

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification						DATE: <b>February 2007</b>		
APPROPRIATION/BUDGET ACTIVITY <b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY / BA-5</b>				R-1 ITEM NOMENCLATURE <b>0604501N/ADVANCED ABOVE WATER SENSORS</b>				
COST ( in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
<b>Total PE Cost</b>	<b>0.000</b>	<b>0.000</b>	<b>121.494</b>	<b>154.573</b>	<b>159.125</b>	<b>189.528</b>	<b>188.771</b>	<b>192.221</b>
3186/Air and Missile Defense Radar	0.000	0.000	109.128	141.300	150.037	179.811	182.700	186.033
3187/Periscope Detection	0.000	0.000	6.739	7.550	3.247	3.757	0.000	0.000
3188/Dual-Band Radar	0.000	0.000	5.627	5.723	5.841	5.960	6.071	6.188
<b>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b>								
<p><b>Air and Missile Defense Radar (AMDR):</b> The AMDR is being developed to support Theater Air and Missile Defense requirements as part of a next generation cruiser, CG(X), radar suite. The AMDR will provide multi-mission capabilities, supporting both long range, exoatmospheric detection, tracking and discrimination of ballistic missiles, as well as Area and Self Defense against air and surface threats. For the BMD capability, increased radar sensitivity and bandwidth over the current SPY-1 system is needed to detect, track and support engagements of advanced ballistic missile threats at the required ranges. For the Area Air Defense and Self Defense capability, increased sensitivity and clutter rejection capability is needed to detect, react to, and engage stressing Very Low Observable /Very Low Flyer (VLO/VLF) threats in the presence of heavy land, sea, and rain clutter. This effort provides for the development of an active phased array radar with the required capabilities to pace the evolving threat. Modularity of hardware and software, a designed in growth path for technology insertion, and Open Architecture (OA) Compliance are required for performance and technology enhancements throughout service life.</p> <p><b>Periscope Detection:</b> The CVN Periscope Detection Radar program develops and delivers a radar that provides automatic detection and discrimination of submarine periscopes using advanced algorithms enabling discrimination of periscopes from surface contacts, buoys, small boats, floating mines, etc. This effort is based on an advanced development model, developed in the PE 0603553N Antisubmarine Warfare.</p> <p><b>Dual-Band Radar (DBR) Upgrades:</b> The DBR Upgrades will fund future upgrades/technology insertion efforts for the Multi-Function Radar (MFR)/Volume Search Radar (VSR)/Dual Band Radar (DBR) suite. Upgrades and technology inserts are required to maintain the level of force protection needed for ship defense against all threats envisioned in the littoral environment. The upgrades will include all aspects of the radar system/subsystems, including hardware and software. Specific subsystem areas include the Array, T/R module, Receiver/Exciter, Signal Data Processor and power/cooling systems.</p>								
<b>B. PROGRAM CHANGE SUMMARY:</b>								
This PE was established for the FY2008 President's Budget. Previous Budget Submissions were PE 0604307N AEGIS Combat System Engineering - project 3044/Solid State Spy Radar and PE 0603513N/Shipboard System Component Development - project 4019/Radar Upgrades.								
Funding:		FY 2006	FY 2007	FY 2008	FY 2009			
Previous President's Budget: (FY07 PB Controls)		0.000	0.000	0.000	0.000			
Current President's Budget: (FY08 PB Controls)		0.000	0.000	121.494	154.573			
*Note: Controls established at FY08 OSD								
Total Adjustments		0.000	0.000	121.494	154.573			
Summary of Adjustments:								
Technical Realignment		0.000	0.000	128.361	160.782			
CIVPERS		0.000	0.000	-1.584	-1.895			
Other		0.000	0.000	-5.283	-4.314			
		0.000	0.000	121.494	154.573			
Schedule:								
N/A								
Technical:								
N/A								

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2007</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E,N / BA-5</b>		PROGRAM ELEMENT NUMBER AND NAME <b>0604501N/ADVANCED ABOVE WATER SENSORS</b>			PROJECT NUMBER AND NAME <b>3186/Air and Missile Defense Radar</b>			
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	0.000	0.000	109.128	141.300	150.037	179.811	182.700	186.033
RDT&E Articles Qty								

**A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:** The AMDR is being developed to support Theater Air and Missile Defense requirements as part of a next generation cruiser, CG(X), radar suite. The AMDR will provide multi-mission capabilities, supporting both long range, exoatmospheric detection, tracking and discrimination of ballistic missiles, as well as Area and Self Defense against air and surface threats. For the BMD capability, increased radar sensitivity and bandwidth over the current SPY-1 system is needed to detect, track and support engagements of advanced ballistic missile threats at the required ranges. For the Area Air Defense and Self Defense capability, increased sensitivity and clutter rejection capability is needed to detect, react to, and engage stressing Very Low Observable /Very Low Flyer (VLO/VLF) threats in the presence of heavy land, sea, and rain clutter. This effort provides for the development of an active phased array radar with the required capabilities to pace the evolving threat. Modularity of hardware and software, a designed in growth path for technology insertion, and Open Architecture (OA) Compliance are required for performance and technology enhancements throughout service life.

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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>	PROGRAM ELEMENT NUMBER AND NAME <b>0604501N/ADVANCED ABOVE WATER SENSORS</b>	PROJECT NUMBER AND NAME <b>3186/Air and Missile Defense Radar</b>		

**B. Accomplishments/Planned Program**

	FY 06	FY 07	FY 08	FY09
Accomplishments/Effort/Subtotal Cost	0.000	0.000	38.200	5.348
RDT&E Articles Quantity				

**R&D / RISK REDUCTION**

Planned:

- High Voltage (HV) GaAs Field Effect Transistor (FET) technology producibility
- Technology Risk reduction of Digital Array Radar (DAR) / digital beamforming, array architectures, T/R modules, thermal management, and RF semiconductors.
- Critical component and subsystem demonstrations, integration and testing
- Conduct related international cooperative research projects, including ARTIST (U.K.), AUSPAR (Australia), and JUSRR (Japan).

	FY 06	FY 07	FY 08	FY09
Accomplishments/Effort/Subtotal Cost	0.000	0.000	67.614	132.598
RDT&E Articles Quantity				

**SYSTEMS ENGINEERING**

Planned:

- Participate in the development of threat definitions, performance requirements and radar specifications; perform radar systems performance analysis.
- Participate in Integrated Product Teams (IPTs) and Working Groups (WGs) to resolve critical issues.
- Perform supporting studies and analyses.
- Conduct CG(X) Radar competition
- Award CG-X Radar SD&D Contract
- Conduct SFR for SD&D Contract

	FY 06	FY 07	FY 08	FY09
Accomplishments/Effort/Subtotal Cost	0.000	0.000	3.314	3.354
RDT&E Articles Quantity	0	0		

**PROGRAM MANAGEMENT SUPPORT**

Planned:

- Program planning, assessment of technical alternatives, risk identification and mitigation.
- Cost and schedule development and execution.

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<b>C. OTHER PROGRAM FUNDING SUMMARY:</b>										
<u>Line Item No. &amp; Name</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>FY2012</u>	<u>FY 2013</u>	<u>To Complete</u>	<u>Total Cost</u>
RDTEN 0604300N - 3107 CG (X) Development	19.388	9.234	86.767	173.133	222.968	241.328	245.812	250.435	Cont.	Cont.
RDTEN 0604307N - 3044 Solid State Spy Radar	10.931	35.294	0.000	0.000	0.000	0.000	0.000	0.000	Cont.	Cont.
<b>D. ACQUISITION STRATEGY:</b>										
<p><u>AMDR</u> : Plans for the Air and Missile Defense Radar are to leverage research and development investments, integrate sufficiently matured fundamental advanced technologies from technology risk reduction efforts and allies, and incorporate Open Architecture approaches to develop a scalable radar design with major improvements in power, sensitivity, resistance to natural and man-made environments over current radar systems for multi-mission TAMDR (BMD and Area AAW). System design will be accomplished using proven advanced technologies and commercial standards to lower schedule risk and develop a product with the lowest life-cycle cost.</p>										
<b>E. MAJOR PERFORMERS:</b>										
<p>R&amp;D/Risk Reduction: Raytheon, Northrop Grumman, Lockheed Martin                  AMDR: TBD (Competitive Procurement)</p>										

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)													DATE:	
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT NAME AND NUMBER				PROJECT NUMBER AND NAME						February 2007	
RDT&E, N / BA - 5			0604501N/ADVANCED ABOVE WATER SENSORS				3186/Air and Missile Defense Radar							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
R&D / Risk Reduction	Various	Various						38.200	TBD	5.348	TBD	Continuing	Continuing	TBD
	CPFF	JHU/APL										Continuing	Continuing	TBD
	Cost Share	CREE										Continuing	Continuing	TBD
	SS/CPAF	Lockheed Martin (NJ)												
	MIPR	DCMA												
	MIPR	DMEA										Continuing	Continuing	TBD
	MIPR	MIT										Continuing	Continuing	TBD
	WX	NSWC DD										Continuing	Continuing	TBD
System Engineering	Various	Various						67.614	TBD	132.598	TBD	Continuing	Continuing	TBD
	WX	Various										Continuing	Continuing	TBD
	CPAF	BAE Systems										Continuing	Continuing	TBD
	C.NF	GTRI										Continuing	Continuing	TBD
	CPFF	JHU/APL										Continuing	Continuing	TBD
	MIPR	MIT										Continuing	Continuing	TBD
	WX	NAVFAC PAC										Continuing	Continuing	TBD
	WX	NRL										Continuing	Continuing	TBD
	WX	NSWC Crane										Continuing	Continuing	TBD
	WX	NSWC DD										Continuing	Continuing	TBD
	WX	PHD										Continuing	Continuing	TBD
	WX	PMRF										Continuing	Continuing	TBD
	WX	SPAWAR										Continuing	Continuing	TBD
Subtotal Product Development								105.814		137.946		Continuing	Continuing	TBD
Remarks:														
Contractor Engineering	Various	Various						2.430	TBD	2.430	TBD	Continuing	Continuing	TBD
	CPAF	BAE Systems										Continuing	Continuing	TBD
Support / Management Services	Various	Various						0.809	TBD	0.849	TBD	Continuing	Continuing	TBD
	CPAF	BAE Systems										Continuing	Continuing	TBD
Travel								0.075	TBD	0.075	TBD	Continuing	Continuing	TBD
Subtotal:								3.314		3.354		Continuing	Continuing	TBD
Remarks:														
Total Cost								109.128		141.300		Continuing	Continuing	TBD





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EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2007</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E,N / BA-5</b>		PROGRAM ELEMENT NUMBER AND NAME <b>0604501N/ADVANCED ABOVE WATER SENSORS</b>			PROJECT NUMBER AND NAME <b>3187/Periscope Detection</b>			
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	0.000	0.000	6.739	7.550	3.247	3.757	0.000	0.000
RDT&E Articles Qty								

**A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:** The CVN Periscope Detection Radar program develops and delivers a radar that provides automatic detection and discrimination of submarine periscopes using advanced algorithms enabling discrimination of periscopes from surface contacts, buoys, small boats, floating mines, etc. This effort is based on an advanced development model, developed in the PE 0603553N, Surface Antisubmarine Warfare.

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EXHIBIT R-2a, RDT&E Project Justification	DATE: <b>February 2007</b>
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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>	PROGRAM ELEMENT NUMBER AND NAME <b>0604501N/ADVANCED ABOVE WATER SENSORS</b>	PROJECT NUMBER AND NAME <b>3187/Periscope Detection</b>
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**B. Accomplishments/Planned Program**

	FY 06	FY 07	FY 08	FY09
Accomplishments/Effort/Subtotal Cost	0.000	0.000	6.739	7.550
RDT&E Articles Quantity				

**SYSTEMS ENGINEERING**

- Planned:
- Design an EDM using established capabilities from previous radars (Algorithms utilized by ARPDD, technology based in part on the AN/SPQ-9B ASCM Radar) with modern computing advances in processing capability being inserted into the system using an Open Architecture approach.
  - Install EDM on platform(s)
  - Perform test and evaluation

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<b>C. OTHER PROGRAM FUNDING SUMMARY:</b>										
<u>Line Item No. &amp; Name</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>FY2012</u>	<u>FY 2013</u>	<u>To Complete</u>	<u>Total Cost</u>
0603553N Undersea Warfare	26.821	28.588	25.560	30.541	36.549	29.907	51.763	51.895	Cont.	Cont.
02042228N/2040 Radar Support (OPN)				10.612	10.299	16.716	10.465	0.000	Cont.	Cont.
<b>D. ACQUISITION STRATEGY:</b>										
<p><u>Periscope Detection</u> : Current Program scope is for 12 total units - 11 for installation onboard CVNs and 1 at a to be determined shore site. Of these 12 units, one will be an ADM and 11 will be Rapid Deployment Capability (RDC) units. Funding for 4 of the units will come from R&amp;D (ADM, plus three prototype RDC's) in FY 06 and FY07 procurements, and eight will be funded using OPN. The current proposed plan is for all units to be awarded sole source to Northrop Grumman Corporation (NGC). NGC will be responsible for the antenna, transmitter, receiver and processor for all 11 RDC units.</p>										
<b>E. MAJOR PERFORMERS:</b>										
<p>NGC will be manufacturing the radar antenna, transmitter, and receiver. 3 Phoenix will be designing the initial radar signal processor under an existing SBIR contract. Both companies are jointly responsible for the integration of the components into the ADM configuration with NGC having the overall responsibility as the lead integrator. Once the ADM has been completed, NGC assumes full integration responsibility for the three prototype RDCs and the eight production RDC units.</p>										



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EXHIBIT R-4, Schedule Profile																								DATE: <b>February 2007</b>								
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E,N/BA-5</b>								PROGRAM ELEMENT NUMBER AND NAME <b>0604501N/ADVANCED ABOVE WATER SENSORS</b>								PROJECT NUMBER AND NAME <b>3187/Periscope Detection</b>																
Fiscal Year	*2006				*2007				2008				2009				2010				2011				2012				2013			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
R3B				▲																												
Contract Awards			▲	▲																												
SFR				▲																												
PDR (ATD Only)					▲																											
CDR (ATD Only)								△																								
EDM												△																				
LBT												△																				
Production **															△	-----	-----	-----	-----	-----	-----	-----	-----	-----								
OPEVAL																			△													
Software Upgrades																			△	-----	-----	-----	-----									

\* Efforts prior to FY 08 are performed under 0603553N. The above schedule reflects the entire program.  
 \*\* Includes OPN Units

LEGEND	
ATD	Advance Technology Demonstration
CDR	Critical Design Review
EDM	Engineering Development Model
LBT	Land Based Testing
PDR	Preliminary Design Review
R3B	Resource and Requirements Review Board Decision
SFR	System Functional Review

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Exhibit R-4a, Schedule Detail					DATE: <b>February 2007</b>			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME			
<b>RDT&amp;E, N / BA-5</b>	<b>0604501N/ADVANCED ABOVE WATER SENSORS</b>				<b>3187/Periscope Detection</b>			
Schedule Profile	*FY 2006	*FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Resource and Requirements Review Board Decision	Q4							
Contract Award(s)	Q3-Q4							
System Functional Review (SFR)	Q4							
Preliminary Design Review (PDR)		Q1						
Critical Design Review (CDR)		Q2						
Engineering Development Model (EDM)			Q1					
Land Based Testing			Q2					
Production				Q2 through FY 2013				
OPEVAL					TBD			
Software Support				Q1-Q4	Q1-Q4	Q1-Q4		
* Efforts prior to FY 08 are performed under 0603553N. The above schedule reflects the entire program.								

EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2007</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>	PROGRAM ELEMENT NUMBER AND NAME 0604501N/ADVANCED ABOVE WATER SENSORS					PROJECT NUMBER AND NAME 3188/Dual-Band Radar Upgrades		
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	<b>0.000</b>	<b>0.000</b>	<b>5.627</b>	<b>5.723</b>	<b>5.841</b>	<b>5.960</b>	<b>6.071</b>	<b>6.188</b>
RDT&E Articles Qty	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**A. (U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:** The Dual-Band Radar (DBR) Upgrades will fund future upgrades/technology insertion efforts for the Multi-Function Radar (MFR)/Volume Search Radar (VSR)/Dual Band Radar (DBR) suite. Upgrades and technology inserts are required to maintain the level of force protection needed for ship defense against all threats envisioned in the littoral environment. The upgrades will include all aspects of the radar system/subsystems, including hardware and software. Specific subsystem areas include the Array, T/R module, Receiver/Exciter, Signal Data Processor and power/cooling systems.

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**B. Accomplishments/Planned Program**

	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.000	0.000	2.439	2.499
RDT&E Articles Quantity				

Radar Upgrades and Technology Insertion for the MFR/VSR/DBR hardware and software.

	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.000	0.000	2.988	2.999
RDT&E Articles Quantity				

Government Engineering Services and Program Management support for radar upgrades and technology insertion of the MFR/VSR/DBR radars. Perform oversight and assessment of efforts associated with this phase of the program.

	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.000	0.000	0.200	0.225
RDT&E Articles Quantity				

Provide Program Management in support of radar upgrades and technology insertion.

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**C. OTHER PROGRAM FUNDING SUMMARY:**

<u>Line Item No. &amp; Name</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>FY 2012</u>	<u>FY 2013</u>	<u>To Complete</u>	<u>Total Cost</u>
PE 0604300N/ DDG 1000 Total Ship Sys Engineering	985.907	738.953	429.173	328.059	383.921	435.539	245.071	150.602	CONT.	CONT.

**D. (U)ACQUISITION STRATEGY:**

**E. (U)MAJOR PERFORMERS:**

(U) Northrop Grumman Ship Systems, Raytheon and Lockheed Martin.

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Exhibit R-3 Cost Analysis (page 1)											DATE: <b>February 2007</b>			
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT					PROJECT NUMBER AND NAME						
<b>RD&amp;E, N / BA-5</b>			0604501N/ADVANCED ABOVE WATER SENSORS					3188/Dual-Band Radar Upgrades						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development														
Ancillary Hardware Development														
Systems Engineering	C/CPAF	DD (X) Design Agent						2.439	1QFY08	2.499	1QFY09	CONT	CONT	
Licenses														
Tooling														
GFE														
Award Fees														
Subtotal Product Development								2.439		2.499		CONT	CONT	
Remarks:														
Development Support														
Software Development														
Training Development														
Integrated Logistics Support														
Configuration Management														
GFE														
Award Fees														
Subtotal Support								0.000		0.000		0.000	0.000	
Remarks:														

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Exhibit R-3 Cost Analysis (page 2)											DATE:			
APPROPRIATION/BUDGET ACTIVITY											<b>February 2007</b>			
<b>RD&amp;E, N / BA-5</b>			PROGRAM ELEMENT					PROJECT NUMBER AND NAME						
			0604501N/ADVANCED ABOVE WATER SENSORS					3188/Dual-Band Radar Upgrades						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation														
Operational Test & Evaluation														
Test Assets														
Tooling														
GFE														
Award Fees														
Subtotal T&E								0.000		0.000		0.000	0.000	
Remarks:														
Contractor Engineering Support														
Government Engineering Support	WX	Other Gov't Activities						2.988	1QFY08	2.999	1QFY09	CONT	CONT	
Program Management Support	C/CPFF	Various						0.200	1QFY08	0.225	1QFY09	CONT	CONT	
Travel														
Labor (Research Personnel)														
SBIR Assessment														
Subtotal Management								3.188		3.224		CONT	CONT	
Remarks:														
Total Cost			0.000	0.000		0.000		5.627		5.723		CONT	CONT	
Remarks:														

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