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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Air Force **Date:** February 2016

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 0207133F / <i>F-16 Squadrons</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	-	130.376	166.297	132.795	0.000	132.795	235.894	199.455	140.398	146.203	Continuing	Continuing
672671: <i>F-16 Squadrons</i>	-	130.376	166.297	132.795	0.000	132.795	235.894	199.455	140.398	146.203	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This program, BA 07 PE 0207133F, project 672671, Comm Suite Radio Upgrade (Post Block), is a new start.

A. Mission Description and Budget Item Justification

The F-16 Fighting Falcon is the world's premier fixed-wing, high performance, single engine multi-mission fighter aircraft that comprises 50% of the AF fighter inventory. Operational since 1980, the F-16 has proven itself in combat in a variety of air-to-air and air-to-surface missions, such as, offensive and defensive counter-air, close air support, forward air control, air interdiction (day/night and all-weather) and Suppression of Enemy Air Defenses (SEAD)/destruction of enemy air defenses (DEAD). The F-16 remains the USAF's primary SEAD/DEAD platform. The aircraft has evolved its capabilities by capitalizing upon advancements made in computers, avionics systems, engines, and structures technologies to meet emerging warfighter requirements and combat current and evolving enemy threats. The F-16 has been selected by more than 20 air forces around the world and Foreign Military Sales (FMS) production continues in the 21st century. The F-16 System Program Office continues to develop, integrate, and qualify systems/subsystems to enhance the overall performance of the F-16 weapon system to meet new mission requirements.

Modernization programs include: Operational Flight Program (OFP) development on Block 40/42/50/52 OFPs required to integrate new precision weapons, advanced targeting pods, improved avionics, hardware (HW) and software (SW) mods to meet DoD mandates and keep the F-16, the respective training simulators, and other hardware subsystems current; Legacy Service Life Extension Program (SLEP), which is a two-phased RDT&E effort, includes a Full Scale Durability Test (FSDT) and Engineering, Manufacturing and Development (EMD) to support structural modifications to Block 40/42/50/52 aircraft to increase Certified Service Life (CSL) from 8,000 Equivalent Flight Hours (EFH) to 10,000 EFH (Threshold), or 12,000 EFH (Objective); EMD Hardware/Advanced capability improvements require funding to develop, test, and qualify, weapon systems, aircraft subsystems replaced or modified due to requirements changes, pre-planned product improvements (P3I), Diminishing Manufacturing Sources (DMS) and parts obsolescence; Modular Mission Computer (MMC)/Display Generator Upgrade resolves shortfalls in mission computer memory and throughput brought on by the addition of incremental combat capability and includes Non-Recurring Engineering (NRE), design, development, integration, and ground/flight test for fielding; F-16 Training Simulator updates enable the USAF to exercise/train using the most current F-16 OFP available to all block configurations, to include both aircrew and maintenance trainers; Joint Air-to-Surface Standoff Missile-Extended Range (JASSM-ER) on F-16 Blk 40/42/50/52 aircraft, and includes NRE, test assets, SEEK EAGLE, integration, and flight test; improved satellite communication (SATCOM) radio updates to meet next-gen tactical narrowband SATCOM with better crypto capabilities; and an active electronically scanned array (AESA) radar that offers advanced electronic protection capabilities as well as improved reliability and maintainability on F-16 aircraft that perform the aerospace alert control mission.

This program is in Budget Activity 7, Operational System Development because it includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

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B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	133.105	148.297	141.118	0.000	141.118
Current President's Budget	130.376	166.297	132.795	0.000	132.795
Total Adjustments	-2.729	18.000	-8.323	0.000	-8.323
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	-22.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	40.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-2.728	0.000			
• Other Adjustments	-0.001	0.000	-8.323	0.000	-8.323

Change Summary Explanation

FY15: SBIR Reduction: \$2.728M

FY16: \$40M Congressional Add for AESA Homeland Defense Radar; \$22M Congressional Reduction for OFP M8+ Early To Need

FY17: \$11M reduction due to program rephase of RDT&E funds; \$4.0M RMD add for Comm Suite Radio Upgrade (Post Block); \$1.323M reduction due to non-pay inflation

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

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Title: OFP Updates Blk 40-52 OFP	66.235	55.614	87.541	0.000	87.541
Description: OFP M-tapes are updated continually to integrate new weapons, targeting pods, and improved avionics. M6.5+/M7+ is in Phase III development with M6.5+ common candidates to include Universal Armament Interface (UAI) and Embedded GPS/INS (EGI) updates and M7.1+ candidates to include AIM-9X Block II. The USAF M6.5+ OFP is not intended to field and is the baseline for the 309 SMXG (Hill AFB) developed M7.1+ which will field in FY2017. M7.2+ OFP is in SW design phase and will incorporate DoD mandates. M8+ is in the early stages of planning and will incorporate the MMC upgrade architecture and Display Generator Upgrade. The OFP effort also contains Program Management Administration (PMA) support activities to include travel, office supplies, training courses, Video Teleconferencing (VTC) and support contractors.					
FY 2015 Accomplishments:					
M6.2+ completed Combat Air Force (CAF-wide) installations in December 2015. Continued M7.1+ OFP Developmental Test (DT) efforts. M7.2+ completed Multifunctional Cockpit Review Team (MCRT) #3 for OFP					

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<p>candidate finalization and began design and code of candidate development. Initiated procurement of M7.2+ test assets to meet OFP Mandates.</p> <p>FY 2016 Plans: M7.1+ continues DT and enters dedicated Operational Test (OT) for fielding in FY 2017. M7.2+ continues design and code of selected candidates. The program office will finalize procurement of M7.2+ test assets to meet OFP Mandates. Begin M8+ assessment for incorporating MMC Upgrade architecture and Display Generator Upgrade, continue PMA support activities.</p> <p>FY 2017 Base Plans: M7.1+ completes OT and fields in FY 2017. M7.2+ begins SIL and developmental flight test. Finalize procurement of M7.2+ test assets to meet OFP Mandates. M8+ Conduct Multifunctional Cockpit Review (MCR) of baseline candidates, start SW design and code for rehosting MMC upgrade architecture and Display Generator Upgrade, begin assessment for Design Try Out (DTO) test planning, and initiate procurement of test assets. Continue PMA support activities.</p> <p>FY 2017 OCO Plans: N/A</p>					
<p>Title: Flight Test</p> <p>Description: Development Test and Evaluation (DTE) at Edwards AFB and Development Test/Operational Test (DT/OT) at Eglin AFB including integration test of associated subsystems and weapons as well as maintain test schedule for F-16 Block 40-52 MMC OFPs, weapons integration, and sub-systems to ensure capabilities meet CAF's fielding schedule.</p> <p>FY 2015 Accomplishments: Continued support of DTE Infrastructure and M7.1+ DTE testing.</p> <p>FY 2016 Plans: Continue support of DTE infrastructure. Complete M7+ DT/OT testing, initiate M7.2+ DTO test planning. Support out-of-cycle regression testing.</p> <p>FY 2017 Base Plans: M7.1+ completes OT and fields in FY 2017. Continue support of DTE infrastructure. M7.2+ begins developmental flight test, initiate M8+ DTO test planning. Support out-of-cycle regression testing.</p> <p>FY 2017 OCO Plans:</p>	19.647	17.600	17.836	0.000	17.836

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
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N/A					
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<p>Title: Legacy Service Life Extension Program (SLEP) Structures</p> <p>Description: F-16 Legacy Service Life Extension Program (SLEP): A two-phased RDT&E effort which includes Full Scale Durability Test (FSDT) and Engineering, Manufacturing and Development (EMD) to support structural modifications to Block 40/42/50/52 F-16 aircraft to increase service life. FSDT is required to prove finite element models and to develop the airworthiness certification basis to extend the current Certified Service Life from 8,000 Equivalent Flight Hours (EFH) to 10,000 EFH (Threshold), or 12,000 EFH (Objective). SLEP EMD develops the engineering solutions necessary to resolve the life-limiting structural issues defined in FSDT and develop the airworthiness certification recommendation.</p> <p>FY 2015 Accomplishments: Began FSDT aircraft teardown and inspection, risk reduction and final requirements definition, Critical Design Review (CDR) 2 completed June 2015. Full Scale Durability Testing completed July 2015. EMD activities finalized engineering designs and analysis of kits, tooling, TCTOs, and procurement of Kit Proof HW. FSDT completion enables for the release of the preliminary Technical Data Package to support initial production acquisition activities.</p> <p>FY 2016 Plans: Receive final FSDT tear-down report and submit airworthiness Compliance Report for Kit Proof aircraft March 2016. Complete Milestone B in April 2016 and initiate Kit Proof in July 2016.</p> <p>FY 2017 Base Plans: N/A</p> <p>FY 2017 OCO Plans: N/A</p>	16.002	27.977	0.000	0.000	0.000
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<p>Title: EMD HW/Advanced Capabilities Improvements</p> <p>Description: Funding to develop, test, and qualify aircraft weapons systems including F-16 subsystems replaced or modified due to requirements changes, P3I, and/or DMS and parts obsolescence.</p> <p>FY 2015 Accomplishments:</p>	0.500	0.200	0.200	0.000	0.200
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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
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<p>Continued support to develop, test, and qualify aircraft weapons systems including F-16 subsystems replaced or modified due to requirements changes, P3I, DMS and/or parts obsolescence.</p> <p>FY 2016 Plans: Continue support to develop, test, and qualify aircraft weapons systems including F-16 subsystems replaced or modified due to requirements changes, P3I, DMS and/or parts obsolescence.</p> <p>FY 2017 Base Plans: Continue support to develop, test, and qualify aircraft weapons systems including F-16 subsystems replaced or modified due to requirements changes, P3I, DMS and/or parts obsolescence.</p> <p>FY 2017 OCO Plans: N/A</p>					
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<p>Title: MMC Upgrade / Display Generator Upgrade</p> <p>Description: The MMC upgrade resolves shortfalls in mission computer memory and throughput. Funding includes NRE, design, development, integration, and ground/flight test for fielding with the M8+ OFP. The addition of an Ethernet High Speed Data Network (HSDN) facilitates future increments of combat capability with the OFP (e.g., digital targeting pod video). The Display Generator Upgrade allows a fully integrated Multifunction Display solution including Hands On Throttle and Stick (HOTAS) integration with Sensor of Interest (SOI), format swapping and high definition video on 4x4 displays; provides improved display formats during dynamic maneuvers; resolves symbol freezing issues due to throughput constraints; and provides a sustainable approach to address growing DMS concerns with the current Programmable Display Generator.</p> <p>FY 2015 Accomplishments: Initiated NRE for HSDN, began contract RFP activities for NRE, MMC and Display Generator Upgrade asset procurement, design, development, integration, and ground/flight test for fielding with the M8+ OFP.</p> <p>FY 2016 Plans: Continue NRE activities for HSDN, continue contracting activities for NRE, MMC and Display Generator Upgrade asset procurement. RFP for MMC released October 2015 and RFP for Display Generator released in November 2015. Finalize contract award for both programs, begin NRE & initiate asset procurement.</p> <p>FY 2017 Base Plans:</p>	19.992	18.356	16.782	0.000	16.782
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C. Accomplishments/Planned Programs (\$ in Millions)					
	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Continue NRE activities for HSDN, MMC and Display Generator Upgrade for design, development, integration, and ground/flight test for fielding with the M8+ OFP.					
FY 2017 OCO Plans: N/A					
Title: JASSM-ER					
Description: Integrates JASSM-ER on F-16 Blk 40/42/50/52 aircraft, including NRE, SEEK EAGLE, test assets, integration, and flight test. This capability will be fielded with M7.2+.					
FY 2015 Accomplishments: Continued NRE and procure test assets for integration of JASSM-ER capability on F-16 Blk 40/42/50/52 aircraft.					
FY 2016 Plans: Continue NRE for integration of JASSM-ER capability on F-16 Blk 40/42/50/52 aircraft.					
FY 2017 Base Plans: Finalize NRE for integration of JASSM-ER capability on F-16 Blk 40/42/50/52 aircraft.					
FY 2017 OCO Plans: N/A					
	8.000	4.500	4.000	0.000	4.000
Title: Simulator Trainers					
Description: Enables the USAF to exercise and train using the latest F-16 capabilities available to Block 40/42/50/52 aircraft configurations, while reducing the overall cost of maintenance and aircrew training. In order to maintain concurrency with the aircraft OFP, this funding supports development, test, and integration of simulator upgrades.					
FY 2015 Accomplishments: N/A					
FY 2016 Plans: Begin contract efforts for managing and maintaining F-16 simulator trainers, to include tech order development. This funding also supports development, test, and integration of simulator upgrades, to include new aircraft OFPs.					
FY 2017 Base Plans:					
	0.000	2.050	2.475	0.000	2.475

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C. Accomplishments/Planned Programs (\$ in Millions)						
		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Continue contract efforts for managing and maintaining F-16 simulator trainers, to include tech order development. This funding also supports development, test, and integration of simulator upgrades, to include new aircraft OFPs. FY 2017 OCO Plans: N/A						
Title: HLD AESA Radars (JUON) Description: This effort is a USNORTHCOM Joint Urgent Operational Need (JUON) for F-16 active electronically scanned array (AESA) radars. It provides an upgrade from the current APG-68 system to an AESA radar that offers advanced electronic protection capabilities as well as improved reliability and maintainability to support the Aerospace Control Alert (ACA) mission for Homeland Defense (HLD). FY 2015 Accomplishments: N/A FY 2016 Plans: Initiate contract efforts for source selection on the active electronically scanned array (AESA) radar, contract award expected late 2016. FY 2017 Base Plans: N/A FY 2017 OCO Plans: N/A		0.000	40.000	0.000	0.000	0.000
Title: Comm Suite Radio Upgrade (Post Block) Description: Provides updates to the ARC-210 satellite communication (SATCOM) radios to with improved capabilities, including SATURN, MUOS, and improved crypto. FY 2015 Accomplishments: N/A FY 2016 Plans: N/A FY 2017 Base Plans:		0.000	0.000	3.961	0.000	3.961

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Initiate contract effort for NRE, Integration and test on the F-16.					
FY 2017 OCO Plans: N/A					
Accomplishments/Planned Programs Subtotals	130.376	166.297	132.795	0.000	132.795

D. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017 Base</u>	<u>FY 2017 OCO</u>	<u>FY 2017 Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• APAF: BA05: Line Item # F01600: <i>F-16 Aircraft Modifications</i>	9.042	10.134	97.331	0.000	97.331	155.264	256.513	320.251	298.085	Continuing	Continuing
• APAF: BA07: Line Item # F0160P: <i>F-16 Post Production Support</i>	9.994	8.969	15.155	0.000	15.155	15.459	16.431	19.129	19.418	Continuing	Continuing
• APAF: BA06: Line Item # F01600: <i>F-16 Initial Spares</i>	0.090	0.472	2.059	0.000	2.059	2.453	6.135	9.794	9.975	Continuing	Continuing

Remarks

E. Acquisition Strategy

The F-16 Program acquisition strategy is to improve capability, maintenance and safety mods through OFP development/flight test, enhanced weapons integration, structural upgrades, and simulator concurrency.

OFP software will be continually updated on a 3-year cycle to bring new capabilities to the warfighter. The current OFP development effort (M7.1+) is the first software tape to be completely developed with organic software development at 309 SMXG (Hill AFB). Subsequent tapes will incorporate DoD approved mandates (Automatic Dependent Surveillance-Broadcast (ADS-B), Multifunctional Information Distribution System (MIDS), B61-12) and the MMC/PDG architecture.

The Legacy SLEP program completed FSĐT to determine the engineering solutions necessary to resolve life-limiting structural issues, and to feed the EMD effort to develop mod kits and airworthiness certification recommendation. Currently performing aircraft teardown and structural analysis, and begins kit proof in FY 2016.

The EMD HW/Advanced capability improvements will develop, test, and qualify aircraft weapons systems, including subsystems, replaced/modified due to requirements changes, P3I and DMS/parts obsolescence.

Contract types are Time and Material, Cost Plus Incentive Fee, Cost Plus Fixed Fee and Firm Fixed Price.

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The acquisition strategy for Phase 1 of the USNORTHCOM JUON includes the development, testing, and USG integration of an AESA radar to meet the limited JUON requirements of improved air-air detect and track. This phase includes the procurement of five (5) EMD assets with support equipment.

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-3, RDT&E Project Cost Analysis: PB 2017 Air Force **Date:** February 2016

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Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
OFP Updates Blk 40-52	Various	Various : Various	-	58.031	Nov 2014	47.439	Nov 2015	79.261	Nov 2016	0.000		79.261	Continuing	Continuing	TBD
Service Life Extension Program (SLEP) Structures	Various	Various : Various	-	16.002	Feb 2015	27.977	Nov 2015	0.000		0.000		0.000	0.000	43.979	TBD
MMC Upgrade / Display Generator Upgrade	Various	Various : Various	-	19.992	Feb 2015	18.356	Sep 2016	16.782	Mar 2017	0.000		16.782	Continuing	Continuing	TBD
JASSM-ER	Various	Various : Various	-	8.000	Mar 2015	4.500	Mar 2016	4.000	Mar 2017	0.000		4.000	0.000	16.500	24.500
EMD HW / Advanced Capabilities	Various	Various : Various	-	0.500	Aug 2015	0.200	Aug 2016	0.200	Aug 2017	0.000		0.200	Continuing	Continuing	TBD
Simulator Trainers	Various	Various : Various	-	0.000		2.050	Mar 2016	2.475	Mar 2016	0.000		2.475	Continuing	Continuing	TBD
HLD AESA Radars (JUON)	Various	Various : Various	-	0.000		40.000	Nov 2016	0.000		0.000		0.000	Continuing	Continuing	-
Comm Suite Radio Upgrade (Post Block)	Various	Varuious : Various	-	0.000		0.000		3.961	Jan 2017	0.000		3.961	Continuing	Continuing	-
Subtotal			-	102.525		140.522		106.679		0.000		106.679	-	-	-

Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Subtotal			-	-		-		-		-		-	-	-	-

Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Flight Tests	Various	Various : Various	-	19.647	Nov 2014	17.600	Nov 2015	17.836	Nov 2016	0.000		17.836	Continuing	Continuing	TBD
Subtotal			-	19.647		17.600		17.836		0.000		17.836	-	-	-

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Air Force **Date:** February 2016

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	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
FSDT complete				■																								
SLEP MS B							■																					
MMC Upgrade / Display Generator Upgrade HW MS B								■																				
MMC Upgrade / Display Generator Upgrade Contract Award(s)								■																				
Begin SLEP Kit Proof								■																				
M7.1+ OFP Field											■																	
M8+ OFP Multifunctional Cockpit Review												■																
M7.2+ OFP Field																■												
MMC Upgrade / Display Generator Upgrade DT Start																								■				
M9+ OFP System Functional Review																											■	

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Air Force **Date:** February 2016

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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
FSDT complete	4	2015	4	2015
SLEP MS B	3	2016	3	2016
MMC Upgrade / Display Generator Upgrade HW MS B	4	2016	4	2016
MMC Upgrade / Display Generator Upgrade Contract Award(s)	4	2016	4	2016
Begin SLEP Kit Proof	4	2016	4	2016
M7.1+ OFP Field	1	2017	1	2017
M8+ OFP Multifunctional Cockpit Review	4	2017	4	2017
M7.2+ OFP Field	2	2019	2	2019
MMC Upgrade / Display Generator Upgrade DT Start	3	2020	3	2020
M9+ OFP System Functional Review	4	2020	4	2020

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