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**Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force** **DATE:** February 2010

<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0401132F: <i>C-130J PROGRAM</i>
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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	25.190	30.019	26.770	0.000	26.770	31.569	5.898	18.297	23.956	Continuing	Continuing
675061: <i>C-130J</i>	25.190	30.019	26.770	0.000	26.770	31.569	5.898	18.297	23.956	Continuing	Continuing

**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). All aircraft variants must be capable of worldwide operations.

FY10 C-130J program RDT&E funding provides for:

1.) Participation in the International Co-operative Systems and Software Upgrade Requirements Management (COSSURM). COSSURM participants include the United Kingdom, Australia, Italy, Denmark, Canada, Norway, and the United States. COSSURM provides a mechanism to jointly identify, collect, define, analyze, and price requirements. By combining requirements and resources under COSSURM, each participating country will save in aircraft upgrade costs.

2.) Continuation of Block 7.0 Upgrades, testing, and trial kit installation(s). Block 7.0 is the second phase of a three-block upgrade initiative which primarily addresses mandated Communication, Navigation, and Surveillance/Air Traffic Management (CNS/ATM) requirements. Block 7.0 is the first Block Upgrade initiative that is a true International partnership, as the development costs are being shared by each participating nation. Block 7.0 requirements include:

- a.) Communication, Navigation & Identification (CNI) upgrades
- b.) Dual Multi-Mode Receivers (MMR) with TSO C-129A Civil Global Positioning System (GPS)
- c.) CNI Special Processor upgrade
- d.) Tactical Datalink (TDL)
- e.) Mission Computer (MC) upgrades

Block 7.0 (as well as all future Block Upgrades) will be integrated into the training systems integration lab prior to incorporation into the fielded trainers.

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<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0401132F: <i>C-130J PROGRAM</i>
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3.) Start of Block 8.0 Upgrades. Block 8.0 is the last phase of three block upgrades which will complete all known mandated Communication, Navigation, and Surveillance/Air Traffic Management (CNS/ATM) requirements. Block 8.0 will again be an International partnership with costs being shared by each participating nation. Block 8.0 requirements include:

- a.) TEMPEST Compliance
- b.) IFF transponder Mode-5
- c.) Data-link (line of sight and beyond line of sight)
- d.) ADS-A/B
- e.) Mission Computer (MC) upgrades

4.) Other AMC approved initiatives. AMC has prioritized requirements that do not fall within the International Block Upgrade program, which primarily address deficiencies, system improvements, and diminishing manufacturing sources (DMS). This includes Navigation Safety upgrades, Joint Precision Airdrop System, and Large Aircraft Infrared Counter Measures (LAIRCM), among other priorities.

FY11 C-130J program RDT&E funding will continue participation the COSSURM effort, Block 7.0, Block 8.0 and other AMC approved initiatives.

This effort is assigned to Budget Activity 7, as it supports an operational system.

**B. Program Change Summary (\$ in Millions)**

	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011 Base</u>	<u>FY 2011 OCO</u>	<u>FY 2011 Total</u>
Previous President's Budget	27.354	30.019	0.000	0.000	0.000
Current President's Budget	25.190	30.019	26.770	0.000	26.770
Total Adjustments	-2.164	0.000	26.770	0.000	26.770
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	-1.400	0.000			
• SBIR/STTR Transfer	-0.690	0.000			
• Other Adjustments	-0.074	0.000	26.770	0.000	26.770

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**Exhibit R-2A, RDT&E Project Justification:** PB 2011 Air Force **DATE:** February 2010

<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0401132F: <i>C-130J PROGRAM</i>	<b>PROJECT</b> 675061: <i>C-130J</i>
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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
675061: <i>C-130J</i>	25.190	30.019	26.770	0.000	26.770	31.569	5.898	18.297	23.956	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

**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). All aircraft variants must be capable of worldwide operations.

FY10 C-130J program RDT&E funding provides for:

1.) Participation in the International Co-operative Systems and Software Upgrade Requirements Management (COSSURM). COSSURM participants include the United Kingdom, Australia, Italy, Denmark, Canada, Norway, and the United States. COSSURM provides a mechanism to jointly identify, collect, define, analyze, and price requirements. By combining requirements and resources under COSSURM, each participating country will save in aircraft upgrade costs.

2.) Continuation of Block 7.0 Upgrades, testing, and trial kit installation(s). Block 7.0 is the second phase of a three-block upgrade initiative which primarily addresses mandated Communication, Navigation, and Surveillance/Air Traffic Management (CNS/ATM) requirements. Block 7.0 is the first Block Upgrade initiative that is a true International partnership, as the development costs are being shared by each participating nation. Block 7.0 requirements include:

- a.) Communication, Navigation & Identification (CNI) upgrades
- b.) Dual Multi-Mode Receivers (MMR) with TSO C-129A Civil Global Positioning System (GPS)
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- d.) Tactical Datalink (TDL)
- e.) Mission Computer (MC) upgrades

Block 7.0 (as well as all future Block Upgrades) will be integrated into the training systems integration lab prior to incorporation into the fielded trainers.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2011 Air Force				<b>DATE:</b> February 2010		
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<p>3.) Start of Block 8.0 Upgrades. Block 8.0 is the last phase of three block upgrades which will complete all known mandated Communication, Navigation, and Surveillance/Air Traffic Management (CNS/ATM) requirements. Block 8.0 will again be an International partnership with costs being shared by each participating nation. Block 8.0 requirements include:</p> <p>a.) TEMPEST Compliance  b.) IFF transponder Mode-5  c.) Data-link (line of sight and beyond line of sight)  d.) ADS-A/B  e.) Mission Computer (MC) upgrades</p> <p>4.) Other AMC approved initiatives. AMC has prioritized requirements that do not fall within the International Block Upgrade program, which primarily address deficiencies, system improvements, and diminishing manufacturing sources (DMS). This includes Navigation Safety upgrades, Joint Precision Airdrop System, and Large Aircraft Infrared Counter Measures (LAIRCM), among other priorities.</p> <p>FY11 C-130J program RDT&amp;E funding will continue participation the COSSURM effort, Block 7.0, Block 8.0 and other AMC approved initiatives.</p> <p>This effort is assigned to Budget Activity 7, as it supports an operational system.</p> <p><b>B. Accomplishments/Planned Program (\$ in Millions)</b></p>						
		<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011 Base</b>	<b>FY 2011 OCO</b>	<b>FY 2011 Total</b>
MAJOR THRUST: Cooperative Systems and Software Upgrade Requirements Management (COSSURM) - Collects all potential requirements for inclusion into a Block Upgrade.  <i>FY 2009 Accomplishments:</i> In FY 2009: COSSURM efforts for Blk 8.1 were concluded, with the International Program Directive (IPD), which details what will be included in the Request for Proposal (RFP) for the next Block, being created in the Block Requirements Approval Meeting (BRAM) #2.		0.740	0.530	0.530	0.000	0.530

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<b>B. Accomplishments/Planned Program (\$ in Millions)</b>						
		<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011 Base</b>	<b>FY 2011 OCO</b>	<b>FY 2011 Total</b>
<p><i>FY 2011 Base Plans:</i> In FY 2011: The effort will conclude the test and Common Core TKI phase, effectively closing the Common Core effort. US TKIs, for the US Marine Corps (USMC), the US Coast Guard (USCG), for Air Combat Command (ACC) and other Air Mobility Command (AMC) platforms, will begin.</p> <p><i>FY 2011 OCO Plans:</i> In FY 2011 OCO: N/A</p>						
<p><b>MAJOR THRUST:</b> BLOCK 8.1. Adds Identification Friend or Foe (IFF) Mode 5, Civil Data Link, Automatic Dependent Surveillance - Broadcast (ADS-B)</p> <p><i>FY 2009 Accomplishments:</i> In FY 2009: N/A</p> <p><i>FY 2010 Plans:</i> In FY 2010: The contractor will begin and submit the proposal and all fact-finding and negotiations should take place.</p> <p><i>FY 2011 Base Plans:</i> In FY 2011: The effort will go on contract and Common Core hardware and software development will begin. Major Milestones expected to be completed include Systems Requirements Review (SRR), Preliminary Design Review (PDR) and Integrated Baseline Review (IBR).</p> <p><i>FY 2011 OCO Plans:</i> In FY 2011 OCO: N/A</p>		0.000	0.500	23.700	0.000	23.700
<p><b>MAJOR THRUST:</b> Other AMC approved initiatives</p> <p><i>FY 2009 Accomplishments:</i> In FY2009: Provides resources to rapidly address emerging wartime requirements</p>		0.870	0.500	0.500	0.000	0.500

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<b>B. Accomplishments/Planned Program (\$ in Millions)</b>								
				<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011 Base</b>	<b>FY 2011 OCO</b>	<b>FY 2011 Total</b>
<p><i>FY 2010 Plans:</i> In FY2010: Provides resources to rapidly address emerging wartime requirements</p> <p><i>FY 2011 Base Plans:</i> In FY2011: Provides resources to rapidly address emerging wartime requirements</p> <p><i>FY 2011 OCO Plans:</i> In FY 2011 OCO: N/A</p>								
<p>MAJOR THRUST: International Program Office (IPO) Support. Funds for A&amp;AS, Travel, Supplies and DFAS/DCMA Support</p> <p><i>FY 2009 Accomplishments:</i> In FY 2009, A&amp;AS, Travel, Supplies and DFAS/DCMA Support (includes \$0.125 of AF Withhold)</p> <p><i>FY 2010 Plans:</i> In FY 2010, A&amp;AS, Travel, Supplies and DFAS/DCMA Support</p> <p><i>FY 2011 Base Plans:</i> In FY 2011, A&amp;AS, Travel, Supplies and DFAS/DCMA Support</p> <p><i>FY 2011 OCO Plans:</i> In FY 2011 OCO: N/A</p>				0.233	0.182	0.182	0.000	0.182
Accomplishments/Planned Programs Subtotals				25.190	30.019	26.770	0.000	26.770

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**C. Other Program Funding Summary (\$ in Millions)**

<u>Line Item</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u> <u>Base</u>	<u>FY 2011</u> <u>OCO</u>	<u>FY 2011</u> <u>Total</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PE 0401132F: <i>C-130J Procurement (BP1100)</i>	0.000	0.000	0.000	0.000	0.000	31.132	57.986	60.555	61.128	0.000	0.000

**D. Acquisition Strategy**

C-130J aircraft will be modified using a 'block upgrade' strategy. The full CNS/ATM / nav safety requirement will 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 begins in FY10, should complete the known CNS/ATM and nav safety requirements. The proportion of CNS/ATM / nav 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 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 upgrade development effort. Embodiment of a Block on the aircraft is the responsibility of each nation.

Lockheed Martin will be the prime contractor for these efforts, perform the non-recurring engineering and, following the successful conclusion of flight testing and certification of each block upgrade, will provide production retrofit kits on USAF C-130J aircraft. Installation will be performed by contractor, depot, and Air Force personnel.

**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 2011 Air Force** **DATE:** February 2010

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**Product Development (\$ in Millions)**

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Block 7.0 , Aeronautical Systems Center (AFMC), WPAFB, OH	SS/CPAF	Lockheed Martin Aeronautics Marietta GA	22.915	26.910	Dec 2009	0.000	Dec 2010	0.000		0.000	0.000	49.825	0.000
Block 8.1, Aeronautical Systems Center (AFMC), WPAFB, OH	SS/CPAF	Lockheed Martin Information Sytems Orlando FL	0.052	0.500	Feb 2010	23.398	Feb 2011	0.000		23.398	0.000	23.950	0.000
AMC-I, Aeronautical Systems Center (AFMC), WPAFB, OH	SS/CPAF	TBD TBD	0.870	0.500	Feb 2010	0.500	Feb 2011	0.000		0.500	0.000	1.870	0.000
<b>Subtotal</b>			23.837	27.910		23.898		0.000		23.898	0.000	75.645	0.000

**Remarks**

**Support (\$ in Millions)**

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
IPO Support	TBD/TBD	TBD TBD	0.108	0.179	Nov 2009	0.182	Nov 2010	0.000		0.182	0.000	0.469	0.000
<b>Subtotal</b>			0.108	0.179		0.182		0.000		0.182	0.000	0.469	0.000

**Remarks**

A&AS, Travel, Supplies - all vary on support needed

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**Test and Evaluation (\$ in Millions)**

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Air Force Materiel Command (DT&E)	TBD/TBD	TBD TBD	0.306	1.400	Oct 2009	2.160	Oct 2010	0.000		2.160	0.000	3.866	0.000
<b>Subtotal</b>			0.306	1.400		2.160		0.000		2.160	0.000	3.866	0.000

**Remarks**

**Management Services (\$ in Millions)**

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
COSSURM	TBD/TBD	TBD TBD	0.740	0.530		0.530		0.000		0.530	0.000	1.800	0.000
International Savings	TBD/TBD	TBD TBD	0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000
Congressional Rescissions	TBD/TBD	TBD TBD	0.074	0.000		0.000		0.000		0.000	0.000	0.074	0.000
SBIR	TBD/TBD	TBD TBD	0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000
Reprogrammings	TBD/TBD	TBD TBD	0.125	0.000		0.000		0.000		0.000	0.000	0.125	0.000
Withhold	TBD/TBD	TBD TBD	0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000

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**Management Services (\$ in Millions)**

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
<b>Subtotal</b>			0.939	0.530		0.530		0.000		0.530	0.000	1.999	0.000

**Remarks**

Project Cost Totals	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	25.190	30.019		26.770		0.000		26.770	0.000	81.979	0.000

**Remarks**

Total Prior Years Cost may include only FY 2009 data.

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**Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force**

**DATE:** February 2010

**APPROPRIATION/BUDGET ACTIVITY**

3600: *Research, Development, Test & Evaluation, Air Force*  
 BA 7: *Operational Systems Development*

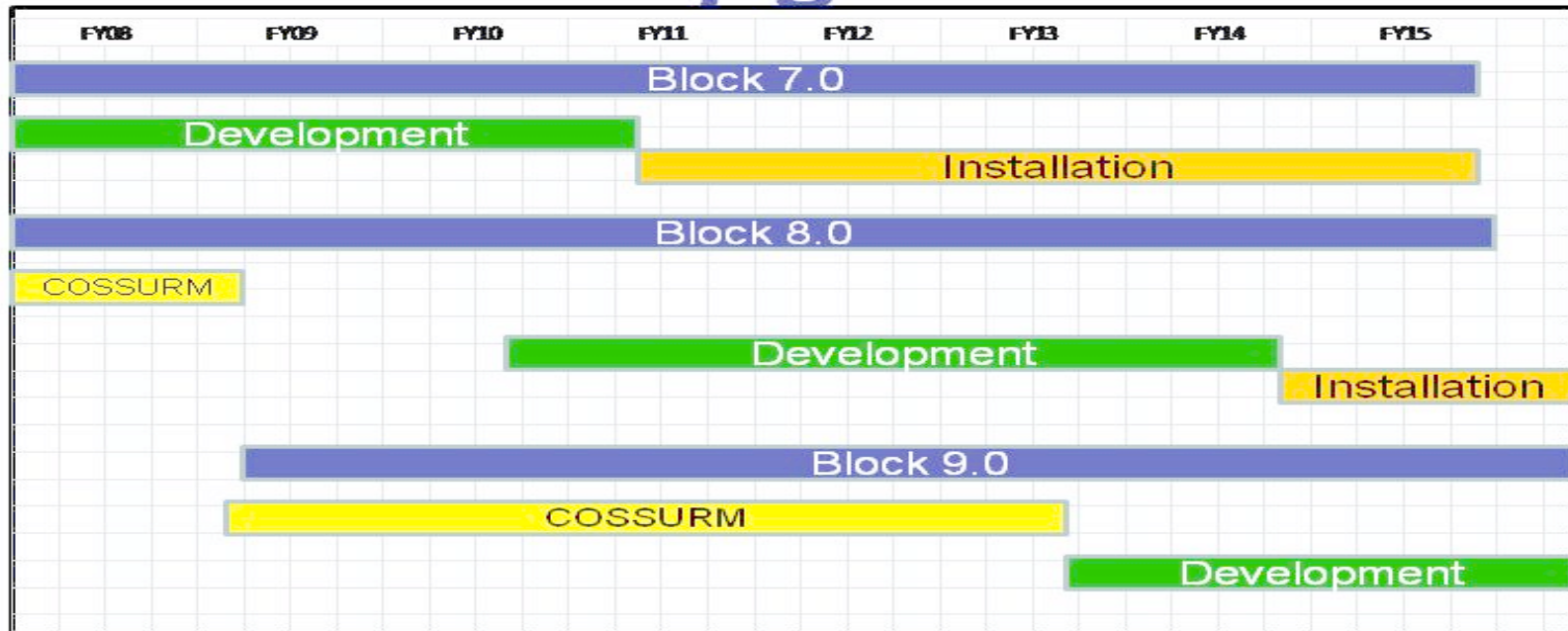
**R-1 ITEM NOMENCLATURE**

PE 0401132F: *C-130J PROGRAM*

**PROJECT**

675061: *C-130J*

# C-130J International Block Upgrade Plan



COSSURM - International Co-operative Systems and Software Upgrade Requirements Management

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2011 Air Force		<b>DATE:</b> February 2010
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Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
Block 7.0 FY09 award	1	2009	1	2009
Block 7.0 FY10 award	1	2010	1	2010
Block 8.1 FY10 award	4	2010	4	2010
Block 8.1 FY11 Award	1	2011	1	2011

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