Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy											Date: March 2014	
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 4: *Advanced Component Development & Prototypes (ACD&P)*					R-1 Program Element (Number/Name) PE 0604112N *I Gerald R Ford Class Nuc Aircraft Carrier CVN 78-80*							
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
Total Program Element	0.000	-	-	43.613	-	43.613	38.373	35.662	34.156	25.650	Continuing	Continuing
2208: *CVN 21*	0.000	-	-	35.392	-	35.392	35.881	35.662	34.156	25.650	Continuing	Continuing
4004: *EMALS*	0.000	-	-	8.221	-	8.221	2.492	-	-	-	-	10.713
MDAP/MAIS Code: **Other MDAP/MAIS Code(s):** 223												

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This Navy program addresses unique technologies on Ford class carriers. The program includes:

- (2208) - Development of ship hull, mechanical, propulsion, electrical, aviation, and combat support systems, subsystems and components to significantly improve aircraft carrier affordability, manpower requirements, survivability, and operational capabilities, and to meet the requirements of existing and pending regulations and statutes critical to the operation of existing and future aircraft carriers.

- (4004) - Development of an advanced technology aircraft launch system in support of the CVN 78 Class design and construction schedule. The Electro Magnetic Aircraft Launch System (EMALS) will replace the current steam catapult on CVN 78 Class ships. EMALS provides better control of applied forces, both peak and transient dynamic, improved
reliability and maintainability, increased operational availability and reduced operator and maintainer workload.

This Program Element (PE) and associated projects is a continuation of efforts previously funded under PE 0603512N projects 2208 and 4004 and is not a new start.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy					Date: March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 4: *Advanced Component Development & Prototypes (ACD&P)*			R-1 Program Element (Number/Name) PE 0604112N *I Gerald R Ford Class Nuc Aircraft Carrier CVN 78-80*		
B. Program Change Summary ($ in Millions)	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO**	**FY 2015 Total**
Previous President's Budget	-	-	-	-	-
Current President's Budget	-	-	43.613	-	43.613
Total Adjustments	-	-	43.613	-	43.613
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	-	-	43.701	-	43.701
• Rate/Misc Adjustments	-	-	-0.088	-	-0.088

Change Summary Explanation

Funding: In FY 14 and prior years, projects 2208 and 4004 were funded in PE 0603512N.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy											Date: March 2014	
Appropriation/Budget Activity 1319 / 4					R-1 Program Element (Number/Name) PE 0604112N / *Gerald R Ford Class Nuc Aircraft Carrier CVN 78-80*				Project (Number/Name) 2208 / *CVN 21*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
2208: *CVN 21*	-	-	-	35.392	-	35.392	35.881	35.662	34.156	25.650	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

MDAP/MAIS Code: 223

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project provides for the development of aircraft carrier specific technologies, the infusion of the ship technology base into existing and future aircraft carriers, and the potential realization of subsystem design capabilities not currently feasible. This project transitions the most promising technologies from the Navy technology base, other government laboratories, and the private sector into specific advanced development efforts. All systems developed in this project have the potential to support emerging requirements and other promising systems technologies for insertion into new aircraft carrier designs. The emphasis is directed toward developing ship hull, mechanical, propulsion, electrical, aviation, warfare systems, and combat support systems, sub-systems and components to significantly improve aircraft carrier affordability, manpower requirements, survivability, and operational
capabilities and to meet the requirements of existing and pending regulations and statutes critical to the operation of future aircraft carriers. This project also encompasses those tasks required to support CVN 78 procurement, including, but not limited to engineering support, programmatic and program support, logistics support, modeling and simulation, test and evaluation, manpower and program related studies, and design support systems, such as the Integrated Digital Environment (IDE).

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: CVN 78 Class Advanced Technology Design & Development	-	-	18.166
Articles:	-	-	-

Description: CVN 78 Class Advanced Technology Design & Development: Continue development and transition of technologies to support CVN 78 Class Key Performance Parameters (KPPs): maintain sortie generation rate, reductions in manpower, and further recovery of weight and stability service life margins. Continue design activities to integrate the new technologies, such as the new propulsion plant and Electromagnetic Aircraft Launch System into the ship.

FY 2013 Accomplishments:
N/A

FY 2014 Plans:
N/A

FY 2015 Plans:
Continue design, development and transition of key technologies to support CVN 21 (CVN 78 Class) KPPs which include

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604112N / *Gerald R Ford Class Nuc Aircraft Carrier CVN 78-80*	**Project (Number/Name)** 2208 / *CVN 21*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
sortie generation rate, reductions in manpower, and further recovery of weight and stability service life margins. Continue design activities to integrate new technologies, such as the new propulsion plant and EMALS into the ship. Continue existing studies and commence new studies required for integrated warfare system and C4I design, integration, test and validation efforts. Continue review P3I technical data packages. Continue CVN 78 class engineering and technical support of aircraft launch and recovery systems. Continue shipbuilder system and cost engineering support to assess ship impacts from selected ECRs and changes to the GFE/CFE equipment split. Assess ship impacts and implement changes to the Class design.			
Title: CVN 21 - Test & Evaluation (T&E)	-	-	17.226
Articles:	-	-	-
FY 2013 Accomplishments: N/A			
FY 2014 Plans: N/A			
FY 2015 Plans: Increase the frequency of the PDT&T workshops from semi-annually to tri-annually and continue updating / maintaining the notional PDT&T schedule. Continue the DTWG efforts, focusing on the collection / analysis of the DT metrics. Continue the CITT efforts to coordinate Integrated Testing (IT) to achieve synergies among DT&E, OT&E, and LFT&E as applicable to optimize CVN 78 test-related costs, schedules, and requirements validation; and to maximize the practical use of test results by all participating test communities. Complete DT/IT-3 and commence DT/IT-4, which includes: (1) completing SGRA 14; DBR land-based testing using the production Multi-Function Radar; and DBR to TPX-42 land-based integration testing; (2) conducting CST Phase 2; TPX-42 shipboard testing; OT-B4; Advanced Weapons Elevator (AWE) Hazards of Electromagnetic Radiation to Ordnance (HERO) / Hazard of Electromagnetic Radiation to Personnel (HERP) / Electromagnetic Interference (EMI); and the Combat Systems Trial Rehearsal Review (CSTRR); and (3) continuing spiral development of the VCVN Model.			
Accomplishments/Planned Programs Subtotals	-	-	35.392

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• RDTEN / 0604567N: *Project Units 3179, 4007*	12.197	15.572	18.867	-	18.867	19.830	21.440	18.682	19.108	Continuing	Continuing
• RDTEN / 0603512N: *Project Units 2208, 4004*	87.573	74.638	-	-	-	-	-	-	-	-	1,709.785

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604112N / *Gerald R Ford Class Nuc Aircraft Carrier CVN 78-80*	**Project (Number/Name)** 2208 / *CVN 21*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• SCN / 2001: *Carrier Replacement Program*	490.960	917.553	1,300.000	-	1,300.000	2,876.183	2,290.837	2,849.342	1,864.514	Continuing	Continuing
• SCN / 5300: *Completion of Prior Year Shipbuilding Programs*	-	588.100	663.000	-	663.000	124.000	-	-	-	-	1,375.100
• RDTEN / 0603570N: *Propulsion Plant Development (PU 2692)*	58.193	57.499	60.459	-	60.459	-	-	-	-	-	1,526.813
• OMN / 1B2B: *CVN 78 Ford Class Training (12BJ0)*	-	-	4.907	-	4.907	12.872	2.396	-	-	-	20.175

Remarks

D. Acquisition Strategy

The CVN 78 is the first ship of the CVN 78 Class of aircraft carriers designed to replace USS ENTERPRISE and the ships of the NIMITZ Class. The CVN 78 will feature a new nuclear propulsion and electrical generation/distribution system, EMALS, advanced arresting gear (AAG) system, all electric auxiliaries, warfare system improvements, survivability
enhancements, improved weapons handling, and improved aircraft servicing. These design features will result in lower manpower and total ownership costs as compared to the NIMITZ Class. Additionally, the following war fighting benefits will be realized: increased sortie generation rate, improved ship self-defense capability, increased launch and recovery
capability/flexibility, increased operational availability, and increased flexibility to support future upgrades.

E. Performance Metrics

Successfully complete development of TEMP 1610, Rev C and route for signature. Successfully complete all PEO C4I TIF testing. Successfully execute SGRA 12 and SGRA 13. Gain acceptance of the FSST Alternative Process as a technically-feasible and cost-effective alternative to the traditional FSST. Successfully complete the NAVAIR PIF testing and
the Consolidated Afloat Networks and Enterprise Services (CANES) testing. Successfully conduct and support feasibility and tradeoff studies and data packages on new and modified shipboard systems, technologies and proposed modification. Data packages shall include information to support program decisions to integrate these efforts into the whole ship design efforts. Successfully conduct IDC shock testing and reporting in order to finalize IDC R&D efforts. Successfully complete Advanced Weapons Elevator Shock and Electromagnetic Interference (EMI) Test qualifications. Successfully complete Plasma Arc Waste Destruction System (PAWDS) Land-Based Test. Successfully create and deliver 21 Decision
Memorandums (DM) for Bents/Bays 1-21.on the 03 Level (Gallery Deck) with Layer 31 information. Successfully develop the baseline Technical Data Packages for 39 systems and mature packages in preparation for final GFI arrival.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604112N / *Gerald R Ford Class Nuc Aircraft Carrier CVN 78-80*	Project (Number/Name) 2208 / *CVN 21*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013 Cost	FY 2013 Award Date	FY 2014 Cost	FY 2014 Award Date	FY 2015 Base Cost	FY 2015 Base Award Date	FY 2015 OCO Cost	FY 2015 OCO Award Date	FY 2015 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Advanced Design & Development	C/CPAF	HII : VA	0.000	-		-		5.208	Nov 2014	-		5.208	Continuing	Continuing	Continuing
Advanced Design & Development	WR	NSWC CARDEROCK : MD	0.000	-		-		5.000	Oct 2014	-		5.000	Continuing	Continuing	Continuing
Advanced Design & Development	C/CPFF	SAIC: : NM	0.000	-		-		0.101	Dec 2014	-		0.101	Continuing	Continuing	Continuing
Advanced Design & Development	WR	NAWCAD PATUXENT RIVER : MD	0.000	-		-		1.720	Oct 2014	-		1.720	Continuing	Continuing	Continuing
Advanced Design & Development	WR	NSWC DAHLGREN : VA	0.000	-		-		1.622	Oct 2014	-		1.622	Continuing	Continuing	Continuing
Advanced Design & Development	C/CPAF	RAYTHEON : VA	0.000	-		-		2.400	Dec 2014	-		2.400	Continuing	Continuing	Continuing
Advanced Design & Development	C/CPFF	NAVSEA SEAPORT : DC	0.000	-		-		1.786	Dec 2014	-		1.786	Continuing	Continuing	Continuing
Advanced Design & Development	Various	MISCELLANEOUS : VARIOUS	0.000	-		-		0.329	Nov 2014	-		0.329	Continuing	Continuing	Continuing
		Subtotal	0.000	-		-		18.166		-		18.166	-	-	-

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013 Cost	FY 2013 Award Date	FY 2014 Cost	FY 2014 Award Date	FY 2015 Base Cost	FY 2015 Base Award Date	FY 2015 OCO Cost	FY 2015 OCO Award Date	FY 2015 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Test & Evaluation	C/CPAF	HII : VA	0.000	-		-		0.790	Nov 2014	-		0.790	Continuing	Continuing	Continuing
Development Test & Evaluation	WR	NAWC AD PATUXENT RIVER : MD	0.000	-		-		3.530	Oct 2014	-		3.530	Continuing	Continuing	Continuing
Development Test & Evaluation	WR	NSWC DAHLGREN : VA	0.000	-		-		1.506	Oct 2014	-		1.506	Continuing	Continuing	Continuing
Development Test & Evaluation	WR	NSWC CARDEROCK : MD	0.000	-		-		4.000	Oct 2014	-		4.000	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604112N / *Gerald R Ford Class Nuc Aircraft Carrier CVN 78-80*	Project (Number/Name) 2208 / *CVN 21*	

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013 Cost	FY 2013 Award Date	FY 2014 Cost	FY 2014 Award Date	FY 2015 Base Cost	FY 2015 Base Award Date	FY 2015 OCO Cost	FY 2015 OCO Award Date	FY 2015 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Test & Evaluation	WR	SPAWAR : CA	0.000	-		-		1.500	Nov 2014	-		1.500	Continuing	Continuing	Continuing
Development Test & Evaluation	C/CPAF	RAYTHEON : VA	0.000	-		-		0.374	Dec 2014	-		0.374	Continuing	Continuing	Continuing
Development Test & Evaluation	WR	SSC ATLANTIC : SC	0.000	-		-		0.219	Nov 2014	-		0.219	Continuing	Continuing	Continuing
Operational Test & Evaluation	WR	COMOPTEVFOR : VA	0.000	-		-		3.997	Dec 2014	-		3.997	Continuing	Continuing	Continuing
Development Test & Evaluation	Various	MISCELLANEOUS : VARIOUS	0.000	-		-		1.310	Nov 2014	-		1.310	Continuing	Continuing	Continuing
		Subtotal	0.000	-		-		17.226		-		17.226	-	-	-

	Prior Years	FY 2013 Cost	FY 2013 Award Date	FY 2014 Cost	FY 2014 Award Date	FY 2015 Base Cost	FY 2015 Base Award Date	FY 2015 OCO Cost	FY 2015 OCO Award Date	FY 2015 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	-		-		35.392		-		35.392	-	-	-

Remarks

Exhibit R-4, **RDT&E Schedule Profile:** PB 2015 Navy		**Date:** March 2014
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604112N / *Gerald R Ford Class Nuc Aircraft Carrier CVN 78-80*	**Project (Number/Name)** 2208 / *CVN 21*

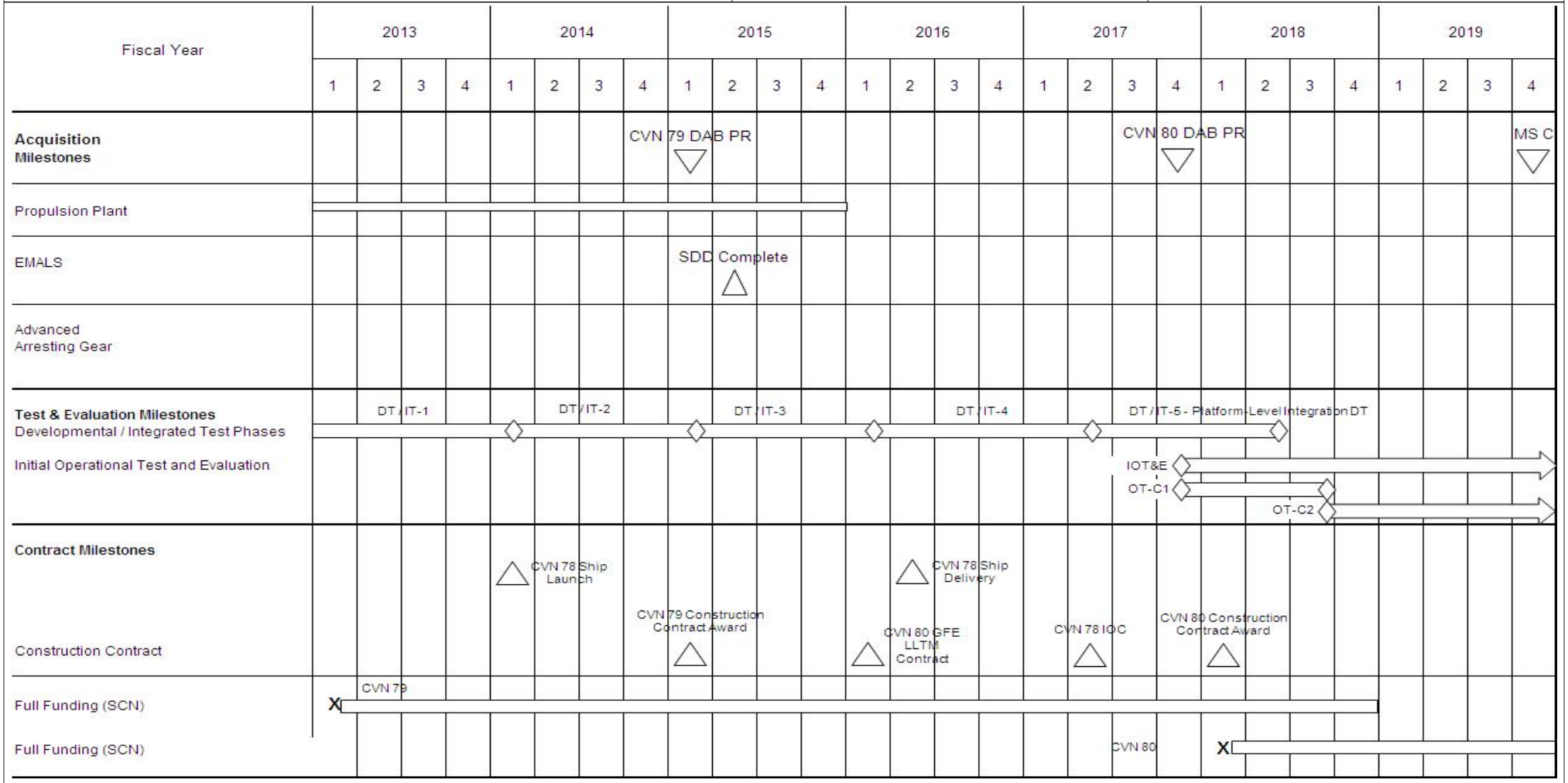

Exhibit R-4A, RDT&E Schedule Details: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604112N / *Gerald R Ford Class Nuc Aircraft Carrier CVN 78-80*	**Project (Number/Name)** 2208 / *CVN 21*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 2208				
CVN 79 DAB PR	1	2015	1	2015
CVN 80 DAB PR	4	2017	4	2017
Milestone C	4	2019	4	2019
Propulsion Plant	1	2013	4	2015
DT/IT -1 - Development Test / Integrated Test Phase 1	1	2013	1	2014
DT/IT -2	1	2014	1	2015
DT/IT -3	1	2015	1	2016
DT/IT -4	1	2016	2	2017
DT/IT -5 Platform-Level Integration DT Period	2	2017	2	2018
IOT&E - Initial Operational Test & Evaluation	4	2017	4	2019
OT -C1 - Initial Operational Test & Evaluation - Phase C1	4	2017	3	2018
OT -C2	3	2018	4	2019
CVN 78 Ship Launch	1	2014	1	2014
CVN 78 Ship Delivery	2	2016	2	2016
CVN 78 Initial Operational Capability (IOC)	2	2017	2	2017
CVN 79 Construction Contract Award	1	2015	1	2015
CVN 80 GFE LLTM Contract Award	1	2016	1	2016
CVN 80 Construction Contract Award	1	2018	1	2018
CVN 79 SCN Full Funding	1	2013	4	2018
CVN 80 SCN Full Funding	1	2018	4	2019

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604112N / *Gerald R Ford Class Nuc Aircraft Carrier CVN 78-80*	Project (Number/Name) 4004 / *EMALS*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
4004: *EMALS*	-	-	-	8.221	-	8.221	2.492	-	-	-	-	10.713
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

MDAP/MAIS Code: 223

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project provides for the development of an advanced technology aircraft launch system in support of the CVN 78 design and construction schedule, as well as Engineering and Life Cycle System (E&LCS) design. The Electromagnetic Aircraft Launch System (EMALS) will be the aircraft catapult for CVN 78 Class ships. EMALS provides better control of applied forces, both peak and transient dynamic, improved reliability and maintainability, increased operational availability, and reduced operator and maintainer workload.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: EMALS	-	-	8.221
Articles:	-	-	-

Description: EMALS

FY 2013 Accomplishments:
N/A

FY 2014 Plans:
N/A

FY 2015 Plans:
(1) EMALS SDD - Complete High Cycle Test (HCT) IIIB Extended, Motor / Generator Shock and Trough Fire Testing. Complete planned component environmental qualification (shock, vibration and thermal) testing at various labs throughout the country, HCT Phase III of the EMALS power equipment at the General Atomics Tupelo, MS facility, and Critical Safety Item Accelerated Life laboratory testing.

(2) EMALS Basic Ordering Agreement (BOA) ILS Order - Continue the execution of the EMALS ILS Development Program. Conduct annual logistics reviews, training IPR and O & I level TM IPRs. Based on the development and availability of engineering source data for each of the six EMALS subsystems and allocated resources, update FMECAs, LMI database, CMRS/ICP, manpower analyses, O&I maintenance plans, provisioning documentation, PPSP/DMSMS screening and analyses, and support equipment identification and technical data. Continue to develop training documents and the Navy Formal Training Course.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604112N / *Gerald R Ford Class Nuc Aircraft Carrier CVN 78-80*	**Project (Number/Name)** 4004 / *EMALS*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Conduct Pre-Commissioning Unit Training. Complete the M-Demo at the SFD facility. Complete the Shipboard FRD and the Training FRD.			
Accomplishments/Planned Programs Subtotals	-	-	8.221

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• RDTEN / 0604567N: *Project Units 3179, 4007*	12.197	15.572	18.867	-	18.867	19.830	21.440	18.682	19.108	Continuing	Continuing
• RDTEN / 0603570N: *Propulsion Plant Development (PU 2692)*	58.193	57.499	60.459	-	60.459	-	-	-	-	-	1,526.813
• SCN / 2001: *Carrier Replacement Program*	490.960	917.553	1,300.000	-	1,300.000	2,876.183	2,290.837	2,849.342	1,864.514	Continuing	Continuing
• SCN / 5300: *Completion of Prior Year Shipbuilding Programs*	-	588.100	663.000	-	663.000	124.000	-	-	-	-	1,375.100
• OMN / 1B2B: *CVN 78 Ford Class Training (12BJ0)*	-	-	4.907	-	4.907	12.872	2.396	-	-	-	20.175
• RDTEN / 0603512N: *Project Units 2208, 4004*	87.573	74.638	-	-	-	-	-	-	-	-	1,709.785

Remarks

D. Acquisition Strategy

The CVN 78 is the first ship of the CVN 78 Class of aircraft carriers designed to replace USS ENTERPRISE and the ships of the NIMITZ Class. The CVN 78 will feature a new nuclear propulsion and electrical generation/distribution system, new electromagnetic aircraft launching system (EMALS), advanced arresting gear (AAG) system, all electric auxiliaries, warfare system improvements, survivability enhancements, improved weapons handling, and improved aircraft servicing. These design features will result in lower manpower and total ownership costs as compared to the NIMITZ Class. Additionally, the following war fighting benefits will be realized: increased sortie generation rate, improved ship self-defense capability, increased launch and recovery capability/flexibility, increased operational availability, and increased flexibility to support future upgrades.

E. Performance Metrics

Successfully complete Highly Accelerated Life Test (HALT) Phase II. Successfully complete System Functional Demonstration (SFD) testing. Successfully complete Environmental Qualification Testing (EQT). Successfully complete Shipset Controls Lab testing.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604112N / *Gerald R Ford Class Nuc Aircraft Carrier CVN 78-80*	**Project (Number/Name)** 4004 / *EMALS*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013 Cost	FY 2013 Award Date	FY 2014 Cost	FY 2014 Award Date	FY 2015 Base Cost	FY 2015 Base Award Date	FY 2015 OCO Cost	FY 2015 OCO Award Date	FY 2015 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Aircraft Launch, Recovery & Support	C/CPAF	General Atomics (SDD) : CA	0.000	-		-		4.292	Nov 2014	-		4.292	-	4.292	-
Aircraft Launch, Recovery & Support	C/CPFF	General Atomics (BOA) : CA	0.000	-		-		3.529	Nov 2014	-		3.529	2.492	6.021	-
		Subtotal	0.000	-		-		7.821		-		7.821	2.492	10.313	-

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013 Cost	FY 2013 Award Date	FY 2014 Cost	FY 2014 Award Date	FY 2015 Base Cost	FY 2015 Base Award Date	FY 2015 OCO Cost	FY 2015 OCO Award Date	FY 2015 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Aircraft Launch, Recovery & Support	WR	NAWC Lakehurst : NJ	0.000	-		-		0.400	Dec 2014	-		0.400	-	0.400	-
		Subtotal	0.000	-		-		0.400		-		0.400	-	0.400	-

	Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	-		-		8.221		-		8.221	2.492	10.713	-

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604112N / *Gerald R Ford Class Nuc Aircraft Carrier CVN 78-80*	**Project (Number/Name)** 4004 / *EMALS*

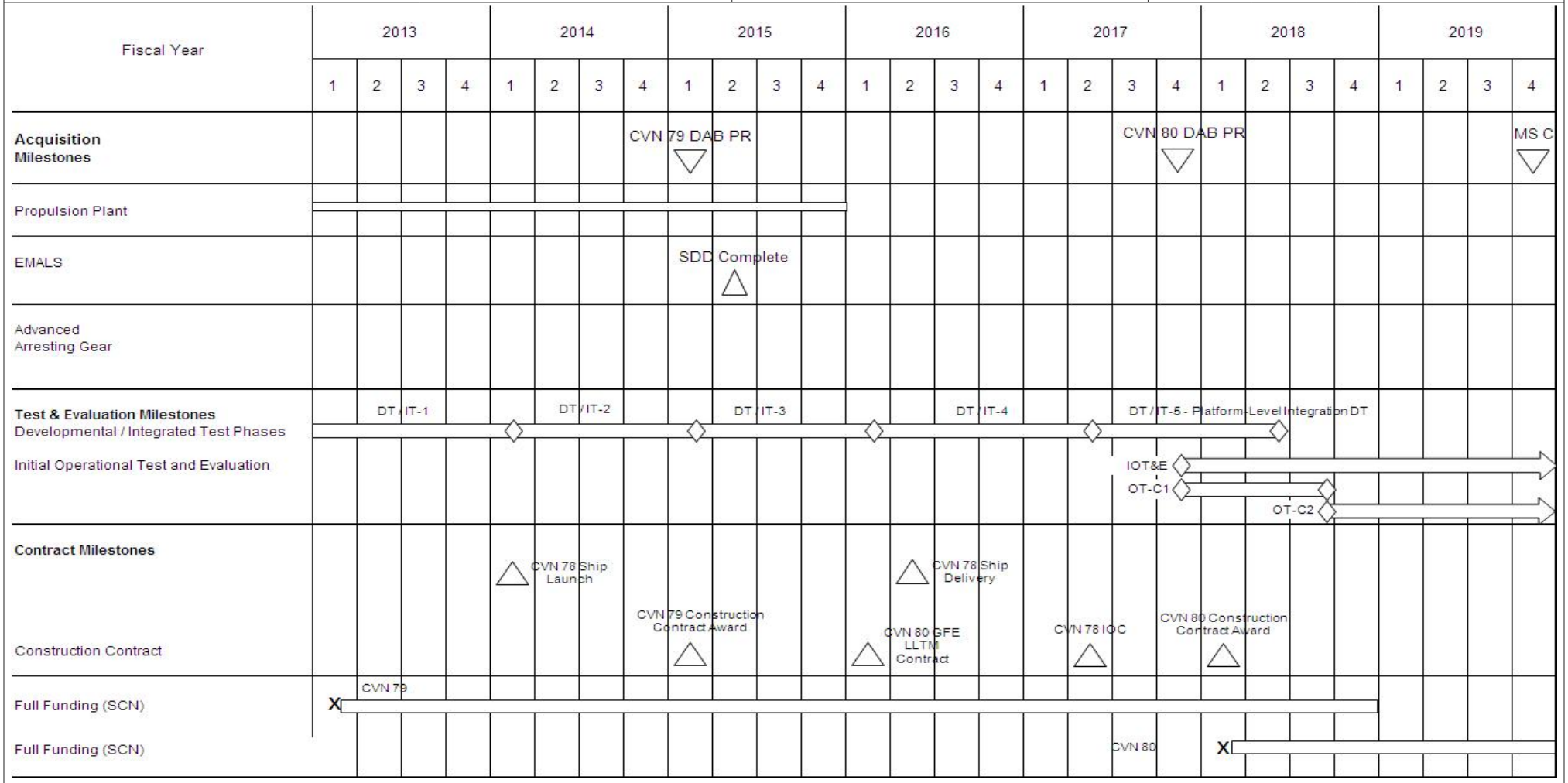

Exhibit R-4A, RDT&E Schedule Details: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604112N / *Gerald R Ford Class Nuc Aircraft Carrier CVN 78-80*	**Project (Number/Name)** 4004 / *EMALS*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 4004				
CVN 79 DAB PR	1	2015	1	2015
CVN 80 DAB PR	4	2017	4	2017
Milestone C	4	2019	4	2019
Propulsion Plant	1	2013	4	2015
DT/IT -1 - Development Test / Integrated Test Phase 1	1	2013	1	2014
DT/IT -2	1	2014	1	2015
DT/IT -3	1	2015	1	2016
DT/IT -4	1	2016	2	2017
DT/IT -5 - Platform-Level Integration DT Period	2	2017	2	2018
IOT&E - Initial Operational Test & Evaluation	4	2017	4	2019
OT -C1 - Initial Operational Test & Evaluation - Phase C1	4	2017	3	2018
OT -C2	3	2018	4	2019
CVN 78 Ship Launch	1	2014	1	2014
CVN 78 Ship Delivery	2	2016	2	2016
CVN 78 Initial Operational Capability (IOC)	2	2017	2	2017
CVN 79 Construction Contract Award	1	2015	1	2015
CVN 80 GFE LLTM Contract Award	1	2016	1	2016
CVN 80 Construction Contract Award	1	2018	1	2018
CVN 79 SCN Full Funding	1	2013	4	2018
CVN 80 SCN Full Funding	1	2018	4	2019