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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 / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0605221F / KC-46
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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	4,736.501	763.224	592.364	261.724	0.000	261.724	21.175	4.321	0.000	0.000	0.000	6,379.309
655271: <i>KC-46 RDT&E</i>	4,736.501	763.224	592.364	261.724	0.000	261.724	21.175	4.321	0.000	0.000	0.000	6,379.309
Quantity of RDT&E Articles	4	-	-	-	-	-	-	-	-	-	-	

Program MDAP/MAIS Code: 387

A. Mission Description and Budget Item Justification

Replacement of the legacy tanker fleet will take place in three stages, known as the KC-X (now the KC-46), KC-Y, and KC-Z. The initial Tanker Replacement increment of KC46s will replace roughly a third of the current capability with the purchase of 179 aircraft. The Air Force completed an Analysis of Alternatives (AoA) in Apr 2006 to determine the most appropriate strategy to recapitalize the aging fleet of aerial refueling aircraft. Based on this analysis, the Air Force concluded a strategy of full and open competition to select a commercial derivative replacement tanker aircraft would result in a best value tanker contract. To initiate the first phase of the tanker replacement, the KC-46 program released a final Request for Proposal (RFP) on 24 Feb 2010, and entered source selection on 9 Jul 2010. The KC-46 program held a Milestone B (MS B) Defense Acquisition Board (DAB) on 23 Feb 2011, received approval to enter Engineering and Manufacturing Development (EMD) from the Undersecretary of Defense (Acquisition, Technology and Logistics) (USD(AT&L)) on 24 Feb 2011, and awarded the KC-46 EMD contract to Boeing on 24 Feb 2011 to develop and procure 179 KC-46 aircraft. The program is procuring four RDT&E aircraft for integration and demonstration of capability which will ultimately be operationally fielded. During production, the program plans to procure 175 aircraft throughout 13 lots. KC-46 funding also supports Training Systems, Direct Mission Support, Program Management Administration (PMA) activities, government developmental and operational test support, mission planning capability development, various studies and analyses, and KC-Y/KC-Z planning activities.

The KC-46 will provide the capability to fuel joint and coalition receivers via a boom or drogue system on every mission and will also augment the airlift fleet with cargo, passenger, and aeromedical evacuation capabilities. The KC-46 will operate in day/night and adverse weather conditions to enable deployment, employment, sustainment, and redeployment of U.S. joint, allied, and coalition forces. The KC-46 will have communication, navigation, and surveillance equipment for worldwide operations; the capability to perform missions in chemical and biological environments; the ability to operate in up to medium threat environments with self-defense/protection (both active and passive) capabilities; and the necessary battlespace awareness to mitigate survivability threats.

The Aircrew Training System (ATS) and the Maintenance Training System (MTS) are being developed and procured using KC-46 funding. The ATS entered source selection on 31 May 2012, and a contract was awarded on 1 May 2013 to FlightSafety Services Corporation. The ATS contract will provide Aircrew Training Devices (ATDs), to include Weapon System Trainers (WSTs), Boom Operator Trainers (BOTs), Fuselage Trainers (FuTs), and Part-Task Trainers (PTTs) at each Main Operating Base (MOB) and the Formal Training Unit (FTU). The ATS contract will also support Distributed Mission Operations (DMO), provide aircrew instruction, develop courseware, provide logistics support, acquire a technical data package to support future competition efforts, and manage training device concurrency with the aircraft. The MTS entered source selection on 8 Jun 2015, with an anticipated contract award date of the third quarter of FY2016, based upon ongoing source selection activities. The MTS acquisition focuses on designing, developing, testing, producing, and fielding an optimized training system for KC-46 maintainers by integrating various forms of training media and Maintenance Training Devices (MTDs) into a "blended" solution. This blended solution includes the appropriate mix of hardware and

UNCLASSIFIED

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software, "high-fidelity" Augmented Hardware Training Devices (AHTDs), PTTs, Interactive Multimedia Instruction (IMI), and emerging technologies to meet validated Air Mobility Command (AMC) maintenance training requirements.

This program is in Budget Activity 05, System Development and Demonstration (SDD), because it received MS B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full-rate production.

The FY2017 funding request was reduced by \$52.609 million to account for a revised risk assessment and deflation.

B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	786.437	602.364	314.333	0.000	314.333
Current President's Budget	763.224	592.364	261.724	0.000	261.724
Total Adjustments	-23.213	-10.000	-52.609	0.000	-52.609
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	-10.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-23.213	0.000			
• Other Adjustments	0.000	0.000	-52.609	0.000	-52.609

Change Summary Explanation

- The FY2015 funding was reduced by \$23.213 million for Small Business Innovative Research.
- The FY2016 funding was reduced by \$10 million due to a congressionally directed reduction for "program efficiencies."
- The FY2017 funding request was reduced by \$52.609 million to account for a revised risk assessment and deflation.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
Title: KC-46 Aircraft Product Development	614.390	247.504	72.071
Description: To begin re-capitalizing the aging tanker fleet, EMD activities will be conducted to include the following types of activities: develop a commercial 767-2C aircraft upon which the KC-46 is based; develop the KC-46 military capability and integrate it into the aircraft; build four EMD aircraft; procure live fire assets; procure required Government Furnished Equipment (GFE); procure simulator and maintenance data; develop technical manuals and Type 1 training; and conduct development and operational testing.			
FY 2015 Accomplishments:			

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2015	FY 2016	FY 2017
<p>Successfully accomplished 767-2C First Flight and KC-46 First Flight. Continued aircraft manufacturing and certification/qualification ground and flight testing.</p> <p>FY 2016 Plans: Continue aircraft manufacturing and certification/qualification ground and flight testing.</p> <p>FY 2017 Plans: Complete certification/qualification ground and flight testing, support start of Initial Operational Test and Evaluation (IOT&E), and complete EMD aircraft.</p>				
<p>Title: KC-46 Trainer Product Development - Aircrew Training System (ATS)</p> <p>Description: To begin re-capitalizing the aging tanker fleet, trainer development activities will be conducted to include the following types of activities: development and procurement of ATDs, courseware, and associated support equipment.</p> <p>FY 2015 Accomplishments: Completed development of the visual database for ATS Increment 1. Conducted subsystem Critical Design Reviews (CDRs) and continued development activities associated with data-mature, low-risk subsystems for the ATDs.</p> <p>FY 2016 Plans: Complete subsystem and final system level CDRs for Increment 1. Complete hardware/software integration for all ATDs. Complete Increment 1 Computer-Based Training (CBT)/Instructor-Based Training (IBT) courseware development. Begin delivery of courseware and first article ATDs. Commence Government Acceptance Testing.</p> <p>FY 2017 Plans: Complete in-plant and on-site testing of ATDs. Conduct simulator validation of ATDs at Altus AFB and McConnell AFB. Complete Small Group Try-Outs (SGTOs) and System Level Formative Evaluation (SLFE). Achieve Ready for Training (RFT) at Altus and McConnell Air Force Bases (AFBs).</p>		26.671	8.606	3.405
<p>Title: KC-46 Trainer Product Development - Maintenance Training System (MTS)</p> <p>Description: To begin re-capitalizing the aging tanker fleet, trainer development activities will be conducted to include the following types of activities: development and procurement of MTDs, courseware, and associated support equipment.</p> <p>FY 2015 Accomplishments:</p>		27.000	180.888	4.087

UNCLASSIFIED

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2015	FY 2016	FY 2017
<p>Completed market research activities and concluded the requirements definition process. Obtained Acquisition Strategy Panel (ASP) approval and Business Clearance to move into the RFP release process. Initiated source selection activities associated with the MTS.</p> <p>FY 2016 Plans: Complete source selection and award MTS EMD contract. Commence activities associated with MTS development.</p> <p>FY 2017 Plans: Continue activities associated with MTS development. Conduct Preliminary Design Review (PDR), CDR, and in-plant test activities. Initiate on-site installation and testing of EMD assets at the first MOB.</p>				
<p>Title: KC-46 Support</p> <p>Description: Development, integration, and demonstration of the KC-46 mission planning capability. In addition, studies and analysis to support planning activities for future efficiency initiatives, business case analyses, KC-Y and KC-Z planning, and miscellaneous program office support and planning. Also includes requirements such as travel, office supplies, training courses, and service contracts.</p> <p>FY 2015 Accomplishments: Completed Phase II development of the Mission Planning Environment (MPE). Completed Phase II Formal Qualification Test (FQT). Began Development Testing (DT) on Phase II software. Started MPE Phase III development.</p> <p>FY 2016 Plans: Complete FQT on the Phase III MPE for use in KC-46 IOT&E. Continue program support.</p> <p>FY 2017 Plans: Complete Phase III MPE support to IOT&E. Continue program support.</p>		33.712	23.636	25.249
<p>Title: KC-46 Test & Evaluation</p> <p>Description: To begin re-capitalizing the aging tanker fleet, Test & Evaluation (T&E) activities will be conducted to include the following types of activities: Development Test & Evaluation, Operational Test & Evaluation, Tanker Qualification, Receiver Certifications, Live Fire Test & Evaluation, Federal Aviation Administration (FAA) support, and other test planning and organizational support.</p> <p>FY 2015 Accomplishments:</p>		61.451	131.730	156.912

UNCLASSIFIED

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
Conducted 767-2C First Flight and KC-46 First Flight. Started Ground and Flight Integrated Test. Continued Live Fire Testing and other T&E planning activities. Initiated Operational Assessment-2 (OA-2) supporting MS C.			
FY 2016 Plans: Continue Ground and Flight Integrated Test and Live Fire Testing. Continue T&E planning activities, including preparing for IOT&E. The KC-46 program plans to utilize a combination of EMD and Low Rate Initial Production (LRIP) aircraft for DT and IOT&E. Start aerial refueling tanker-receiver certification.			
FY 2017 Plans: Complete Ground and Flight Integrated Test and Live Fire Testing. Complete T&E planning activities and preparations for IOT&E. Begin IOT&E. Continue aerial refueling tanker-receiver certification.			
Accomplishments/Planned Programs Subtotals	763.224	592.364	261.724

D. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u> <u>Base</u>	<u>FY 2017</u> <u>OCO</u>	<u>FY 2017</u> <u>Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• APAF: BA02: Line Item	1,573.185	2,350.601	2,884.591	0.000	2,884.591	3,043.448	3,134.092	3,133.118	3,190.866	18,505.297	37,824.698
#KC046A: KC-46A Tanker											
• APAF:BA06:Line Item	0.000	52.965	172.183	0.000	172.183	107.356	82.112	99.997	101.841	440.904	1,057.358
#000999 Init...: KC-46A Tanker											

Remarks

E. Acquisition Strategy

The KC-46 program acquisition strategy is to procure an existing commercial, FAA certified aircraft modified to meet USAF requirements. The KC-46 program released a final RFP on 24 Feb 2010, and entered source selection on 9 Jul 2010. The KC-46 program held a MS B DAB on 23 Feb 2011, received approval to enter EMD from the USD(AT&L) on 24 Feb 2011, and awarded the KC-46 contract to Boeing on 24 Feb 2011 to develop and procure 179 KC-46 aircraft. The KC-46 contract procurement was conducted via a full and open competition per Federal Acquisition Regulation (FAR) Part 15, and resulted in a FY2011 EMD Fixed Price Incentive Firm (FPIF) contract. The EMD phase will develop, build, and test four KC-46 aircraft, and will qualify the KC-46 as a tanker and certify pairings with receiver aircraft.

The MS B Acquisition Strategy planned for two LRIP lots followed by 11 Full Rate Production (FRP) lots for a total aircraft procurement of 175 Production aircraft. An update to the Acquisition Strategy is in process to support Milestone C (MS C) plans for three LRIP lots and ten FRP lots with the total aircraft buy remaining at 175 Production aircraft.

UNCLASSIFIED

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Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force</i> / BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0605221F / KC-46	
<p>Production will begin with two Firm Fixed Price (FFP) and one Not to Exceed (NTE) LRIP options (LRIP-1 Qty 7, LRIP-2 Qty 12, & LRIP-3 Qty 15) followed by 10 FRP options [via NTE values + Economic Price Adjustment (EPA)]. The LRIP options will be exercised following a successful MS C. The FRP options will be exercised following successful completion of IOT&E.</p> <p>The ATS acquisition strategy is to provide ATDs, and associated support structure, to each MOB and the FTU. The ATS entered source selection on 31 May 2012, and a contract was awarded on 1 May 2013 to FlightSafety Services Corporation. The ATS contract procurement was conducted via a full and open competition per FAR Part 15, and resulted in an FY2013 EMD FPIF contract. The ATS EMD phase will develop and procure ATDs; and will be supported with courseware, Training System Support Center, the technical data package, and support equipment to ensure system availability and concurrency with the aircraft. The ATS initial production options were exercised in Aug 2015. The MTS acquisition strategy is to acquire MTDs, and associated support structure, for the two AMC active duty Regional Maintenance Training Facilities. The MTS entered source selection on 8 Jun 2015, with an anticipated contract award date of the third quarter of FY2016 based upon ongoing source selection activities. The MTS procurement will be conducted via a full and open competition, per FAR Part 15, and will result in an EMD FFP contract. The MTS EMD phase will develop and procure MTDs; and will be supported with courseware, Training System Support Center, the technical data package, and support equipment to ensure system availability and concurrency with the aircraft.</p> <p>Based on market research and a cost effectiveness analysis, the engines were procured as Contractor Furnished Equipment (CFE) for EMD. The government (AFLCMC Propulsion Division [AFLCMC/LPA]) completed an updated market research and cost effectiveness analysis dated 7 Aug 2012. Based on the updated market analysis and recommendation, the government intends to continue to procure engines from Boeing, but reserves the right to reconsider the procurement of engines if significant changes occur to the aircraft contract and/or if differential pricing is offered.</p> <p>The KC-46 program is responsible for the development, testing, and production of a drogue-equipped, wing-mounted refueling system to meet Capability Development Document (CDD) thresholds and objectives for simultaneous refueling of two probe-equipped receivers. The system can be installed or removed from the KC-46 as mission needs dictate.</p> <p>The long-term support concept for the KC-46 is organic two-level maintenance (2LM): organization level (O-level) and depot level (D-level). For the purposes of this program, all maintenance other than O-level shall be referred to as D-level. The product support strategy will initially employ Interim Contractor Support (ICS) before transitioning to a 100% organically-managed maintenance and supply support capability. Performance Based Logistics (PBL) solutions will be evaluated during EMD as viable approaches to facilitate the transition.</p> <p>This acquisition strategy requires sufficient aircraft to be designed, tested, and delivered to meet a Required Assets Available (RAA) date of 78 months after contract award. The acquisition strategy defines RAA as 18 aircraft meeting final product baseline with all required training and support in place. Initial Operational Capability (IOC) will be attained when the AMC/CC determines the unit is operationally war ready.</p> <p>F. Performance Metrics</p> <p>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.</p>		

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

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0605221F / KC-46	Project (Number/Name) 655271 / KC-46 RDT&E
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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			
KC-46A aircraft non-recurring development, integration, and testing; 4 RDT&E tanker aircraft; and support	C/FPIF	The Boeing Company : Seattle, WA	4,524.086	614.391	Mar 2015	247.505	Mar 2016	72.071	Mar 2017	0.000		72.071	12.224	5,470.277	5,473.305
KC-46A Aircrew Training System	C/FPIF	FlightSafety Services Corp. : Centennial, CO	59.594	26.671	Sep 2015	8.606	Feb 2016	3.405	Dec 2016	0.000		3.405	8.440	106.716	106.716
KC-46A Maintenance Training System	C/FFP	TBD : TBD	0.000	27.000	Jun 2016	180.888	Jul 2016	4.087	Dec 2016	0.000		4.087	0.000	211.975	-
Subtotal			4,583.680	668.062		436.999		79.563		0.000		79.563	20.664	5,788.968	-

Remarks
 The KC-46 EMD contract was awarded 24 Feb 2011. The contract ceiling price of \$4.9B is the government's maximum financial liability on the prime contract. The "Total Cost" value represents the MS B Service Cost Position (SCP), which accounts for the ceiling price of the contract plus the financial and schedule risk of potential design changes for the KC-46 aircraft.

 The MTS contract award is an estimated date.

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			
KC-46A studies and analysis associated with the development, integration, and demonstration of KC-46 capability & future planning	Various	Various : Various	32.097	12.710	Oct 2014	5.561	Oct 2015	15.364	Oct 2016	0.000		15.364	1.290	67.022	-
Subtotal			32.097	12.710		5.561		15.364		0.000		15.364	1.290	67.022	-

Remarks
 These contracts are on an as needed basis, with various contract types and performing activities.

UNCLASSIFIED

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

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0605221F / KC-46	Project (Number/Name) 655271 / KC-46 RDT&E
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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			
KC-46A testing and planning support of development & operational test, FAA & military certification, and aircraft qualification activities	Various	Various : Various	59.759	61.451	Oct 2014	131.730	Oct 2015	156.912	Oct 2016	0.000		156.912	0.000	409.852	-
Subtotal			59.759	61.451		131.730		156.912		0.000		156.912	0.000	409.852	-

Remarks
Integrated testing and planning activities are performed by government organizations, with some contractor technical subject matter experts and teaming with the prime contractor.

Management Services (\$ 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			
KC-46A Program Management Administration - Program A&AS Support	C/FFP	US Falcon : Dayton, OH	34.809	12.890	Jan 2015	6.602	Jan 2016	6.090	Jan 2017	0.000		6.090	2.066	62.457	-
KC-46A Program Management Administration - Trainer A&AS Support	C/CPFF	HX5 : Fort Walton Beach, FL	1.800	3.914	Dec 2014	4.062	Jan 2016	2.095	Jan 2017	0.000		2.095	0.753	12.624	-
KC-46A Program Management Administration - Other	Various	KC-46 Program Office : Dayton, W-P AFB, OH	24.356	4.197	Oct 2014	7.410	Oct 2015	1.700	Oct 2016	0.000		1.700	0.723	38.386	-
Subtotal			60.965	21.001		18.074		9.885		0.000		9.885	3.542	113.467	-

Remarks
Two Advisory and Assistance (A&AS) contracts over \$1M. Other PMA funding includes, but is not limited to, travel, supplies, and training.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force								Date: February 2016			
Appropriation/Budget Activity 3600 / 5				R-1 Program Element (Number/Name) PE 0605221F / KC-46				Project (Number/Name) 655271 / KC-46 RDT&E			
	Prior Years	FY 2015		FY 2016		FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	4,736.501	763.224		592.364		261.724	0.000	261.724	25.496	6,379.309	-

Remarks

UNCLASSIFIED

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

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0605221F / KC-46	Project (Number/Name) 655271 / KC-46 RDT&E
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
EMD: KC-46 Aircraft	1	2015	3	2018
Developmental Test & Evaluation	1	2015	2	2017
767-2C First Flight	1	2015	1	2015
Tanker First Flight	4	2015	4	2015
Operational Assessment-2 (OA-2)	1	2015	2	2016
Receiver Certification	1	2016	3	2018
Initial Operational Test & Evaluation	3	2017	1	2018
Milestone C	3	2016	3	2016
Low Rate Initial Production - Lot 1	3	2016	3	2017
Low Rate Initial Production - Lot 2	3	2016	1	2018
Low Rate Initial Production - Lot 3	2	2017	4	2018
Full Rate Production - Lot 4	2	2018	3	2019
Support Equipment Analysis	1	2015	3	2016
Provisioning	1	2015	2	2018
Depot Maintenance Inter-servicing (DMI), Source of Repair Assignment Process (SORAP), Activation Planning & FAA Certifications	1	2015	2	2020
Aircrew Training System Development & Updates	1	2015	4	2019
Maintenance Training System Development & Updates	3	2016	2	2019

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