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

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

3600: Research, Development, Test & Evaluation, Air Force

PE 0207224F: COMBAT RESCUE AND RECOVERY

BA 7: Operational Systems Development

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	0.000	0.000	0.944	0.000	0.944	0.000	0.000	0.000	0.000	Continuing	Continuing
671325: HH-60G	0.000	0.000	0.944	0.000	0.944	0.000	0.000	0.000	0.000	0.000	0.946

## A. Mission Description and Budget Item Justification

The Mode 5 modification program is an OSD-mandated upgrade to the HH-60G's Identification, Friend or Foe (IFF) system--the primary means of aircraft identification during Air Defense operations.

In order to fully implement Mode 5, the HH-60G aircraft require a Global Positioning System update. Costs are only estimates at this time and are subject to contract negotiation and award.

This program is in Budget Activity 7, Operational System Development, since it improves the already fielded capabilities of the HH-60G Pave Hawk helicopter.

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

	FY 2009	FY 2010	<b>FY 2011 Base</b>	FY 2011 OCO	FY 2011 Total
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	0.000	0.944	0.000	0.944
Total Adjustments	0.000	0.000	0.944	0.000	0.944
<ul> <li>Congressional General Reductions</li> </ul>		0.000			
<ul> <li>Congressional Directed Reductions</li> </ul>		0.000			
<ul> <li>Congressional Rescissions</li> </ul>	0.000	0.000			
Congressional Adds		0.000			
<ul> <li>Congressional Directed Transfers</li> </ul>		0.000			
Reprogrammings	0.000	0.000			
SBIR/STTR Transfer	0.000	0.000			
<ul> <li>Other Adjustments</li> </ul>	0.000	0.000	0.944	0.000	0.944

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY  3600: Research, Development, Test & Evaluation, Air Force  3A 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0207224F: COMBAT RESCUE AND RECOVERY	,
Change Summary Explanation The Mode 5 modification program is an OSD-mandated upgrade operations.	to the HH-60G's IFF systemthe primary means of aircraft id	entification during Air Defense

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

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

3600: Research, Development, Test & Evaluation, Air Force PE 0207224F: COMBAT RESCUE AND 671325: HH-60G

BA 7: Operational Systems Development RECOVERY

DA 1. Operational Systems Develop		NECOVEN	I								
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
671325: <i>HH-60G</i>	0.000	0.000	0.944	0.000	0.944	0.000	0.000	0.000	0.000	0.000	0.946
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

## A. Mission Description and Budget Item Justification

The Mode 5 modification is an OSD mandated upgrade to the HH-60G's IFF system (the primary means of aircraft identification during Air Defense operations). The Mode 5 upgrade will increase anti-spoofing/exploitation capabilities, and lower the possibility of aircraft/aircrew loss due to misidentification of friendly aircraft. The modification will include a new Mode 5 crypto applique, new IFF control panel, a circuit card upgrade to the APX-119 transponder, and support enquipment upgrades.

## B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
MAJOR THRUST: Studies, analysis, program office support, development of an acquisition strategy and test plan, support of source selection activities.	0.000	0.000	0.944	0.000	0.944
FY 2009 Accomplishments: In FY 2009: N/A					
FY 2010 Plans: In FY 2010: N/A					
FY 2011 Base Plans: In FY 2011: Studies, analysis, program office support, development of an acquisition strategy and test plan, support of source selection activities.					
FY 2011 OCO Plans: In FY2011 OCO: N/A					
Accomplishments/Planned Programs Subtotals	0.000	0.000	0.944	0.000	0.944

# **UNCLASSIFIED**

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

APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE** 

PE 0207224F: COMBAT RESCUE AND 671325: HH-60G 3600: Research, Development, Test & Evaluation, Air Force

BA 7: Operational Systems Development RECOVERY

**PROJECT** 

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

			<u>FY 2011</u>	<u>FY 2011</u>	<u>FY 2011</u>					Cost To	
<u>Line Item</u>	FY 2009	FY 2010	<u>Base</u>	OCO	<u>Total</u>	FY 2012	FY 2013	FY 2014	FY 2015	<b>Complete</b>	<b>Total Cost</b>
PE 0207224F: Combat Rescue	0.000	0.000	1.780	0.000	1.780	4.880	4.880	4.880	0.000	0.000	0.000
and Recovery											

## D. Acquisition Strategy

The HH-60 will upgrade its Mode 5/GPS in concert with current modifications as aircraft become available.

## **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.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force

**DATE:** February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

**PROJECT** 

3600: Research, Development, Test & Evaluation, Air Force

PE 0207224F: COMBAT RESCUE AND

671325: HH-60G

BA 7: Operational Systems Development

RECOVERY

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

			FY 2	010	FY 2 Ba		FY 2		FY 2011 Total	]			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
NRE	TBD/TBD	TBD TBD	0.000	0.000		0.400	Apr 2012	0.000		0.400	0.000	0.400	0.000
Software Development	TBD/TBD	TBD TBD	0.000	0.000		0.300	Apr 2012	0.000		0.300	0.000	0.300	0.000
		Subtotal	0.000	0.000		0.700		0.000		0.700	0.000	0.700	0.000

#### Remarks

Support (\$ in Millions)

	,												Į.
		FY 2	010	FY 2 Ba		FY 2	-	FY 2011 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
No text provided	TBD/TBD	No text provided No text provided	0.000	0.000		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

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force

**DATE:** February 2010

APPROPRIATION/BUDGET ACTIVITY

**R-1 ITEM NOMENCLATURE** 

**PROJECT** 

3600: Research, Development, Test & Evaluation, Air Force

PE 0207224F: COMBAT RESCUE AND

671325: HH-60G

BA 7: Operational Systems Development

RECOVERY

# Test and Evaluation (\$ in Millions)

				FY 20	010	FY 2 Ba	2011 se	FY 2		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Gov Test and Evaluation (Mode 5)	TBD/TBD	TBD TBD	0.000	0.000		0.244	Jun 2012	0.000		0.244	0.000	0.244	0.000
		Subtotal	0.000	0.000		0.244		0.000		0.244	0.000	0.244	0.000

#### Remarks

	Total Prior Years Cost	FY 2010		2011 ase		2011 CO	FY 2011 Total	Cost To	Total Cost	Target Value of Contract
Project Cost Totals	0.000	0.000	0.944		0.000		0.944	0.000	0.944	0.000

#### **Remarks**

Total Prior Years Cost may include only FY 2009 data.

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 0207224F: COMBAT RESCUE AND

RECOVERY

**PROJECT** 

671325: HH-60G



# HH-60G Mode 5 Schedule

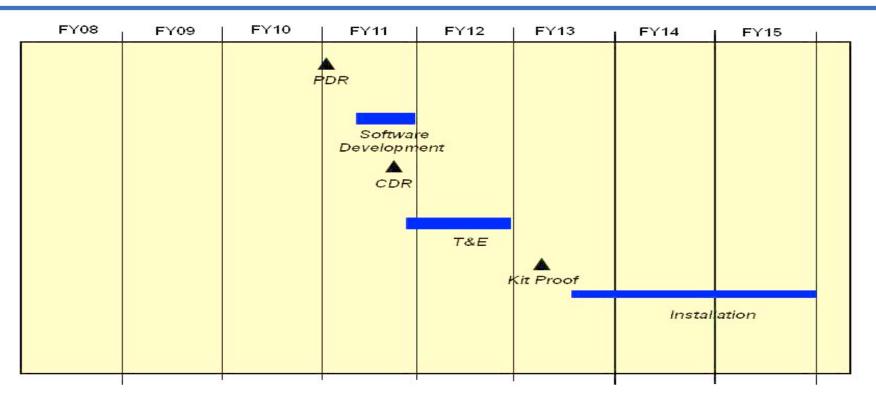


Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force **DATE:** February 2010

APPROPRIATION/BUDGET ACTIVITY

**R-1 ITEM NOMENCLATURE PROJECT** PE 0207224F: COMBAT RESCUE AND 3600: Research, Development, Test & Evaluation, Air Force 671325: HH-60G

BA 7: Operational Systems Development RECOVERY

# Schedule Details

	St	art	Eı	nd
Event	Quarter	Year	Quarter	Year
Preliminary Design Review (PDR)	1	2011	1	2011
Critical Design Review	4	2011	4	2011