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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force	DATE: April 2013
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APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0401115F: <i>C-130 Airlift Squadron</i>
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COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	6.321	5.000	0.400	-	0.400	66.100	69.800	11.800	3.500	Continuing	Continuing
674885: <i>Avionics Modernization Program (AMP)</i>	-	6.321	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
675244: <i>C-130 CNS/ATM</i>	-	0.000	5.000	0.400	-	0.400	66.100	69.800	11.800	3.500	Continuing	Continuing

MDAP/MAIS Code(s): 298

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

C-130 Avionics Modernization Program (AMP) FY13 RDT&E funding has been deleted as a result of program cancellation by the Department of Defense.

The "Optimize" Legacy C-130 Communication, Navigation, Surveillance/Air Traffic Management (CNS/ATM) program was a new start in FY13 in-lieu-of C-130 AMP, and provided CNS/ATM solution for 176 C-130H aircraft, addressed select obsolescence issues, and retined the navigator position.

The "Minimize" C-130 CNS/ATM program replaced the "Optimize" program in FY 14, and is an airspace compliance focused program to modify 184 C-130H aircraft with 8.33 kHz radios, cockpit voice and digital flight data recorders, Enhanced Mode S, and Automatic Dependent Surveillance-Broadcast (ADS-B) Out equipment.

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.

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B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	6.321	5.000	41.500	-	41.500
Current President's Budget	6.321	5.000	0.400	-	0.400
Total Adjustments	0.000	0.000	-41.100	-	-41.100
• 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	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	-41.100	-	-41.100

Change Summary Explanation

FY14 adjustment of -\$41.1M is because the FY14 "Minimize C-130 CNS/ATM" program is an update/change to FY13's "Optimize Legacy C-130 CNS/ATM" program. The FY14 funds for the updated program procure 8.33 kHz radios and only requires 0.4M of FY14 RDT&E funds.

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0401115F: C-130 Airlift Squadron				PROJECT 674885: Avionics Modernization Program (AMP)			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
674885: Avionics Modernization Program (AMP)	-	6.321	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
Note												
In FY 2013, project 674885, C-130 Avionics Modernization Program was terminated.												
A. Mission Description and Budget Item Justification												
C-130 Avionics Modernization Program (AMP) was cancelled in FY 2013 by the Department of Defense. Therefore all FY13 RD&TE funding has been deleted.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: SDD									6.321	0.000	0.000	
Description: Accomplished design activities for software spirals and remaining engineering data release for the H2, H2.5 and H3 configurations. Contractor also provided flight test support. To achieve the overall C-130 AMP development efforts, the following RDT&E tasks were also required: Training Systems Development (aircrew and maintenance systems), Engineering Change Orders (ECO), Development of new hardware and software resulting from Diminishing Manufacturing Sources (DMS) issues, Government furnished Equipment (GFE), the contractor Award Fee and program support and planning efforts.												
FY 2012 Accomplishments: Began C-130 AMP termination and planning activities including the development and implementation of a termination plan in order to close out the RDT&E contract as efficiently and effectively as possible.												
FY 2013 Plans: N/A												
FY 2014 Plans: N/A												
Accomplishments/Planned Programs Subtotals									6.321	0.000	0.000	

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force										DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>					R-1 ITEM NOMENCLATURE PE 0401115F: <i>C-130 Airlift Squadron</i>			PROJECT 674885: <i>Avionics Modernization Program (AMP)</i>			
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
• APAF: BA05: Line Item # C13000: <i>C-130</i>	0.000	0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000	212.509
• APAF: BA05: Line Item # C1300A: <i>C-130 AMP</i>	208.135	0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000	208.135
Remarks											
D. Acquisition Strategy N/A											
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 2014 Air Force												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE				PROJECT					
3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development						PE 0401115F: C-130 Airlift Squadron				674885: Avionics Modernization Program (AMP)					
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
C-130 AMP System Design & Development	SS/CPAF	Boeing:Oklahoma City, OK	-	0.000	Nov 2011	0.000		0.000		-		0.000	0.000	0.000	
Termination and Planning Activities	TBD	TBD:,	-	6.321		0.000		0.000		-		0.000	0.000	6.321	
Subtotal			0.000	6.321		0.000		0.000		0.000		0.000	0.000	6.321	
Remarks															
Note: FY12 funds are used for termination activities including the development and implementation of a termination plan in order to close out the RDT&E contract as efficiently and effectively as possible.															
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Various	Various	Various:Rosamond, CA	-	0.000	Nov 2011	0.000		0.000		-		0.000	0.000	0.000	
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	
Remarks															
DT&E flight test program is primarily done out of Edwards AFB.															
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
PMA - Contractor Services	Various	Various:Dayton, OH	-	0.000		0.000		0.000		-		0.000	0.000	0.000	

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APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>							R-1 ITEM NOMENCLATURE PE 0401115F: <i>C-130 Airlift Squadron</i>					PROJECT 674885: <i>Avionics Modernization Program (AMP)</i>			

Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost To Complete	Total Cost	Target Value of Contract
PMA - Gov't Cost	Various	Various:Dayton, OH	-	0.000		0.000		0.000		-		0.000		0.000	0.000	
Protest Settlement	SS/FFP	Lockheed Martin:Marietta, GA	-	0.000		0.000		0.000		-		0.000		0.000	0.000	
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000		0.000	0.000	

Remarks Protest Settlement cost category is FY11 funding reimbursement to Lockheed Martin for proposal preparation and submission materials for disputed C-130 AMP source selection.																
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	All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total		Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	6.321		0.000		0.000		0.000		0.000		0.000	6.321	

Remarks																
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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0401115F: <i>C-130 Airlift Squadron</i>	PROJECT 674885: <i>Avionics Modernization Program (AMP)</i>

Program to terminate in FY13,
therefore no schedule is attached.
Remaining FY12 funding to be used
in contract termination and planning
activities.

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force									DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0401115F: C-130 Airlift Squadron				PROJECT 675244: C-130 CNS/ATM			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
675244: C-130 CNS/ATM	-	0.000	5.000	0.400	-	0.400	66.100	69.800	11.800	3.500	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
With the FY13 PB's cancellation of the C-130 Avionics Modernization Program (AMP), the Minimize C-130 Communication, Navigation, Surveillance/Air Traffic Management (CNS/ATM) option provides minimal airspace compliance focused program to modify 184 C-130H aircraft with Automatic Dependent Surveillance-Broadcast (ADS-B) Out equipment, 8.33 kHz radios, updated cockpit voice and digital flight data recorders, and Enhanced Mode S.												
The 184 aircraft Minimize C-130 CNS/ATM program is comprised of H3s, H2.5s, H2s and H1s; and includes 28 Active Duty, 108 Guard, and 48 Reserve aircraft. The modification effort will be completed in three phases: Phase A updates to 8.33 kHz radios on 156 aircraft (28 modifications previously accomplished); Phase B modifies cockpit voice and digital data recorders (CVR/DVR) for 184 aircraft; Phase C relates to ADS-B Out and Enhanced Mode S modifications. Phase C will have 4 prototype aircraft required for accomplishment of the ADS-B Out Engineering and Manufacturing Development (EMD) phase, with the remaining 180 being production aircraft. The prototype aircraft represent each type of C-130H configuration listed above.												
Based on the direction in the 2013 National Defense Authorization Act, quantities will increase from 184 to 224.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: Minimize C-130 CNS/ATM Program									0.000	5.000	0.400	
Description: Refine and complete the requirements definition phase of program in fiscal year 2013, followed by pre-EMD activities.												
FY 2013 Plans: Accomplish requirements definition and pre-EMD planning.												
FY 2014 Plans: Accomplish requirements definition and pre-EMD planning.												
Accomplishments/Planned Programs Subtotals									0.000	5.000	0.400	

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0401115F: <i>C-130 Airlift Squadron</i>	PROJECT 675244: <i>C-130 CNS/ATM</i>	

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

<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u> <u>Base</u>	<u>FY 2014</u> <u>OCO</u>	<u>FY 2014</u> <u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• APAF: BA05: Line Item # C13000: <i>C-130</i>	0.000	0.000	14.200		14.200	14.598	14.654	40.942	74.781	165.725	324.900

Remarks

D. Acquisition Strategy

Current schedule is for the EMD contract to be awarded, following a competitive source selection, in the 3rd quarter of fiscal year 2014. Fiscal year 2013 primarily involved initiating the program requirements and pre-contract efforts in preparation for the EMD source selection phase of the program.

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 2014 Air Force												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development						R-1 ITEM NOMENCLATURE PE 0401115F: C-130 Airlift Squadron						PROJECT 675244: C-130 CNS/ATM			
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
EMD Contract	C/TBD	TBD:.,	-	0.000		0.000		0.000		-		0.000	Continuing	Continuing	121.009
Trainers/Training	TBD	TBD:.,	-	0.000		0.000		0.000		-		0.000	Continuing	Continuing	8.014
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000			129.023
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Flight Test	TBD	Not specified:.,	-	0.000		0.000		0.000		-		0.000	Continuing	Continuing	12.404
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000			12.404
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
PMA - Contractor Services	Various	Not specified:.,	-	0.000		4.400	Jan 2013	0.339		-		0.339	Continuing	Continuing	5.182
PMA - Gov't Cost	Various	Not specified:.,	-	0.000		0.600		0.061		-		0.061	Continuing	Continuing	9.991
Subtotal			0.000	0.000		5.000		0.400		0.000		0.400			15.173
Project Cost Totals			0.000	0.000		5.000		0.400		0.000		0.400			156.600

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force							DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development			R-1 ITEM NOMENCLATURE PE 0401115F: C-130 Airlift Squadron			PROJECT 675244: C-130 CNS/ATM				
	All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract	
Remarks The acquisition and installation schedule and budget estimate displayed in this exhibit is subject to change as the program requirements continue to be refined by the Air Force over the next fiscal year.										

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

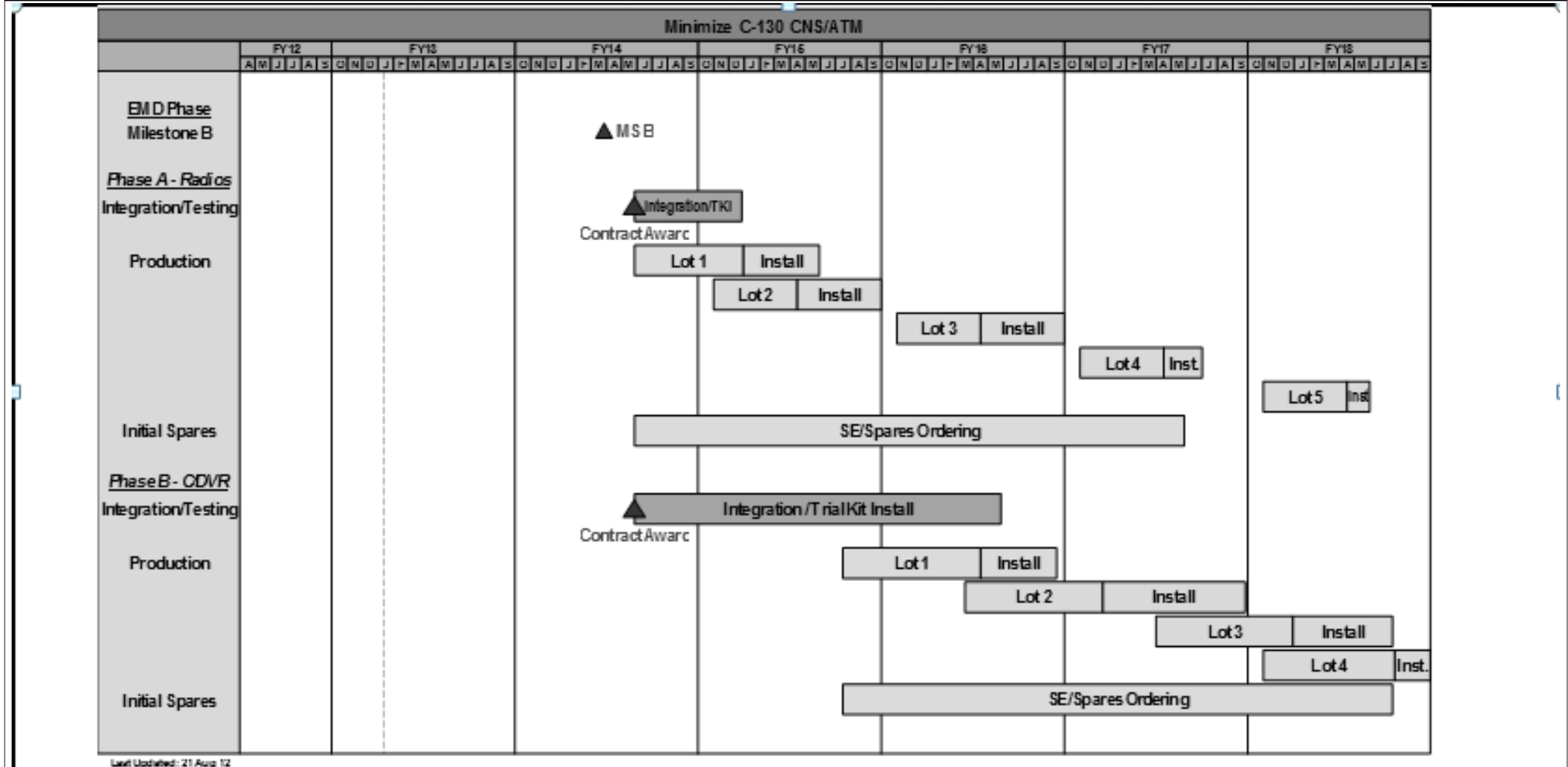
3600: Research, Development, Test & Evaluation, Air Force
BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0401115F: C-130 Airlift Squadron

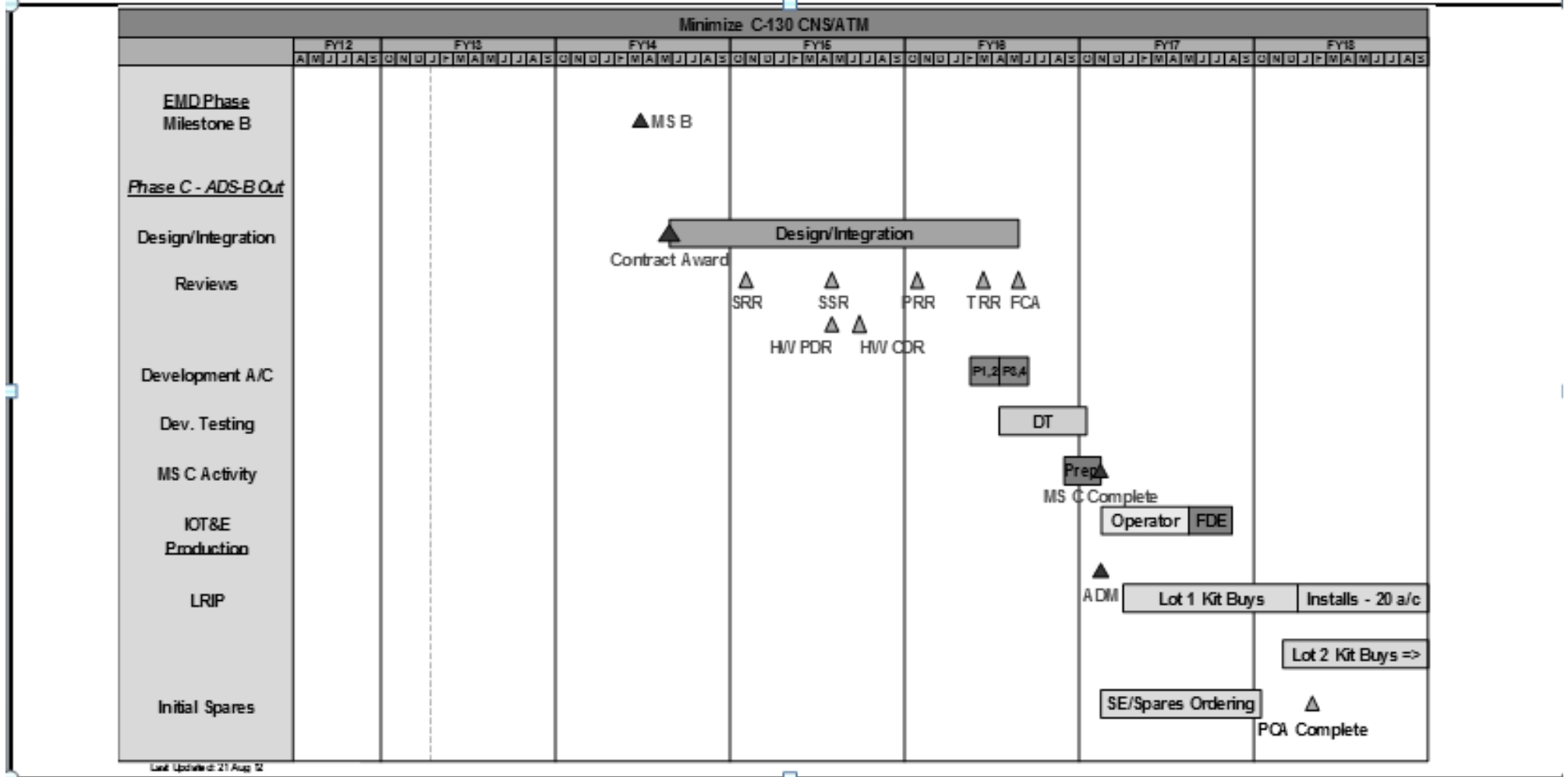
PROJECT

675244: C-130 CNS/ATM



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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0401115F: C-130 Airlift Squadron	PROJECT 675244: C-130 CNS/ATM



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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0401115F: <i>C-130 Airlift Squadron</i>	PROJECT 675244: <i>C-130 CNS/ATM</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Milestone B	2	2014	2	2014
EMD Contract Awards	3	2014	3	2014
Design/Integration	3	2015	3	2016
Preliminary Design Review	3	2015	3	2015
Critical Design Review	4	2015	4	2015
Developmental Testing	3	2016	1	2017
Functional Configuration Audit	3	2016	3	2016
Milestone C	1	2017	1	2017
Force Development Evaluation (FDE)	3	2017	4	2017
Physical Configuration Audit (PCA)	2	2018	2	2018