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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force **Date:** March 2014

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0305182F / <i>Spacelift Range System (SPACE)</i>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	-	7.808	12.312	13.462	-	13.462	9.066	10.502	10.708	10.910	Continuing	Continuing
674137: <i>Launch and Test Range System (LTRS) Modernization</i>	-	7.808	12.312	13.462	-	13.462	9.066	10.502	10.708	10.910	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Eastern Range (ER) at Patrick Air Force Base (AFB)/Cape Canaveral Air Force Station, FL, and the Western Range (WR) at Vandenberg AFB, CA, make up the Spacelift Range System (SLRS), also known as the Launch and Test Range System (LTRS). The ER and WR provide tracking, telemetry, communications, flight safety, and other capabilities to enable: national security, civil, and commercial space launches, ballistic missile and missile defense test launches and aeronautical and guided weapons tests. Decreasing reliability of aging range systems leads to higher operations and maintenance costs and increased risk of launch delays.

RDT&E funds are required to conduct architecture analysis to optimize investment planning to meet operational availability.

This activity is categorized as Budget Activity 7, Operational Systems Development.

B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	8.760	13.345	13.630	-	13.630
Current President's Budget	7.808	12.312	13.462	-	13.462
Total Adjustments	-0.952	-1.033	-0.168	-	-0.168
• Congressional General Reductions	-0.011	-0.033			
• Congressional Directed Reductions	-0.400	-1.000			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.407	-			
• Other Adjustments	-0.134	-	-0.168	-	-0.168

Change Summary Explanation

FY14 Congressional Directed Reduction: -\$1.000M for program decrease

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
Title: Range Modernization (SLRSC) Description: SLRSC managed the fielded baseline (all twelve subsystems) via systems engineering to include configuration management, requirements, analysis, and special studies. In FY 14 this activity will transition to the LISC contract. Provides program management support, to include System Program Office operations, Systems Engineering and Technical Assistance (SETA), and Federally Funded Research and Development Centers (FFRDC). FY 2013 Accomplishments: SLRSC managed the fielded baseline (all twelve subsystems) via systems engineering to include configuration management, requirements, analysis, and special studies. In FY 14 this activity will transition to the LISC contract. FY 2014 Plans: SLRSC manages the fielded baseline (all twelve subsystems) via systems engineering to include configuration management, requirements, analysis, and special studies. In FY 14 this activity will transition to the LISC contract.		5.578	5.588	-
Title: LISC Systems Engineering and Tech Support Description: LTRS Integrated Support Contract (LISC) manages the fielded baseline (all twelve subsystems) to include configuration management of all range assets, requirements, analysis, and special studies. Provides program management support, to include System Program Office operations, Systems Engineering and Technical Assistance (SETA), and Federally Funded Research and Development Centers (FFRDC). FY 2013 Accomplishments: N/A FY 2014 Plans: N/A FY 2015 Plans: LISC will begin to manage the fielded baseline (all twelve subsystems) to include configuration management of all range assets, requirements, analysis, and special studies.		-	-	3.288
Title: Systems Engineering and Integration Description: SE&I manages the government controlled system and subsystem level baseline requirements including future changes to the fielded baseline. FY 2013 Accomplishments:		2.230	2.282	5.700

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C. Accomplishments/Planned Programs (\$ in Millions)								FY 2013	FY 2014	FY 2015		
Continued independent SE&I efforts to integrate modernization and sustainment efforts into future ranges. Provided systems and subsystem level definition, baseline, architecture, integration planning and support for future systems.												
FY 2014 Plans: Continue independent SE&I efforts to integrate modernization and sustainment efforts into future ranges. Provide systems and subsystem level definition, baseline, architecture, integration planning and support for future systems.												
FY 2015 Plans: Continue independent SE&I efforts to integrate modernization and sustainment efforts into future ranges. Provide systems and subsystem level definition, baseline, architecture, integration planning and support for future systems.												
Title: Standard Space Trainer								-	4.442	4.474		
Description: Develops the Standard Space Trainer (SST) and other trainer applications for the spacelift ranges. SST is the AFSPC/CC-directed training system for all Combat Mission Ready (CMR) space systems. It provides a common platform for all space operational training systems for both AFSPC and AETC. The Spacelift Range SST will be developed to support CMR training for the ranges' Aerospace Control Officer (ACO), Range Control Officer (RCO)/Range Operations Commander (ROC), Mission Flight Control Officer (MFCO) and Launch Weather Officer (LWO) positions.												
FY 2013 Accomplishments: N/A												
FY 2014 Plans: Begins development of Standard Space Trainer application for ranges to provide more responsive, cost effective, and adaptive training capability than current training on operational system.												
FY 2015 Plans: Continue development of Standard Space Trainer application and/or other trainer applications for ranges to provide more responsive, cost effective, and adaptive training capability than current training on operational system.												
Accomplishments/Planned Programs Subtotals								7.808	12.312	13.462		
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost	
• OPAF: BA03: Line item # 836770: Spacelift Range System Space	98.068	90.806	69.713	-	69.713	116.307	114.751	106.341	108.243	Continuing	Continuing	

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D. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	<u>FY 2015</u> <u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• OPAF: BA05: Line Item # 86190A: <i>Spares and Repair Parts</i>	2.565	2.617	3.136	-	3.136	-	-	-	-	Continuing	Continuing
Remarks											
E. Acquisition Strategy											
RDT&E efforts focus on future architectures and studies to ensure the best use of investment funding. The SE&I contractor maintains the DoDAF architecture and requirements baseline for Government approval and may perform studies to determine Government options. Limited RDT&E will be applied to the LISC contract when sustaining engineering expertise is needed to finalize Government-approved architectures. The Air Force is increasing small business participation by expanding small business opportunities via the LISC contract. FFRDC technical depth and breadth will be leveraged to ensure all twelve subsystems are compatible with mission rules and do not pose a risk to safe and cost-effective satellite launches.											
F. Performance Metrics											
Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.											

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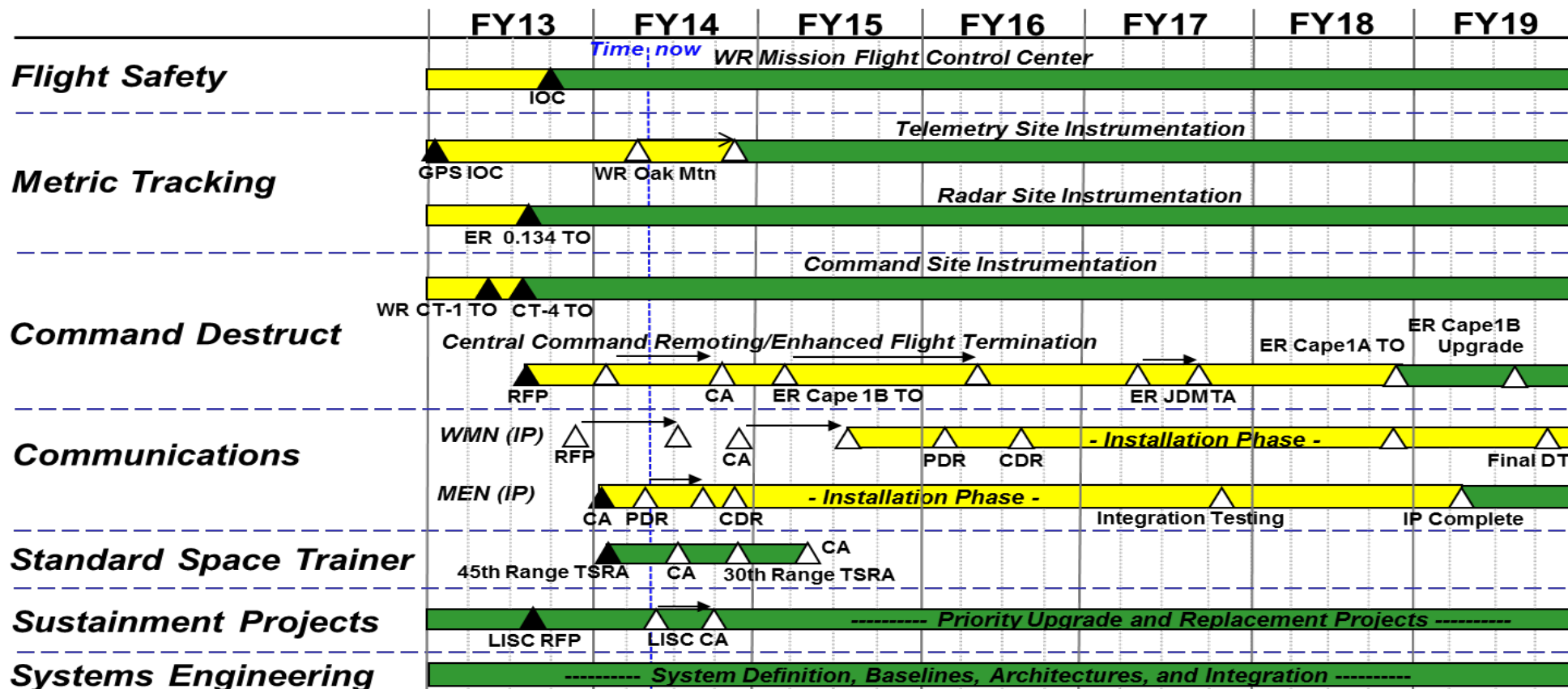
Exhibit R-4, RDT&E Schedule Profile: PB 2015 Air Force

Date: March 2014

Appropriation/Budget Activity
3600 / 7

R-1 Program Element (Number/Name)
PE 0305182F / Spacelift Range System
(SPACE)

Project (Number/Name)
674137 / Launch and Test Range System
(LTRS) Modernization



ER = Eastern Range WR = Western Range PDR = Preliminary Design Review CDR = Critical Design Review RFP = Request for Proposal TO = Ops Turnover CA = Contract Award IOC = Initial Ops Capability FOC = Full Ops Capability CA = Contract Award LISC = LTRS Integrated Support Contract IP = Internet Protocol Inc = Increment RA = Requirements Analysis MEN = Modernization of ER Network WMN = Modernization of WR Network
 [Yellow Bar] Engineering/Integration/Test [Green Bar] Operations/Sustainment ▲ Completed Events △ Planned Events △ Cancelled Events