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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 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0605034A / Tactical Security System (TSS)							
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	-	0.000	2.904	4.727	-	4.727	3.957	0.000	0.000	0.000	0.000	11.588
EQ4: Tactical Security System (TSS)	-	0.000	2.904	4.727	-	4.727	3.957	0.000	0.000	0.000	0.000	11.588

A. Mission Description and Budget Item Justification

The Tactical Security System (TSS) is a modular, scalable, lightweight, rapidly deployable, ground based security and surveillance Family of Systems (FoS). The design of TSS allows for hasty emplacement, is tailorable to support short and long term security, surveillance and detection missions. The TSS and its components are designed to be employed as a stand-alone system, in a layered effort or integrated with additional force protection (FP) systems. Integration with additional sensors will be obtained through network communications and software in line with Net-Ready requirements. TSS will address four of the five base camp core protection/security capabilities identified in the Integrated Base Defense (IBD) Concept of Operations (CONOPS) which are perimeter security, entry control, persistent surveillance, warning and alerting. The TSS will be compliant with the Common Operating Environment (COE) Architecture and Implementation Plan. TSS is designed to be employed as a stand-alone system in a layered effort or integrated with additional force protection systems including motion, acoustic, seismic, surface, and detection technologies.

B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	0.000	2.904	5.576	-	5.576
Current President's Budget	0.000	2.904	4.727	-	4.727
Total Adjustments	0.000	0.000	-0.849	-	-0.849
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	0.000	0.000	-0.849	-	-0.849

Change Summary Explanation

Decrease to FY 2018 funding is due to an adjustment required to align with planned acquisition strategy.

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Army										Date: May 2017		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605034A / Tactical Security System (TSS)				Project (Number/Name) EQ4 / Tactical Security System (TSS)			
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
EQ4: Tactical Security System (TSS)	-	0.000	2.904	4.727	-	4.727	3.957	0.000	0.000	0.000	0.000	11.588
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Note This is a new start program in FY 2017.												
A. Mission Description and Budget Item Justification The Tactical Security System (TSS) is a modular, scalable, lightweight, rapidly deployable, ground based security and surveillance Family of Systems (FoS). The design of TSS allows for hasty emplacement, is tailorable to support short and long term security, surveillance and detection missions. The TSS and its components are designed to be employed as a stand-alone system, in a layered effort or integrated with additional force protection (FP) systems. Integration with additional sensors will be obtained through network communications and software in line with Net-Ready requirements. TSS will address four of the five base camp core protection/security capabilities identified in the Integrated Base Defense (IBD) Concept of Operations (CONOPS) which are perimeter security, entry control, persistent surveillance, warning and alerting. The TSS will be compliant with the Common Operating Environment (COE) Architecture and Implementation Plan. TSS is designed to be employed as a stand-alone system in a layered effort or integrated with additional force protection systems including motion, acoustic, seismic, surface, and detection technologies. FY 2018 Base Funding in the amount of \$4.727 million supports the system level Preliminary Design Review (PDR), establishment of the TSS capabilities in the System Integration Lab (SIL), completes the development, integration, and production of the TSS Engineering & Manufacturing Development (EMD) assets (production representative articles). The funding will also support the development of the Technical Data Package (TDP) and Product Support Analysis and Package, as well as component selection and integration testing for the Engineering Development Models (EDMs).												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2016	FY 2017	FY 2018	
Title: TSS Design and Build									-	2.904	4.727	
Description: TSS completes building of Engineering Development Model (EDM), integration with Integrated Ground Security Surveillance and Response Capability (IGSSR-C) and Common Operating Environment (COE), and Developmental Testing (DT) of prototype.												
FY 2017 Plans: TSS completes building of Engineering Development Model (EDM), integration with Integrated Ground Security Surveillance and Response Capability (IGSSR-C) and Common Operating Environment (COE), and Developmental Testing (DT) of prototype.												
FY 2018 Plans:												

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B. Accomplishments/Planned Programs (\$ in Millions)										FY 2016	FY 2017	FY 2018
TSS completes building of the Engineering Development Model (EDM), support Program Management Office (PMO), PDR and component selection integration testing of the EDM.												
Accomplishments/Planned Programs Subtotals										-	2.904	4.727
C. Other Program Funding Summary (\$ in Millions)												
Line Item	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	
• TSS (M90220): TSS (M90220)	-	-	-	-	-	5.809	9.352	10.859	11.356	Continuing	Continuing	
Remarks												
D. Acquisition Strategy												
Tactical Security System (TSS) will eliminate the Non-Standard Equipment (NSE) currently used in the Force Protection System (FPS) under the Base Expeditionary Targeting and Surveillance System – Combined (BETSS-C) Quick Reaction Program (QRC) with improved surveillance capabilities in modular configurations along with enhanced network integration across the command and control system and Common Operating Environment (COE). In FY2016, the Department of Defense (DoD) Physical Security Enterprise and Analysis Group (PSEAG) will provide funding to support pre-milestone B activities and risk reduction activities.												
TSS received Materiel Development Decision (MDD) approval on 6 January 2017. The acquisition concept and contracting strategy for TSS is pending approval from the Milestone Decision Authority (MDA) with plans to leverage the Night Vision and Electronic Sensors Directorate (NVESD), Fort Belvoir, Virginia to provide programmatic and developmental support and existing RDT&E contracts for the system design, development, and integration of Engineering and Manufacturing Development (EMD) systems and to support Operational Assessments (OA). Key efforts include system design and engineering efforts, development of two engineering development models (EDMs), testing and evaluation for TSS Key Performance Parameters (KPPs)/Key System Attributes (KSAs)/Additional Performance Parameters (APAs), and Developmental and Operational Test and Evaluation.												
Milestone C is planned for FY 2020 to align Ground-Based Operational Surveillance System - Expeditionary (GBOSS-E), Integrated Ground Security, Surveillance and Response Capability (IGSSR-C), and TSS in order to gain programmatic efficiencies.												
E. Performance Metrics												
N/A												