

## UNCLASSIFIED

PE NUMBER: 0305148F

PE TITLE: AF Tac Measurement &amp; Sign

## Exhibit R-2, RDT&amp;E Budget Item Justification

DATE

February 2005

## BUDGET ACTIVITY

## 07 Operational System Development

## PE NUMBER AND TITLE

0305148F AF Tac Measurement &amp; Sign

Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	7.298	9.750	0.000	0.000	0.000	0.000	0.000	0.000	0.000	32.307
5053 ARGUS	7.298	9.750	0.000	0.000	0.000	0.000	0.000	0.000	0.000	32.307

(U) **A. Mission Description and Budget Item Justification**

The Advanced Remote Ground Unattended Sensor (ARGUS) Program will develop an air deliverable, unattended ground sensor design that will be tested and produced by the United States Marine Corps (USMC) Advanced Air Delivered Sensor (AADS) program. The sensor design will provide the USMC and joint forces with Intelligence, Surveillance & Reconnaissance (ISR) derived information for Intelligence Preparation of the Battlespace (IPB) on tactical targets. The system will inherently have the capability to provide situational awareness on mobile targets, to include Time Critical Targets (TCTs). The sensor will be autonomous and report in near real-time. The sensor is designed for 24/7 operations and can be air-delivered or hand-emplaced. Each sensor is self-contained with internal battery power, satellite communication transceiver, and sensor suite. The ARGUS design is a technology refresh and upgrade to the successful STEEL EAGLE and STEEL RATTLER Advanced Concept Technology Demonstrations.

This program is in budget activity 7, Operational Systems Development, because it addresses development and capabilities to support already operational weapon systems.

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

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Previous President's Budget	7.436	7.905	13.151	2.809
(U) Current PBR/President's Budget	7.298	9.750	0.000	0.000
(U) Total Adjustments	-0.138	1.845		
(U) Congressional Program Reductions				
Congressional Rescissions		-0.155		
Congressional Increases		2.000		
Reprogrammings	-0.138			
SBIR/STTR Transfer				

(U) **Significant Program Changes:**

Starting with FY06, USAF involvement in the ARGUS program will be cancelled to support higher priority requirements. ARGUS program will complete design phase of program in FY05 and transition test and procurement activity to the USMC AADS.

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5053 ARGUS

Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
5053 ARGUS	7.298	9.750	0.000	0.000	0.000	0.000	0.000	0.000	0.000	32.307
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) **A. Mission Description and Budget Item Justification**

The Advanced Remote Ground Unattended Sensor (ARGUS) Program will develop an air deliverable, unattended ground sensor design that will be tested and produced by the United States Marine Corps (USMC) Advanced Air Delivered Sensor (AADS) program. The sensor design will provide the USMC and joint forces with Intelligence, Surveillance & Reconnaissance (ISR) derived information for Intelligence Preparation of the Battlespace (IPB) on tactical targets. The system will inherently have the capability to provide situational awareness on mobile targets, to include Time Critical Targets (TCTs). The sensor will be autonomous and report in near real-time. The sensor is designed for 24/7 operations and can be air-delivered or hand-emplaced. Each sensor is self-contained with internal battery power, satellite communication transceiver, and sensor suite. The ARGUS design is a technology refresh and upgrade to the successful STEEL EAGLE and STEEL RATTLER Advanced Concept Technology Demonstrations.

This program is in budget activity 7, Operational Systems Development, because it addresses development and capabilities to support already operational weapon systems.

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

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Accomplishments/Planned Program	0.000	0.000		
(U) System Development and Demonstration (SDD)	4.902	9.750		
(U) Test support to SDD	1.896	0.000		
(U) Simulation Support	0.500	0.000		
(U) Total Cost	7.298	9.750	0.000	0.000

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

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) O&M, AF (3400)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		

Funds previously allocated to ARGUS O&M in future years have been reprogrammed to higher priority operational efforts with the termination of ARGUS in FY06.

(U) **D. Acquisition Strategy**

ARGUS develops the design for a remote measurement and signatures intelligence (MASINT) ground sensor using a spiral approach. ARGUS will terminate its activity with the completion of Spiral 1 design activities. AADS will test and produce the design. Future improvements will be addressed by AADS and the acquisition strategy will be determined by the USMC.

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## Exhibit R-3, RDT&amp;E Project Cost Analysis

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(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions) System Development & Demonstration & Contract Termination	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2004 Cost	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Textron	C/CPAF	ESC, Hanscom AFB, MA	6.138	4.902	Oct-03	9.750	Aug-04					0.000	20.790	
Subtotal System Development & Demonstration & Contract Termination Remarks:			6.138	4.902		9.750		0.000		0.000		0.000	20.790	0.000
(U) Test & Evaluation 40th Test Wing, Sandia; Joint Munitions Test & Evaluation Program Office; Textron	MIPR, C/CPAF	Eglin AFB, FL; DOE-Washin gton, DC; Hanscom AFB, MA	3.685	1.896	Dec-03							0.000	5.581	
Subtotal Test & Evaluation Remarks:			3.685	1.896		0.000		0.000		0.000		0.000	5.581	0.000
(U) Simulation Support Lincoln Lab, SEEK Eagle	FFRDC, MIPR	Hanscom AFB, MA; Eglin AFB, FL	0.200	0.500	Mar-04	0.000						0.000	0.700	
Subtotal Simulation Support Remarks:			0.200	0.500		0.000		0.000		0.000		0.000	0.700	0.000
(U) Concept & Technology Development (ACTD Completion) Sandia; Joint Munitions T&E Program Office	MIPR	DOE-Washin gton DC; Eglin AFB, FL	5.236	0.000		0.000						0.000	5.236	
Subtotal Concept & Technology Development (ACTD Completion) Remarks:			5.236	0.000		0.000		0.000		0.000		0.000	5.236	0.000
(U) Total Cost			15.259	7.298		9.750		0.000		0.000		0.000	32.307	0.000

Project 5053

R-1 Shopping List - Item No. 187-3 of 187-6

Exhibit R-3 (PE 0305148F)

## Exhibit R-4, RDT&amp;E Schedule Profile

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# ARGUS/AADS

## Acronyms & Legend



- ARGUS: Advanced Remote Ground Unattended Sensor
- AADS: Advanced Air-Delivered Sensor
- SRR: System Readiness Review
- PDR: Preliminary Design Review
- CDR: Critical Design Review
- LRIP: Low-Rate Initial Production
- DT/OA: Development Test/Operational Evaluation
- OT&E: Operational Test & Evaluation

 ARGUS activities

 AADS activities

*Integrity - Service - Excellence*

*Semper Fidelis*

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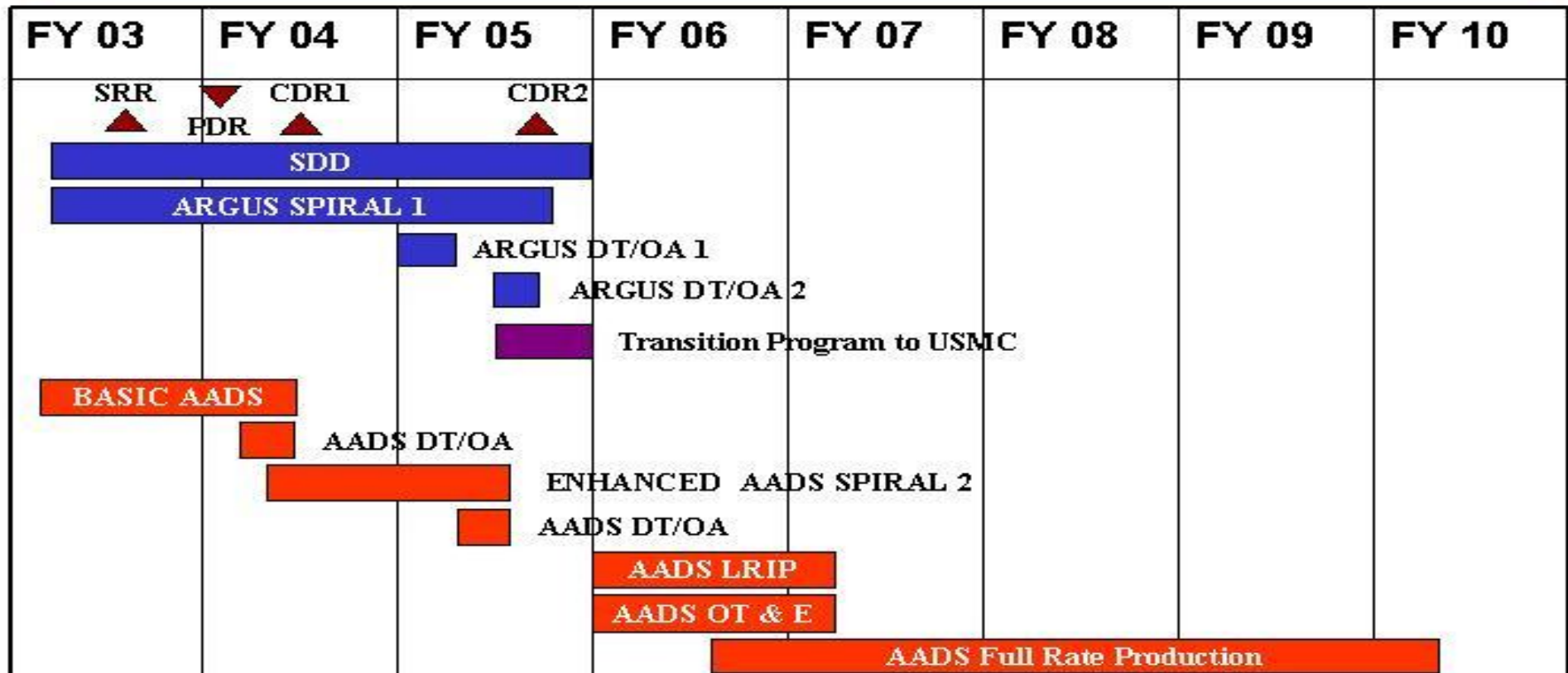
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# ARGUS/AADS Schedule

*Integrity - Service - Excellence**Semper Fidelis*

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## Exhibit R-4a, RDT&amp;E Schedule Detail

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(U) Schedule ProfileFY 2004FY 2005FY 2006FY 2007

(U) Preliminary Design Review

1Q

(U) AADS Development Test 1, Aerobody

2Q

(U) Critical Design Review 1

3Q

(U) ARGUS Development Test 1, Ballistic Test

1Q

(U) AADS Development Test 2, Aerobody

2Q

(U) ARGUS Development Test 2, Ballistic Test

3Q

(U) Critical Design Review 2, corrections for ballistic test and aerobody

3Q

(U) Transition program to USMC for initial operational test and production.

4Q

Terminates USAF involvement after Critical Design Review 2