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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Army Date: May 2017

Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 Program Element (Number/Name) PE 0604100A / Analysis Of Alternatives							
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	-	7.533	6.608	9.921	-	9.921	9.870	10.139	10.211	10.347	Continuing	Continuing
EC7: Analysis Of Alternatives	-	7.533	6.608	9.921	-	9.921	9.870	10.139	10.211	10.347	Continuing	Continuing

## A. Mission Description and Budget Item Justification

This PE provides funding for analytical support of Analysis of Alternatives (AoA). Based on Department of Defense Instruction (DoDI) 5000.02, AoAs are required to be completed for a new start program prior to its first Milestone (MS) Decision. AoAs are a statutory requirement for ACAT I and ACAT II programs and regulatory for ACAT III programs. The AoAs support the preparation of the Capability Development Document (CDD), Key Performance Parameters (KPP) and Thresholds within the CDDs and tradeoff analysis. The Army must complete an AoA prior to the MS A Decision in order to successfully achieve a MS A decision for new start programs. This PE provides central funding for new start programs prior to a materiel development decision which do not yet have a Program Manager assigned for materiel development. The cited work is consistent with the Assistant Secretary of Defense, Research and Engineering Science and Technology priority focus areas and the Army Modernization Strategy and Plan. Work in this PE is performed by analytical agencies such as U.S. Army TRADOC Analysis Center and U.S. Army Materiel Systems Analysis Activity. The Army is projecting to start work on several AoAs beginning in FY 2018, and will assess and fund the highest Army priorities during the year of execution.

FY 2018 funding in the amount of \$9.832 million supports of Analysis of Alternatives (AoA) for new start programs that do not yet have a Program Manager assigned.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Previous President's Budget	9.805	6.608	9.832	-	9.832
Current President's Budget	7.533	6.608	9.921	-	9.921
Total Adjustments	-2.272	0.000	0.089	-	0.089
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.389	-			
• Adjustments to Budget Years	-1.883	0.000	0.089	-	0.089

## Change Summary Explanation

FY16 adjustments include \$0.389 million dollar transfer in support of SBIR/STTR and \$1.883 million realigned to meet higher priority requirements.

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Army										Date: May 2017		
Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0604100A / Analysis Of Alternatives				Project (Number/Name) EC7 / Analysis Of Alternatives			
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
EC7: Analysis Of Alternatives	-	7.533	6.608	9.921	-	9.921	9.870	10.139	10.211	10.347	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This PE provides funding for analytical support of AoAs. Based on Department of Defense Instruction (DoDI) 5000.02, AoAs are required to be completed for a new program start prior to its first Milestone (MS) Decision. AoAs are a statutory requirement for ACAT I and ACAT II programs and regulatory for ACAT III programs. The AoAs support the preparation of the Capability Development Document, Key Performance Parameters and Thresholds within the CDDs and tradeoff analysis. The Army must complete an AoA prior to the MS A Decision in order to successfully achieve a MS A decision for new start programs. This PE provides central funding for new start programs prior to a materiel development decision which do not yet have a Program Manager assigned for materiel development. The cited work is consistent with the Assistant Secretary of Defense, Research and Engineering Science and Technology priority focus areas and the Army Modernization Strategy and Plan. Work in this PE is performed by analytical agencies such as U.S. Army TRADOC Analysis Center and U.S. Army Materiel Systems Analysis Activity. The Army will assess and fund the highest Army priorities during the year of execution.

FY 2018 funding in the amount of \$9.832 million supports of Analysis of Alternatives (AoA) for new start programs that do not yet have a Program Manager assigned.

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

	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
<b>Title:</b> Acquisition Analysis of Alternatives	7.533	6.608	-
<b>Description:</b> Funds are to be used for the following effort.			
<b>FY 2016 Accomplishments:</b> Centrally funded AoAs of the new start programs Dominating Mobility Through Terrain Shaping & Engagement and M113 Replacement at Echelons Above Brigade. Each of these programs will be assigned a Program Manager pending the results of their initial Milestone Decisions. Centrally funded a comprehensive update of a 2010 AoA to inform requirements and an acquisition strategy for Increment 1 of the existing Biometrics Enabling Capability.			
<b>FY 2017 Plans:</b> Centrally fund AoAs for new program starts that require a materiel development decision. These new programs do not yet have a Program Manager assigned.			
<b>Title:</b> Centrally fund AoAs for new program starts that require a materiel development decision. These new programs do not yet have a Program Manager assigned.	-	-	9.921
<b>FY 2018 Plans:</b>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> FY 2018 Army		<b>Date:</b> May 2017	
<b>Appropriation/Budget Activity</b> 2040 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604100A / <i>Analysis Of Alternatives</i>	<b>Project (Number/Name)</b> EC7 / <i>Analysis Of Alternatives</i>	
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2016</b>	<b>FY 2017</b>
Centrally fund AoAs for new program starts that require a materiel develop decision. These new programs do not yet have a Program Manager assigned.			
<b>Accomplishments/Planned Programs Subtotals</b>		7.533	6.608
<b>C. Other Program Funding Summary (\$ in Millions)</b>			
N/A			
<b>Remarks</b>			
Not applicable for this item.			
<b>D. Acquisition Strategy</b>			
N/A			
<b>E. Performance Metrics</b>			
N/A			