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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 0207418F / <i>Tactical Airborne Control Systems</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	-	5.582	0.743	3.754	-	3.754	6.041	4.335	3.712	3.782	-	27.949
675234: <i>TACP Support</i>	-	5.582	0.743	3.754	-	3.754	6.041	4.335	3.712	3.782	-	27.949
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-	-	-

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

A. Mission Description and Budget Item Justification

a. The Joint Terminal Control Training and Rehearsal System (JTC TRS) project, under the Tactical Airborne Control System, funds development necessary to provide a Distributed Mission Operations (DMO) capable, high-fidelity simulator for the Joint Terminal Attack Controller (JTAC), Combat Control Team (CCT) and Air Support Operations Center (ASOC). JTC TRS is essential to future upgrade and continuation training and currency control requirements due to an increase in USAF JTAC numbers while current and future available air assets to accomplish training are decreasing. Future JTAC control requirements will exceed the ability of live air to meet, and JTC TRS is the only future capability currently projected to allow USAF JTACs to achieve and maintain minimum required controls for both qualification and proficiency demands. The JTC TRS Project provides research and development to facilitate interoperability with joint and sister Service air-ground simulation using industry standards. JTC TRS will allow JTAC and CCT to perform Close Air Support (CAS), Call-for-Fire (CFF) and Tactical Air Traffic Control (ATC) missions and allow ASOCs to perform Command and Control (C2) missions in a Live/Virtual/Constructive (LVC) environment. Future JTC TRS development will provide the capability to network aircrew full mission trainers and training centers with other trainers including the Personnel Recovery training and rehearsal capability. This development effort will also integrate ASOCs with the Joint Theater Air to Ground Simulation System (JTAGSS) trainer for Joint Fires. The PR capability is envisioned to be a "plug and play" module for the host JTC TRS. The PR capability will provide Para-rescue (PJ) personnel with an immersive LVC environment to plan, train, and rehearse their employment, rescue/recovery, and combat trauma care skills. JTC TRS will host the network connection to conduct distributed training and rehearsal with other Recovery Forces. The simulator will supplement live field training and live tissue training to provide realistic introductory, proficiency, currency, and upgrade training in a simulated battlefield, disaster, or humanitarian relief environment for Air Force PJs.

b. JTAGSS is a continuation of the ASOC simulation trainer initially funded in 2009 and complements the JTC TRS trainer by providing a total air-ground constructive simulation environment for integrated networked training and mission rehearsal capability that will develop JTAC/CCT and ASOC/SOF (Special Operations Forces) C2 (Command and Control) battle staff skills. JTAGSS will provide the ASOC, SOF, and TACP (Tactical Air Control Party) with the vertical and horizontal C2 communications and coordination training and mission rehearsal required for mission effectiveness. JTAGSS is required to train 400 ASOC personnel with limited to no live training opportunities to align with the AF move to using simulation for stand-alone and distributed training. There are insufficient exercises and live training events available to meet mandated readiness requirements. The system will include a secure network connection, a constructive simulation environment generator with sharable databases, computer work stations that have synthetic reflex agent applications for every ASOC/SOF crew position, and an instructor/operator station.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts for systems, both fielded or approved for full rate production, that have been fully validated through formal Operation Utility Evaluation (OUE) and anticipate production funding in the current or subsequent fiscal year.

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B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	5.767	0.743	5.553	-	5.553
Current President's Budget	5.582	0.743	3.754	-	3.754
Total Adjustments	-0.185	-	-1.799	-	-1.799
• Congressional General Reductions	-0.008	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.177	-			
• Other Adjustments	-	-	-1.799	-	-1.799

Change Summary Explanation

FY 13 reduction due to Congressional Markups and Small Business Innovation Research (SBIR)
 FY 14 reduction due to higher DoD priorities

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
<p>Title: JTC TRS Trainer Development</p> <p>Description: Development, test, and evaluation of high-fidelity simulation system for Joint Terminal Attack Controller (JTAC), Combat Control Team (CCT) Assault Zone operations, and Personnel Recovery (PR) training and mission rehearsal.</p> <p>FY 2013 Accomplishments: (U): Initiate development of Increment 1 of JTC TRS trainer. RFP Release 2nd quarter FY13. Contract award for 4th Quarter FY14.</p> <p>FY 2014 Plans: Continue development of Increment 1 of the JTC TRS trainer.</p> <p>FY 2015 Plans: Continue development of Increment 1 of the JTC TRS trainer.</p>	5.482	0.643	3.654
<p>Title: JTAGSS Trainer Development</p> <p>Description: Develops high fidelity simulation system for ASOC/SOF Command and Control System that supports JTAC training. Currently an AFRL program funded by Air Combat Command</p>	0.100	0.100	0.100

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
<i>FY 2013 Accomplishments:</i> Continue development of JTAGSS simulator configuration. <i>FY 2014 Plans:</i> Continue development of JTAGSS simulator configuration. <i>FY 2015 Plans:</i> Continue development of JTAGSS simulator configuration.			
Accomplishments/Planned Programs Subtotals	5.582	0.743	3.754

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: BA 03: Line Item # 837100: <i>Tactical C-E Equipment</i>	7.721	6.968	9.099	-	9.099	8.131	3.723	3.788	3.856	Continuing	Continuing

Remarks

- E. Acquisition Strategy**
- a. The acquisition strategy for the development, production, and sustainment of the fixed configuration of the JTC TRS will be executed as a small business set-aside with an evolutionary acquisition approach using incremental development and priced options for production and sustainment. A feasibility study for a portable version of the JTAC Trainer is planned to be an option on the JTC TRS contract. The acquisition strategy for the Personnel Recovery (Combat Search and Rescue) capability is to be determined.
- b. The acquisition strategy for the JTAGSS trainer will be to field advance technology demonstration units to continue to perform proof of concept and technology validation of mission simulations for all ASOC crew positions including detailed communications planning, asset deconfliction, integration of joint fires, and other critical mission areas required for integrated TACP/ASOC C2 mission success. At the completion of the technology validation, a contract will be competitively awarded to complete JTAGSS development, deployment and integration.

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 0207418F / Tactical Airborne Control
Systems

Project (Number/Name)
675234 / TACP Support

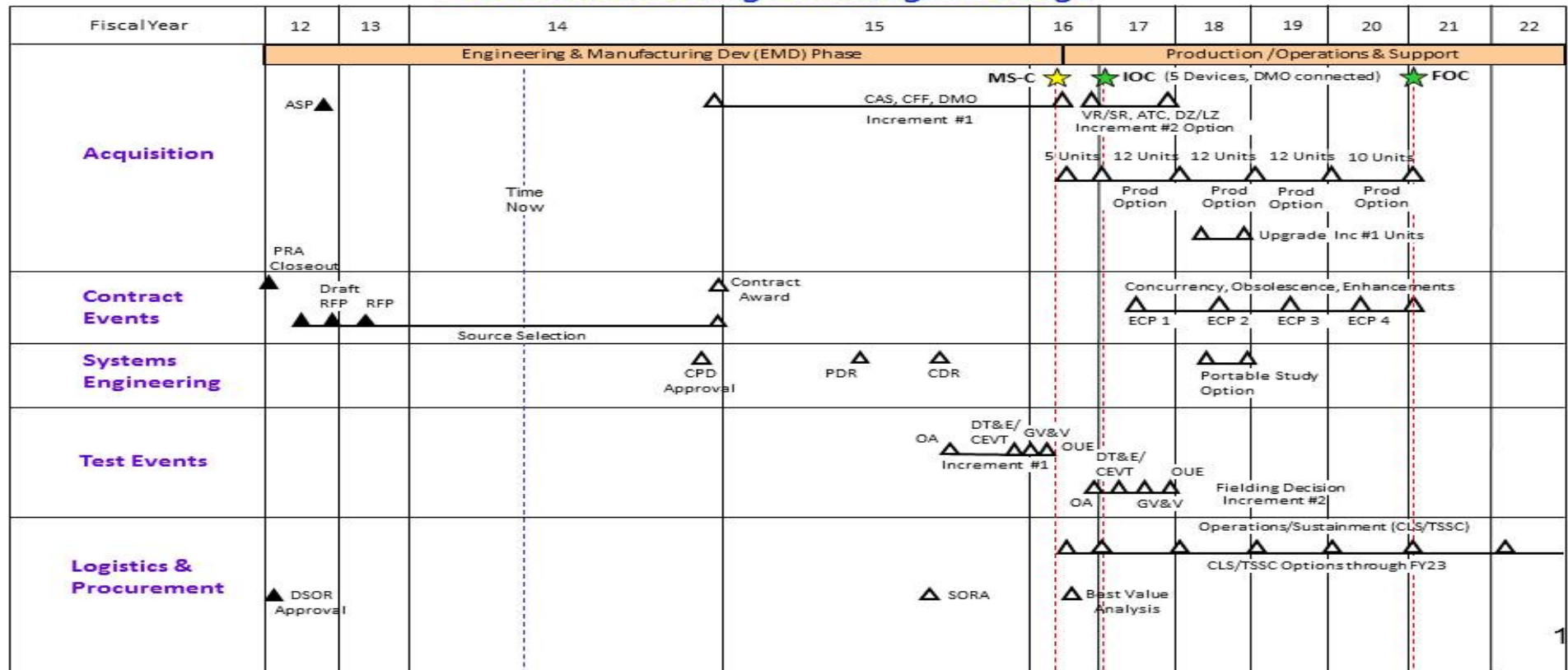


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JTC TRS



AFLCMC... Providing the Warfighter's Edge



As of Feb 14

Appropriation/Budget Activity
3600 / 7

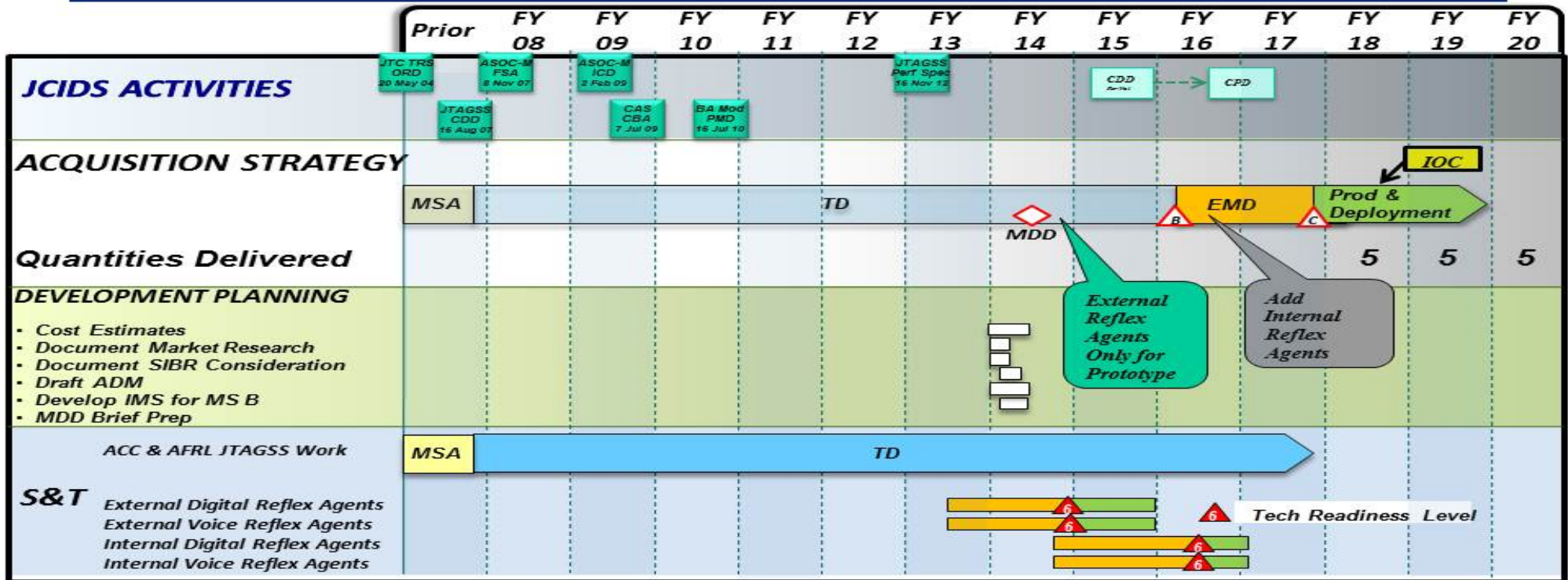
R-1 Program Element (Number/Name)
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JTAGSS Roadmap



Integrity - Service - Excellence