EXHIBIT R-2, RDT&E Budget Item Justification							DATE: February 2005	
APPROPRIATION/BUDGET ACTIVITY **RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-7**					R-1 ITEM NOMENCLATURE 0204136N F/A-18 SQUADRONS			
COST ($ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total PE Cost	**163.970**	**127.946**	**88.720**	**21.046**	**13.629**	**10.473**	**10.650**	**10.906**
1662 F/A-18 Improvements	**56.193**	**36.887**	**21.273**	**14.678**	**10.713**	**10.473**	**10.650**	**10.906**
2065 F/A-18 RADAR Upgrade	**107.777**	**89.434**	**67.447**	**6.368**	**2.916**			
9614 Military Rapid Response Command Info. Sys.		**1.625**						

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The F/A-18 is capable of using external equipment to perform either fighter or attack missions. The capabilities of the F/A-18 weapon system can be upgraded to accommodate and incorporate new or enhanced weapons as well as advances in technology to respond effectively to emerging future threats. Continued development capability is required to successfully optimize new F/A-18 weapon system capabilities in the Fleet and to ensure interoperability in a network centric environment. Additionally, continued improvements in reliability and maintainability are necessary to ensure maximum benefit is achieved through reduced cost of ownership and to provide enhanced availability.

F/A-18 Improvements: The F/A-18 is a multi-mission strike fighter aircraft that is used in both fighter and attack roles through selected use of external equipment (fuel tanks, targeting/navigation, Advance Targeting Forward Looking Infrared (ATFLIR) pods, and various bomb/missile launching racks). Additional capabilities are required for interoperability in a network-centric operational environment. In order to respond effectively to emerging future threats, F/A-18 aircraft capabilities are being upgraded to incorporate new/enhanced weapons systems and avionics including the Joint Helmet Mounted Cueing System (JHMCS), development and integration of the Multifunctional Information Distributions System (MIDS), conversion of the System Configuration Set (SCS) to a Higher Order Language (HOL), development of the F/A-18 E/F Advanced Crew Station (ACS), replacement of Automatic Carrier Landing System (ACLS) in the F/A18, and upgrade of the existing Global Positioning System/Inertial Navigation System in order to meet precision strike/precision approach requirements. Continued hardware/software development is required to successfully optimize fleet F/A-18 weapons systems for interoperability in a network centric operational environment, to include: increased software capabilities, potential new hardware capabilities, upgrading existing hardware, and network centric warfare upgrades. Additionally, a continuing capability is needed to perform technical evaluations/investigative flight testing and provide software based on reported fleet problems.

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification	DATE: **February 2005**
APPROPRIATION/BUDGET ACTIVITY **RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-7**	R-1 ITEM NOMENCLATURE 0204136N F/A-18 SQUADRONS

F/A-18 Radar Upgrade: The F/A-18 Radar Upgrade, Active Electronically Scanned Array (AESA) development program, beginning in FY 1999, is the last of three pre-planned upgrades to the F/A-18 Type/Model/Series radar. The AESA corrects operational test deficiencies noted in the AN/APG-73. It provides for multi-target tracking, Synthetic Aperture Radar (SAR) imagery, SAR Target Location Error (TLE), and improved spotlight map resolution. In addition, it provides for greater lethality than previous F/A-18 radars by allowing for full tactical support of existing and planned air-to-air (A/A) and air-to-ground (A/G) weapons significantly increases A/A and A/G detection and tracking ranges. The AESA provides greater survivability through self-protection and standoff jamming capabilities, while its greater range allows for reduced detection by enemy radar. The AESA is also more affordable than previous radars. Significant savings in operating and support costs can be realized through a five fold increase in reliability over the AN/APG-73 as well as incorporating open architecture and Higher Order Language software. Additionally, savings can be realized by avoiding parts obsolescence redesign costs that will be experienced on the AN/APG-65 and AN/APG-73.

Military Rapid Response Command Information System: The Military Rapid Response-Command and Information System (MRRCIS) is a command, control, and communications mobile ground node that will provide enhanced connectivity between Naval TACAIR (F/A-18) weapon platforms and USMC's Expeditionary Warfare ground C2 nodes such as the On-the-Move Network Digital Over Horizon Radio System (CONDOR) and JFCOM's Rapid Attack Information Dissemination Execution Relay (RAIDER). This funding will be used to perform a initial proof-of-concept demonstration , system engineering and analysis on new technologies with the long range goal of establishing test and evaluation facilities in Hawaii. This work will leverage off of joint service facilities to test the Sea Power 21/ForceNet concepts above.

R-1 SHOPPING LIST - Item No.169

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE: **February 2005**	
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-7**	PROGRAM ELEMENT NUMBER AND NAME 0204136N/F/A-18 SQUADRONS				PROJECT NUMBER AND NAME 1662 F/A-18 Improvements			
COST ($ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	**56.193**	**36.887**	**21.273**	**14.678**	**10.713**	**10.473**	**10.650**	**10.906**
RDT&E Articles Qty								

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The F/A-18 is a multi-mission strike fighter aircraft that is used in both fighter and attack roles through selected use of external equipment (fuel tanks, targeting/navigation, Advance Targeting Forward Looking Infrared (ATFLIR) pods, and various bomb/missile launching racks). Additional capabilities are required for interoperability in a network-centric operational environment. In order to respond effectively to emerging future threats, F/A-18 aircraft capabilities are being upgraded to incorporate new/enhanced weapons systems and avionics including the Joint Helmet Mounted Cueing System (JHMCS), development and integration of the Multifunctional Information Distributions System (MIDS), conversion of the System Configuration Set (SCS) to a Higher Order Language (HOL), development of the F/A-18 E/F Advanced Crew Station (ACS), replacement of Automatic Carrier Landing System (ACLS) in the F/A18, and upgrade of the existing Global Positioning System/Inertial Navigation System in order to meet precision strike/precision approach requirements. Continued hardware/software development is required to successfully optimize fleet F/A-18 weapons systems for interoperability in a network centric operational environment, to include: increased software capabilities, potential new hardware capabilities, upgrading existing hardware, and network centric warfare upgrades. Additionally, a continuing capability is needed to perform technical evaluations/investigative flight testing and provide software based on reported fleet problems.

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CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: **February 2005**
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N / BA-7	0204136N/F/A-18 SQUADRONS	1662 F/A-18 Improvements

(U) B. Accomplishments/Planned Program

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	2.255	1.758	2.176	2.635
RDT&E Articles Quantity				

Continue to conduct engineering analysis and develop improvements to existing systems and subsystems for deficiencies identified during development of the aircraft. Provide technical support for the integration of new weapons, systems, and Network Centric Warfare capability.

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	12.326	12.583	12.766	9.193
RDT&E Articles Quantity				

Continue to develop and integrate enhancements to the effectiveness, interoperability, and safety of the F/A-18 Weapon System (airframe, avionics, and weapons) and subsytems to include MIDS and ANAV.

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	18.752	12.141	1.400	
RDT&E Articles Quantity				

Continue and complete development of JHMCS Front Seat and Operational Test. Start and complete development of Aft Seat capability.

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CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: **February 2005**
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N / BA-7	0204136N/F/A-18 SQUADRONS	1662 F/A-18 Improvements

(U) B. Accomplishments/Planned Program

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	14.327	7.257		
RDT&E Articles Quantity				

Complete software conversion from Assembly language to Higher Order Language (HOL) to include Software Configuration Set H1E and H2E. Start and complete Validation/Verification (V/V), OT, and OT&E.

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	8.533	3.148		
RDT&E Articles Quantity				

Complete Aft Crew Station development, integration, and testing.

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost			4.931	2.850
RDT&E Articles Quantity				

Start the development of the replacement for APN 202 and RT-1379, which make up the Automatic Carrier Landing System (ACLS) in the F/A-18.

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CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: **February 2005**
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N / BA-7	0204136N/F/A-18 SQUADRONS	1662 F/A-18 Improvements

(U) C. PROGRAM CHANGE SUMMARY:

(U)Funding:	FY 04	FY 05	FY 06	FY 07
Previous President's Budget:	64.504	44.296	14.603	11.320
Current BES/President's Budget	56.193	36.887	21.273	14.678
Total Adjustments	-8.311	-7.409	6.670	3.358
Summary of Adjustments				
Congressional program reductions				
Congressional undistributed reductions	-0.018	-0.400		
Congressional rescissions				
SBIR/STTR Transfer	-1.298			
Other adjustments		-7.009	6.266	3.105
Economic Assumptions	-0.060		0.404	0.253
Reprogrammings	-6.935			
Congressional increases				
Subtotal	-8.311	-7.409	6.670	3.358

(U) Schedule:

- MIDS: H2E operational test schedule slipped by one quarter to allow time to fix software discrepancies discovered in developmental testing. This slip in H2E operational test has also delayed MIDS OT&E.
- JHMCS Aft seat: Milestone decision authority has delayed FRP and CDR by one quarter to allow time for the government to negotiate a better FRP contract. H1E fleet release will be released same time as H2E fleet release.
- ANAV: Developmental contract was awarded in Sept 2003, a one quarter delay, which caused PDR and CDR to slip by 2 quarters.
- ACLS: Money was programmed in the budget for the replacement for ACLS in the F/A-18.

(U) Technical:

R-1 SHOPPING LIST - Item No.169

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2005
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-7**	PROGRAM ELEMENT NUMBER AND NAME 0204136N/F/A-18 SQUADRONS	PROJECT NUMBER AND NAME 1662 F/A-18 Improvements

D. OTHER PROGRAM FUNDING SUMMARY:

Line Item No. & Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Cost
APN-1 (E/F) Weapons System Cost Line Item 4 F/A-18E/F Hornet (MYP)	3043.917	2979.309	2822.335	2333.992	2044.012	1802.502	1806.927	1558.971		18391.965
APN-1 (G) Weapons System Cost Line Item 2 EA-18G		8.211	336.661	891.507	1308.289	1627.333	1469.445	1083.602		6725.048
APN-5 Line Item 30 F-18 Series Modification	373.004	424.132	422.444	465.966	519.802	541.896	516.594	523.002	1340.9	5127.74

Related RDT&E
(U) P.E. 064269N EA-18 G (FY05-11)
(U) P.E. 0604270N Electronic Warfare Development (FY02-04)

E. ACQUISITION STRATEGY:

The F/A-18 Improvements program consists of extensive development projects and integration of avionics systems onto the F/A-18E/F. The major programs within the F/A-18 Improvements project are:

- **ANAV**. ANAV development is provided on a sole source cost plus fixed fee contract on an R&D Basic Ordering Agreement to Boeing. Procurement of production hardware will be made as CFE through the prime contractor.

- **Higher Order Language (HOL)**. The conversion of the System Configuration Set software to HOL will be accomplished by the F/A-18 Advanced Weapons Laboratory at China Lake as the designated Software Support Activity for the F/A-18. The design of the software will be accomplished by Boeing under sole source cost type contracts. The contract vehicle is a Technical Direction Letter contract at China Lake. As the Prime contractor for the aircraft, Boeing is the design agent for software of aircraft in production.

- **Advanced Crew Station.** The design and development of the Advanced Crew Station modification is sole source to Boeing as the Prime aircraft contractor.

- **MIDS**. An acquisition developmental effort supported by SPAWAR (PMW-159), MIDS is being developed by a consortium of international companies.

- **JHMCS**. JHMCS development is via a sole source cost plus award fee Joint Air Force contract to Boeing.

- **ACLS**. ACLS development is provided on a sole source cost plus fixed fee contract on an R&D Basic Ordering Agreement to Boeing. Procurement of production hardware will be made as CFE

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)								DATE: **Februrary 2005**				
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-7**		PROGRAM ELEMENT 0204136N F/A-18 SQUADRONS			PROJECT NUMBER AND NAME 1662 F/A-18 Improvements							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development PIDS/DCS	SS/CPFF/FFP	MDA-ST LOUIS,MO	90.000								90.000	90.000
Primary Hardware Development ATFLIR	SS/CPIF/AF	MDA-ST LOUIS,MO	166.147								166.147	166.147
AWARD FEE ATFLIR			1.576								1.576	
Primary Hardware Development ANAV	SS/CPFF	MDA-ST LOUIS,MO	13.522	5.193	01/05	2.912	01/06	0.575	01/07	0.734	22.936	22.936
Primary Hardware Development ACS	SS/CPIF	MDA-ST LOUIS, MO	50.301	0.192	12/04						50.493	50.493
Primary Hardware Development JHMCS	MIPR	WPAFB DAYTON, OHIO	45.315	4.094	01/05						49.409	
Primary Hardware Development MISC.	WX	OTHER FIELD ACTIVITIES	30.516	0.267	VAR					20.528	51.311	
Primary Hardware Development ACS	SS/CPFF	Triton, MD	2.500								2.500	2.500
Ancillary Hdw Develop ATFLIR	WX	NAWCAD-LAKEHURST NJ	9.201								9.201	
System Engineering	WX	NAWCAD, PAX RIVER, MD	3.792	1.092	12/04						4.884	
Subtotal Product Development			412.870	10.838		2.912		0.575		21.262	448.457	

Remarks:
FY99 and prior year award fee earned is 74.7% (ATFLIR)

Development Support MISC	VARIOUS	VARIOUS	36.792	1.475	12/04	1.459	12/05	0.958	12/06	2.989	43.673	
Software Development	WX	NAWCWD-CHINA LAKE	130.494	15.397	11/04	5.266	11/05	4.193	11/06	4.317	159.667	
Software Development (TDL)	SS/CPIF/TDL	MDA/NAWCWD-CHINA LAK	127.560	4.612	11/04	3.800	11/05	2.777	11/06	0.370	139.119	139.119
Prior Year Costs	Various	Various	2,567.069								2,567.069	
Subtotal Support			2,861.915	21.484		10.525		7.928		7.676	2,909.528	

Remarks:
Prior year costs (FY95 & prior) not broken out into separate categories.

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CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)								DATE: **February 2005**				
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-7**		PROGRAM ELEMENT 0204136N F/A-18 SQUADRONS				PROJECT NUMBER AND NAME 1662 F/A-18 Improvements						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WX	NAWCAD, PAX RIVER, MD	51.668	0.794	11/04	4.501	11/05	2.700	11/06	2.000	61.663	
Operational Test & Evaluation	WX	OPTEVFOR, NORFOLK, VA	9.251	2.051	12/04	1.400	12/05	2.198	11/06	1.000	15.900	
Subtotal T&E			60.919	2.845		5.901		4.898		3.000	77.563	
Remarks:												
Program Management Sup	VARIOUS	NAVAIR, PAX RIVER, MD	13.843	0.915	12/04	1.157	12/05	0.547	12/06	8.548	25.010	
Travel	WX	NAVAIR, PAX RIVER, MD	5.229	0.805	VAR	0.778	VAR	0.730	VAR	2.256	9.798	
Subtotal Management			19.072	1.720		1.935		1.277		10.804	34.808	
Remarks:												
Total Cost			3,354.776	36.887		21.273		14.678		42.742	3,470.356	
Remarks:												

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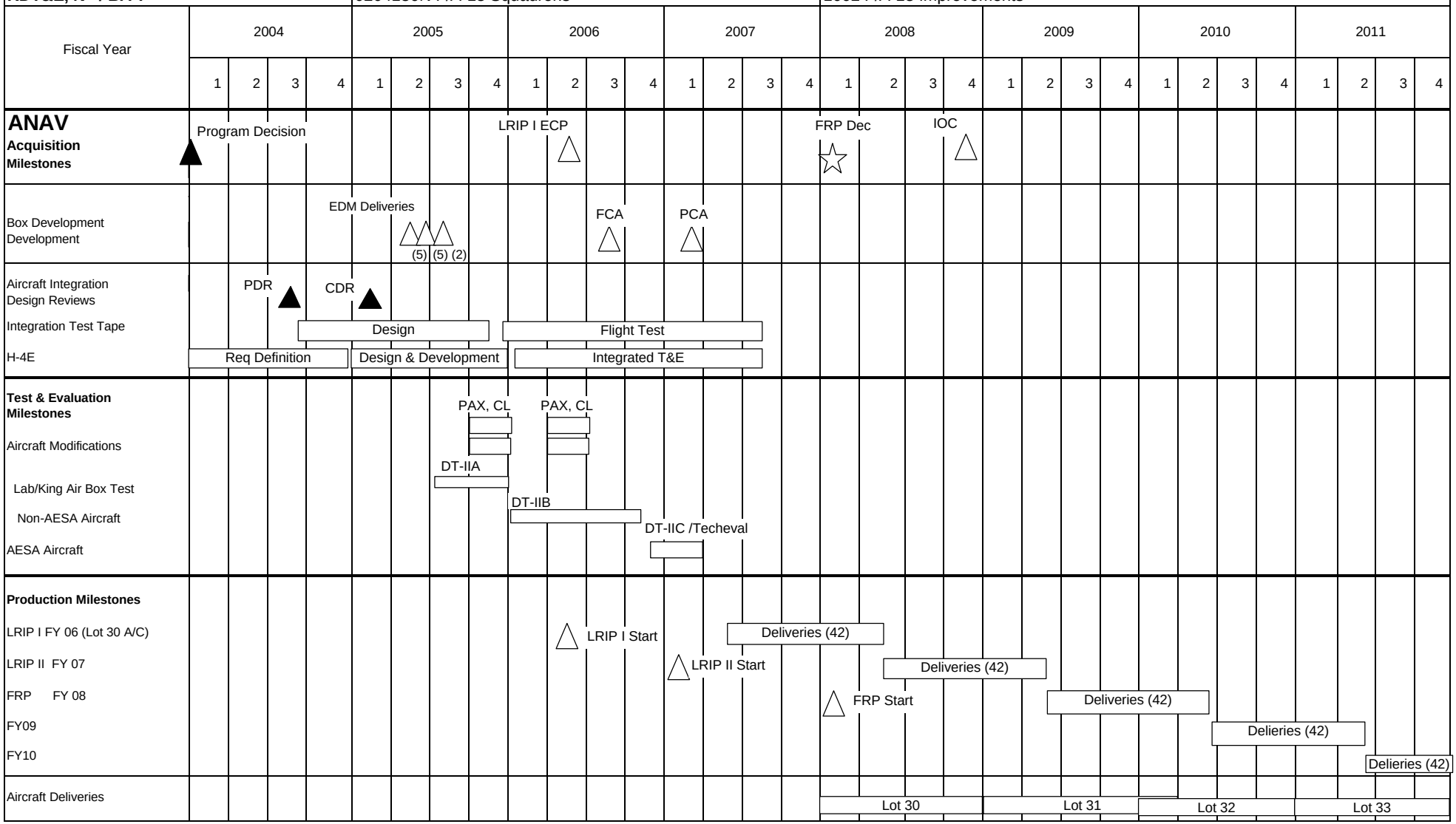
CLASSIFICATION:

EXHIBIT R4, Schedule Profile | DATE: **February 2005**

APPROPRIATION/BUDGET ACTIVITY: **RDT&E, N / BA-7**

PROGRAM ELEMENT NUMBER AND NAME: 0204136N F/A-18 Squadrons

PROJECT NUMBER AND NAME: 1662 F/A-18 Improvements



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CLASSIFICATION:

Exhibit R-4a, Schedule Detail					DATE: **February 2005**			
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-7**	PROGRAM ELEMENT 0204136N F/A-18 Squadrons			PROJECT NUMBER AND NAME 1662 F/A-18 Improvements				
Schedule Profile for **ANAV**	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Box Critical Design Review (CDR)	1Q							
Eng Dev Model (EDM) Radar Delivery - Lab		2Q-3Q						
System Preliminary Design Review (PDR)	3Q							
System Critical Design Review (CDR)		1Q						
Test Tape Development/Test	3Q-4Q	1Q-4Q						
Flight Test		4Q	1Q-4Q	1Q-3Q				
H-4E SCS Requirement Definition	1Q-4Q							
H-4E SCS Development/Test		1Q-4Q	1Q-4Q	1Q-3Q				
Aircraft Modification		4Q	1Q, 2Q-3Q					
Lab/King Air Flt Test		3Q-4Q						
Developmental Testing (DT-IIA)		3Q-4Q						
Start Low-Rate Initial Production I (LRIP I)			2Q					
DT-IIB			1Q-4Q					
DT-IIC			4Q	1Q				
Functional Configuration Audit (FCA)			3Q					
LRIP I Delivery				2Q-4Q				
LRIP II Start				1Q				
Physical Configuration Audit				1Q				
DT-IIC TECHEVAL			4Q	1Q				
LRIP II Delivery								
FRP Start								
IOC								
FRP Deliveries								

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CLASSIFICATION:

EXHIBIT R4, Schedule Profile																																DATE: **February 2005**
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-7**					PROGRAM ELEMENT NUMBER AND NAME 0204136N F/A-18 Squadrons												PROJECT NUMBER AND NAME 1662 F/A-18 Improvements																
Fiscal Year	2004				2005				2006				2007				2008				2009				2010				2011			
	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
ACS **Acquisition Milestones**	FRP DVMC △											IOC ☆																					
Prototype Phase																																
Test & Evaluation Milestones																																
Development Test	H2E DT								TECH EVAL																							
Operational Test										FOT&E																						
Production Milestones																																

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CLASSIFICATION:

Exhibit R-4a, Schedule Detail					DATE: **February 2005**			
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-7**	PROGRAM ELEMENT 0204136N F/A-18 Squadrons				PROJECT NUMBER AND NAME 1662 F/A-18 Improvements			
Schedule Profile for **ACS**	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
FRP DVMC	1Q							
First flight Developmental Testing (DT) for ACS Aircraft with H2E.	1Q-4Q	1Q-3Q						
TECHEVAL		4Q	1Q-2Q					
FOT&E ACS			2Q-4Q					
IOC			4Q					

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CLASSIFICATION:

EXHIBIT R4, Schedule Profile | DATE: **February 2005**

APPROPRIATION/BUDGET ACTIVITY: **RDT&E, N / BA-7**

PROGRAM ELEMENT NUMBER AND NAME: 0204136N F/A-18 Squadrons

PROJECT NUMBER AND NAME: 1662 F/A-18 Improvements

Fiscal Year	2004				2005				2006				2007				2008				2009				2010				2011			
	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
ACLS Acquisition Milestones																	IOC ☆															
Development Phase									Design/Integration																							
Test & Evaluation Milestones																																
Development Test													OTRR △																			
Operational Test														OPEVAL																		
Production Activities																																
Aircraft Lot 30 Deliveries																LOT 30 (42)																
Aircraft Lot 31 Deliveries																				Lot 31 (42)												
Aircraft Lot 32 Deliveries																								Lot 32 (42)								
Aircraft Lot 33 Deliveries																												Lot 33 (42)				

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* Not required for Budget Activities 1, 2, 3, and 6

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE: **February 2005**		
APPROPRIATION/BUDGET ACTIVITY **RDT&BA-7**	PROGRAM ELEMENT 0204136N F/A-18 Squadrons				PROJECT NUMBER AND NAME 1662 F/A-18 Improvements			
Schedule Profile, **ACLS**	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Design/Integration			1Q-4Q	1Q				
Operational Test Readiness Review (OTRR)				1Q				
Operational Evaluation (OPEVAL)				2Q-3Q				
IOC								
Lot-30 Deliveries				4Q				
Lot-31 Deliveries								
Lot-32 Deliveries								
Lot-33 Deliveries								

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CLASSIFICATION:

EXHIBIT R4, Schedule Profile			DATE: **February 2005**
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-7**	PROGRAM ELEMENT NUMBER AND NAME 0204136N F/A-18 Squadrons	PROJECT NUMBER AND NAME 1662 F/A-18 Improvements	

Fiscal Year	2004				2005				2006				2007				2008				2009				2010				2011			
	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
HOL **Development Milestones**		H2E OTRR 04 △																														
Verification/Validation	H2E V&V																															
Test & Evaluation Milestones Development Test Operational Test	H2E DT □ H1E FOT&E		H2E FOT&E																													
Fleet Release				H2E Fleet Release △																												

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CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE: **February 2005**		
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-7**	PROGRAM ELEMENT 0204136N F/A-18 Squadrons				PROJECT NUMBER AND NAME 1662 F/A-18 Improvements			
Schedule Profile for **HOL**	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
H1E								
Follow On Test and Evaluation (FOT&E)	1Q							
H2E Requirements Definition								
Development Test (DT)	1Q-2Q							
Validation & Verification (V&V)	1Q-3Q							
Operational Test Readiness Review (OTRR)	3Q							
Follow On Test and Evaluation (FOT&E)	3Q-4Q	1Q						
Fleet Release		2Q						

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CLASSIFICATION:

EXHIBIT R4, Schedule Profile | DATE: **February 2005**

APPROPRIATION/BUDGET ACTIVITY: **RDT&E, N / BA-7**

PROGRAM ELEMENT NUMBER AND NAME: 0204136N F/A-18 Squadrons

PROJECT NUMBER AND NAME: 1662 F/A-18 Improvements

Fiscal Year	2004				2005				2006				2007				2008				2009				2010				2011			
	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
JHMCS **Acquisition Milestones**	MS III																															
Prototype Phase																																
JHMCS Front Seat Development																																
JHMCS Aft Seat Development	PDR			CDR																												
Software OFP-19C Delivery OFP-H3E Delivery	TRR	DT			Ver/Val	FOT&E	Delivery																									
	Design/Develop				TRR		DT				OTRR	FOT&E	Delivery																			
Test & Evaluation Milestones		D/F Aft DT				D OTRR				F Aft DT		F OTRR																				
Development Test																																
Operational Test																																
			FOT&E D AFT Seat									FOT&E F AFT Seat																				
Production Deliveries																																
LRIP III																																
LRIP IV		LRIP IV Start																														
FRP			FRP																													

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Note: MS III decision in work by MDA. Proposed plan, addition of LRIP IV in FY03, followed by MS III decision in early FY04.

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE: **February 2005**		
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-7**	PROGRAM ELEMENT 0204136N F/A-18 Squadrons				PROJECT NUMBER AND NAME 1662 F/A-18 Improvements			
Schedule Profile for **JHMCS**	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Preliminary Design Review (PDR) AFT Seat	1Q							
Critical Design Review (CDR) AFT Seat	4Q							
Test Readiness Review (TRR) Aft Seat	1Q,4Q							
Developmental Testing Aft Seat	1Q-4Q	1Q-4Q	1Q-2Q					
Operational Testing (OT-IIB) Front Seat								
Development Test (DT) D AFT seat	1Q-4Q	1Q-2Q						
Development Test (DT) F AFT seat		3Q-4Q	1Q-2Q					
Software Delivery OFP-19C		4Q						
Follow On Test Evaluation (D Aft Seat)		2Q-3Q						
Follow On Test Evaluation (F Aft Seat)			3Q-4Q					
Software Delivery OFP-H3E				1Q				
LRIPIV	2Q							
Full Rate Production Start	3Q							

R-1 SHOPPING LIST - Item No. 169

CLASSIFICATION:

EXHIBIT R-4a, Schedule Profile

DATE: **February 2005**

APPROPRIATION/BUDGET ACTIVITY: **RDT&E/BA-7**

PROGRAM ELEMENT: 0204136N F/A-18 Squadrons

PROJECT NUMBER AND NAME: 1662 F/A-18 Improvements

Fiscal Year	2004				2005				2006				2007				2008				2009				2010				2011			
	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
MIDS LVT F/A-18 Milestones																																
MIDS F/A-18 Production Deliveries																																
F/A-18C/D MIDS Integration																																
C/D DT&E		DT-IIIA-1																														
C/D OT&E			VCD			OT-IIIA-1																										
F/A-18 E/F MIDS Integration																																
E/F DT&E	DT-IIIA-1																															
E/F OT&E			VCD			OT-IIIA-1																										
F/A-18 MC SW Development																																
19C Software Configuration Set						19C OT																										
21C SCS (SIAP Block 0) [C/D]	REQUIREMENTS				DESIGN				DEVELOPMENT				V&V																			
H4E SCS (SIAP Block 0) [E/F]	REQUIREMENTS					DESIGN				DEVELOPMENT						OT&E																
SIAP SOW Tasks					SIAP SOW Tasks																											

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Exhibit R-4a, Schedule Detail						Date: February 2005		
APPROPRIATION/BUDGET ACTIVITY RDT&E/BA-7	PROGRAM ELEMENT 0204136N F/A-18 Squadrons				PROJECT NUMBER AND NAME			
MIDS Schedule Profile	FY2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
MIDS F/A-18 Production Deliveries	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q				
F/A-18C/D MIDS Integration								
C/D DT&E	1Q-2Q	1Q-2Q						
C/D OT&E	3Q-4Q	2Q-4Q						
F/A-18 E/F MIDS Integration								
E/F DT&E	1Q-4Q	1Q-2Q						
E/F OT&E	3Q-4Q	1Q-4Q						
F/A-18 MC SW Development								
19C SCS		2Q-4Q						
21C SCS (SIAP Block 0) [C/D]	1Q-4Q	1Q-4Q	1Q-4Q					
H4E SCS (SIAP Block 0) [E/F]	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q				
SIAP SOW Tasks	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q				

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Termination Liability Funding
For Major Defense Acquistion Programs,
RDT&E Funding
($000)

Program	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
1662 F/A-18 Improvements	0	0	0	0	0	0	0	0

This program does not budget/fund termination liability separately. A Limitation of Funds (LoF) clause (FAR 52.232-22) is inserted in all incrementally funded R&D contracts. This clause is designed to limit the government's legal liability to the amount obligated.

Instructions:
1. For all ACAT I programs with RDT&E funding, indicate the funds, by year, budgeted for termination liability.
2. If not budgeted, provide the appropriate waiver authority.
3. For programs with waiver authority, identify the amounts on the contract, by year.

EXHIBIT R-2a, RDT&E Project Justification							DATE: **February 2005**	
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-7**	PROGRAM ELEMENT NUMBER AND NAME 0204136N/F/A-18 SQUADRONS				PROJECT NUMBER AND NAME 2065 F/A-18 RADAR Upgrade			
COST ($ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
2065/RADAR UPGRADE	**107.777**	**89.434**	**67.447**	**6.368**	**2.916**			

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The F/A-18 Radar Upgrade, Active Electronically Scanned Array (AESA) development program began in FY 1999. It is the last of three pre-planned upgrades to the F/A-18 Type/Model/Series radar. The AESA corrects operational test deficiencies noted in the AN/APG-73. It provides for multi-target tracking, SAR imagery, SAR TLE, and improved spotlight map resolution. In addition, it provides for greater lethality than previous F/A-18 radars by allowing for full tactical support of existing and planned air-to-air (A/A) and air-to-ground (A/G) weapons, significantly increasing A/A and A/G detection and tracking ranges. The AESA provides greater survivability through self-protection and standoff jamming capabilities, while its greater range allows for reduced detection by enemy radar. The AESA is also more affordable than previous radars. Significant savings in operation and support costs can be realized through a five fold increase in reliability over the AN/APG-73 as well as incorporating open architecture and Higher Order Language software. Additionally, savings can be realized by avoiding parts obsolescence redesign costs that will be experienced on the AN/APG-65 and AN/APG-73.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE: **February 2005**
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N / BA-7	0204136N F/A-18 SQUADRONS	2065 F/A-18 RADAR Upgrade	

B. Accomplishments/Planned Program

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	73.551	56.455	38.899	6.368
RDT&E Articles Quantity				

Continue EMD effort and radar cross-section assessments. Start Anti-Tamper Development in FY05 and continue through completion in FY08.

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	27.791	20.559	18.698	
RDT&E Articles Quantity				

Continue software development, DT, and systems integration efforts.

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	6.435	12.420	9.850	
RDT&E Articles Quantity				

AESA OT&E.

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CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: **February 2005**
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N / BA-7	0204136N F/A-18 SQUADRONS	2065 F/A-18 RADAR Upgrade

C. PROGRAM CHANGE SUMMARY:

Funding:	FY 04	FY 05	FY 06	FY 07
Previous President's Budget:	108.239	90.284	68.395	6.629
Current BES/President's Budget	107.777	89.434	67.447	6.368
Total Adjustments	-0.462	-0.850	-0.948	-0.261
Summary of Adjustments				
Congressional program reductions				
Congressional undistributed reductions		-0.831		
Congressional rescissions				
SBIR/STTR Transfer	-2.270			
Other adjustments		-0.019	-1.800	-0.365
Economic Assumptions	-0.100		0.852	0.104
Reprogrammings	1.908			
Congressional increases				
Subtotal	-0.462	-0.850	-0.948	-0.261

Schedule:

A Low Rate Initial Production (LRIP) 4 was added during the Milestone C review in January 2004.
- Integrated Testing & Evaluation versus Technical Evaluation/Operational Evaluation to increase efficiency and enable CONOPs development earlier. The overall Test and Evaluation schedule will complete in 3rd Quarter as previously scheduled.
- Added H4E Build 4 with software risk associated.

Technical:

- Software issues ad less than planned test performance has added contractual cost and schedule pressure. Therefore, in order to deliver AESA on schedule, meeting Key Performance Parameters (KPP), non-KPP functionality has been deferred.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: **February 2005**
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-7**	PROGRAM ELEMENT NUMBER AND NAME 0204136N F/A-18 SQUADRONS	PROJECT NUMBER AND NAME 2065 F/A-18 RADAR Upgrade

D. OTHER PROGRAM FUNDING SUMMARY:

Line Item No. & Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Cost
(1) Line Item 3 F/A-18E/F HORNET (MYP) APN-1	84.155	110.831	151.443	127.046	105.656	86.604	113.952	73.397	0.000	853.083
(2) Line Item 27 F-18 SERIES MOD APN-5 (OSIP XX-08)					70.402	77.524	117.441	49.876	258.527	573.77

E. ACQUISITION STRATEGY:

The AESA program employs a two-phase approach with sole source contracts to Boeing, the airframe prime manufacturer. Phase I is a moderate risk reduction phase conducted in FY 1999 and FY 2000. During this phase, Boeing conducted competitive source selection at the radar system subcontract level. A BOA order for RFP development and subcontractor selection was made to conduct this effort. It includes an "845" agreement for prototype development, which includes commercial development/amortization provisions. Conducting the competition early in the program allowed for focused risk reduction and contractor investment. Phase II consisted of a typical System Demonstration program and development contract. The program transitioned to Phase II with a successful Milestone II Decision in FY 2001. When the program entered production in FY03, the "845" agreement allowed the contractor to amortize unreimbursed development costs into the production unit cost. This strategy fully utilizes acquisition reform initiatives such as: early partnering with industry; alpha contracting; leveraging industry investment; optimizing use of Commercial Off-the Shelf software and Non-Developmental Item; Cost as an Independent Variable; and Electronic Data Deliverables.

F. MAJOR PERFORMERS: Not required for this submission.

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)								DATE: **February 2005**				
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-7**			PROGRAM ELEMENT 0204136N F/A-18 SQUADRONS			PROJECT NUMBER AND NAME 2065 F/A-18 RADAR Upgrade						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Dev (EMD)	SS/CPFF	MDA - St Louis, MO	361.746	56.395	10/04	38.859	10/05	6.368	10/06	2.916	466.284	466.284
Primary Hardware Dev (pre-EMD)	SS/CPFF	MDA - St Louis, MO	4.900								4.900	4.900
GFE	SS	MDA - St Louis, MO	3.517								3.517	3.517
Subtotal Product Development			370.163	56.395		38.859		6.368		2.916	474.701	

Remarks:
The development contract has experience technical issues, resulting in cost growth to partialli mitigate this cost growth, non-KPP functionality has been deferred. The additional contract cost is being absorbed within the current prgram funding. Moving froma separate Development Testing/Operational Testing test plan to an Integrated Test and Evaluation plan has reduced Test and Evaluation costs sufficiently to absorb the contract cost growth.

Software Development	WX	NAWCWD China Lake, CA	24.444	14.580	10/04	11.250	10/05				50.274	
Integrated Logistics Support	WX	NADEP North Island, CA	0.371								0.371	
Integrated Logistic Support	WX	NAWCAD Lakehurst, NJ	0.971	0.175	10/04	0.182	10/05				1.328	
Subtotal Support			25.786	14.755		11.432		0.000		0.000	51.973	

Remarks:

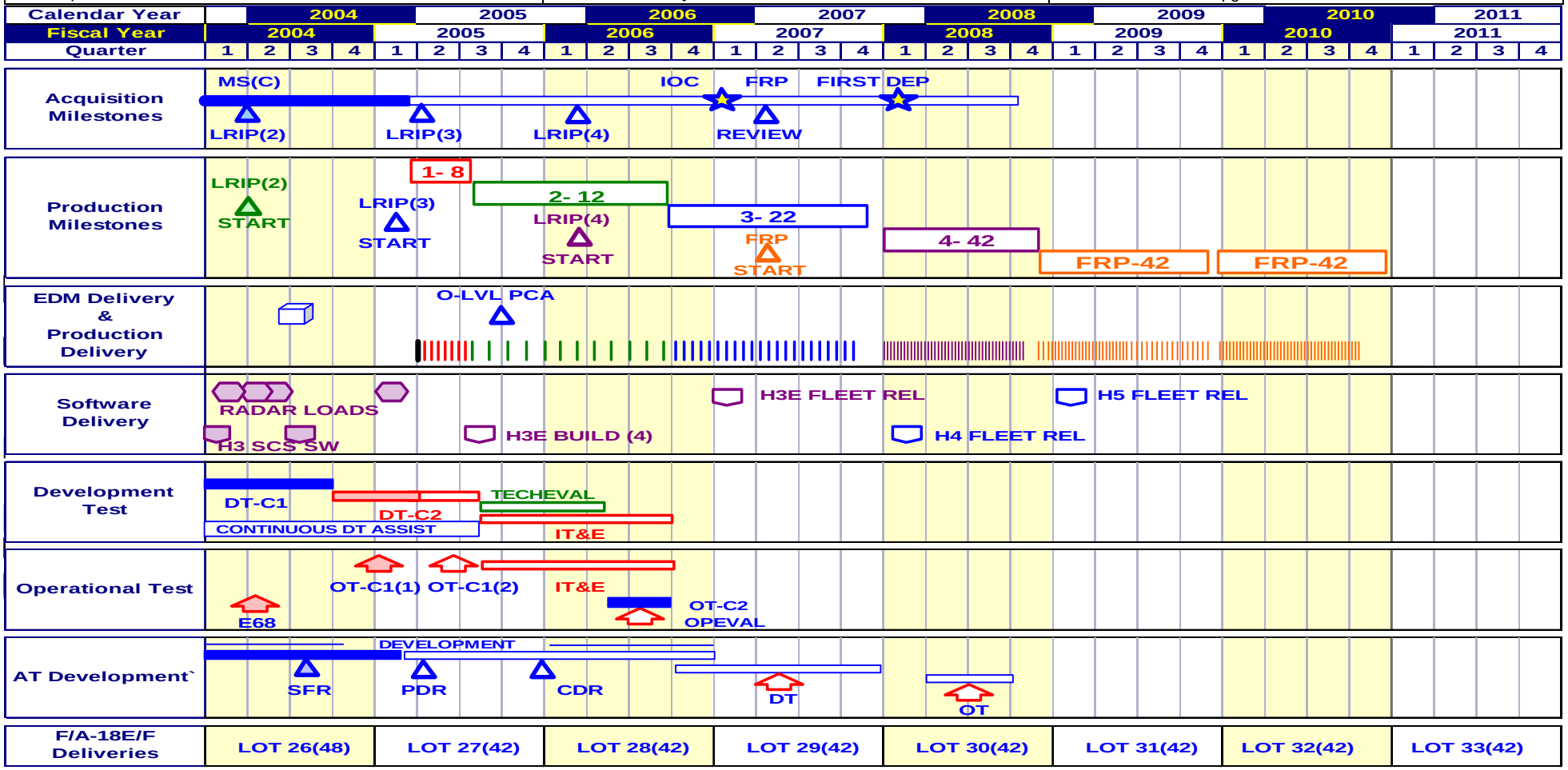
CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)								DATE: **February 2005**				
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-7**		PROGRAM ELEMENT 0204136N F/A-18 SQUADRONS				PROJECT NUMBER AND NAME 2065 F/A-18 RADAR Upgrade						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WX	NAWCAD Pax River, MD	8.417	1.460	10/04	0.666	10/05				10.543	
Operational Test & Evaluation	WX	OPTEVFOR, Norfolk, VA	6.740	12.420	10/04	9.850	10/05				29.010	
Developmental Test & Evaluation	WX	NAWCWD China Lake, CA	16.913	4.344	10/04	6.600	10/05				27.857	
Subtotal T&E			32.070	18.224		17.116		0.000		0.000	67.410	
Remarks: Integrated Test and Evaluation has reduced Test and Evaluation costs to enable the program to absorb contract cost growth.												
Program Management Support	Various	NAVAIR Pax River, MD	1.652								1.652	
Travel	WX	NAVAIR Pax River, MD	0.423	0.060	10/04	0.040	10/05				0.523	
Subtotal Management			2.075	0.060		0.040		0.000		0.000	2.175	
Remarks:												
Total Cost			430.094	89.434		67.447		6.368		2.916	596.259	
Remarks:												

R-1 SHOPPING LIST - Item No. 169

CLASSIFICATION:

EXHIBIT R4, Schedule Profile		DATE: February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N / BA-7	0204136N F/A-18 SQUADRONS	2065 F/A-18 RADAR Upgrade



R-1 SHOPPING LIST - Item No. 169

CLASSIFICATION:

Exhibit R-4a, Schedule Detail					DATE: **February 2005**			
APPROPRIATION/BUDGET ACTIVITY **RDT&BA-7**	PROGRAM ELEMENT 0204136N F/A-18 SQUADRONS				PROJECT NUMBER AND NAME 2065 F/A-18 RADAR Upgrade			
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 20010	FY 2011
Developmental Testing (DT-C1)	1Q-3Q							
Developmental Testing (DT-C2)	4Q	1Q-3Q						
Milestone C (MS C)	2Q							
Start Low-Rate Initial Production II	2Q							
Low-Rate Initial Production I Delivery		2Q-3Q						
Technical Evaluation (TECHEVAL)		3Q-4Q	1Q-2Q					
Operational Evaluation (OT-IIC) (OPEVAL)			2Q-3Q					
Low-Rate Initial Production II Delivery		3Q-4Q	1Q-3Q					
IOC				1Q				
Full Rate Production (FRP) Decision				2Q				
Full Rate Production Start				2Q				
First Deployment								

R-1 SHOPPING LIST - Item No. 169

Termination Liability Funding
For Major Defense Acquistion Programs,
RDT&E Funding
($000)

Program	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
2065 F/A-18 RADAR Upgrade	0	0	0	0	0	0	0	0

This program does not budget/fund termination liability separately. A Limitation of Funds (LoF) clause (FAR 52.232-22) is inserted in all incrementally funded R&D contracts. This clause is designed to limit the government's legal liability to the amount obligated.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE: **February 2005**	
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-7**	PROGRAM ELEMENT NUMBER AND NAME 0204136N/F/A-18 SQUADRONS				PROJECT NUMBER AND NAME 9614 Military Rapid Response Command Information System			
COST ($ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost		**1.625**						
RDT&E Articles Qty								

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The Military Rapid Response-Command and Information System (MRRCIS) is a command, control, and communications mobile ground node that will provide enhanced connectivity between Naval TACAIR (F/A-18) weapon platforms and USMC's Expeditionary Warfare ground C2 nodes such as the On-the-Move Network Digital Over Horizon Radio System (CONDOR) and JFCOM's Rapid Attack Information Dissemination Execution Relay (RAIDER). This funding will be used to perform a initial proof-of-concept demonstration , system engineering and analysis on new technologies with the long range goal of establishing test and evaluation facilities in Hawaii. This work will leverage off of joint service facilities to test the SeaPower 21/ForceNet concepts above.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: **February 2005**
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N / BA-7	0204136N/F/A-18 SQUADRONS	9614 Military Rapid Response Command Information System

B. Accomplishments/Planned Program

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost		1.400		
RDT&E Articles Quantity				

Perform initial proof of concept demonstration and deliver completed analysis.

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost		0.225		
RDT&E Articles Quantity				

Provide government oversight and engineering support.

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost				
RDT&E Articles Quantity				

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: **February 2005**
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N / BA-7	0204136N/F/A-18 SQUADRONS	9614 Military Rapid Response Command Information System

C. PROGRAM CHANGE SUMMARY:

Funding:	FY 04	FY 05	FY 06	FY 07
Previous President's Budget:		0.000	0.000	0.000
Current BES/President's Budget		1.625	0.000	0.000
Total Adjustments	0.000	1.625	0.000	0.000
Summary of Adjustments				
Congressional program reductions				
Congressional undistributed reductions		-0.075		
Congressional rescissions				
SBIR/STTR Transfer				
Economic Assumptions				
Reprogrammings				
Congressional increases		1.700		
Subtotal	0.000	1.625	0.000	0.000

Schedule:

Not Applicable.

Technical:

Not Applicable.

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CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: **February 2005**
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N / BA-7	0204136N/F/A-18 SQUADRONS	9614 Military Rapid Response Command Information System

D. OTHER PROGRAM FUNDING SUMMARY:

Line Item No. & Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Cost
NOT APPLICABLE										

E. ACQUISITION STRATEGY: *

The proof of concept demonstration systems engineering and analysis will be performed by IDIQ contract with Anteon, Inc, which will be subcontracting the 95% of the tasking to Hawaiya Technologies, LLC in Hawaii.

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)								DATE: **February 2005**				
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-7**			PROGRAM ELEMENT 0204136N/F/A-18 SQUADRONS			PROJECT NUMBER AND NAME 9614 Military Rapid Response Command Information System						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development											0.000	
Ancillary Hardware Development											0.000	
Aircraft Integration											0.000	
Ship Integration											0.000	
Ship Suitability											0.000	
Systems Engineering	IDIQ	ANTEON, Cherry Hill, NJ		1.400							1.400	
Training Development											0.000	
Licenses											0.000	
Tooling											0.000	
GFE											0.000	
Award Fees											0.000	
Subtotal Product Development			0.000	1.400		0.000		0.000		0.000	1.400	
Remarks:												
Development Support											0.000	
Software Development											0.000	
Integrated Logistics Support											0.000	
Configuration Management											0.000	
Technical Data											0.000	
Studies & Analyses											0.000	
GFE											0.000	
Award Fees											0.000	
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	
Remarks:												

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)										DATE: **February 2005**		
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-7**		PROGRAM ELEMENT 0204136N/F/A-18 SQUADRONS			PROJECT NUMBER AND NAME 9614 Military Rapid Response Command Information System							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation											0.000	
Operational Test & Evaluation											0.000	
Live Fire Test & Evaluation											0.000	
Test Assets											0.000	
Tooling											0.000	
GFE											0.000	
Award Fees											0.000	
Subtotal T&E			0.000	0.000		0.000		0.000		0.000	0.000	
Remarks:												
Contractor Engineering Support											0.000	
Government Engineering Support	WX	NAWCAD, Pax River, MD		0.075							0.075	
Program Management Support	WX	NAWCAD, Pax River, MD		0.115							0.115	
Travel		VARIOUS		0.035							0.035	
Transportation											0.000	
SBIR Assessment											0.000	
Subtotal Management			0.000	0.225		0.000		0.000		0.000	0.225	
Remarks:												
Total Cost			0.000	1.625		0.000		0.000		0.000	1.625	
Remarks:												

R-1 SHOPPING LIST - Item No. 169

CLASSIFICATION:

EXHIBIT R4, Schedule Profile																																DATE: **February 2005**
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-7**									PROGRAM ELEMENT NUMBER AND NAME 0204136N/F/A-18 SQUADRONS														PROJECT NUMBER AND NAME 9614 Military Rapid Response Command Information System										
Fiscal Year	2004				2005				2006				2007				2008				2009				2010				2011			
	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
Contract Award						☆																										
Design and provide analysis to define the MRRCIS architecture.						▭																										

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* Not required for Budget Activities 1, 2, 3, and 6

CLASSIFICATION:

Exhibit R-4a, Schedule Detail					DATE: **February 2005**			
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-7**	PROGRAM ELEMENT 0204136N/F/A-18 SQUADRONS				PROJECT NUMBER AND NAME 9614 Military Rapid Response Command Information System			
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Contract Award		2Q						
Conduct Proof of Concept Demostration		3Q						
Complete Analysis & Deliver Reccommendations		4Q						

Termination Liability Funding
For Major Defense Acquistion Programs,
RDT&E Funding
($000)

Program	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
9614 MRRCIS	0	0	0	0	0	0	0	0

This program does not budget/fund termination liability separately. A Limitation of Funds (LoF) clause (FAR 52.232-22) is inserted in all incrementally funded R&D contracts. This clause is designed to limit the government's legal liability to the amount obligated.

Instructions:
1. For all ACAT I programs with RDT&E funding, indicate the funds, by year, budgeted for termination liability.
2. If not budgeted, provide the appropriate waiver authority.
3. For programs with waiver authority, identify the amounts on the contract, by year.