

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Army **Date:** February 2016

Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 0205778A / Guided Multiple-Launch Rocket System (GMLRS)
--	--

COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	-	43.791	36.727	22.044	-	22.044	30.177	29.726	27.959	27.015	Continuing	Continuing
EG2: GMLRS Alternative Warheads	-	32.754	0.319	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	33.073
EG3: Guided MLRS	-	11.037	36.408	22.044	-	22.044	30.177	29.726	27.959	27.015	Continuing	Continuing

Note
Beginning in FY2015, Guided Multiple Launch Rocket System (GMLRS) has its own separate Program Element, 0205778A, to include Projects EG2 (GMLRS Alternative Warhead) and EG3 (Guided MLRS), previously under Program Element 0603778A Project Codes 78G and 784, respectively.

A. Mission Description and Budget Item Justification

Projects EG2/EG3. GMLRS rockets are surface-to-surface artillery rockets fired from the Multiple Launch Rocket System (MLRS) and High Mobility Artillery Rocket System (HIMARS) launchers. GMLRS rockets provide 24/7, all-weather precision fires to engage both area and point targets at short, medium, and long ranges.

The GMLRS Program consists of three separate increments: GMLRS Dual Purpose Improved Conventional Munition (DPICM) cluster munition to engage area or imprecisely located targets; GMLRS Unitary utilizes a 200 lbs. high explosive warhead to engage point targets with limited collateral damage; and GMLRS Alternative Warhead (AW) which has been developed as a non-cluster munition to replace GMLRS DPICM. GMLRS DPICM Production was terminated in response to the June 2008 Department of Defense (DoD) Cluster Munitions Policy. GMLRS Unitary is currently in full rate production. GMLRS AW completed Engineering and Manufacturing Development (EMD) and entered full rate production in FY2015. The GMLRS AW rocket is 90% common with the Unitary variant.

B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	45.353	17.527	27.829	-	27.829
Current President's Budget	43.791	36.727	22.044	-	22.044
Total Adjustments	-1.562	19.200	-5.785	-	-5.785
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	19.200			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.562	-			
• Adjustments to Budget Years	-	-	-5.785	-	-5.785

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Army		Date: February 2016
Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0205778A / <i>Guided Multiple-Launch Rocket System (GMLRS)</i>	
<u>Change Summary Explanation</u> The FY 2017 funding request was reduced by \$1.200 million (Project EG3) to account for the availability of prior year execution balances.		

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Army										Date: February 2016		
Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0205778A / <i>Guided Multiple-Launch Rocket System (GMLRS)</i>				Project (Number/Name) EG2 / <i>GMLRS Alternative Warheads</i>			
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
EG2: <i>GMLRS Alternative Warheads</i>	-	32.754	0.319	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	33.073
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Beginning in FY2015, Guided Multiple Launch Rocket System (GMLRS) has its own separate Program Element, 0205778A, to include Projects EG2 (GMLRS Alternative Warhead) and EG3 (Guided MLRS), previously under Program Element 0603778A Project Codes 78G and 784, respectively.

A. Mission Description and Budget Item Justification

The United States (U.S.) Army funded the development of the Guided Multiple Launch Rocket System (GMLRS) Alternative Warhead (AW) increment under the EG2-GMLRS AW project code. GMLRS AW has been developed as a non-cluster munition to replace GMLRS Dual Purpose Improved Conventional Munitions (DPICM) and service the same area and imprecisely-located targets. GMLRS DPICM Production was terminated in response to the June 2008 Department of Defense (DoD) Cluster Munitions Policy.

GMLRS AW successfully completed the combined Milestone C (MS C) and Full Rate Production (FRP) decision review on 8 April 2015. Initial Operational Capability (IOC) is planned for December 2016. The acquisition strategy is to procure AW as part of the annual GMLRS FRP contract.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<p>Title: Conduct Development Engineering, Design Component Testing, and Performance Analysis.</p> <p>Description: Funding is provided for the following effort</p> <p>FY 2015 Accomplishments: Assessed warhead capability and effectiveness in multiple employment scenarios.</p> <p>FY 2016 Plans: Complete test reports.</p>	14.628	0.319	-	-	-
<p>Title: Perform technical assessments and concept studies.</p> <p>Description: Funding is provided for the following effort</p> <p>FY 2015 Accomplishments:</p>	8.470	-	-	-	-

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Army		Date: February 2016
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0205778A / <i>Guided Multiple-Launch Rocket System (GMLRS)</i>	Project (Number/Name) EG2 / <i>GMLRS Alternative Warheads</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Evaluated production rate tooling assessments; conducted functional configuration audit; assessed readiness for operational testing.					
Title: Prepare Milestone Documentation, Risk Reduction, and Program Reviews. Description: Funding is provided for the following effort	1.491	-	-	-	-
FY 2015 Accomplishments: Finalized milestone documentation; preparation of all documentation and presentation requirements associated with completion and execution of MS C and Full Rate Production Decision (FRPDR).					
Title: Conduct System Test and Evaluation Activities. Description: Funding is provided for the following effort	8.165	-	-	-	-
FY 2015 Accomplishments: Initial Operational Test and Evaluation (IOT&E).					
Accomplishments/Planned Programs Subtotals	32.754	0.319	-	-	-

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
• GMLRS (C64400): <i>GMLRS (C64400)</i>	127.145	251.060	172.088	75.991	248.079	260.698	205.409	287.288	265.991	Continuing	Continuing
• Guided MLRS (EG3): <i>Guided MLRS (EG3)</i>	11.037	36.408	22.044	-	22.044	30.177	29.726	27.959	27.015	Continuing	Continuing

Remarks
GMLRS procurement funding includes C65404 and C65406.

D. Acquisition Strategy
The GMLRS AW rocket is a product improved version of the current GMLRS rocket. During EMD, GMLRS AW completed development, integration, and testing under a Firm Fixed Price (FFP) contract.

E. Performance Metrics
N/A

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Army **Date:** February 2016

Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0205778A / <i>Guided Multiple-Launch Rocket System (GMLRS)</i>	Project (Number/Name) EG2 / <i>GMLRS Alternative Warheads</i>
--	---	---

Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Government Program Management	TBD	PFRMS Project Office, : RSA	0.000	4.642	Oct 2014	0.319		-		-		-	0.000	4.961	0.000
Subtotal			0.000	4.642		0.319		-		-		-	0.000	4.961	0.000

Remarks
TBD-To Be Determined; Cont.-Continuing; PFRMS-Precision Fires Rocket and Missile Systems; RSA-Redstone Arsenal

Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
AWP Contracts (Multiple)	Various	ATK (Plymouth, MN) LMMFCS (Dallas, TX) : Systems Integrator	0.000	9.955	Dec 2014	-		-		-		-	0	9.955	0
Other Government Agencies	TBD	AMCOM/ : AMRDEC, RSA	0.000	3.557	Dec 2014	-		-		-		-	0.000	3.557	0.000
Subtotal			0.000	13.512		-		-		-		-	0.000	13.512	0.000

Remarks
AWP-Alternative Warhead Program; Various-Competitive/Firm Fixed Price/Sole Source/Cost Plus Fixed Fee; TBD-To Be Determined; Cont.-Continuing; AMCOM-Army Materiel Command; AMRDEC-U.S. Army Research, Development and Engineering Command; RSA-Redstone Arsenal; ATK-Alliant Techsystems, Inc.; MN-Minnesota; LMMFCS-Lockheed Martin Missile and Fire Control System; TX-Texas

Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Support Contracts	C/CPFF	Various : Various	0.000	0.237	Dec 2014	-		-		-		-	0	0.237	0
Subtotal			0.000	0.237		-		-		-		-	0.000	0.237	0.000

Remarks
C/CPFF-Competitive/Cost Plus Fixed Fee; Cont.-Continuing

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Army **Date:** February 2016

Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0205778A / <i>Guided Multiple-Launch Rocket System (GMLRS)</i>	Project (Number/Name) EG2 / <i>GMLRS Alternative Warheads</i>
--	---	---

Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Test Support	TBD	WSMR, : NM	0.000	14.363	Dec 2014	-		-		-		-	0	14.363	0
Subtotal			0.000	14.363		-		-		-		-	0.000	14.363	0.000

Remarks
TBD-To Be Determined; Cont.-Continuing; WSMR, NM-White Sands Missile Range, New Mexico

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	32.754	0.319	-	-	-	0.000	33.073	0.000

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2017 Army **Date:** February 2016

Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0205778A / <i>Guided Multiple-Launch Rocket System (GMLRS)</i>	Project (Number/Name) EG2 / <i>GMLRS Alternative Warheads</i>
--	---	---

Event Name	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	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
Initial Operational Test (IOT)																												
Perform Technical Assessments and Concept Studies																												
(1) MS C and FRP			▲																									
(2) IOC												▲																
Conduct Development Engineering/Design Component Testing/Performance																												

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2017 Army		Date: February 2016
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0205778A / <i>Guided Multiple-Launch Rocket System (GMLRS)</i>	Project (Number/Name) EG2 / <i>GMLRS Alternative Warheads</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Initial Operational Test (IOT)	1	2015	2	2015
Perform Technical Assessments and Concept Studies	1	2015	2	2015
MS C and FRP	3	2015	3	2015
IOC	1	2017	1	2017
Conduct Development Engineering/Design Component Testing/Performance Analysis	1	2015	2	2016

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Army										Date: February 2016		
Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0205778A / <i>Guided Multiple-Launch Rocket System (GMLRS)</i>				Project (Number/Name) EG3 / <i>Guided MLRS</i>			
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
EG3: <i>Guided MLRS</i>	-	11.037	36.408	22.044	-	22.044	30.177	29.726	27.959	27.015	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Beginning in FY2015, Guided Multiple Launch Rocket System (GMLRS) has its own separate Program Element, 0205778A, to include Projects EG2 (GMLRS Alternative Warhead) and EG3 (Guided MLRS), previously under Program Element 0603778A Project Codes 78G and 784, respectively.

A. Mission Description and Budget Item Justification

The United States (U.S.) Army continues to explore ways to enhance Guided Multiple Launch Rocket System (GMLRS) Unitary rockets and common components and to mitigate obsolescence issues under the Guided MLRS project code. The Army is requesting funding for the following GMLRS Research, Development, Test and Evaluation (RDT&E) activities: (1) evaluation of enhanced operational capabilities to provide more flexibility across the target set to include increased range, flight performance, and end game optimization; (2) investigation of potential life cycle cost savings through obsolescence initiatives; (3) development of enhancements to the Multiple Launch Rocket System (MLRS) common test equipment; (4) evaluation and development of technologies to enhance overall product performance and survivability and (5) Insensitive Munitions (IM) compliance.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<p>Title: Assess and improve GMLRS rockets.</p> <p>Description: Funding is provided for the following effort</p> <p>FY 2015 Accomplishments: Continued to assess and evaluate improvements in rocket reliability, increased range, collateral damage, and effectiveness, executed spinless rail flights, and pod enhancement studies.</p> <p>FY 2016 Plans: Continue to assess and evaluate improvements in rocket reliability, increased range, collateral damage, effectiveness, and pod enhancement studies.</p> <p>FY 2017 Base Plans: Continue to assess and evaluate improvements in rocket reliability, increased range, collateral damage, effectiveness, and pod enhancements.</p>	1.606	2.409	3.192	-	3.192
<p>Title: Conduct qualification and testing for Insensitive Munitions (IM) program.</p> <p>Description: Funding is provided for the following effort</p>	5.989	28.836	13.827	-	13.827

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Army		Date: February 2016
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0205778A / <i>Guided Multiple-Launch Rocket System (GMLRS)</i>	Project (Number/Name) EG3 / <i>Guided MLRS</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<p><i>FY 2015 Accomplishments:</i> Conducted System Functional Design Review (FDR) and System Integration Tests (SITs) and Stockpile to Target Sequence (STS) flights.</p> <p><i>FY 2016 Plans:</i> Continue SITs and STS efforts. Support the qualification of a second IM Propulsion System source (support both component/system System Requirements Reviews (SRRs), Preliminary Design Reviews (PDRs), Critical Design Reviews (CDRs), procure approximately 125 Ignition Safety Devices (ISDs) and 60-90 IM rocket motors, pay for the component assembly and component level qualification testing, support component/rocket integration, system level integration tests, and eventually flight tests).</p> <p><i>FY 2017 Base Plans:</i> Propulsion system ground/flight tests.</p>					
<p><i>Title:</i> Investigate obsolescence cost/cost reduction opportunities/second source suppliers.</p> <p><i>Description:</i> Funding is provided for the following effort</p> <p><i>FY 2015 Accomplishments:</i> Inserted Guidance Processor Unit (GPU) and Power Condition Unit (PCU) into GMLRS program.</p> <p><i>FY 2016 Plans:</i> Qualify NAVSTRIKE 3.7 obsolescence upgrade.</p> <p><i>FY 2017 Base Plans:</i> Continue qualification of NAVSTRIKE 3.7 obsolescence upgrade.</p>	1.033	1.549	2.505	-	2.505
<p><i>Title:</i> Conduct System Test and Evaluation activities.</p> <p><i>Description:</i> Funding is provided for the following effort</p> <p><i>FY 2015 Accomplishments:</i> Conducted configuration ground control testing for the GMLRS IM Rocket Motor (RM) and Ignition Safety Device (ISD).</p> <p><i>FY 2016 Plans:</i> Continue configuration ground control testing for the GMLRS IM RM and ISD.</p> <p><i>FY 2017 Base Plans:</i></p>	2.409	3.614	2.520	-	2.520

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Army		Date: February 2016
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0205778A / <i>Guided Multiple-Launch Rocket System (GMLRS)</i>	Project (Number/Name) EG3 / <i>Guided MLRS</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Continue configuration ground control testing for the GMLRS IM RM and ISD.					
Accomplishments/Planned Programs Subtotals	11.037	36.408	22.044	-	22.044

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
• GMLRS (C64400): <i>GMLRS (C64400)</i>	127.145	251.060	172.088	75.991	248.079	260.698	205.409	287.288	265.991	Continuing	Continuing
• GMLRS Alternative Warheads (EG2): <i>GMLRS Alternative Warheads (EG2)</i>	32.754	0.319	-	-	-	-	-	-	-	0	33.073

Remarks
GMLRS Procurement funding includes C65404 and C65406.

D. Acquisition Strategy
Project EG3 is intended to support, investigate, and develop alternative material changes to improve the GMLRS family of munitions as they are identified by the material developer or combat developer. This project also supports IM activities to improve the overall posture of the system all the way down to component level. Future initiatives include a missile modernization program to extend the shelf life of the GMLRS rocket.

E. Performance Metrics
N/A

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Army **Date:** February 2016

Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0205778A / <i>Guided Multiple-Launch Rocket System (GMLRS)</i>	Project (Number/Name) EG3 / <i>Guided MLRS</i>
--	---	--

Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Government Program Management	TBD	PFRMS Project Office, : RSA	0.000	0.050	Oct 2014	2.104		2.721		-		2.721	Continuing	Continuing	Continuing
Subtotal			0.000	0.050		2.104		2.721		-		2.721	-	-	-

Remarks
TBD-To Be Determined; Cont.-Continuing; PFRMS-Precision Fires Rocket and Missile Systems; RSA-Redstone Arsenal, Alabama

Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Unitary Contracts/Multiple	SS/CPFF	LMMFCS : Dallas, TX	0.000	8.998	Dec 2014	8.287		11.188	Dec 2016	-		11.188	Continuing	Continuing	Continuing
IM Qualification Contracts/ Multiple	SS/CPFF	TBD : TBD	0.000	-		17.200		5.615	Oct 2016	-		5.615	0	22.815	0
Subtotal			0.000	8.998		25.487		16.803		-		16.803	-	-	-

Remarks
SS/CPFF-Sole Source/Cost Plus Fixed Fee; Cont.-Continuing; LMMFCS - Lockheed Martin Missile and Fire Control System; TX - Texas; AMCOM-Aviation and Missile Command; TBD-To Be Determined; AMRDEC - U.S. Army Research, Development and Engineering Command; RSA - Redstone Arsenal, Alabama

Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Test Support	TBD	WSMR, : NM	0.000	1.989	Dec 2014	8.817		2.520	Dec 2016	-		2.520	Continuing	Continuing	Continuing
Subtotal			0.000	1.989		8.817		2.520		-		2.520	-	-	-

Remarks
TBD-To Be Determined; Cont.-Continuing; WSMR, NM-White Sands Missile Range, New Mexico

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2017 Army		Date: February 2016
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0205778A / <i>Guided Multiple-Launch Rocket System (GMLRS)</i>	Project (Number/Name) EG3 / <i>Guided MLRS</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Technical Assessment/Concept, Survivability	1	2015	4	2020
Obsolescence/Cost Reduction Opportunities and Second Source Suppliers	1	2015	4	2020
GPU/PCU Qualification Testing	1	2015	2	2016
GPU/PCU Qualification Flights	4	2016	4	2016
IM/Enhanced Technology Improvements	1	2015	4	2020
Configuration System Qualification Ground/Flight Testing	4	2015	3	2018
Engineering Change Proposal (ECP) Cut In Decision	4	2018	4	2018

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED