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Exhibit P-40, Budget Line Item Justification: PB 2015 United States Special Operations Command **Date:** March 2014

Appropriation / Budget Activity / Budget Sub Activity: 0300D: Procurement, Defense-Wide / BA 02: Special Operations Command / BSA 1: Aviation Programs **P-1 Line Item Number / Title:** 5000C13000 / C-130 MODIFICATIONS

ID Code (A=Service Ready, B=Not Service Ready) :		Program Elements for Code B Items:					Other Related Program Elements: 1160403BB, 1160425BB, 1160404BB					
Resource Summary	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO#	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2,303.022	20.643	61.317	39.563	-	39.563	62.415	67.254	33.150	33.338	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	2,303.022	20.643	61.317	39.563	-	39.563	62.415	67.254	33.150	33.338	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,303.022	20.643	61.317	39.563	-	39.563	62.415	67.254	33.150	33.338	Continuing	Continuing

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	3.494	1.587	7.000	1.323	-	1.323	0.241	-	-	-	-	Continuing	Continuing
Flyaway Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	-

The FY 2015 OCO Request will be submitted at a later date.

Description:

The C-130 Modifications line item funds Special Operations-unique modifications to various Special Operations Forces (SOF) models of the C-130 aircraft and associated training systems. Program is comprised of modifications generated from mission performance deficiencies, logistics problems, and evaluation of emerging technologies. USSOCOM funds the procurement of SOF-peculiar systems such as electronic warfare and survivability, communication, situational awareness, terrain following radar, training, intelligence surveillance and reconnaissance, weapons integration, and low cost modifications into the SOF C-130 fleet.

Exhibits Schedule		Prior Years			FY 2013			FY 2014			FY 2015 Base			FY 2015 OCO			FY 2015 Total				
Title*	Exhibits	ID CD	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	
C-130 Modification	P-40a		-	-	2,303.022	-	-	20.643	-	-	61.317	-	-	17.695	-	-	-	-	-	17.695	
P-3a - 3 / C-130 Terrain Following Radar System	P-3a		-	-	-	-	-	-	-	-	-	2.430	9	21.868	-	-	-	2.430	9	21.868	
Total Gross/Weapon System Cost			-	-	2,303.022	-	-	20.643	-	-	61.317	-	-	39.563	-	-	-	-	-	39.563	
Exhibits Schedule		FY 2016			FY 2017			FY 2018			FY 2019			To Complete			Total				
Title*	Exhibits	ID CD	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	
C-130 Modification	P-40a		-	-	26.667	-	-	27.671	-	-	22.160	-	-	22.128	-	-	-	-	-	-	Continuing

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Exhibit P-40, Budget Line Item Justification: PB 2015 United States Special Operations Command **Date:** March 2014

Appropriation / Budget Activity / Budget Sub Activity:
0300D: Procurement, Defense-Wide / BA 02: Special Operations Command / BSA
1: Aviation Programs

P-1 Line Item Number / Title:
5000C13000 / C-130 MODIFICATIONS

ID Code (A=Service Ready, B=Not Service Ready) : **Program Elements for Code B Items:** **Other Related Program Elements:** 1160403BB, 1160425BB, 1160404BB

Exhibits Schedule		FY 2016			FY 2017			FY 2018			FY 2019			To Complete			Total			
Title*	Exhibits	ID CD	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
P-3a - 3 / C-130 Terrain Following Radar System	P-3a		5.107	7	35.748	6.597	6	39.583	3.663	3	10.990	3.737	3	11.210	-	-	-	4.264	28	119.399
Total Gross/Weapon System Cost			-	-	62.415	-	-	67.254	-	-	33.150	-	-	33.338	Continuing			Continuing		

*For P-40as, Title represents the P40a Title. For the P-3a, Title represents the Modification Number / Title.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

Justification:

1. C-130 Low Cost Modifications. Minor modifications to MC-130E/H/P/J, AC-130W/H/U/J and EC-130J SOF-unique equipment to improve reliability and maintainability, correct deficiencies, address obsolescence, incorporate mission enhancements, and critical safety changes. Modifications include, but are not limited to: radar upgrades, avionics and display upgrades, sensor installations and upgrades, intelligence collection and dissemination capabilities, communication systems, mechanical and electrical modifications, and weapons integration. Current projects include AC-130H/U/W gun system improvements, AC-130U engine infrared tub upgrades, AC-130U formation light replacement and avionics replacements, loadmaster restraint system, AC-130H/U aft scanner station replacement, AC-130W antenna replacement and wing rewiring, MC-130H technical orders, and EC-130J Air Force Tactical Receiver System-Ruggedized integration.

FY 2015 PROGRAM JUSTIFICATION: Continues minor upgrades/modifications to SOF C-130 equipment.

2. AC-130U and MC-130H Center Wing Replacement. This modification incorporates enhanced center wings on SOF C-130s. These wings are modified to support more stringent SOF operations. The final MC-130H center wing replacement occurred in FY 2013. AC-130U aircraft are planned for center wing replacement through FY 2015.

FY 2015 PROGRAM JUSTIFICATION: Completes replacing center wing box on final AC-130U Gunship.

3. EC-130J Commando Solo. Commando Solo supports combat operations by flying Military Information Support Operations (MISO, formerly Psychological Operations) missions for the purpose of broadcasting radio and/or television signals deep into denied territory. These broadcasts emanate from EC-130J aircraft that are equipped with high power transmitters and large antenna arrays. Procurement of hardware for a carry-on/off MISO broadcast system is a new start in FY 2015.

FY 2015 PROGRAM JUSTIFICATION: Procures special paratroop door, articulating arm and long lead items for a carry-on/off MISO broadcast system.

4. Enhanced Situational Awareness (ESA). Provides C-130 SOF fleet with near-real time intelligence to include data fusion, threat detection, identification, and avoidance; electronic support measures for threat geo-location; and specific emitter identification.

FY 2015 PROGRAM JUSTIFICATION: Procures processing and display hardware.

5. C-130 Avionics Modifications. This program replaces various SOF C-130 unique avionics systems across the SOF C-130 fleet. MFP-4 funds address service-common avionics systems. Projects include but are not limited to replacing the AP-102A Mission Computer on the AC-130U and MC-130H SOF aircraft due to obsolescence issues. There are four computers on each AC-130U and two computers on each MC-130H. Productions kit price includes installation. Modifications will be a field-level installation based on aircraft availability.

6. AC-130U Electro Optical/Infrared Sensor Upgrade. This program upgrades the AC-130U aircraft with High Definition Electro-Optical/Infrared Sensor MX-115Di) B kits and non-developmental items.

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Appropriation / Budget Activity / Budget Sub Activity: 0300D: Procurement, Defense-Wide / BA 02: Special Operations Command / BSA 1: Aviation Programs		P-1 Line Item Number / Title: 5000C13000 / C-130 MODIFICATIONS
ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:	Other Related Program Elements: 1160403BB, 1160425BB, 1160404BB
<p>7. EC-130J Upgrade Modifications. This program funds the hardware and installation of SOF-unique portions of C-130J block cycle upgrades, airframe and aircraft infrastructure modifications.</p> <p>8. Simulator Block Updates (SBUD). The C-130 Simulator Block Update (SBUD) program sustains legacy C-130 aircrew training device capabilities by addressing concurrency, obsolescence, and fidelity training issues. C-130 weapon systems possessing aircrew training devices include the AC-130H, AC-130J, AC-130U, AC-130W, EC-130J, MC-130H and MC-130J.</p> <p>FY 2015 PROGRAM JUSTIFICATION: The SBUD program continues to procure modifications to C-130 aircrew training devices to sustain or improve legacy training capabilities.</p> <p>9. C-130 Terrain Following Radar System. This program incorporates a Low Probability of Detection/Low Probability of Interception (LPD/LPI) Terrain Following/Terrain Avoidance (TF/TA) radar to provide a multi-mode low-level terrain following capability in low-light and most weather conditions on the MC-130J platform. Procurement of the TF/TA radar production hardware for installation on the MC-130J is a new start in FY 2015.</p> <p>FY 2015 PROGRAM JUSTIFICATION: Procures 9 TF/TA radars for installation on MC-130J aircraft.</p>		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2015 United States Special Operations Command **Date:** March 2014

Appropriation / Budget Activity / Budget Sub Activity: 0300D / 02 / 1 **P-1 Line Item Number / Title:** 5000C13000 / C-130 MODIFICATIONS **Aggregated Items:** C-130 Modification

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2013			FY 2014			FY 2015 Base			FY 2015 OCO			FY 2015 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Modification																				
1 / C-130 Low Cost Modifications			-	-	44.665	-	-	9.337	-	-	7.749	-	-	3.946	-	-	-	-	-	3.946
2 / AC-130U and MC-130H Center Wing Replacement			-	-	19.112	-	-	1.900	-	-	0.426	0.415	2	0.831	-	-	-	0.415	2	0.831
3 / EC-130J Commando Solo			-	-	12.938	-	-	-	-	-	-	-	-	2.386	-	-	-	-	-	2.386
4 / Enhanced Situational Awareness			-	-	4.735	-	-	0.775	-	-	0.772	-	-	0.468	-	-	-	-	-	0.468
5 / C-130 Avionics Modifications			-	-	-	-	-	7.044	-	-	5.136	-	-	-	-	-	-	-	-	-
6 / AC-130U Electro-Optical/Infrared Sensor Upgrade			-	-	-	-	-	-	-	-	22.900	-	-	-	-	-	-	-	-	-
7 / EC-130J Upgrade Modification			-	-	1.118	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8 / Simulator Block Update (SBUD)			-	-	-	-	-	-	-	-	17.334	-	-	8.741	-	-	-	-	-	8.741
<i>Subtotal: Modification</i>			-	-	82.568	-	-	19.056	-	-	54.317	-	-	16.372	-	-	-	-	-	16.372
Prior Year																				
1 / Prior Year Funding			-	-	2,220.454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Prior Year</i>			-	-	2,220.454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Initial Spares																				
1 / Mission Computer Replacement Program			-	-	-	-	-	1.587	-	-	1.100	-	-	-	-	-	-	-	-	-
2 / EC-130J Commando Solo			-	-	-	-	-	-	-	-	-	-	-	1.323	-	-	-	-	-	1.323
3 / AC-130U EO/IR Sensor Upgrade			-	-	-	-	-	-	-	-	5.900	-	-	-	-	-	-	-	-	-
<i>Subtotal: Initial Spares</i>			-	-	-	-	-	1.587	-	-	7.000	-	-	1.323	-	-	-	-	-	1.323
Total			-	-	2,303.022	-	-	20.643	-	-	61.317	-	-	17.695	-	-	-	-	-	17.695

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2015 United States Special Operations Command **Date:** March 2014

Appropriation / Budget Activity / Budget Sub Activity: 0300D / 02 / 1 **P-1 Line Item Number / Title:** 5000C13000 / C-130 MODIFICATIONS **Aggregated Items:** C-130 Modification

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	FY 2016			FY 2017			FY 2018			FY 2019			To Complete			Total Cost		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Modification																				
1 / C-130 Low Cost Modifications			-	-	4.007	-	-	4.135	-	-	4.156	-	-	4.593	Continuing			Continuing		
2 / AC-130U and MC-130H Center Wing Replacement			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.269
3 / EC-130J Commando Solo			-	-	9.535	-	-	5.744	-	-	0.124	-	-	-	Continuing			Continuing		
4 / Enhanced Situational Awareness			-	-	0.465	-	-	-	-	-	-	-	-	-	Continuing			Continuing		
5 / C-130 Avionics Modifications			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.180
6 / AC-130U Electro-Optical/Infrared Sensor Upgrade			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.900
7 / EC-130J Upgrade Modification			-	-	3.244	-	-	3.300	-	-	3.462	-	-	3.617	Continuing			Continuing		
8 / Simulator Block Update (SBUD)			-	-	9.175	-	-	14.492	-	-	14.418	-	-	13.918	Continuing			Continuing		
<i>Subtotal: Modification</i>			-	-	26.426	-	-	27.671	-	-	22.160	-	-	22.128	Continuing			Continuing		
Prior Year																				
1 / Prior Year Funding			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,220.454
<i>Subtotal: Prior Year</i>			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,220.454
Initial Spares																				
1 / Mission Computer Replacement Program			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.687
2 / EC-130J Commando Solo			-	-	0.241	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.564
3 / AC-130U EO/IR Sensor Upgrade			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.900
<i>Subtotal: Initial Spares</i>			-	-	0.241	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.151
Total			-	-	26.667	-	-	27.671	-	-	22.160	-	-	22.128	Continuing			Continuing		

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Exhibit P-3a, Individual Modification: PB 2015 United States Special Operations Command										Date: March 2014			
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 02 / 1				P-1 Line Item Number / Title: 5000C13000 / C-130 MODIFICATIONS						Modification Number / Title: 3 / C-130 Terrain Following Radar System			

Resource Summary	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO#	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	9	-	9	7	6	3	3	-	28
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	-	21.868	-	21.868	35.748	39.583	10.990	11.210	-	119.399
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	-	-	-	21.868	-	21.868	35.748	39.583	10.990	11.210	-	119.399
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	-	21.868	-	21.868	35.748	39.583	10.990	11.210	-	119.399

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	2.430	-	2.430	5.107	6.597	3.663	3.737	-	4.264

The FY 2015 OCO Request will be submitted at a later date.

Description:

Installs Terrain Following/Terrain Avoidance (TF/TA) radar systems onto MC-130J aircraft providing low-level navigation capabilities during low-light and most weather conditions. Procurement of the TF/TA production hardware for installation on the MC-130J is a new start in FY 2015.

Development Status/Major Development Milestones

Date	Title	Description
Apr 2012	NRE Contract Award	
Sep 2013	System Critical Design Review	
Nov 2013	Trial Kit Install, Start Development, Test and Evaluation Flight Test	
Nov 2016	Start Operational, Test & Evaluation	

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Exhibit P-3a, Individual Modification: PB 2015 United States Special Operations Command										Date: March 2014			
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 02 / 1				P-1 Line Item Number / Title: 5000C13000 / C-130 MODIFICATIONS						Modification Number / Title: 3 / C-130 Terrain Following Radar System			
Models of Systems Affected: MC-130J				Modification Type: System Integration				Related RDT&E PEs: 1160403BB					
Financial Plan	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
1160403BB	- / 18.975	- / 18.437	- / 50.213	- / 27.880	- / -	- / 27.880	- / 15.382	- / -	- / -	- / -	- / -	- / 130.887	
Procurement													
<i>Modification Item 1 of 1:</i> C-130 Terrain Following Radar system													
B Kits													
Recurring													
TF/TA Radars	- / -	- / -	- / -	9 / 21.868	- / -	9 / 21.868	7 / 35.748	6 / 39.583	3 / 10.990	3 / 11.210	- / -	28 / 119.399	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	9 / 21.868	- / -	9 / 21.868	7 / 35.748	6 / 39.583	3 / 10.990	3 / 11.210	- / -	28 / 119.399	
<i>Subtotal: C-130 Terrain Following Radar system</i>	- / -	- / -	- / -	9 / 21.868	- / -	9 / 21.868	7 / 35.748	6 / 39.583	3 / 10.990	3 / 11.210	- / -	28 / 119.399	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	9 / 21.868	- / -	9 / 21.868	7 / 35.748	6 / 39.583	3 / 10.990	3 / 11.210	- / -	28 / 119.399	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	-	-	-	21.868	-	21.868	35.748	39.583	10.990	11.210	-	119.399	

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Exhibit P-3a, Individual Modification: PB 2015 United States Special Operations Command		Date: March 2014
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 02 / 1	P-1 Line Item Number / Title: 5000C13000 / C-130 MODIFICATIONS	Modification Number / Title: 3 / C-130 Terrain Following Radar System

Modification Item 1 of 1: C-130 Terrain Following Radar system

Modification Item MDAP/MAIS Code:

Manufacturer Information

Manufacturer Name: Scientific Research Corp	Manufacturer Location: Atlanta, GA
Administrative Leadtime (<i>in Months</i>): 1	Production Leadtime (<i>in Months</i>): 12

Dates	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019
Contract Dates			Jan 2015	Aug 2016			
Delivery Dates			Apr 2016	Jun 2018			

Installation Information

Method of Implementation (Organic): Field Installation	Installation Quantity: 47
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