

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy	DATE: April 2013
---	-------------------------

APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE							
1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>					PE 0604562N: <i>Submarine Tactical Warfare System</i>							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	524.977	47.318	49.141	49.143	-	49.143	48.263	46.419	46.220	46.998	Continuing	Continuing
0236: <i>SSN Comb Cont Sys Imprvmnt (ENG)</i>	524.977	47.318	49.141	49.143	-	49.143	48.263	46.419	46.220	46.998	Continuing	Continuing

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

Project Unit 0236: This program develops Commercial-Off-The-Shelf (COTS) based software and hardware upgrades to integrate improved tactical and weapons control capabilities for multiple submarine Classes (SSN-688, SSGN, SEAWOLF, and VIRGINIA (Post Shakedown Availability)). The AN/BYG-1 is the combat control system common across submarine platforms which incorporates tactical control, weapon control, and tactical Local Area Network (LAN) functions into a single development program. The hardware upgrades, Technology Insertions (TI) are developed on a biennial basis to provide improved capability and address COTS obsolescence. Funding also accommodates the biennial integration of software Advanced Processing Builds (APB) for both tactical control (APB(T)) and weapon control (APB(W)) subsystems. The tactical control integration effort incorporates the integration of other sensor (ESM, sonar, radar, etc.) inputs to provide a common operational picture and improved situational awareness in an information assurance (IA) compliant environment. The weapon control development effort provides improvements to the weapons control subsystem based on improvements to missiles and torpedoes. Provides funding for the development of Weapons Launch System, Multi-tube Weapons System (MTWS), Information Assurance (IA) system, Onboard Team Trainer (OBTT), and Command, Control, Computer and Intelligence Maintenance Tool (C3IMT). AN/BYG-1 allows the submarine Navy to rapidly update the ship safety tactical picture, integrate the common tactical picture into the battlegroup, improve torpedo interfaces, and provide Tactical TOMAHAWK (TOMAHAWK Block IV) capability.

B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	48.466	49.141	49.371	-	49.371
Current President's Budget	47.318	49.141	49.143	-	49.143
Total Adjustments	-1.148	0.000	-0.228	-	-0.228
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.148	0.000			
• Program Adjustments	0.000	0.000	-0.071	-	-0.071
• Rate/Misc Adjustments	0.000	0.000	-0.157	-	-0.157

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604562N: Submarine Tactical Warfare System
<u>Change Summary Explanation</u> Technical: Not applicable. Schedule: Not applicable.		

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy									DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604562N: Submarine Tactical Warfare System				PROJECT 0236: SSN Comb Cont Sys Imprvmnt (ENG)			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
0236: SSN Comb Cont Sys Imprvmnt (ENG)	524.977	47.318	49.141	49.143	-	49.143	48.263	46.419	46.220	46.998	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
Project Unit 0236: This program develops Commercial-Off-The-Shelf (COTS) based software and hardware upgrades to integrate improved tactical and weapons control capabilities for multiple submarine Classes (SSN 688, SSGN, SEAWOLF, and VIRGINIA (Post Shakedown Availability)). The AN/BYG-1 is the combat control system common across submarine platforms which incorporates tactical control, weapon control, and tactical Local Area Network (LAN) functions into a single development program. The hardware upgrades Technology Insertions (TI) are developed on a biennial basis to provide improved capability and address COTS obsolescence. Funding also accommodates the biennial integration of software Advanced Processing Builds (APBs) for both tactical control (APB(T)) and weapon control (APB(W)) subsystems. The tactical control integration effort incorporates the integration of other sensor (ESM, sonar, radar, etc.) inputs to provide a common operational picture and improved situational awareness in an information assurance (IA) compliant environment. The weapon control development effort provides improvements to the weapons control subsystem based on improvements to missiles and torpedoes. AN/BYG-1 allows the submarine Navy to rapidly update the ship safety tactical picture, integrates the common tactical picture into the battlegroup, improves torpedo interfaces and provides Tactical TOMAHAWK (TOMAHAWK Block IV) capability.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: Advanced Processor Builds Articles: FY 2012 Accomplishments: Completed APB-11 integration into AN/BYG-1 (TI-12) baseline. Support development of APB-13 into AN/BYG-1 baseline. FY 2013 Plans: Continue development of APB-13 into AN/BYG-1 baseline. FY 2014 Plans: Complete APB-13 integration into AN/BYG-1 (TI-14) baseline.									19.931	22.663	22.237	
									0	0	0	
Title: AN/BYG-1 TI-10 Articles:									3.320	0.000	0.000	
									0			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604562N: Submarine Tactical Warfare System	PROJECT 0236: SSN Comb Cont Sys Imprvmnt (ENG)		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
FY 2012 Accomplishments: Completed development, integration, and test of the next generation AN/BYG-1 (TI-10) for SSN 688/SSGN/VA Class submarines.				
Title: AN/BYG-1 TI-12 Articles:		10.533 0	4.426 0	1.500 0
FY 2012 Accomplishments: Continue development, integration, and test of the next generation AN/BYG-1 (TI-12) for SSN 688/SSGN/VA Class submarines.				
FY 2013 Plans: Continue development, integration, and test of the next generation AN/BYG-1 (TI-12) for SSN 688/SSGN/VA Class submarines.				
FY 2014 Plans: Complete development, integration and test of the next generation AN/BYG-1 (TI-12) for SSN 688/SSGN/VA Class submarines.				
Title: AN/BYG-1 TI-14 Articles:		3.178 0	7.118 0	7.945 0
FY 2012 Accomplishments: Begin engineering development process for selection and prototyping of new technologies.				
FY 2013 Plans: Continue development, integration and test of the next generation AN/BYG-1 (TI-14) for SSN 688/SSGN/VA Class submarines.				
FY 2014 Plans: Continue development, integration and test of the next generation AN/BYG-1 (TI-14) for SSN 688/SSGN/VA Class submarines.				
Title: AN/BYG-1 TI-16 Articles:		0.000	3.030 0	7.239 0
FY 2013 Plans: Begin engineering development process for selection and prototyping of new technologies.				
FY 2014 Plans: Continue development, integration and test of the next generation AN/BYG-1 (TI-16) for SSN 688/SSGN/VA Class submarines.				
Title: Testing Articles:		4.000 0	5.340 0	3.591 0
FY 2012 Accomplishments:				

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>		R-1 ITEM NOMENCLATURE PE 0604562N: <i>Submarine Tactical Warfare System</i>	PROJECT 0236: <i>SSN Comb Cont Sys Imprvmnt (ENG)</i>
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013
Completed DT/OT for AN/BYG-1 TI-10 on SSN 688/SSGN/Seawolf/VA Class submarines. Begin DT/OT for AN/BYG-1 APB-11 on SSN 688/SSGN/Seawolf/VA Class submarines. FY 2013 Plans: Complete DT/OT for AN/BYG-1 APB-11 on SSN 688/SSGN/Seawolf/VA Class submarines. Begin DT/OT for AN/BYG-1 TI-12 on SSN 688/SSGN/Seawolf/VA Class submarines. FY 2014 Plans: Complete DT/OT for AN/BYG-1 TI-12 on SSN 688/SSGN/Seawolf/VA Class submarines. Begin DT/OT for AN/BYG-1 APB-13 on SSN 688/SSGN/Seawolf/VA Class submarines.			
Title: Information Assurance (IA) Articles:		6.356 0	6.564 0
FY 2012 Accomplishments: Developed and integrated IA Toolkit and conduct IA Certification Testing on BYG-1 TI-12. FY 2013 Plans: Complete integration of IA Toolkit and continue IA Certification Testing on BYG-1 TI-12 FY 2014 Plans: Develop and integrate IA Toolkit and conduct IA Certification Testing on BYG-1 TI-14			
Accomplishments/Planned Programs Subtotals		47.318	49.141
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			
D. Acquisition Strategy This budget integrates APBs developed by the advanced development community. This program has been tailored in accordance with the new DoD5000 directive to incorporate annual MDA production reviews. Advanced Processing Builds (APB) products associated with AN/BYG-1 Release-To- Fleet 3Q 2011, 3Q 2013, 3Q 2015 and 3Q 2017.			
E. Performance Metrics AN/BYG-1 Submarine Combat and Weapon Control System performance metrics for each Advanced Processor Build (APB) and Technology Insertion (TI) cycle are contained in the classified Capability Production Document (CPD) annex to the overarching system requirements as laid out in the Capabilities Development Document (CDD). Each APB cycle receives an updated CPD based on fleet required capabilities.			

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)						R-1 ITEM NOMENCLATURE PE 0604562N: Submarine Tactical Warfare System				PROJECT 0236: SSN Comb Cont Sys Imprvmnt (ENG)					
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
AN/BYG-1 TECH INSERTION	C/CPIF	GENERAL DYNAMICS (GDAIS):FAIR LAKES, VA	66.532	6.486	Oct 2011	6.446	Oct 2012	6.768	Oct 2013	-		6.768	Continuing	Continuing	Continuing
AN/BYG-1 TECH INSERTION	C/CPIF	GENERAL DYNAMICS (GDAIS):PITTSFIELD, MA	17.629	8.995	Oct 2011	8.997	Oct 2012	9.267	Oct 2013	-		9.267	Continuing	Continuing	Continuing
GOVERNMENT ENGINEERING	WR	NUWC:NEWPORT, RI	73.994	2.653	Oct 2011	2.698	Oct 2012	2.749	Oct 2013	-		2.749	Continuing	Continuing	Continuing
INFORMATION ASSURANCE	C/CPAF	PROGENY:MANASSAS, VA	12.642	6.356	Oct 2011	6.564	Oct 2012	6.631	Oct 2013	-		6.631	Continuing	Continuing	Continuing
AN/BYG-1 TECH INSERTION	C/CPAF	RAYTHEON:PORTSMOUTH, RI	53.350	0.000		0.000		0.000		-		0.000	0.000	53.350	53.350
MULTI TUBE WEAPON SIMULATOR	Various	PROGENY:Not Specified	2.635	0.000		0.000		0.000		-		0.000	0.000	2.635	2.635
AN/BYG-1 TECH INSERTION	Various	MITRE:Not Specified	2.429	0.000		0.000		0.000		-		0.000	0.000	2.429	2.429
AN/BYG-1 TECH INSERTION	C/CPIF	ANTEON:Not Specified	6.000	0.000		0.000		0.000		-		0.000	0.000	6.000	6.000
COTS HARDWARE & SOFTWARE	C/CPAF	DDL OMNI:Not Specified	8.500	0.000		0.000		0.000		-		0.000	0.000	8.500	8.500
COMMON WEAPON LAUNCHER	C/CPAF	PROGENY:Not Specified	38.329	0.000		0.000		0.000		-		0.000	0.000	38.329	38.329
Subtotal			282.040	24.490		24.705		25.415		0.000		25.415			
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
APB SOFTWARE INTEGRATION	C/CPIF	GENERAL DYNAMICS	50.890	3.570	Oct 2011	3.576	Oct 2012	3.683	Oct 2013	-		3.683	Continuing	Continuing	Continuing

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)						R-1 ITEM NOMENCLATURE PE 0604562N: Submarine Tactical Warfare System						PROJECT 0236: SSN Comb Cont Sys Imprvmnt (ENG)			
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
		(GDAIS):FAIRLAKES, VA													
APB SOFTWARE INTEGRATION	C/CPIF	GENERAL DYNAMICS:PITTSFIELD, MA	9.135	4.590	Oct 2011	4.613	Oct 2012	4.751	Oct 2013	-		4.751	Continuing	Continuing	Continuing
APF SOFTWARE INTEGRATION	WR	NUWC:NEWPORT, RI	35.198	5.382	Oct 2011	5.103	Oct 2012	5.231	Oct 2013	-		5.231	Continuing	Continuing	Continuing
SOFTWARE DEVELOPMENT	Various	VARIOUS:VARIOUS:Not Specified	40.315	4.286	Oct 2011	3.794	Oct 2012	5.070	Oct 2013	-		5.070	Continuing	Continuing	Continuing
APB SOFTWARE INTEGRATION	C/CPAF	RAYTHEON:PORTSMOUTH, RI	44.466	0.000		0.000		0.000		-		0.000	0.000	44.466	44.466
Subtotal			180.004	17.828		17.086		18.735		0.000		18.735			
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
DEVELOPMENT TEST & EVALUATION	WR	NUWC:NEWPORT, RI	27.614	2.599	Oct 2011	3.116	Oct 2012	2.269	Oct 2013	-		2.269	Continuing	Continuing	Continuing
TEST & EVALUATION	Various	VARIOUS:VARIOUS:Not Specified	4.495	1.401	Oct 2011	2.224	Oct 2012	1.322	Oct 2013	-		1.322	Continuing	Continuing	Continuing
OPERATIONAL TEST & EVALUATION	WR	COMOPTEVFOR:Not Specified	16.169	0.000		0.000		0.000		-		0.000	0.000	16.169	16.169
Subtotal			48.278	4.000		5.340		3.591		0.000		3.591			
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
PROGRAM MANAGEMENT SUPPORT	C/CPFF	URS:ARLINGTON, VA	14.035	1.000	Oct 2011	2.010	Oct 2012	1.402	Oct 2013	-		1.402	Continuing	Continuing	Continuing

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>						R-1 ITEM NOMENCLATURE PE 0604562N: <i>Submarine Tactical Warfare System</i>						PROJECT 0236: <i>SSN Comb Cont Sys Imprvmnt (ENG)</i>			
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
TRAVEL	WR	NAVSEA:ARLINGTON, VA	0.620	0.000		0.000		0.000		-		0.000	0.000	0.620	0.880
ACQUISITION WORKFORCE	Various	Not Specified:Not Specified	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	0.282
Subtotal			14.655	1.000		2.010		1.402		0.000		1.402			
			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			524.977	47.318		49.141		49.143		0.000		49.143			
Remarks															

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy
BA 5: System Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604562N: Submarine Tactical Warfare System

PROJECT

0236: SSN Comb Cont Sys Imprvmnt (ENG)

Page 1		FY 2012			FY 2013			FY 2014			FY 2015			FY 2016			FY 2017			FY 2018									
		1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q				
Acq Milestones					MDA Program Review ▲				MDA Program Review ▲				MDA Program Review ▲				MDA Program Review ▲				MDA Program Review ▲				MDA Program Review ▲				
APB I&T, Certification																													
	APB-11																												
	APB-13																												
	APB-15																												
	APB-17																												
Development, I&T Certification																													
	TI-10																												
	TI-12																												
	TI-14																												
	TI-16																												
	TI-18																												
Test & Evaluation Milestones																													
	DT/FOT&E																												
	AN/BYG-1	TI-10 (DT/OT)			APB-11 (DT/OT)				TI-12 (DT/OT)				APB-13 (DT/OT)				TI-14 (DT/OT)				APB-15 (DT/OT)				TI-16 (DT./OT)				APB (DT/OT)

2014DON - 0604562N - 0236

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604562N: <i>Submarine Tactical Warfare System</i>	PROJECT 0236: <i>SSN Comb Cont Sys Imprvmnt (ENG)</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Page 1				
Acq Milestones: Annual MDA Program Review - FY12	4	2012	4	2012
Acq Milestones: Annual MDA Program Review - FY13	4	2013	4	2013
Acq Milestones: Annual MDA Program Review - FY14	4	2014	4	2014
Acq Milestones: Annual MDA Program Review - FY15	4	2015	4	2015
Acq Milestones: Annual MDA Program Review - FY16	4	2016	4	2016
Acq Milestones: Annual MDA Program Review - FY17	4	2017	4	2017
Acq Milestones: Annual MDA Program Review - FY18	4	2018	4	2018
APB I&T, Certification: APB-11: APB-11	1	2012	3	2012
APB I&T, Certification: APB-13: APB-13	4	2012	3	2014
APB I&T, Certification: APB-15: APB-15	4	2014	3	2016
APB I&T, Certification: APB-17: APB-17	4	2016	3	2018
Development, I&T Certification: TI-12: TI-12	1	2012	3	2013
Development, I&T Certification: TI-14: TI-14	4	2012	3	2015
Development, I&T Certification: TI-16: TI-16	4	2014	3	2017
Development, I&T Certification: TI-18: TI-18	4	2016	4	2018
Test & Evaluation Milestones: AN/BYG-1: TI-10 DT/OT	1	2012	1	2012
Test & Evaluation Milestones: AN/BYG-1: APB-11 DT/OT	4	2012	1	2013
Test & Evaluation Milestones: AN/BYG-1: TI-12 DT/OT	4	2013	1	2014
Test & Evaluation Milestones: AN/BYG-1: APB-13 DT/OT	4	2014	1	2015
Test & Evaluation Milestones: AN/BYG-1: TI-14 DT/OT	4	2015	1	2016
Test & Evaluation Milestones: AN/BYG-1: APB-15 DT/OT	4	2016	1	2017

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604562N: Submarine Tactical Warfare System		PROJECT 0236: SSN Comb Cont Sys Imprvmnt (ENG)
		Start		End
Events by Sub Project		Quarter	Year	Quarter Year
Test & Evaluation Milestones: AN/BYG-1: TI-16 DT/OT		4	2017	1 2018
Test & Evaluation Milestones: AN/BYG-1: APB-17 DT/OT		4	2018	4 2018