

CLASSIFICATION:		UNCLASSIFIED					
EXHIBIT R-2, RDT&E BUDGET ITEM JUSTIFICATION						DATE February 2008	
APPROPRIATION/BUDGET ACTIVITY RDTEN/BA 4			R-1 ITEM NOMENCLATURE 0603654N/JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT				
COST (In Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total PE Cost	30.616	81.608	115.086	91.026	75.377	77.763	76.659
0377 / JT Service Expl Ord Disp System	21.346	14.629	11.681	13.353	12.778	11.553	11.836
1317 / EOD Diving System	2.684	2.718	2.757	3.287	3.497	2.926	2.988
3177 / Joint Counter Radio-Controlled IED Elec Warfare	0.468	60.116	97.048	69.370	54.761	57.445	58.447
4023 / VSM MCM/Force Protection UUV	6.118	4.145	3.600	5.016	4.341	5.839	3.388
A. MISSION DESCRIPTION:							
<p>This is a Joint Service Program. This program provides for the development of Explosive Ordnance Disposal tools and equipment for use by all military services. The responsibility is assigned to the Navy as single service manager, by Department of Defense Directive 5160.62 of 26 April 1989, for management of the Joint Service Explosive Ordnance Disposal Research and Development Program. Proliferation of sophisticated types of foreign and domestic ordnance and Improvised Explosive Devices necessitate a continuing development program to provide Explosive Ordnance Disposal personnel of all military services with the special equipment and tools required to support this mission. This program also provides life support related equipment necessary to support the performance of Navy Explosive Ordnance Disposal tasks underwater. This equipment must have inherently low acoustic and magnetic signatures in order to allow the Explosive Ordnance Disposal technician to safely approach, render-safe and dispose of sea mines and other underwater ordnance. This program also provides force protection of all military services against Radio Controlled Improvised Explosive Devices (RCIED) to prevent initiation. The Navy has been designated as DOD Executive Agent and Single Manager for Military Ground-Based Counter Radio-Controlled Improvised Explosive Electronic Warfare (CREW) Technology by DOD Directive 5101.14 of 11 June 2007, requiring RDT&E to develop capabilities that meet joint requirements.</p> <p>FY2008 funding totals do not include \$14.0M previously requested for current FY2008 GWOT requirements.</p>							
B. PROGRAM CHANGE SUMMARY:							
Previous President's Budget	24.315	83.361	114.986				
Current President's Budget	30.616	81.608	115.086				
Total Adjustments	6.301	-1.753	0.100				
Summary of Adjustments:							
Reprogramming	6.500						
SBIR Adjustments	-0.199						
Economic Assumptions			0.100				
Congressional Undistributed Reductions		-0.548					
Miscellaneous Adjustments		-1.205					
Subtotal	6.301	-1.753	0.100				

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EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION					DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4		PROGRAM ELEMENT NUMBER AND NAME 0603654N/JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPME			PROJECT NUMBER AND NAME 0377/JT Service Expl Ord Disp System		
COST (In Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	21.346	14.629	11.681	13.353	12.778	11.553	11.836
RDT&E Articles Qty	0	0	0	0	0	0	0

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Provides Explosive Ordnance Disposal personnel of all military services with the specialized equipment and tools required to support their mission of detection/location, identification, render-safe, recovery, field and laboratory evaluation, and disposal of unexploded ordnance (UXO) that is a threat to military operations, installations, personnel, or material. UXO includes foreign and domestic, both conventional and non-conventional, including improvised explosive devices (IEDs).

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APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4	PROGRAM ELEMENT NUMBER AND NAME 0603654N/JOINT SERVICE EXPLOSIVE ORDNANCE DEVELO	PROJECT NUMBER AND NAME 0377/JT Service Expl Ord Disp System	
B. ACCOMPLISHMENTS/PLANNED PROGRAM:			
	FY 2007	FY 2008	FY 2009
Accomplishments/Effort/Subtotal Cost	7.663	7.712	7.181
RDT&E Articles Quantity	0	0	0
FY07 Completed the Analysis of Alternatives (AOA) for the EOD Future Radiographic System.			
FY08 Initiate the EOD Future Radiographic System formal acquisition project.			
FY09 Conduct Full Rate Production Decision Review for JEOD DSS, initiating production.			
	FY 2007	FY 2008	FY 2009
Accomplishments/Effort/Subtotal Cost	4.422	2.567	2.300
RDT&E Articles Quantity	0	0	0
FY07 Completed assessment of capability of laser technology to achieve low-order reactions.			
FY08 Conduct studies relative to system integration onto vehicles, and assessed capability of laser technology to neutralize IEDs.			
FY09 Initiate the Joint Laser Ordnance Neutralization System (JLONS) formal acquisition project with Milestone B.			
	FY 2007	FY 2008	FY 2009
Accomplishments/Effort/Subtotal Cost	0.578	1.800	1.200
RDT&E Articles Quantity	0	0	0
FY07 Completed development of the simulator for the family of EOD Robot systems.			
FY08 Conduct integration of various EOD tools and sensors onto the MK 1 MOD 0 and MK 2 MOD 0 EOD Robot systems.			
FY09 Complete development of improved command and control for EOD Robotic systems.			
	FY 2007	FY 2008	FY 2009
Accomplishments/Effort/Subtotal Cost	2.183	2.550	1.000
RDT&E Articles Quantity	0	0	0
FY07 Achieved a Limited Production Decision on the TCM, AN/PLT-6460.			
FY08 Achieve Full Rate Production on the TCM, AN/PLT-6460.			
FY09 Conduct continuous improvement subprojects for the fielded TCM systems.			
	FY 2007	FY 2008	FY 2009
Accomplishments/Effort/Subtotal Cost	6.500	0.000	0.000
RDT&E Articles Quantity	0	0	0
FY07 Conducted an assessment of Unmanned Air Vehicle Systems for use by Joint Service EOD forces to satisfy an urgent operational requirement.			
FY08 N/A			
FY09 N/A			

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EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION (CONTINUATION)	DATE February 2008
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APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4	PROGRAM ELEMENT NUMBER AND NAME 0603654N/JOINT SERVICE EXPLOSIVE ORDNANCE DEVELO	PROJECT NUMBER AND NAME 0377/JT Service Expl Ord Disp System
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C. OTHER PROGRAM FUNDING SUMMARY:
 Line Item No. & Name
 (Funds listed in Section D. are for Cost Code VN075 - EOD Equipment/Systems)

Line Item No. and Name	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Cost
OPN 5509	13.185	6.209	10.105	9.663	5.200	5.200	2.000		

D. ACQUISITION STRATEGY:

Analysis of Alternatives (AOA) studies are always conducted prior to the initiation of new subprojects. The AOA addresses and emphasizes acquisition strategies of the most cost-effective solution over the subprojects' life-cycle. The acquisition strategies observe the following hierarchy of alternatives: commercial item (including modification), non-developmental item (including modification), and lastly, developmental programs. Contracting for RDT&E, if required, is always competitive and when feasible, production options are included.

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT R-3, RDT&E PROJECT COST ANALYSIS										DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4		PROGRAM ELEMENT NUMBER AND NAME 0603654N/JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT					PROJECT NUMBER AND NAME 0377/JT Service Expl Ord Disp System					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development	WX	EODTD, IH, MD	95.127	10.925	OCT-06	6.500	OCT-07	4.642	OCT-08	CONT	CONT	0.000
Software Development	WX	EODTD, IH, MD	11.279	4.455	OCT-06	1.736	OCT-07	1.200	OCT-08	CONT	CONT	0.000
ILS	WX	EODTD, IH, MD	39.920	0.750	OCT-06	1.250	OCT-07	1.000	OCT-08	CONT	CONT	0.000
Subtotal Product Development			146.326	16.130		9.486		6.842		CONT	CONT	0.000
Remarks:												
Program Management Support	C/CPFF	EDO, Alexandria, VA	3.460	0.000		0.000		0.000			3.460	0.000
Program Management Support	C/CPFF	EDO, Alexandria, VA	1.245	0.600	OCT-06	0.650	OCT-07	0.500	OCT-08	CONT	CONT	0.000
Subtotal Support Costs			4.705	0.600		0.650		0.500		CONT	CONT	0.000
Remarks:												
Developmental Test & Evaluation	WX	EODTD, IH, MD	63.347	1.400	OCT-06	1.500	OCT-07	1.800	OCT-08	CONT	CONT	0.000
Operational Test & Evaluation	WX	EODTD, IH, MD	8.245	0.538	OCT-06	0.550	OCT-07	0.200	OCT-08	CONT	CONT	0.000
Subtotal Test and Evaluation			71.592	1.938		2.050		2.000		CONT	CONT	0.000
Remarks:												
Program Management Support	WX	EODTD, IH, MD	5.871	0.625	OCT-06	0.650	OCT-07	0.650	OCT-08	CONT	CONT	0.000
Miscellaneous	Various	Various	9.000	2.053	OCT-06	1.793	OCT-07	1.689	OCT-08	CONT	CONT	0.000
Subtotal Management Services			14.871	2.678		2.443		2.339		CONT	CONT	0.000
Remarks:												
Total Cost			237.494	21.346		14.629		11.681		CONT	CONT	0.000

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EXHIBIT R-4, SCHEDULE PROFILE														DATE		February 2008																
APPROPRIATION/BUDGET ACTIVITY				PROGRAM ELEMENT NUMBER AND NAME								PROJECT NUMBER AND NAME																				
RDTEN/BA 4				0603654N/JOINT SERVICE EXPLOSIVE ORDNANCE DEVE								0377/JT Service Expl Ord Disp System																				
	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				FY 2012				FY 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
EOD MAN TRANSPORTABLE ROBOTIC SYSTEM																																
Production																																
Block Upgrade (DEV)																																
Block Upgrade (PROD)																																
JLONS																																
Technology Development																																
Milestone B																																
System Development & Demonstration																																
Milestone C																																
Production																																
EOD DECISION SUPPORT SYSTEM																																
Milestone B																																
Development Phase																																
Milestone C																																
Production																																
Increment I (DEV)																																
Increment I (PROD)																																
Increment II (DEV)																																
Increment II (PROD)																																
Increment III (DEV)																																
ELECTRONIC SAFE/ARM FUZE - IED																																
Program Initiation																																
Development																																
Testing																																
Interim Progress Review																																
EDM Fabrication																																
TCM, AN/PLT-XXX (CLASSIFIED III)																																
Testing (Preliminary)																																
Interim Progress Review																																
EDM Fabrication																																
Final Testing																																
Limited Production Decision																																
Limited Production and Deployment																																
Operational Evaluation																																
Full Rate Production Decision																																
Continuous Improvement																																
EOD FUTURE RADIOGRAPHIC SYSTEM																																
Program Initiation																																
Development																																
Testing																																
Interim Progress Review																																
EDM Fabrication																																
Final Testing																																
Production Decision																																
Production																																

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EXHIBIT R-4a, SCHEDULE DETAIL						DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4		PROGRAM ELEMENT NUMBER AND NAME 0603654N/JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPME			PROJECT NUMBER AND NAME 0377/JT Service Expl Ord Disp System			
Schedule Profile		FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
EOD MAN TRANSPORTABLE ROBOTIC SYSTEM								
Production		1Q-2Q						
Block Upgrade (DEV)		1Q-3Q						
Block Upgrade (PROD)		1Q-4Q	1Q-4Q	1Q-4Q	1Q-3Q			
JLONS								
Technology Development		1Q-4Q	1Q-4Q	1Q-2Q				
Milestone B				2Q				
System Development & Demonstration				2Q-4Q	1Q-4Q	1Q-4Q	1Q-3Q	
Milestone C							3Q	
Production							3Q-4Q	1Q-4Q
EOD DECISION SUPPORT SYSTEM								
Development Phase		1Q-4Q	1Q-4Q	1Q				
Milestone C				2Q				
Production				2Q-4Q	1Q-4Q			
Increment I (DEV)				2Q-4Q	1Q-4Q	1Q-2Q		
Increment I (PROD)						2Q-4Q	1Q-3Q	
Increment II (DEV)						2Q-4Q	1Q-4Q	1Q-2Q
Increment II (PROD)							2Q-4Q	1Q-3Q
Increment III (DEV)							2Q-4Q	1Q-4Q
ELECTRONIC SAFE/ARM FUZE-IED								
Program Initiation						2Q		
Development						2Q-4Q	1Q-3Q	
Testing							3Q-4Q	1Q-2Q
Interim Progress Review								2Q
EDM Fabrication								2Q-4Q
TCM,AN/PLT-XXX (CLASSIFIED III)								
Testing (Preliminary)								
Interim Progress Review								
EDM Fabrication		1Q-2Q						

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EXHIBIT R-4a, SCHEDULE DETAIL (CONTINUATION)						DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4		PROGRAM ELEMENT NUMBER AND NAME 0603654N/JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPME			PROJECT NUMBER AND NAME 0377/JT Service Expl Ord Disp System			
Schedule Profile		FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Final Testing		2Q-4Q						
Limited Production Decision		4Q						
Limited Production and Deployment		3Q-4Q	1Q-4Q					
Operational Evaluation		4Q	1Q-3Q					
Full Rate Production Decision			3Q					
Continous Improvement				1Q-4Q	1Q-4Q	1Q-4Q		
EOD FUTURE RADIOGRAPHIC SYSTEM								
Program Initiation			2Q					
Development			2Q-4Q	1Q				
Testing				2Q-3Q				
Interim Progress Review				4Q				
EDM Fabrication				4Q	1Q-2Q			
Final Testing					2Q-3Q			
Production Decision					4Q			
Production						1Q-4Q	1Q-4Q	1Q-4Q

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EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION					DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4		PROGRAM ELEMENT NUMBER AND NAME 0603654N/JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT			PROJECT NUMBER AND NAME 1317/EOD Diving System		
COST (In Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	2.684	2.718	2.757	3.287	3.497	2.926	2.988
RDT&E Articles Qty	0	0	0	0	0	0	0
A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:							
<p>Provides for development of diving equipment, communication equipment and explosive charges to support Explosive Ordnance Disposal (EOD) underwater operations. The equipment must have inherently low acoustic and magnetic signatures in order to allow the EOD technician to safely approach, render-safe, recover, exploit, and dispose of underwater explosive threats to include sea mines, limpet mines and unexploded ordnance.</p>							

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EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION			DATE February 2008
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4	PROGRAM ELEMENT NUMBER AND NAME 0603654N/JOINT SERVICE EXPLOSIVE ORDNANCE DEVELO	PROJECT NUMBER AND NAME 1317/EOD Diving System	
B. ACCOMPLISHMENTS/PLANNED PROGRAM:			
	FY 2007	FY 2008	FY 2009
Accomplishments/Effort/Subtotal Cost	2.084	0.905	0.290
RDT&E Articles Quantity	0	0	0
Diver Safety & Life Support Systems: Research and Develop diver safety tools to include more capable life support systems for EOD, NSCT-1, and MDSU operations. Specific tools include but are not limited to Underwater Breathing Apparatus (UBA), specialized dive masks, heads-up displays, and emergency life support systems.			
FY07 Plan: Initiated contract award and delivery of initial test items.			
FY08 Plan: Complete Navy certification and full rate production decision. Full rate initial production deliveries to start in FY08.			
FY09 Plan: Initiate Development of Improvement for Diver Safety related to EOD and UBA.			
	FY 2007	FY 2008	FY 2009
Accomplishments/Effort/Subtotal Cost	0.350	0.860	2.207
RDT&E Articles Quantity	0	0	0
Advanced Diver Integrated Sensors: Develop Advanced Diver Integrated Sensors equipment to enhance EOD, MDSU and NSCT-1's ability to detect, neutralize and gather intelligence on underwater targets of interest. Requirements include Diver Hull Inspection Navigation System (DHINS) and improves the Underwater Imaging System (UIS).			
FY07 Plan: Planned system Integration/testing of DHINS.			
FY08 Plan: Initiate functional specification to be completed by FY08 with Fleet Evaluation planned.			
FY09 Plan: UIS improvement system integration and testing will continue through FY09 with ECP approval planned for FY2010. DHINS LRIP planned for FY09.			
	FY 2007	FY 2008	FY 2009
Accomplishments/Effort/Subtotal Cost	0.250	0.953	0.260
RDT&E Articles Quantity	0	0	0
Advanced Firing System: Develops new acquisitions and product improvements to existing systems for below and above water neutralization of underwater threats to support EOD, NSCT-1, and MDSU operations.			
FY07 Plan: Modified AFS prototype tests were initiated in FY06 and will be completed by FY07.			
FY08 Plan: AFS Spiral 1 Engineering Change Proposal (ECP) approval is scheduled for FY08.			
FY09 Plan: Initiate systems integration and testing of spiral 2 is scheduled for completion by the end of FY10.			

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EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION (CONTINUATION)	DATE February 2008
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APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4	PROGRAM ELEMENT NUMBER AND NAME 0603654N/JOINT SERVICE EXPLOSIVE ORDNANCE DEVELO	PROJECT NUMBER AND NAME 1317/EOD Diving System
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C. OTHER PROGRAM FUNDING SUMMARY:

Line Item No. and Name	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Cost
OPN 0975	4.583	0.000	2.581	6.192	5.404	5.787	4.462	Continuing	Continuing
PANMC 0340		1.690		1.787		2.202			

D. ACQUISITION STRATEGY:

Analysis of Alternatives (AOA) studies are always conducted prior to the initiation of new subprojects. The AOA addresses and emphasizes acquisition strategies of the most cost-effective solution over the subprojects' life-cycle. The acquisition strategies observe the following hierarchy of alternatives: commercial item (including modification), non-developmental item (including modification), and lastly, developmental programs. Contracting for RDT&E, if required, is always competitive and when feasible, production options are included.

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EXHIBIT R-3, RDT&E PROJECT COST ANALYSIS										DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4		PROGRAM ELEMENT NUMBER AND NAME 0603654N/JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT					PROJECT NUMBER AND NAME 1317/EOD Diving System					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development	WX	EODTD, IH, MD	35.727	0.800	OCT-06	0.800	OCT-07	0.801	OCT-08	CONT	CONT	0.000
Software Development	WX	EODTD, IH, MD	2.192	0.500	OCT-06	0.500	OCT-07	0.500	OCT-08	CONT	CONT	0.000
Systems Engineering	WX	EODTD, IH, MD	8.228	0.000		0.000		0.000		0.000	8.228	0.000
ILS	WX	EODTD, IH, MD	11.916	0.000		0.000		0.000		0.000	11.916	0.000
Systems Engineering	WX	NSWC, PC	0.190	0.190	OCT-06	0.190	OCT-07	0.190	OCT-08	CONT	CONT	0.000
Systems Engineering	WX	SPAWAR	0.400	0.200	OCT-06	0.400	OCT-07	0.400	OCT-08	CONT	CONT	0.000
Subtotal Product Development			58.653	1.690		1.890		1.891		CONT	CONT	0.000
Remarks:												
Program Management Support	C/CPFF	EDO, Alex, VA	3.537	0.000		0.000		0.000		0.000	3.537	0.000
Program Management Support	C/CPFF	EDO, Alex, VA	0.973	0.258	OCT-06	0.380	OCT-07	0.390	OCT-08	CONT	CONT	0.000
Integrated Logistics Support			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Configuration Management			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Technical Data			0.000	0.000		0.000		0.000		0.000	0.000	0.000
GFE			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Award Fees			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Subtotal Support Costs			4.510	0.258		0.380		0.390		CONT	CONT	0.000
Remarks:												
Development Test & Evaluation	WX	EODTD, IH, MD	4.217	0.050	OCT-06	0.006	OCT-07	0.070	OCT-08	CONT	CONT	0.000
Operational Test & Evaluation	WX	EODTD, IH, MD	1.560	0.000		0.000		0.000		0.000	1.560	0.000
Subtotal Test and Evaluation			5.777	0.050		0.006		0.070		CONT	CONT	0.000
Remarks:												
Program Management Support	WX	EODTD, IH, MD	7.413	0.360	OCT-06	0.349	OCT-07	0.290	OCT-08	0.000	8.412	0.000
Miscellaneous	WX	VARIOUS	6.231	0.326	OCT-06	0.093	OCT-07	0.116	OCT-08	0.000	6.766	0.000
Subtotal Management Services			13.644	0.686		0.442		0.406		0.000	15.178	0.000
Remarks:												

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EXHIBIT R-3, RDT&E PROJECT COST ANALYSIS										DATE		February 2008
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME					PROJECT NUMBER AND NAME					
RD TEN/BA 4		0603654N/JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT					1317/EOD Diving System					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Total Cost			82.584	2.684		2.718		2.757		CONT	CONT	0.000

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EXHIBIT R-4, SCHEDULE PROFILE

DATE
February 2008

APPROPRIATION/BUDGET ACTIVITY
RDTEN/BA 4

PROGRAM ELEMENT NUMBER AND NAME
0603654N/JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT

PROJECT NUMBER AND NAME
1317/EOD Diving System

	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				FY 2012				FY 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
Advanced Firing Systems																												
(Previously Acoustic Firing System Radio Frequency PIP)																												
Systems Integration/Testing	██████████								██████████																			
Production Decision/ECP Approval						▲								▲														
Production/Fleet Retrofit									██████████				██████████															
Diver Safety & Life Support																												
(Previously New U/W Breathing Apparatus (NUBA))																												
Systems Integration/Testing									██████████				██████████				██████████				██████████							
Production Decision/ECP Approval						▲								▲								▲						
Production/Fleet Retrofit	██████████								██████████								██████████				██████████							
Advanced Diver Integrated Sensors																												
(Previously Diver Hull Navigation)/UIS																												
Systems Integration/Testing	██████████								██████████				██████████				██████████				██████████							
Production Decision/ECP Approval										▲								▲								▲		
Production/Fleet Retrofit													██████████				██████████				██████████							

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EXHIBIT R-4a, SCHEDULE DETAIL						DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4		PROGRAM ELEMENT NUMBER AND NAME 0603654N/JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPME			PROJECT NUMBER AND NAME 1317/EOD Diving System			
Schedule Profile		FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
ADVANCED FIRING SYSTEMS								
System Integration/Testing		1Q-4Q	1Q-2Q: 4Q	1Q-4Q	1Q			
Production Decision/ECP Approval			2Q		2Q			
Production/Fleet Retrofit			3Q-4Q	1Q-4Q	2Q-4Q	1Q-4Q		
DIVER SAFETY & LIFE SUPPORT								
System Integration/Testing				1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q
Production Decision/ECP Approval			2Q		4Q		2Q	
Production/Fleet Retrofit		1Q-4Q	1Q-4Q	1Q-4Q		1Q-4Q	1Q-4Q	1Q-4Q
ADVANCED DIVER INTEGRATED SENSORS								
System Integration/Testing		1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q		
Production Decision/ECP Approval				2Q	3Q-4Q		2Q	
Production/Fleet Retrofit				3Q-4Q	4Q	1Q-4Q	1Q-4Q	1Q-4Q

CLASSIFICATION:		UNCLASSIFIED					
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION					DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4		PROGRAM ELEMENT NUMBER AND NAME 0603654N/JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT			PROJECT NUMBER AND NAME 3177/Joint Counter Radio-Controlled IED Elec War		
COST (In Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	0.468	60.116	97.048	69.370	54.761	57.445	58.447
RDT&E Articles Qty	0	0	0	0	0	0	0
A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:							
<p>Provides for research and development for all military services against Radio-Controlled Improvised Explosive Devices (RCIED) to prevent initiation. The Navy has been designated as DOD Executive Agent and Single Manager for Military Ground-Based Counter Radio-Controlled Improvised Explosive Electronic Warfare (CREW) Technology by DOD Directive 5101.14 of 11 June 2007, requiring RDT&E to develop capabilities that meet joint requirements. Utilize Joint requirements to provide a system of systems approach for a suite of equipment for mounted, dismounted and fixed site operations. CREW development to make rapid improvements to performance, supportability and affordability.</p> <p>* JCREW Spirals 3.1 and 3.2 are interim solutions funded by the Joint IED Defeat Organization (OSD)</p>							

CLASSIFICATION:		UNCLASSIFIED	
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION			DATE February 2008
APPROPRIATION/BUDGET ACTIVITY RDTEN/BA 4	PROGRAM ELEMENT NUMBER AND NAME 0603654N/JOINT SERVICE EXPLOSIVE ORDNANCE DEVELO	PROJECT NUMBER AND NAME 3177/Joint Counter Radio-Controlled IED Elec Warfare	
B. ACCOMPLISHMENTS/PLANNED PROGRAM:			
	FY 2007	FY 2008	FY 2009
Accomplishments/Effort/Subtotal Cost	0.468	60.116	97.048
RDT&E Articles Quantity	0	0	0
<p>- FY07 - Initiated acquisition planning for the development of Joint CREW system of systems (CREW 3.3) for mounted, man portable and fixed site operations for all services.</p> <p>- FY08 - Acquisition planning and risk reduction for a Joint CREW 3.3 system of systems in preparation of Milestone B decision. Development of CREW Convoy Planning Tool upgrades.</p> <p>- FY09 - Award contracts for the development of Joint CREW 3.3 system. Continue development of CREW Convoy Planning Tool upgrades.</p>			
C. OTHER PROGRAM FUNDING SUMMARY:			
N/A			
D. ACQUISITION STRATEGY:			
<p>Analysis of Alternatives (AOA) studies are always conducted prior to the initiation of new subprojects. The AOA addresses and emphasizes acquisition strategies of the most cost effective solution over subprojects' life-cycle. The acquisition strategies observe the following hierarchy of alternatives: commercial item (including modification), non-developmental item (including modification), and lastly, developmental programs. Contracting for RDT&E, if required, is always competitive and when feasible, production options are included. Procurements across the services will be combined to gain quantity discounts.</p>			

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT R-3, RDT&E PROJECT COST ANALYSIS										DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4		PROGRAM ELEMENT NUMBER AND NAME 0603654N/JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT					PROJECT NUMBER AND NAME 3177/Joint Counter Radio-Controlled IED Elec Warfare					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development		TBD	0.000	0.000		6.300	OCT-07	29.000	NOV-08	CONT	CONT	0.000
Software Development		Various	0.000	0.250	DEC-06	3.200	OCT-07	3.000	NOV-08	CONT	CONT	0.000
Systems Engineering		Various	0.000	0.000		19.900	OCT-07	8.684	NOV-08	CONT	CONT	0.000
ILS		Various	0.000	0.000		0.300	OCT-07	1.500	NOV-08	CONT	CONT	0.000
System Integration		Various	0.000	0.000		2.200	OCT-07	0.000		0.000	2.200	0.000
Loadset Development			0.000	0.000		2.000	OCT-07	0.000		0.000	2.000	0.000
Subtotal Product Development			0.000	0.250		33.900		42.184		CONT	CONT	0.000
Remarks:												
Program Management Support		Various	0.000	0.000		9.524	OCT-07	4.250	OCT-08	CONT	CONT	0.000
Software Support		Various	0.000	0.000		4.900	OCT-07	0.250	OCT-08	CONT	CONT	0.000
Training Development		Various	0.000	0.000		1.500	OCT-07	3.000	OCT-08	CONT	CONT	0.000
Integrated Logistics Support		Various	0.000	0.000		0.800	OCT-07	18.497	OCT-08	CONT	CONT	0.000
Configuration Management		Various	0.000	0.000		1.500	OCT-07	1.750	OCT-08	CONT	CONT	0.000
Technical Data		Various	0.000	0.000		0.000	OCT-07	1.500	OCT-08	CONT	CONT	0.000
Subtotal Support Costs			0.000	0.000		18.224		29.247		CONT	CONT	0.000
Remarks:												
Development Test & Evaluation		Various	0.000	0.000		2.200	OCT-07	20.470	OCT-08	CONT	CONT	0.000
Operational Test & Evaluation		Various	0.000	0.000		0.000		0.000		0.000	0.000	0.000
Subtotal Test and Evaluation			0.000	0.000		2.200		20.470		CONT	CONT	0.000
Remarks:												
Program Management Support		Various	0.000	0.170	DEC-06	2.800	OCT-07	3.500	OCT-08	CONT	CONT	0.000
Miscellaneous		Various	0.000	0.048	DEC-06	2.992	OCT-07	1.647	OCT-08	CONT	CONT	0.000
Subtotal Management Services			0.000	0.218		5.792		5.147		CONT	CONT	0.000
Remarks:												
Total Cost			0.000	0.468		60.116		97.048		CONT	CONT	0.000

CLASSIFICATION:		UNCLASSIFIED																													
EXHIBIT R-4, SCHEDULE PROFILE																							DATE								
																							February 2008								
APPROPRIATION/BUDGET ACTIVITY				PROGRAM ELEMENT NUMBER AND NAME												PROJECT NUMBER AND NAME															
RDTEN/BA 4				0603654N/JOINT SERVICE EXPLOSIVE ORDNANCE DEVE												3177/Joint Counter Radio-Controlled IED Elec Warfare															
FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				FY 2012				FY 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
CONVOY PLANNING TOOL																															
Program Initiation																															
Development																															
Production Decision																															
Spiral 1																															
Spiral 2																															
Spiral 3																															
JCREW 3.3																															
Initiation																															
System Development & Demonstration																															
Milestone B																															
Developmental Testing																															
Operational Testing																															
Milestone C																															
Production																															
JCREW 3.X																															
Initiation																															
Technology Refresh																															
Production Decision																															
Production																															

CLASSIFICATION:		UNCLASSIFIED						
EXHIBIT R-4a, SCHEDULE DETAIL						DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4		PROGRAM ELEMENT NUMBER AND NAME 0603654N/JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPME			PROJECT NUMBER AND NAME 3177/Joint Counter Radio-Controlled IED Elec Warfare			
Schedule Profile		FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
CONVOY PLANNING TOOL								
Program Initiation			1Q					
Development			1Q-4Q					
Production Decision			4Q					
Spiral 1				1Q-4Q	1Q-4Q			
Spiral 2						1Q-4Q	1Q-4Q	
Spiral 3								1Q-4Q
JCREW 3.3								
Initiation		2Q						
System Development & Demonstration		2Q-4Q	1Q-4Q	1Q-4Q	1Q-3Q			
Milestone B			4Q					
Developmental Testing				2Q-4Q	1Q			
Operational Testing					2Q			
Milestone C					3Q			
Production					3Q-4Q	1Q-4Q	1Q-4Q	1Q-3Q
JCREW 3.X								
Initiation						2Q		
Technology Refresh						2Q-4Q	1Q-4Q	1Q-3Q
Production Decision								3Q
Production								3Q-4Q

CLASSIFICATION:		UNCLASSIFIED					
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION					DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4		PROGRAM ELEMENT NUMBER AND NAME 0603654N/JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPME			PROJECT NUMBER AND NAME 4023/VSM MCM/Force Protection UUV		
COST (In Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	6.118	4.145	3.600	5.016	4.341	5.839	3.388
RDT&E Articles Qty	0	0	0	0	0	0	0
A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:							
<p>Provides for development of small affordable, Unmanned Underwater Systems to support Explosive Ordnance Disposal (EOD) , Mobile Diving and Salvage Units, Naval Special Clearance Team mission operations. The equipment must be highly portable in order to support the EOD technician to safely approach, render-safe, recover, exploit and dispose of underwater explosive threats to include sea mines, limpet mines and unexploded ordnance. Provides support for the Navy's high priority missions of Maritime Homeland Defense Very Shallow Water (VSW) mine countermeasures, including clandestine reconnaissance and mine clearance in support of amphibious operations. Development of EOD UUV systems to support localization render-safe and detailed intelligence gathering of UXO including Underwater Improvised Explosive Devices.</p>							

CLASSIFICATION:	UNCLASSIFIED
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EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION	DATE February 2008
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APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4	PROGRAM ELEMENT NUMBER AND NAME 0603654N/JOINT SERVICE EXPLOSIVE ORDNANCE DEVELO	PROJECT NUMBER AND NAME 4023/VSM MCM/Force Protection UUV
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B. ACCOMPLISHMENTS/PLANNED PROGRAM:

	FY 2007	FY 2008	FY 2009
Accomplishments/Effort/Subtotal Cost	6.118	4.145	3.600
RDT&E Articles Quantity	0	0	0

This program supports development, testing and Fleet approval for evolving generations of small affordable unmanned underwater vehicles, support equipment, and common operator interface systems to address validated requirements in support of Explosive Ordnance Disposal and Naval Special Clearance Team mission areas. Mission areas include: open and confined areas, hulls, piers and pilings to search, classify, map, re-acquire, identify, and neutralize sea and limpet mines and underwater improvised explosive devices.

FY07 Plan: Continued production of 1st Generation S-C-M UUV systems including delivery and acceptance of initial production items: achieved FOC of 1st Generation S-C-M systems. Continued test and evaluation of 2nd Generation Systems (R-I) in preparation for production decision. Began test and evaluation of 3rd generation system (DACP initiative); continue requirements definition for 3rd Generation (UUV-N) systems. Initiate Spiral CIP for 1st Generation system. Initiate Spiral CIP for 2nd Generation system. Magneto-Inductive Firing Systems requirements withdrawn, program cancelled.

FY08 Plan: Initiate production of 2nd Generation system (R-I). Continue requirements definition for 3rd Generation (UUV-N) system. Complete production and delivery of 2nd Generation (R-1) systems.

FY09 Plan: Continue Spiral CIP for 1st and 2nd Generation systems. Complete requirements definition for 3rd Generation System. Initiate UOES test and evaluation phase for UUV-N.

C. OTHER PROGRAM FUNDING SUMMARY:

Funds listed in section C. are under cost code UQ-034

Line Item No. and Name	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Cost
OPN 0975	7.653	6.436	3.543	3.463	3.523	3.533	4.317	Continuing	Continuing

CLASSIFICATION:		UNCLASSIFIED	
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION (CONTINUATION)			DATE February 2008
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RD TEN/BA 4	0603654N/JOINT SERVICE EXPLOSIVE ORDNANCE DEVELO	4023/VSM MCM/Force Protection UUV	
<p>D. ACQUISITION STRATEGY: Analysis of Alternatives (AOA) studies are always conducted prior to the initiation of new subprojects. The AOA addresses and emphasizes acquisition strategies of the most cost-effective solution over the subprojects' life -cycle. The acquisition strategies observe the following hierarchy of alternatives: commercial item (including modifications), non-developmental item (including modifications), and lastly, developmental programs. Contracting for RDT&E, if required is always competitive and when feasible, production options are included.</p> <p>This ongoing program capitalizes on a User Operational Evaluation System (UOES) effort involving Fleet operators engaged in tactical experimentation with prototype UUVs. These UUV operators also participate in detailed requirements analyses and definition. A preliminary operational capability with UUV has been realized at the Naval Special Clearance Team One (NSCT-1), with a competitive acquisition strategy to field a more robust and capable first generation Search Classify Map (S-C-M) system. The addition of mine Reacquisition and Identification (RI) capabilities to the VSW MCM UUV toolbox is programmed, for delivery. Further improvements to the toolbox to add basic mine neutralization capabilities will then be pursued. EOD UUV systems ship hull and harbor bottom providing capability to localize, Render Safe & gather detailed intelligence of UXO is programmed for acquisition.</p>			

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT R-3, RDT&E PROJECT COST ANALYSIS									DATE February 2008			
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME					PROJECT NUMBER AND NAME					
RD TEN/BA 4		0603654N/JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT					4023/VSM MCM/Force Protection UUV					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development	WX	EODTD,IH,MD	10.034	1.913	OCT-06	1.313	OCT-07	1.094	OCT-08	CONT	CONT	0.000
Systems Engineering	WX	EODTD,IH,MD	6.018	1.970	OCT-06	1.240	OCT-07	0.998	OCT-08	CONT	CONT	0.000
Subtotal Product Development			16.052	3.883		2.553		2.092		CONT	CONT	0.000
Remarks:												
Program Management Support	C/CPFF	EDO, Alex, VA	1.362	0.616	OCT-06	0.539	OCT-07	0.463	OCT-08	CONT	CONT	0.000
			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Subtotal Support Costs			1.362	0.616		0.539		0.463		CONT	CONT	0.000
Remarks:												
Developmental Test & Evaluation	WX	EODTD,IH,MD	2.890	0.986	OCT-06	0.635	OCT-07	0.600	OCT-08	CONT	CONT	0.000
Operational Test & Evaluation	WX	EODTD,IH,MD	0.580	0.252	OCT-06	0.127	OCT-07	0.142	OCT-08	CONT	CONT	0.000
Subtotal Test and Evaluation			3.470	1.238		0.762		0.742		CONT	CONT	0.000
Remarks:												
Program Management Support	WX	EODTD,IH,MD	0.860	0.310	OCT-06	0.211	OCT-07	0.173	OCT-08	CONT	CONT	0.000
Miscellaneous	WX	VARIOUS	0.828	0.071	OCT-06	0.080	OCT-07	0.130	OCT-08	CONT	CONT	0.000
Subtotal Management Services			1.688	0.381		0.291		0.303		CONT	CONT	0.000
Remarks:												
Total Cost			22.572	6.118		4.145		3.600		CONT	CONT	0.000

CLASSIFICATION:

UNCLASSIFIED

EXHIBIT R-4, SCHEDULE PROFILE

DATE

February 2008

APPROPRIATION/BUDGET ACTIVITY

PROGRAM ELEMENT NUMBER AND NAME

PROJECT NUMBER AND NAME

RDTEN/BA 4

0603654N/JOINT SERVICE EXPLOSIVE ORDNANCE DEVE

4023/VSM MCM/Force Protection UUV

	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				FY2012				FY2013			
	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
Small UUV																												
1st Generation (Search Classify & Map)																												
Testing Final																												
Production Decision																												
Production																												
Spiral CIP																												
2nd Generation (Require and ID)																												
User Operational Eval System																												
IOC Prototype Development																												
IOC Fleet Testing																												
IOC Production Decision																												
IOC Production																												
Spiral CIP																												
3rd Generation (Neutralization)																												
Analysis of Alternatives (AOA) Study																												
Requirements Definition																												
UOES Operational Eval System																												
Testing Final																												
Production Decision (1st Generation)																												
Preliminary Operational Capability																												
Production																												
Spiral CIP																												
Magneto-Inductive																												
Requirements Definition																												
Prototype Development																												

CLASSIFICATION:		UNCLASSIFIED						
EXHIBIT R-4a, SCHEDULE DETAIL						DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4		PROGRAM ELEMENT NUMBER AND NAME 0603654N/JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPME			PROJECT NUMBER AND NAME 4023/VSM MCM/Force Protection UUV			
Schedule Profile		FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
1st Generation Small UUV (Search, Classify & Map)								
Production		1Q-3Q						
Spiral CIP		4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q
2nd Generation (Require and ID)								
IOC Prototype Development								
IOC Testing		1Q-4Q						
IOC Production Decision		4Q						
IOC Production		4Q	1Q-3Q					
Spiral CIP			4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q
3rd Generation (Neutralization)								
Requirements Definition		1Q-4Q	1Q-4Q	1Q				
UOES Operational Eval System				1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q
Production Decision (1st Generation)								
Production								
Magneto-Inductive								
Prototype Development		1Q-4Q						