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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Office of Secretary Of Defense **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>				PE 0604055D8Z: <i>Operational Energy Capability Improvement RDT&E</i>							
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	-	-	20.444	-	20.444	26.841	33.376	34.363	35.492	Continuing	Continuing
P455: <i>Operational Energy Capability Improvement</i>	-	-	20.444	-	20.444	26.841	33.376	34.363	35.492	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Operational Energy Capability Improvement program element focuses on expediting the development and transition, to include testing, of new energy technologies and initiatives to the warfighter with the intent of increasing combat capability and effectiveness while reducing operating costs. This may include developing tools and instruments required to collect energy usage data; collecting and analyzing energy usage data; and improving modeling and simulation of energy considerations. Efforts undertaken in this program element will seek to spur innovation of promising technologies that can be demonstrated and rapidly fielded to reduce energy requirements for current and future military operations with an emphasis on Jointness and interoperability. Potential programs to be expedited may be proposed from within existing research and development efforts, acquisition programs, or new efforts and programs. Most projects are expected to be accomplished within one to five years given the emphasis on technologies with maturing readiness levels.

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	-	-	-	-	-
Current President's Budget	-	-	20.444	-	20.444
Total Adjustments	-	-	20.444	-	20.444
• Congressional General Reductions	-	-	-	-	-
• Congressional Directed Reductions	-	-	-	-	-
• Congressional Rescissions	-	-	-	-	-
• Congressional Adds	-	-	-	-	-
• Congressional Directed Transfers	-	-	-	-	-
• Reprogrammings	-	-	-	-	-
• SBIR/STTR Transfer	-	-	-	-	-
• Operational Energy Capability Improvement	-	-	21.000	-	21.000
• DOD Efficiencies - Report, Studies Boards and Commissions	-	-	-0.527	-	-0.527
• Economic Assumptions	-	-	-0.029	-	-0.029

Change Summary Explanation

The Under Secretary of Defense (Acquisition, Technology, and Logistics) established the program element with this budget submission by reallocating resources from within internal resources.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Office of Secretary Of Defense **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT			
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>				PE 0604055D8Z: <i>Operational Energy Capability Improvement RDT&E</i>				P455: <i>Operational Energy Capability Improvement</i>			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
<i>P455: Operational Energy Capability Improvement</i>	-	-	20.444	-	20.444	26.841	33.376	34.363	35.492	Continuing	Continuing

A. Mission Description and Budget Item Justification

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B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2010	FY 2011	FY 2012
Title: Operational Energy Capability Improvement	-	-	20.444
FY 2010 Accomplishments: None			
FY 2011 Plans: Establish a process to identify and select new energy technologies and initiatives applicable to the warfighter with potential for a rapid and great return in increased combat capability and effectiveness and reduced operating costs.			
FY 2012 Plans: FY12 projects will primarily be determined based on the potential to increase combat capability and effectiveness while reducing operating costs. Selected efforts will be focused, and executable in less than five years. Selected projects will rapidly advance technical maturity with the intent of fielding to operational units in the near-term.			
Accomplishments/Planned Programs Subtotals	-	-	20.444

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

N/A

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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 0604055D8Z: <i>Operational Energy Capability Improvement RDT&E</i>	PROJECT P455: <i>Operational Energy Capability Improvement</i>

E. Performance Metrics

None