EV 2000	FY 2008	FY 2007 F	
	lernization, DDG	and assessment of LCS 1 & 2, CG Mod	-Y09: Develop TTP for CVN 77 and DDG Modernization based on FY 08 work; Pre-certification for the interoperability test and assessment of LCS 1 & 2, CG Modernization, DDG 1000 and CVN 21 (CVN 78). Develop TTP for LCS 1 & 2 based on FY 09 work.
	D 18.Develop BFIMS. anceBFIMS	and assessment planning for LCS-1,LPI DG Modernization and DDG 1000. Enha	-Y07: Develop tactics, techniques and procedures (TTP) for CVN 69, 74, and 76based on FY06 work; Interoperability test and assessment planning for LCS-1,LPD 18.Develop BFIMS. =Y08: Develop TTP for LPD 18; Pre-certification for the interoperability test and assessment of CVN 77, CVN 73,LHD 7, DDG Modernization and DDG 1000. EnhanceBFIMS
	s early in the	rability performance of warfare systems ely fieldedwarfighting capability. Focus o	acquisition cycle, prior to certification. Embedded I/O ensures that fewer mission critical system failuresdegrade the ultimately fieldedwarfighting capability. Focus on emerging Open Architecture warefare systems. (CPSD 9)
4: 100		0	(U) Embedded Interoperability (I/O) Engineering: Establishes and executes a dedicated process for the control of the control o
FT 2009	4 036	1.258	Accomplishments/Effort/Subtotal Cost
TC 2000	FY 2008	FY 2007	
	gn Processes and	ŋn Tool Dev - phase 4; Submarine Desiç	FY09: Navy After Next Tech Validations; Technical Warrant Holder Concept Validation Support; SUBCODE Concept Design Tool Dev - phase 4; Submarine Design Processes and Standards Development
	gn Processes and	gn Tool Dev - phase 3; Submarine Desig	FY08: Navy After Next Tech Validations; Technical Warrant Holder Concept Validation Support; SUBCODE Concept Design Tool Dev - phase 3; Submarine Design Processes and Standards Development
	gn Processes and	əpt Validation Support; Submarine Desi	FY07: Navy After Next Tech Validations; SUBCODE Concept Design Tool Dev - phase 2; Technical Warrant Holder Concept Validation Support; Submarine Design Processes and Standards Development
0	ol Payload Modularity.	marine, common SSN-SSBN Hull and F	(U) Future Submarine Design: Develop ship concept studies and evaluate technologies to define the Next Generation Submarine, common SSN-SSBN Hull and Payload Modularity.
3.956	3.842	0.715	RDT&E Articles Quantity
FY 2009	FY 2008	FY 2007	Accomplishments/Effort/Subtotal Cost
	uilders, academia tivity; high end g will	r rovides Government activities, shipbu aries; classified and unclassified connec nputing upon which specific task funding	and contractors the following (FY07-FY09): high performance computing systems; commercial and research software libraries; classified and unclassified connectivity; high end data visualization; and collaboration tools/Centralized data repository. Provide the framework of continued world class computing upon which specific task funding will build. (project 2196 in FY06) (CPSD 7)
0	0	0	(U) Ship Engineering & Analysis Technology Center (formerly Hydrodynamic/Hydroacoustic Technology Center (Julian)).
1.207	1.173	0.000	RDT&E Articles Quantity
FY 2009	FY 2008	FY 2007	Accomplishments/Effort/Subtotal Cost
		Detition for New Risk Area Projects	rojects in Ducker in Ducker proving construction; Competition for New Risk Area Projects
	Authority	3161/NAVSEA Tech Authority	FY09: Fuel Cell At Sea Demonstration prototype construction: Rim Driven Duried Broadfact and the Control of the
	AND NAME	PROJECT NUMBER AND NAME	HON/BODGET ACTIVITY
	DATE February 2008	N)	XHIBIT R-2a,
			CLASSIFICATION: UNCLASSIFIED

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CLASSIFICATION: UNCLASSIFIED

EXHIBIT R-2a RDT&E PROJECT JUSTIFICATION

CLASSIFICATION:	UNCI ASSIFIED			
EXHIBIT R-2a,	EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION (CONTINUATION)		DATE	
			February 2008	
ATTROTAI CONBUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	ER AND NAME	
RUIEN/BA 4	0603561N/ADVANCED SUBMARINE SYSTEM DEVELOPMENT		nal Add	
		EX 2007	8006 A3	7 2000
9999/Submarine Artificial-Intelligence (AI) Based Combat System Kernal	at System Kernal	0 000	1	F1 2009
RDT&E Articles Quantity			2.304	0.000
unds will be used to refine both the Process and Implemen	ntation aspects of the AI bosed Mississ Tallian I of the AI bosed Mississ		U	0
	of the component of the control of t	support Module (MFCDSM	) as an important componen	tof
he Combat System of the Future; to demonstrate several s	he Combat System of the Future; to demonstrate several specific spirals; and to facilitate transitioning a basic capability to the fleet.	et.	-	
		EV 2007	7 2000	
999/Undersea Launched Missile Studies (ULMS)			2000	F1 2009
ODTRE Adiclos Ougatity		0.000	4.96/	0.000
Color Allicies Quality		0	0	D
I'lls lunding will used to conduct concept studies for a follow	In its funding will used to conduct concept studies for a follow-on platform to the OHIO Class submarine and to perform analyses and trade studies to identify necessary R&D to	nd trade studies to identify	necessary R&D to	
begin in Fr 09 and beyond.				

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CLASSIFICATION: UNCLASSIFIED

EXHIBIT R-2a RDT&E PROJECT JUSTIFICATION

CLASSIFICATION:	UNCLASSIFIED			
EXHIBIT R-2a	EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION (CONTINUATION)	<b>N</b> )	DATE	
APPROPRIATION/BUDGET ACTIVITY	מסטטטאא בו דאידאיד איין איין איין איין איין איין א		February 2008	
RDTEN/BA 4	0603561N/ADVANCED SUBMARINE SYSTEM DEVEL OF MENT		PROJECT NUMBER AND NAME	
		FY 2007 EY 2	EV 2000	
9999/Submarine Artificial-Intelligence (AI) Based Combat System Kernal	at System Kernal	0.000	L 1 2000	FY 2009
RUI&E Articles Quantity		D.	1:00:1	0.000
-unds will be used to refine both the Process and Impleme	- unds will be used to refine both the Process and Implementation aspects of the Al-based Mission-Focused Command Decision Support Modulo (MECDEAN to a fine to the Command Decision Support Modulo (MECDEAN to a fine to the Command Decision Support Modulo (MECDEAN to a fine to the Command Decision Support Modulo (MECDEAN to a fine to the Command Decision Support Modulo (MECDEAN to a fine to the Command Decision Support Modulo (MECDEAN to a fine to the Command Decision Support Modulo (MECDEAN to a fine to the Command Decision Support Modulo (MECDEAN to a fine to the Command Decision Support Modulo (MECDEAN to a fine to the Command Decision Support Modulo (MECDEAN to a fine to the Command Decision Support Modulo (MECDEAN to a fine to the Command Decision Support Modulo (MECDEAN to a fine to the Command Decision Support Modulo (MECDEAN to a fine to the Command Decision Support Modulo (MECDEAN to a fine to the Command Decision Support Modulo (MECDEAN to a fine to the Command Decision Support Modulo (MECDEAN to a fine to the Command Decision Support Modulo (MECDEAN to a fine to the Command Decision Support Medico (MECDEAN to a fine to the fine to the Command Decision Support Modulo (MECDEAN to a fine to the fine to the Command Decision Support Medico (MECDEAN to a fine to the	ecision Support Modulo (MECE		0
he Combat System of the Future; to demonstrate several s	the Combat System of the Future; to demonstrate several specific spirals; and to facilitate transitioning a basic capability to the fleet.	to the fleet.	ow) as an important component	0†
		FY 2007	EV 2008	
9999/Undersea Launched Missile Studies (ULMS)				F1 2009
RDT&E Articles Quantity		0.000	4.967	0.000
This funding will used to conduct concept studies for a follo	W-on platform to the OHIO Class submaring and to notice a	0	0	0
begin in FY 09 and beyond.	begin in FY 09 and beyond.	alyses and trade studies to ider	ntify necessary R&D to	

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CLASSIFICATION: UNCLASSIFIED

EXHIBIT R-2a RDT&E PROJECT JUSTIFICATION