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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Air Force **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>				PE 0604443F: <i>Third Generation Infrared Surveillance (3GIRS)</i>							
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	78.418	-	-	-	-	-	-	-	-	Continuing	Continuing
65A020: <i>AIRSS</i>	78.418	-	-	-	-	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

(U) The Department of Defense terminated the Third Generation Infrared Surveillance (3GIRS) program beginning in FY11.

(U) 3GIRS included development efforts for the Commercially Hosted Infrared Payload (CHIRP) demonstration. CHIRP efforts will continue through completion. The FY11 and FY12 funds needed to conduct the CHIRP demonstration for technology maturation of space and ground technologies were moved to the Space Based Infrared Systems (SBIRS) program, PE 0604441F under a separate project number (A040).

(U) This program is assigned to Budget Activity 5, System Development and Demonstration (SDD), because it funded the development activities for evolving the next generation of missile warning satellites.

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	73.369	-	-	-	-
Current President's Budget	78.418	-	-	-	-
Total Adjustments	5.049	-	-	-	-
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-0.306	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	5.355	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-	-	-	-	-

Change Summary Explanation

FY10: Congressional Program Reduction of \$69.8M removed 3GIRS development efforts not associated with CHIRP

FY10: Air Force reprogrammed \$5.4M to 3GIRS for CHIRP mission development.

NOTE: FY11 and FY12 CHIRP funds moved to SBIRS PE 0604441F.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force								DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604443F: <i>Third Generation Infrared Surveillance (3GIRS)</i>				PROJECT 65A020: <i>AIRSS</i>			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
65A020: <i>AIRSS</i>	78.418	-	-	-	-	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

(U) The Department of Defense terminated the Third Generation Infrared Surveillance (3GIRS) program beginning in FY11.

(U) 3GIRS included development efforts for the Commercially Hosted Infrared Payload (CHIRP) demonstration. CHIRP efforts will continue through completion. The FY11 and FY12 funds needed to conduct the CHIRP demonstration for technology maturation of space and ground technologies were moved to the Space Based Infrared Systems (SBIRS) program, PE 0604441F under a separate project number (A040).

(U) This program is assigned to Budget Activity 5, System Development and Demonstration (SDD), because it funded the development activities for evolving the next generation of missile warning satellites.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: Commercially Hosted Infrared Payload Description: Continue contracts for Commercially Hosted Infrared Payload (CHIRP) demonstration. FY 2010 Accomplishments: Completed CHIRP flight payload development and delivery to commercial host for integration and testing. Continued CHIRP flight payload integration and testing. Continued development and test of mission data processing and ground infrastructure to mature WFOV algorithms and technologies. Continued Program Office and related support activities. FY 2011 Plans: FY 2012 Base Plans: FY 2012 OCO Plans:	78.418	-	-	-	-
Accomplishments/Planned Programs Subtotals	78.418	-	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force	DATE: February 2011
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APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604443F: <i>Third Generation Infrared Surveillance (3GIRS)</i>	PROJECT 65A020: <i>AIRSS</i>
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C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u> <u>Base</u>	<u>FY 2012</u> <u>OCO</u>	<u>FY 2012</u> <u>Total</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PE 0604441F: <i>Space Based Infrared Systems, BPAC A040, RDT&E</i>	0.000	18.200	16.573	0.000	16.573	0.000	0.000	0.000	0.000	Continuing	Continuing

D. Acquisition Strategy

CHIRP will perform a launch and on-orbit demonstration starting in FY11. FY11 and FY12 activities will be funded within PE 0604441F, Space Based Infrared Systems (SBIRS).

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 2012 Air Force										DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604443F: Third Generation Infrared Surveillance (3GIRS)				PROJECT 65A020: AIRSS					
Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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
WFOV IR staring technologies risk reduction activities	Various	Various:Various,	159.613	-		-		-		-	0.000	159.613	159.613
Congressional Add: ASIRT	C/FFP	Ball Aerospace:Boulder, CO	0.446	-		-		-		-	0.000	0.446	0.446
System Engineering and Definition	C/Various	Various:Various,	32.153	-		-		-		-	0.000	32.153	32.153
Subtotal			192.212	-		-		-		-	0.000	192.212	192.212
Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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
Program office, developmental planning, and technical support including federally funded research and development center (FFRDC/ SETA)	Various	Various:Various,	29.614	-		-		-		-	0.000	29.614	29.614
Subtotal			29.614	-		-		-		-	0.000	29.614	29.614
Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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
Subtotal			-	-		-		-		-	0.000	0.000	0.000
Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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
Subtotal			-	-		-		-		-	0.000	0.000	0.000

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force									DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604443F: Third Generation Infrared Surveillance (3GIRS)				PROJECT 65A020: AIRSS				
		Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals		221.826	-		-		-		-	0.000	221.826	221.826

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604443F: <i>Third Generation Infrared Surveillance (3GIRS)</i>	PROJECT 65A020: <i>AIRSS</i>

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Air Force

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY

3600: *Research, Development, Test & Evaluation, Air Force*
BA 5: *Development & Demonstration (SDD)*

R-1 ITEM NOMENCLATURE

PE 0604443F: *Third Generation Infrared Surveillance (3GIRS)*

PROJECT

65A020: *AIRSS*

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Risk Reduction Sensors DT&E	1	2010	4	2010
CHIRP Payload Delivery	4	2010	4	2010
Algorithm DT&E Deliveries	1	2010	4	2010

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