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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Air Force										Date: February 2015		
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 0401132F / C-130J Program							
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	187.908	22.443	26.715	31.010	-	31.010	26.390	12.853	7.146	0.665	31.072	346.202
675061: C-130J	185.578	20.343	25.026	31.010	-	31.010	26.390	12.853	7.146	0.665	31.072	340.083
675062: C-130J TRAINERS	2.330	2.100	1.689	-	-	-	-	-	-	-	-	6.119
Program MDAP/MAIS Code: 220												
<u>A. Mission Description and Budget Item Justification</u> The C-130J is a medium-sized transport aircraft capable of performing a variety of combat delivery (tactical airlift) operations across a broad range of mission environments. The C-130J aircraft, with its extended (by 15 feet) fuselage, provides additional cargo carrying capacity for the USAF combat delivery mission compared with legacy C-130E/H and the C-130J (short). Special mission variants of the C-130J conduct airborne psychological operations (EC-130J), weather reconnaissance (WC-130J), search and rescue (HC-130J), and special operations (MC-130J and AC-130J). All aircraft variants must be capable of worldwide operations. This program provides RDT&E funding for required capabilities that are grouped as "Block" upgrades or "Capability" updates. Currently, Block 7.0/8.1 and Capability Management Updates (CMUs) add capabilities to address Communication, Navigation, Surveillance, and Air Traffic Management (CNS/ATM) requirements. All are collaborative efforts between Seven Nations. Content/requirements for block modifications is documented in International Program Directives (IPDs) as determined in the Cooperative Systems and Software Upgrade Requirements Management (COSSURM) process. The HC/MC Recap Program will integrate the common-core capabilities developed under this program into the HC-130J, MC-130J and AC-130J. This program is in Budget Activity 7, Operational System Development because this budget activity 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.												

UNCLASSIFIED

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Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development		PE 0401132F I C-130J Program			
B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	22.443	26.715	31.216	-	31.216
Current President's Budget	22.443	26.715	31.010	-	31.010
Total Adjustments	-	-	-0.206	-	-0.206
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-	-	-0.206	-	-0.206

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2016 Air Force										Date: February 2015		
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0401132F / C-130J Program				Project (Number/Name) 675061 / C-130J			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
675061: C-130J	185.578	20.343	25.026	31.010	-	31.010	26.390	12.853	7.146	0.665	31.072	340.083
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The C-130J is a medium-sized transport aircraft capable of performing a variety of combat delivery (tactical airlift) operations across a broad range of mission environments. The C-130J aircraft, with its extended (by 15 feet) fuselage, provides additional cargo carrying capacity for the USAF combat delivery mission compared with legacy C-130E/H and the C-130J (short). Special mission variants of the C-130J conduct airborne psychological operations (EC-130J), weather reconnaissance (WC-130J), search and rescue (HC-130J), and special operations (MC-130J and AC-130J). All aircraft variants must be capable of worldwide operations.

This project provides RDT&E funding for required capabilities that are grouped as "Block" upgrades or "Capability" updates. Content/requirements for block modifications is documented in International Program Directives (IPDs) as determined in the Cooperative Systems and Software Upgrade Requirements Management (COSSURM) process. This project will integrate the common-core capabilities developed under this program into the HC-130J, MC-130J and AC-130J.

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

	FY 2014	FY 2015	FY 2016
Title: Cooperative Systems and Software Upgrade Requirements Management (COSSURM) Description: COSSURM - Collects potential requirements for inclusion into a Block Upgrade or Capability Management Update. FY 2014 Accomplishments: N/A FY 2015 Plans: CMU COSSURM efforts include the Design Approach and Approval Meeting (DAAM), Requirements Approval Meeting (RAM), Systems Requirements Review (SRR), System Design Review (SDR), Certification Working Group (CertWG) and approval to proceed to Request for Proposal (RFP). FY 2016 Plans: Continuation of CMU COSSURM requirements review and analysis.	-	0.248	0.367
Title: Block 7.0 Description: BLOCK 7.0: Adds Link 16, a new Flight Management System (FMS), Civil Global Positioning System (GPS) Navigation, and a Special Mission Processor-Interface (SMP-I). DCMA Support is included here. FY 2014 Accomplishments:	0.603	1.939	0.100

UNCLASSIFIED

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Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0401132F / C-130J Program	Project (Number/Name) 675061 / C-130J		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
Updated software to accomodate the Windows 7 Data Transfer and Diagnostic System(DTADS)and Item Unique Identification(IUID). FY 2015 Plans: Completion of Data Transfer and Diagnostic System(DTADS) software and Item Unique Identification(IUID) software development. FY 2016 Plans: Complete integration of DTADS and IUID software updates				
Title: Block 8.1 Description: BLOCK 8.1 Adds Identification Friend or Foe (IFF) Mode 5, Civil Data Link, Automatic Dependent Surveillance - Broadcast (ADS-B), Air Traffic Services (ATS)/Airline Operational Control(AOC) Data Link for Line of Sight (LOS) and Beyond Line of Sight (BLOS) communication, enhanced covert lighting, improved Public Address(PA) System, and Approach Procedure with Vertical guidance (APV)/ Localizer Performance with Vertical guidance(LPV) approach capability. Several avionics platforms are impacted that include Flight Management System Software, Mission Computer Software, Bus Interface Unit software, and Maintenance Management System. FY 2014 Accomplishments: The Block 8.1 effort continued the Common Core hardware and software development. Major milestones included the completion of Critical Design Review (CDR), receipt of the Trial Kit Installation (TKI) aircraft and began Block 8.1 DT&E. FY 2015 Plans: The Block 8.1 effort will continue with the Common Core software development. Continuation of DT&E Block 8.1 development. FY 2016 Plans: Complete Block 8.1 DT&E. Integration of TKI efforts for the USAF short/stretch Aircraft (A/C). Funding increase from prior year is driven by the combined Block 7.0/8.1 Trial Kit integration efforts.		17.807	16.733	25.169
Title: Test & Evaluation Description: Test and evaluation planning, conduct, and support for developmental, and operational testing. FY 2014 Accomplishments: Follow-on test planning and support that included Formal Qualification Test (FQT) #1 FY 2015 Plans: Continuation of test planning and support that includes FQT #2 FY 2016 Plans:		1.474	3.346	3.014

UNCLASSIFIED

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Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0401132F / C-130J Program	Project (Number/Name) 675061 / C-130J		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
Completion of Delta test planning and support				
Title: Capability Management Update (CMU) Description: CMU's refine Block upgrade modifications that improve operational effectiveness, satisfy emerging operational needs, and enhance human machine interface (HMI) to allow a workload that meets human factors standards and maintains the present crew complement. Avionics software impacted includes Flight Management System (FMS) Software, Mission Computer (MC) Software, Bus Interface Unit (BIU) software, and Maintenance Management System. FY 2014 Accomplishments: N/A FY 2015 Plans: Award contract and Common Core software development will begin FY 2016 Plans: Continuation of Common Core software development		-	2.160	2.160
Title: Other AMC Initiatives Description: C-130J initiatives/studies FY 2014 Accomplishments: Mission Planning software studies and updates continue FY 2015 Plans: Mission Planning software studies and updates continue FY 2016 Plans: Mission Planning software studies and updates continue		0.410	0.500	0.100
Title: IPO Program Management Description: International Program Office (IPO) Support. Funds for contract services, travel, supplies and DFAS Support. FY 2014 Accomplishments: Travel, Supplies, and DFAS Support FY 2015 Plans: Travel, Supplies, and DFAS Support FY 2016 Plans:		0.049	0.100	0.100

UNCLASSIFIED

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Appropriation/Budget Activity 3600 / 7				R-1 Program Element (Number/Name) PE 0401132F / C-130J Program				Project (Number/Name) 675061 / C-130J				
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2014	FY 2015	FY 2016
Travel, Supplies, and DFAS Support												
Accomplishments/Planned Programs Subtotals										20.343	25.026	31.010
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost	
• APAF: BA05: Line Item # C1300J: C-130J Mods	-	-	28.716	-	28.716	77.422	79.054	120.841	133.033	1,137.800	1,576.875	
Remarks												
The Mods above are linked to C-130J R&D. There are other C-130J modification projects without associated R&D.												
D. Acquisition Strategy												
The C-130J aircraft will be modified using a "block upgrade" strategy. The CNS/ATM, navigation safety requirement will initially, be met in three block upgrades. Block 6.0 development was funded from FY03-07. Block 7.0 started in FY07, and Block 8.1 which began in FY12. Subsequently, C-130J modifications will be grouped into smaller CNS/ATM software only updates known as Capability Management Updates (CMU). CMU development is planned to commence upon contract award Q3/2015. Other AMC initiatives include Mission Planning (Mission Computer) upgrades due to Flight Management System (FMS) Software updates.												
In order to better manage the fleet and to avoid having to simultaneously support three separate aircraft configurations (Block 6, Block 7 and Block 8.1) the USAF has decided to combine the Block 7 and Block 8.1 mods. This will allow the aircraft and trainers to only have to be modified one time.												
The proportion of CNS/ATM and navigation safety requirements allocated to Blocks 6.0 through 8.1 was determined via a design trade study conducted by Lockheed Martin (the C-130J prime contractor) and verified by the C-130J system program office and AMC. The development costs are being shared via a global Project Arrangement (PA) by the United States (USAF, USMC, USCG), the United Kingdom, Italy, Australia, Denmark, Canada, and Norway. An international program office (IPO), with USAF lead (Wright Patterson AFB, OH), manages the block upgrades development effort. Retrofit of a Block on the aircraft is the responsibility of each nation.												
E. 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 2016 Air Force												Date: February 2015			
Appropriation/Budget Activity 3600 / 7						R-1 Program Element (Number/Name) PE 0401132F / C-130J Program				Project (Number/Name) 675061 / C-130J					
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Block 7.0, Air Force Life Cycle Mgmt Ctr (AFMC), WPAFB, OH	SS/CPAF	Lockheed Martin Aeronautics : Marietta, GA	126.845	0.603	Apr 2014	1.939	Nov 2014	0.100	Nov 2015	-		0.100	-	129.487	129.487
Block 8.1, Air Force Life Cycle Mgmt Ctr (AFMC), WPAFB, OH	SS/CPAF	Lockheed Martin Information Sytems : Marietta, GA	47.385	17.807	Apr 2014	16.733	Apr 2015	25.169	Apr 2016	-		25.169	71.249	178.343	179.443
Capability Management Upgrades (CMU) 1 & 2, Air Force Life Cycle Mgmt Ctr (AFMC), WPAFB, OH	SS/CPAF	Lockheed Martin Aero : Marietta, GA	0.000	-		2.160	Jun 2015	2.160	Apr 2016	-		2.160	4.320	8.640	8.640
12.459IAMC-Initiatives, Air Force Life Cycle Mgmt Ctr (AFMC), WPAFB, OH	SS/CPAF	Laockheed Martin Aero : Marietta, GA	8.959	0.410	Feb 2014	0.500	Feb 2015	0.100	Feb 2016	-		0.100	2.000	11.969	12.369
Subtotal			183.189	18.820		21.332		27.529		-		27.529	77.569	328.439	329.939
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			-	-		-		-		-		-	-	-	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Block 8.1 DT&E	PO	EGLIN AFB : Eglin, FL	0.336	1.474	Nov 2013	3.346	Nov 2014	3.014	Nov 2015	-		3.014	-	8.170	6.670
Subtotal			0.336	1.474		3.346		3.014		-		3.014	-	8.170	6.670

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Air Force	Date: February 2015
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Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0401132F / C-130J Program	Project (Number/Name) 675061 / C-130J
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Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
IPO Support	TBD	TBD : ,	0.625	0.049	Nov 2013	0.100	Nov 2014	0.100	Nov 2015	-		0.100	0.400	1.274	1.274
COSSURM	TBD	TBD : TBD,	1.428	-		0.248	Jan 2015	0.367	Jan 2016	-		0.367	0.157	2.200	2.200
Subtotal			2.053	0.049		0.348		0.467		-		0.467	0.557	3.474	3.474

Remarks
IPO Support(includes Travel & Supplies)and COSSURM are not included in the baseline

	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	185.578	20.343	25.026	31.010	-	31.010	78.126	340.083	340.083

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2016 Air Force																Date: February 2015			
Appropriation/Budget Activity 3600 / 7								R-1 Program Element (Number/Name) PE 0401132F / C-130J Program								Project (Number/Name) 675061 / C-130J			

	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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
Block 7.0 Development Test & Evaluation																												
Block 7.0 FCA/ PCA (Functional & Physical Configuration Audit)																												
Block 7.0 Trial Kit Installation (TKI) 1																												
Block 8.1 Development																												
Block 8.1 Development Test & Evaluation																												
Block 8.1 FCA/ PCA (Functional & Physical Configuration Audit)																												
Carbon Brake Test and Evaluation																												
Block 7.0/ 8.1 Trial Kit Installation (TKI) 2 - 7																												
CMU #1																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Air Force			Date: February 2015
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0401132F / C-130J Program	Project (Number/Name) 675061 / C-130J	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Block 7.0 Development Test & Evaluation	1	2014	2	2014
Block 7.0 FCA/ PCA (Functional & Physical Configuration Audit)	2	2014	2	2014
Block 7.0 Trial Kit Installation (TKI) 1	4	2014	2	2015
Block 8.1 Development	1	2014	3	2016
Block 8.1 Development Test & Evaluation	1	2015	3	2016
Block 8.1 FCA/ PCA (Functional & Physical Configuration Audit)	2	2016	2	2016
Carbon Brake Test and Evaluation	2	2016	3	2016
Block 7.0/ 8.1 Trial Kit Installation (TKI) 2 - 7	4	2015	1	2019
CMU #1	1	2016	2	2018

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Air Force										Date: February 2015		
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0401132F / C-130J Program				Project (Number/Name) 675062 / C-130J TRAINERS			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
675062: C-130J TRAINERS	2.330	2.100	1.689	-	-	-	-	-	-	-	-	6.119
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note
Project completes in 2015

A. Mission Description and Budget Item Justification
This project will enhance aircrew simulator fidelity utilizing aircraft flight tests to gather data to accurately emulate ground effect, nose wheel and engine-out data points. Currently the simulator is approved to accomplish only 50% of annual assault landings. This added capability will allow more training to be accomplished in the simulator so the aircraft will be available for more real world missions. The ability to accomplish more training in the simulator also reduces the annual aircraft O&M requirement.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
Title: Aero Data Collection Description: Utilize aircraft flight tests, gather data for simulator to accurately emulate ground effect, nose wheel and single engine data points to make simulator land like the aircraft. Simulator is currently approved to accomplish only 50% of assault landings. Effort includes aircraft modification to collect all data points and de-modification after data collection to return aircraft to previous status. FY 2014 Accomplishments: Continue collection and analysis of Aero Data. De-instrument aircraft. FY 2015 Plans: Integration of the Aero Data collected in 2014 into the Weapon System Trainer (WST) software FY 2016 Plans: N/A	2.100	1.689	-
Accomplishments/Planned Programs Subtotals	2.100	1.689	-

C. Other Program Funding Summary (\$ in Millions)
N/A

Remarks
There is not a hardware modification program linked to this RDT&E effort.

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Air Force			Date: February 2015
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0401132F / C-130J Program	Project (Number/Name) 675062 / C-130J TRAINERS	

D. Acquisition Strategy

One C-130J will be instrumented to collect data during takeoff, approach and landing phases of flight. This data will be used to enable the C-130J Weapon System Trainers to more accurately emulate ground effect, nose wheel, and engine out data points so the simulator will land more like the aircraft. The ability to accomplish more training in the simulator also reduces the annual aircraft O&M requirement.

E. 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 2016 Air Force													Date: February 2015		
Appropriation/Budget Activity 3600 / 7						R-1 Program Element (Number/Name) PE 0401132F / C-130J Program				Project (Number/Name) 675062 / C-130J TRAINERS					
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Simulator Aero Data	SS/FFP	Lockheed Martin GTL : Orlando, FL	2.330	2.100	Jun 2014	1.689	Jun 2015	-		-		-	-	6.119	-
Subtotal			2.330	2.100		1.689		-		-		-	-	6.119	-
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			-	-		-		-		-		-	-	-	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			-	-		-		-		-		-	-	-	-
Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			-	-		-		-		-		-	-	-	-
			Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			2.330	2.100		1.689		-		-		-	-	6.119	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Air Force	Date: February 2015
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Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0401132F / C-130J Program	Project (Number/Name) 675062 / C-130J TRAINERS
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	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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
Aircraft Instrumentation/ Data Collection																												
Software Development Testing & Evaluation																												
Aircraft De-modification																												
Training Devices Software Update																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Air Force			Date: February 2015
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0401132F / C-130J Program	Project (Number/Name) 675062 / C-130J TRAINERS	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Aircraft Instrumentation/ Data Collection	2	2014	4	2014
Software Development Testing & Evaluation	4	2014	1	2016
Aircraft De-modification	1	2015	3	2016
Training Devices Software Update	1	2016	3	2016