; program support reviews, assessment of operational test readiness reviews, non-advocate reviews, joint assessment team, and defense support team reviews. Plan to work with Service components to shape, review, coordinate and staff for approval approximately 45 SEPs, TES, and TEMPs.  
 FY 2010 Plans: Monitor effectiveness of guidance in acquisition programs; and develop modifications to guidance, if required.

<b><u>Accomplishments/Planned Program Title:</u></b>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
Strategic Goals Supported: Improve Modeling and Simulations (M&S) in Systems Engineering and Lead Acquisition Community			

FY 2008 Accomplishments: Provided necessary, SE, Developmental Test & Evaluation (DT&E) M&S policy and guidance.  
 Metric: Published M&S Cross-Cutting Business Plan; provided necessary A&T, SE, and DT&E M&S policy and guidance; developed M&S project proposals provided evaluation guidance; and identified M&S competencies needed to support acquisition.

# OSD RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

May 2009

APPROPRIATION/ BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT		
<b>RDTE, Defense Wide BA# 6</b>	<b>0605804D8Z - Developmental Test and Evaluation</b>	<b>P804</b>		
<b><u>Accomplishments/Planned Program Title:</u></b>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	
Strategic Goals Supported: Improve Joint Warfighting Capability				
FY 2008 Accomplishments: Guided development of T&E infrastructure to support concept development and DT&E in improving Joint Warfighting Capabilities. Metric: Joint Test T&E Joint Feasibility Studies (JFS) selected; JT&E Program Test Plans signed; and JME Continuous Learning Module (CLM) developed. FY 2009 Plans: Draft JME DoD test policy; monitor and facilitate improvements of T&E methods and processes; and monitor and facilitate improvements of T&E infrastructure to support Joint Warfighting Capability concept development. FY 2010 Plans: Monitor and facilitate improvements of T&E methods and processes to support Joint Warfighting Capability concept development.				
<b><u>Accomplishments/Planned Program Title:</u></b>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	
Strategic Goals Supported: Test Resources/Targets availability to meet T&E requirements				
FY 2008 Accomplishments: Ensured targets are sufficiently threat representative and available. Metric: Fifth generation full scale aerial target AoA completed; and Threat D anti-ship missile target Request for Proposals released. FY 2009 Plans: Monitor resource availability; Draft Fifth generation full scale aerial target development plan; monitor FY 2007 Test Resource Management Center (TRMC), Strategic Plan implementation; and monitor Threat D anti-ship missile target progress. FY 2010 Plans: Monitor resource availability; monitor TRMC, Strategic Plan implementation; and monitor Threat D anti-ship missile target progress.				
<b><u>Accomplishments/Planned Program Title:</u></b>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	
Strategic Goals Supported: Safety - Support Defense Safety Oversight Council 50% Accident Reduction Goal				
2008 Accomplishments: Developed safety best practices and procedures to support acquisition programs. Metric: Chaired Acquisition Technology Program Task Force. FY 2009 Plans: Integrate safety process advances into DOD 5000.02 and the DAG to reflect reporting safety risks throughout systems life cycle; evaluate/introduce safety technologies into new and legacy systems; and streamline joint safety certification requirements. FY 2010 Plans: Evaluate Current Safety Practices and provide guidance, as required.				
<b><u>Accomplishments/Planned Program Title:</u></b>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	
Strategic Goals Supported: Energy - Acquisition Investment Decisions				
FY 2008 Accomplishments: Implemented policy regarding valuing energy in Acquisition Investment Decisions Metric: Supported Defense Science Board Energy Security Study; led Institute for Defense Analyses (IDA) study on developing analytical tools and methodologies to support the Fully Burdened Cost of Fuel (FBCF) Pilot Program. FY 2009 Plans: Complete FBCF Pilot; integrate FBCF in Life Cycle Cost analyses; integrate FBCF construct with energy KPP; develop energy guidance and policy to value energy early in acquisition processes; develop FBCF course modules for DAU; provide necessary M&S policy and guidance; execute Acquisition M&S Master Plan; manage M&S Steering Committee funded projects; and develop M&S policy & guidance recommendations, as required. FY 2010 Plans: Provide M&S policy and guidance.				

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<b><u>Accomplishments/Planned Program Title:</u></b>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	
University Affiliated Research Center for systems engineering				

FY 2008 Accomplishment: Established University Affiliated Research Center for systems engineering research.  
 FY 2009 Plans: Perform systems engineering research at University Affiliated Research Center

**C. Other Program Funding Summary:** Not applicable for this item.

**D. Acquisition Strategy:** Not applicable for this item.

**E. Major Performers:** Not applicable for this item.

# OSD RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

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APPROPRIATION/ BUDGET ACTIVITY <b>RDTE, Defense Wide BA# 6</b>		PE NUMBER AND TITLE <b>0605804D8Z - Developmental Test and Evaluation</b>				PROJECT <b>P805</b>	
COST (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate				
P805 Software Engineering and System Assurance	2.657	2.873	2.764				

**A. Mission Description and Budget Item Justification:**

In Fiscal Year (FY) 2008, the Software Intensive Systems funding line was transferred from PE0603782D8Z to the Developmental Test and Evaluation line and renamed Systems Engineering and Software Assurance. This project focuses specifically on the acquisition of software intensive systems, and the developmental test and engineering of software. Efforts in this project are focused on software specific engineering issues such as engineering large scale complex systems from software components, software architecture, design and integration and test practices, prevention of malicious tampering (engineering for software assurance), and development tools, education and guidance for software professionals. Efforts are linked with Major Defense Acquisition Program (MDAP) support activities, and enable development of a core competency and software expertise that is provided directly to our programs. Based on this MDAP support, this project will evaluate software issues, and analyze systemic software issues such that cross-cutting corrective action may be taken. The latter activities help establish a baseline and measure a declining number of software issues in our defense acquisition programs.

**B. Accomplishments/Planned Program:**

<b><u>Accomplishments/Planned Program Title:</u></b>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
FY 2008 Accomplishments:	2.657		

Support Acquisition Success:

- Provided software and system assurance expertise for Acquisition Category (ACAT) ID/IAM and special interest programs.

Improved State-of-the-Practice of Software Engineering:

- Identified and addressed systemic issues related to software.
- Published System Assurance Guidebook.
- Conducted pilot application of the System of System (SoS) Engineering Guidebook.
- Developed objectives for v2.0 update to the Capability Maturity Model Integration (CMMI).

Provided Software Leadership and Outreach:

- Implemented Department/National strategic plan for meeting defense software requirements.
- Participated in Service-led software initiatives, e.g., Army Strategic Software Improvement Program and multi-national forums, e.g., Software Intensive Systems Acquisition Improvement Group.

Ensured Adequate Software Resources to Meet DoD Needs:

- Developed strategy to address human capital recommendations from Software Industrial Base Study, Software Summit
- Reviewed Defense Acquisition University (DAU) curriculum and knowledge management services, e.g., Communities of Practice, Best Practices Clearinghouse, for software content and recommend changes.

Objectives: Tools, techniques identified; program support provided to ACAT ID/IAM and special interest programs; and partners established, agenda set.

Artifacts: System of Systems Engineering Guide; initial software systemic findings; System Assurance Guide; DoD Software Strategic Plan; and conference sponsorship and participation (e.g., Systems and Software Technology Conference, Systems Engineering).

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<b>APPROPRIATION/ BUDGET ACTIVITY</b> <b>RDTE, Defense Wide BA# 6</b>	<b>PE NUMBER AND TITLE</b> <b>0605804D8Z - Developmental Test and Evaluation</b>				<b>PROJECT</b> <b>P805</b>
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<b><u>Accomplishments/Planned Program Title:</u></b>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	
FY 2009 Plans:		2.873	2.764	

Support Acquisition Success:

- Provide software and system assurance expertise for ACAT ID/IAM and special interest programs.

Improve State-of-the Practice of Software Engineering:

- Identify and address systemic issues related to software.
- Establish System Assurance policy for DoD acquisition programs.
- Perform v2.0 update to the Capability Maturity Model Integration (CMMI).
- Update System of System (SoS) Engineering Guidebook based on pilot applications.

Provide Software Leadership and Outreach:

- Participate in Service-led software initiatives, e.g., Army Strategic Software Improvement Program and multi-national forums, e.g., Software Intensive Systems Acquisition Improvement Group.
- Continue implementation of Department/National strategic plan for meeting defense software requirements.

Ensure Adequate Software Resources to Meet DoD Needs:

- Implement human capital recommendations from Software Industrial Base Study, Software Summit.

Objectives: Tools and techniques updated; program support provided to ACAT ID/IAM and special interest programs; expanded set of partners and updated agenda.

Artifacts: SoS Engineering Guide, CMMI v2.0, DoD Software Strategic Plan; conference sponsorship and participation (e.g., Systems and Software Technology Conference, Systems Engineering); and updated DAU curriculum with software considerations.

**C. Other Program Funding Summary:** Not applicable for this item.

**D. Acquisition Strategy:** Not applicable for this item.

**E. Major Performers:** Not applicable for this item.

# OSD RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

May 2009

<b>APPROPRIATION/ BUDGET ACTIVITY</b> RDTE, Defense Wide BA# 6		<b>PE NUMBER AND TITLE</b> 0605804D8Z - Developmental Test and Evaluation					<b>PROJECT</b> P806	
	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate					
COST (\$ in Millions)								
P806 Energy		1.500	1.600					

**A. Mission Description and Budget Item Justification:**

This program implements how the Department's energy demand and related costs, as outlined in the Fully Burdened Cost of Fuel (FBCF) construct detailed in the February 2008 Defense Science Board Energy Task Force report, impacts systems acquisition and life-cycle management. The 2009 NDAA mandated use of the FBCF in systems development and assessments of total ownership cost of systems.

This effort focuses on the analytical development and integration of the "Fully Burdened Cost of Fuel" concept into all DoD acquisition programs that will demand fuel in the battlespace, as formally required by the 2009 NDAA, DoD Instruction 5000.02 and other DoD strategic guidance. This work includes development of the analytical methodology, acquisition guidance and regulation revisions, and oversight of implementation across the Department. The premise of this work is that DoD cost of ownership analysis methods significantly under-value the operational delivery costs and other implications of fuel demand in the force. By accurately valuing all of the real costs of delivering fuel to the operator, acquisition programs, modernization (e.g. Army RESET) and research and development efforts will have a much clearer understanding of the value of investing to reduce energy demand.

Supporting the "Fully Burdened Cost of Fuel" implementation are efforts to include these same operational fuel delivery variables more realistically in the Joint Strategic Planning Process (force planning) and the Joint Capability Integration and Development System (JCIDS) (requirements) so as to better understand the relationship between fuel demand and operational capability across the current and future force. Funds for energy efforts transferred from P804 starting in FY2009.

**B. Accomplishments/Planned Program:**

<b><u>Accomplishments/Planned Program Title:</u></b>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	
FY 2009 Plans		1.500		

Co-sponsor case study analyses with select Service organizations and the Joint Staff to determine the key variables and metrics for treating energy as a mature capability factor in the DoD requirements development and acquisition processes. Findings will inform methodological guidance and selection of capabilities and programs. Support Component wargaming and force planning, and requirements development processes to incorporate energy and fully burdened fuel costing.

<b><u>Accomplishments/Planned Program Title:</u></b>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	
FY 2010 Plans:			1.600	

Develop Fully Burdened Cost of Fuel (FBCF) analytical methodology and refine supporting methodological guidance (instructions, manuals and handbooks) and metrics for integration and application of the FBCF into DoD acquisition system to appropriately manage energy in life-cycle costing and total cost of ownership. Develop and deploy FBCF DAU curriculum to educate the acquisition workforce. Provide management and oversight of FBCF use within the acquisition business process.

**C. Other Program Funding Summary:** Not applicable for this item.

**D. Acquisition Strategy:** Not applicable for this item.

**E. Major Performers:** Not applicable for this item.