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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Air Force	DATE: February 2012
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APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>				PE 0207423F: <i>Advanced Communications Systems</i>							
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	52.480	43.964	-	-	-	-	-	-	-	Continuing	Continuing
674934: <i>Tactical Air Control Party (TACP)</i>	13.599	-	-	-	-	-	-	-	-	Continuing	Continuing
675189: <i>C2ISR JTRS Integration</i>	38.881	43.964	-	-	-	-	-	-	-	Continuing	Continuing

Note

In FY2012, Project 674934, Tactical Air Control Party, efforts transferred to PE 0207444F, Tactical Air Control Party, Project 676013, Equipment Modernization, in order to better identify and delineate efforts for Tactical Air Control Party Modernization.

In FY2013, Project number 675189, C2ISR JTRS Integration, was terminated.

"The Cost to Complete and Total Cost for MDAP projects in this program element are documented in the R3. The Cost to Complete and Total Cost on the R2 are entered as "Continuing" and not reflective of the total cost for MDAP projects since the R2 does not account for prior years funding."

A. Mission Description and Budget Item Justification

Joint Tactical Radio System (JTRS) is the Department of Defense (DoD) family of interoperable, modular, software-defined radios that will form the foundation of radio frequency information transmission for Joint Vision 2020. Joint Tactical Radio Systems (JTRS) will link the power of the Global Information Grid (GIG) to the warfighter in applying fire effects and achieving overall battlefield superiority. By developing and implementing an open architecture of cutting-edge radio waveform technology, multiple radio types (e.g., handheld, ground-mobile, airborne, maritime, etc.) are now capable of communicating with one another. JTRS radios are intended to interoperate with existing radio systems and improve joint warfighting through a series of new, joint networking waveforms enabling communication via voice, data, and video over mobile, ad-hoc, internet protocol (IP) based networks. Each radio will operate as a node in the network to ensure secure wireless communication and networking services for airborne, mobile and fixed forces. These goals extend to U.S. allies, joint and coalition partners, and, in time, disaster response personnel. JTRS will make the Air Force more effective in Joint warfighting through a series of new, joint networking waveforms. These waveforms included the Mobile User Objective System (MUOS), which provides next generation SATCOM beyond-line-of-sight (BLOS) communications, as well as the Wideband Networking Waveform (WNW) and the Soldier Radio Waveform (SRW), which provide interoperability with Army ground forces from the brigade level down to the dismounted soldier. Together these waveforms enable Joint Close Air Support (JCAS), Combat Search and Rescue (CSAR), and other Joint missions. The JTRS program is built around an open Software Communications Architecture (SCA), allowing common software waveform applications to be implemented across the family of radios to provide joint-service, allied, and coalition interoperability. The Enterprise Business Model, incorporating a common set of shared open system standards, promotes competition and reduces procurement costs for the DoD.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year

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APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207423F: <i>Advanced Communications Systems</i>
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B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	67.532	90.083	194.387	-	194.387
Current President's Budget	52.480	43.964	-	-	-
Total Adjustments	-15.052	-46.119	-194.387	-	-194.387
• Congressional General Reductions	-	-0.919			
• Congressional Directed Reductions	-	-45.200			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-14.027	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-1.025	-	-194.387	-	-194.387

Change Summary Explanation

FY11 Congressional General Reduction of 1.025M in Other Adjustment row.

FY12 Congressional General Reduction (FFRDC, Sec. 8023) of 0.919M.

FY12 Congressional Directed Reduction of 45.2M from FY12 Defense Appropriation Act.

In FY2013, Project number 675189, C2ISR JTRS Integration, was terminated.

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Air Force									DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0207423F: Advanced Communications Systems				PROJECT 674934: Tactical Air Control Party (TACP)			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
674934: Tactical Air Control Party (TACP)	13.599	-	-	-	-	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

Note

In FY2012, PE 0207423F, Advanced Communications Systems, Project 674934, Tactical Air Control Party (TACP), efforts were transferred to PE 0207444F, Project 676013, Equipment Modernization, in order to better identify and delineate efforts for Tactical Air Control Party Modernization.

A. Mission Description and Budget Item Justification

The TACP-Modernization (TACP-M) program is developing new equipment to give TACPs the capability to detect targets and compute precise target coordinates for employment of GPS aided weapons, reduce the potential for fratricide, and reduce the potential for collateral damage in civilian-occupied areas. This new equipment shortens the kill chain by reducing the time required to submit air support requests, provide target information to aircraft, and ensure pilots are tracking the correct target. By reducing the time required to execute close air support missions in "troops-in-contact" situations, the TACP-M program helps reduce the number of U.S. and coalition casualties due to enemy action. TACPs deploy with Army maneuver units and provide a Command and Control (C2) link for Close Air Support (CAS), airlift and AF surveillance/reconnaissance missions. TACPs are equipped with various targeting and communications equipment needed to interface with ground maneuver forces, aircraft conducting CAS operations, other joint fires assets, aerospace C2 aircraft/agencies, and Intelligence, Surveillance and Reconnaissance (ISR) platforms/agencies. The TACP-M program provides TACP, Air Support Operations Centers (ASOCs), and Tactical Operations Center (TOCs) personnel with the capability to precisely locate and target enemy ground forces by integrating various Laser Targeting Devices (LTD) and ultra high frequency satellite communications (UHF SATCOM) for beyond-line-of-sight (BLOS) Air Force Air Request Net operations.

The purpose of the TACP-M program is to reduce reliance on voice transmission and replace analog equipment with the latest digital, data link and streaming video (e.g. Streaming Video Receiver) technology. Upgraded digital communications enable machine-to-machine interface between TACPs and Close Air Support (CAS) aircraft, Army units and other TACP units. Machine-to-machine communication provides reliable, high speed digital communications, ultimately supports joint and multinational interoperability, improves battlefield Situational Awareness (SA), increases targeting accuracy, reduces kill chain decision time, improves data flows/information exchange, and reduces potential fratricide and collateral damage in civilian occupied areas. The TACP-M program supports the Overseas Contingency Operations (OCO) and significantly increased the mission effectiveness of the TACPs and ASOCs during Operation Enduring Freedom and Operation New Dawn. The TACP-M program continues to be instrumental in providing ground communications for TACPs during federal emergency relief operations and Homeland Defense initiatives.

TACP-M is divided into three segments: dismounted, mounted, and software. The TACP provides modernized, modular, re-locatable and man portable capabilities via streamlined acquisition using non-developmental, off-the-shelf (OTS) Manpack Radios (MPR) or Handheld Radios (HHR), laser targeting devices (LTDs) (including Laser Range Finder (LRFs), Joint Effects Targeting System (JETS) laser designators and imagers, tactical computers, and ancillary equipment combined with Close Air Support System (CASS) software for dismounted, ASOC, and TOC use.

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Air Force		DATE: February 2012	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0207423F: Advanced Communications Systems	PROJECT 674934: Tactical Air Control Party (TACP)	
<p>The TACP mounted segment upgrades TACP communications systems with Software Communication Architecture (SCA)-certified,available software programmable radios, legacy radios, and ancillary components. These systems provide reliable communications for CAS and other air support operations. TACP-M will integrate Internet Protocol (IP)-capable, SCA radios for voice & data UHF SATCOM and LOS UHF /VHF communications.</p> <p>TACP-M funds will continue to develop systems integration software for dismounted and mounted air/ground platforms (e.g. JETS (Target Effects Coordination System [TECS]), Small Diameter Bomb II (SDBII), F-35, Mine Resistant Ambush Protected (MRAP) vehicle, Gateway Lite, and ASOC Gateway) and will provide interoperability data links such as Situational Awareness Data Link (SADL), Link-16 and other transformational communications capabilities.</p> <p>The mounted capabilities used in overseas contingency operations also require new digital communications/network enabled capabilities integrated in armored vehicle platforms such as the High Mobility, Multi-Wheeled Vehicles (HMMWV), Stryker, and Mine Resistant Ambush Protected (MRAP). The Air Force has requested acceleration of a vehicle communications capability into TACP Stryker Light Armored Vehicles (LAV), and other tactical vehicles.</p> <p>Activities also include studies and analysis to support both current program planning and execution and future program planning.</p> <p>This program is in Budget Activity 7, Operational System Development these budget activity includes development efforts to upgrade systems currently fielded or has approval for full rate production and anticpate production funding in current or subsequent fiscal year.</p>			
B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
<p>Title: Mobile Communications Capability</p> <p>Description: Mobile Communications Capability (MCC) - Design, develop, fabricate, integrate , test, provide associated documentation (e.g. technical manuals) in support of delivering a digital multiple-channel, mobile MCC to replace the aging analog GRC-206 communications pallet.</p> <p>FY 2011 Accomplishments: Developed and tested MCC in HMMWV in support of a long term replacement for the aging GRC-206 communications pallet and other TACP systems. Due to issues with personnel safety and survivability issues, the HMMWV portion of VCS was cancelled in FY11. The requirement for a vehicle communication system remains. Future year development is described in the PE 0207444F, Project 676013.</p> <p>FY 2012 Plans: TACP RDT&E efforts moved to PE 0207444F, Project 676013 effective FY2012.</p> <p>N/A</p>	0.587	-	-
<p>Title: Close Air Support System</p>	6.049	-	-

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APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207423F: <i>Advanced Communications Systems</i>	PROJECT 674934: <i>Tactical Air Control Party (TACP)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2011	FY 2012
<p>Description: Close Air Support System (CASS) Software - Upgrade TACP digital communications mission software to enable machine-to-machine (MTM) interfaces between TACPs and multiple systems (e.g. CAS aircraft, Command and Control (C2) nodes, etc). Develop new capabilities to satisfy ORD requirements to improve battlefield Situational Awareness, increase targeting accuracy, reduce the kill chain, and improve data flow/information exchange and reduce fratricide.</p> <p>FY 2011 Accomplishments: Continued to develop new MTM interfaces to Small Diameter Bomb II and Joint Strike Fighter (F35). Developed new interfaces with Joint Air Ground Integration Cell, C2 nodes, and aircraft across the USAF, Joint, and Coalition environment as well as new capabilities to satisfy ORD requirements. This effort included contractor support, engineering support, test and evaluation. This effort also supported the Joint Digital Aided Close Air Support (DACAS) initiative to drive all major players in the Close CAS arena to a common standard.</p> <p>FY 2012 Plans: TACP RDT&E efforts have moved to PE 0207444F, Project 676013 effective FY2012.</p> <p>N/A</p>			
<p>Title: Joint Effects Targeting System</p> <p>Description: Joint Effects Targeting System (JETS) - An Army-led program to develop, integrate, and test an integrated CAS targeting system that is smaller, lighter, and more accurate than current systems. JETS consists of two sub-systems: the Target Location and Designation System (TLDS) that provides target acquisition, high-accuracy target location, and laser designation; and the Target Effects Coordination System (TECS) that provides connectivity to the digital C4I systems and aircraft. JETS will be incrementally developed where TLDS is Increment 1 and TECS is Increment 2.</p> <p>FY 2011 Accomplishments: AF funds continued development of a prototype TLDS system through the JETS program office. The primary TLDS capability requirements provided a reduction in hardware weight from similar systems, provided a highly accurate target location capability. This effort included contractor support, engineering support, and test and evaluation.</p> <p>FY 2012 Plans: TACP RDT&E efforts have moved to PE 0207444F, Project 676013 effective FY2012.</p> <p>N/A</p>		6.963	-
Accomplishments/Planned Programs Subtotals		13.599	-

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APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>				R-1 ITEM NOMENCLATURE PE 0207423F: <i>Advanced Communications Systems</i>			PROJECT 674934: <i>Tactical Air Control Party (TACP)</i>				

C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u> <u>Base</u>	<u>FY 2013</u> <u>OCO</u>	<u>FY 2013</u> <u>Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• OPAF, PE 0207423F, Advanced Comm...: N/A	107.233	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

D. Acquisition Strategy

TACP-M is executing an incremental development for the TACP CASS software. TACP CASS software systems engineering, design, integration, and fielding support is being provided under a cost plus fixed fee contract. TACP-M awarded a fixed price development contract (with options for production) for the Vehicular Communication System (VCS) in FY09 under full and open competition. In September 10 Air Combat Command (ACC) decided not to pursue a HMMWV based VCS due to vehicle suitability concerns. The VCS program was terminated in 2011 and the TACP-M program is proceeding to develop JCIDS documentation to support a replacement vehicular based program and other future TACP-M efforts. JETS is a joint interest development program managed by the Army.

E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Air Force		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207423F: <i>Advanced Communications Systems</i>	PROJECT 674934: <i>Tactical Air Control Party (TACP)</i>

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Air Force			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207423F: <i>Advanced Communications Systems</i>	PROJECT 674934: <i>Tactical Air Control Party (TACP)</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Vehicular Communications System	1	2011	1	2011
JCIDS Documentation	2	2011	4	2013
Software Development and Test - TACP-CASS v1.4.2	1	2011	1	2012
Software Development and Test- TACP-CASS v1.4.4	1	2011	3	2012
Joint Effects Targeting Systems - Development and Testing	1	2011	4	2013

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Air Force								DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0207423F: Advanced Communications Systems				PROJECT 675189: C2ISR JTRS Integration			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
675189: C2ISR JTRS Integration	38.881	43.964	-	-	-	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
A. Mission Description and Budget Item Justification											
Joint Tactical Radio System (JTRS) is the Department of Defense (DoD) family of interoperable, modular, software-defined radios that will form the foundation of radio frequency information transmission for Joint Vision 2020. Joint Tactical Radio Systems (JTRS) will link the power of the Global Information Grid (GIG) to the warfighter in applying fire effects and achieving overall battlefield superiority. By developing and implementing an open architecture of cutting-edge radio waveform technology, multiple radio types (e.g., handheld, ground-mobile, airborne, maritime, etc.) are now capable of communicating with one another. JTRS radios are intended to interoperate with existing radio systems and improve Joint warfighting through a series of new, joint networking waveforms enabling communication via voice, data, and video over mobile, ad-hoc, internet protocol (IP) based networks. Each radio will operate as a node in the network to ensure secure wireless communication and networking services for airborne, mobile and fixed forces. These goals extend to U.S. allies, joint and coalition partners, and, in time, disaster response personnel. JTRS will make the Air Force more effective in Joint warfighting through a series of new, joint networking waveforms. These waveforms included the Mobile User Objective System (MUOS), which provides next generation SATCOM beyond-line-of-sight (BLOS)communications, as well as the Wideband Networking Waveform (WNW) and the Soldier Radio Waveform(SRW) which provide interoperability with Army ground forces from the brigade level down to the dismounted soldier. Together these waveforms enable Joint Close Air Support (JCAS), Combat Search and Rescue (CSAR) and other Joint missions. The JTRS program is built around an open Software Communications Architecture (SCA), allowing common software waveform applications to be implemented across the family of radios to provide joint-service, allied, and coalition interoperability. The Enterprise Business Model, incorporating a common set of shared open system standards, promotes competition and reduces procurement costs for the DoD.											
B. Accomplishments/Planned Programs (\$ in Millions)								FY 2011	FY 2012	FY 2013	
Title: Systems Engineering and integration								7.140	17.583	-	
Description: Systems engineering and integration to develop and certify solutions to Air Force unique requirements for the integration of JTRS compliant radios into Air Force platforms.											
FY 2011 Accomplishments: Funded development and certification of Air Force unique requirements for JTRS compliant terminals. Funded development and risk reduction efforts for a common integration solution for integration of terminals onto Air Force platforms.											
FY 2012 Plans: Funding hardware and software development of a common integration solution for the integration of JTRS compliant terminals onto a variety of Air Force platforms. Also funding risk reductions activities and the development of integration solutions to meet the unique requirements of each host platform.											
Title: Platform Planning and Integration								23.180	16.723	-	

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B. Accomplishments/Planned Programs (\$ in Millions)										FY 2011	FY 2012	FY 2013
Description: Platform planning and integration support												
FY 2011 Accomplishments: Funded non-recurring engineering (NRE) for integration of JTRS Multi Functional Information Distribution System (MIDS) terminal on the JSTARS aircraft. Funded integration efforts to support IP networking and data communication.												
FY 2012 Plans: Continuing to fund non-recurring engineering (NRE) for integration of JTRS Multi Functional Information Distribution System (MIDS) terminal on the JSTARS aircraft. Continuing to fund integration efforts to support IP networking and data communication.												
Title: Test and Evaluation										8.561	9.658	-
Description: Interoperability testing and evaluation to perform risk reduction to ensure successful platform integration.												
FY 2011 Accomplishments: Funded Engineering Design Models (EDMs) to perform interoperability testing, evaluation, and risk reduction to ensure successful integration on various platforms. Extensive evaluations and reporting accomplished.												
FY 2012 Plans: Continuing interoperability testing and evaluation to perform risk reduction to ensure successful platform integration.												
Accomplishments/Planned Programs Subtotals										38.881	43.964	-
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost	
• APAF, PE 0207423F, Advanced Comm...: Advanced Communication	8.275	58.542	11.639	0.000	11.639	5.790	4.605	0.000	0.000	Continuing	Continuing	
• OPAF, PE 0207423F, Advanced Comm...: Advanced Communication	31.518	38.567	56.229	0.000	56.229	68.756	32.837	26.161	25.597	Continuing	Continuing	
D. Acquisition Strategy												
In 2005, the DoD established the Joint Program Executive Office (JPEO) for JTRS. The JPEO has full directive authority for all JTRS research, development, testing, and evaluation of waveforms, radios, common ancillaries, network management, and associated software. The JPEO is funded jointly by the Services in PE 0604280N.												

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<p>Air Force JTRS Program Office will perform system engineering integration, to deliver an interoperable, fully synchronized, deployable JTRS system under various contract awards. The program office will lead the development of common integration hardware and software that can be used across multiple Air Force platforms. The AF JTRS program office will also work with the JPEO, industry, and the platform program offices to develop integration solutions specific to each platform. This effort will assist various AF platform users in acquiring and integrating the next generation communications system, to include all key documentation (CONOPS, TTPs, ICDs, TRDs, etc.)</p> <p><u>E. Performance Metrics</u></p> <p>Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.</p>		

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Air Force		DATE: February 2012
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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Air Force			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207423F: <i>Advanced Communications Systems</i>	PROJECT 675189: <i>C2ISR JTRS Integration</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Systems Engineering	1	2011	2	2012
Platform Planning and Integration	1	2011	4	2012
Operational & Interoperability Test Planning	1	2011	3	2012