



Selected Acquisition Report (SAR)

RCS: DD-A&T(Q&A)823-385



Joint Tactical Radio System Handheld, Manpack, and Small Form Fit Radios (JTRS HMS)

As of FY 2016 President's Budget

Defense Acquisition Management
Information Retrieval
(DAMIR)

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Common Acronyms and Abbreviations for MDAP Programs

Acq O&M - Acquisition-Related Operations and Maintenance
ACAT - Acquisition Category
ADM - Acquisition Decision Memorandum
APB - Acquisition Program Baseline
APPN - Appropriation
APUC - Average Procurement Unit Cost
\$B - Billions of Dollars
BA - Budget Authority/Budget Activity
Blk - Block
BY - Base Year
CAPE - Cost Assessment and Program Evaluation
CARD - Cost Analysis Requirements Description
CDD - Capability Development Document
CLIN - Contract Line Item Number
CPD - Capability Production Document
CY - Calendar Year
DAB - Defense Acquisition Board
DAE - Defense Acquisition Executive
DAMIR - Defense Acquisition Management Information Retrieval
DoD - Department of Defense
DSN - Defense Switched Network
EMD - Engineering and Manufacturing Development
EVM - Earned Value Management
FOC - Full Operational Capability
FMS - Foreign Military Sales
FRP - Full Rate Production
FY - Fiscal Year
FYDP - Future Years Defense Program
ICE - Independent Cost Estimate
IOC - Initial Operational Capability
Inc - Increment
JROC - Joint Requirements Oversight Council
\$K - Thousands of Dollars
KPP - Key Performance Parameter
LRIP - Low Rate Initial Production
\$M - Millions of Dollars
MDA - Milestone Decision Authority
MDAP - Major Defense Acquisition Program
MILCON - Military Construction
N/A - Not Applicable
O&M - Operations and Maintenance
ORD - Operational Requirements Document
OSD - Office of the Secretary of Defense
O&S - Operating and Support
PAUC - Program Acquisition Unit Cost

PB - President's Budget
PE - Program Element
PEO - Program Executive Officer
PM - Program Manager
POE - Program Office Estimate
RDT&E - Research, Development, Test, and Evaluation
SAR - Selected Acquisition Report
SCP - Service Cost Position
TBD - To Be Determined
TY - Then Year
UCR - Unit Cost Reporting
U.S. - United States
USD(AT&L) - Under Secretary of Defense (Acquisition, Technology and Logistics)

Program Information

Program Name

Joint Tactical Radio System Handheld, Manpack, and Small Form Fit Radios (JTRS HMS)

DoD Component

Army

Joint Participants

US Navy; US Marine Corps; US Air Force

Army is the lead Acquisition Executive per memo dated July 11, 2012.

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References

SAR Baseline (Production Estimate)

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated October 20, 2011

Approved APB

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated October 20, 2011

Mission and Description

The Joint Tactical Radio System (JTRS) Handheld, Manpack, and Small Form Fit (HMS) program is a materiel solution meeting the requirements for a Software Communications Architecture (SCA) compliant hardware system hosting SCA-compliant Government purpose rights software waveforms (applications). HMS is an ACAT ID program that encompasses specific requirements to support the U.S. Army, Air Force, Navy, Marine Corps and Special Operations Command communication needs.

JTRS HMS provides voice and data communications to the tactical edge/most disadvantaged warfighter with an on the move, at the halt, and stationary Line of Sight / Beyond Line of Sight capability for both dismounted personnel and platforms. HMS radios are software reprogrammable, networkable, multi-mode system (of systems) capable of simultaneous voice, data and video communications.

HMS encompasses the Rifleman Radio, Manpack Radio, and Small Form Factor Radio. The Rifleman Radio is a secret and below capable radio and ports the Soldier Radio Waveform (SRW) waveform. The Manpack Radio is for use in classified environments and ports the following waveforms: SRW, Single Channel Ground to Air Radio System, Satellite Communications, and Mobile-User Objective System. The embedded Small Form Factor radios may be used for Unmanned Vehicles and other platform applications.

Executive Summary

JTRS HMS is structured as a single acquisition program. The program completed the EMD Phase and received Milestone C approval on June 17, 2011 with LRIP configured radios. HMS is currently executing an approved acquisition strategy (May 1, 2014) to procure modified non-developmental items (NDI) through two full and open competition contracts available to all potential industry partners. The first contract will procure an NDI AN/PRC-154A Rifleman Radio (RR) for use in a classified environment. The RR ports the Soldier Radio Waveform (SRW)-Army managed waveform. The second contract will procure an NDI AN/PRC-155 Manpack (MP) for use in a classified environment. Waveforms to be ported to HMS MP include: SRW, Single Channel Ground and Airborne Radio System (Army managed waveform), Satellite Communications (Army managed waveform), and Mobile-User Objective System (Navy managed waveform).

In the September 2014 SAR, JTRS HMS identified both a PAUC and an APUC increase over the Current Baseline Estimate of greater than 15%, signifying a Significant Nunn-McCurdy Breach. A Program Deviation Report was signed by PEO Command, Control, and Communications - Tactical on March 25, 2014 also identifying this breach. The program has since undergone extensive cost model analysis, revision, and procurement strategy updates working with Deputy Assistant Secretary of the Army for Cost and Economics and other agencies. The results from the updated cost model no longer reflect a Nunn-McCurdy Breach.

The delays in RR and MP FRP contracts are due to the delay in the release of the Request for Proposals (RFP). The JTRS HMS RR RFP was reviewed by the DAE in December 2014 and released to industry on January 5, 2015. The JTRS HMS MP RFP is expected to be released in the 3rd Quarter FY 2015.

As of December 31, 2014, the Government received delivery of 19,327 LRIP Rifleman Radios and 5,129 LRIP Manpack Radios.

There are no significant software-related issues with this program at this time.

Threshold Breaches

APB Breaches		Explanation of Breach
Schedule	<input checked="" type="checkbox"/>	Schedule breaches were previously reported in the September 2014 SAR. A schedule Program Deviation Report was submitted and a new APB is in development.
Performance	<input type="checkbox"/>	
Cost	RDT&E	Breaches to the procurement cost, PAUC, and APUC breaches were reported in the December 2013 SAR. The program has since undergone extensive cost model analysis, revision, and procurement strategy updates working with Deputy Assistant Secretary of the Army for Cost and Economics and other agencies. The results from the updated cost model no longer reflect a Nunn-McCurdy Breach.
	Procurement	
	MILCON	
	Acq O&M	
O&S Cost	<input type="checkbox"/>	
Unit Cost	PAUC	
	APUC	

Nunn-McCurdy Breaches

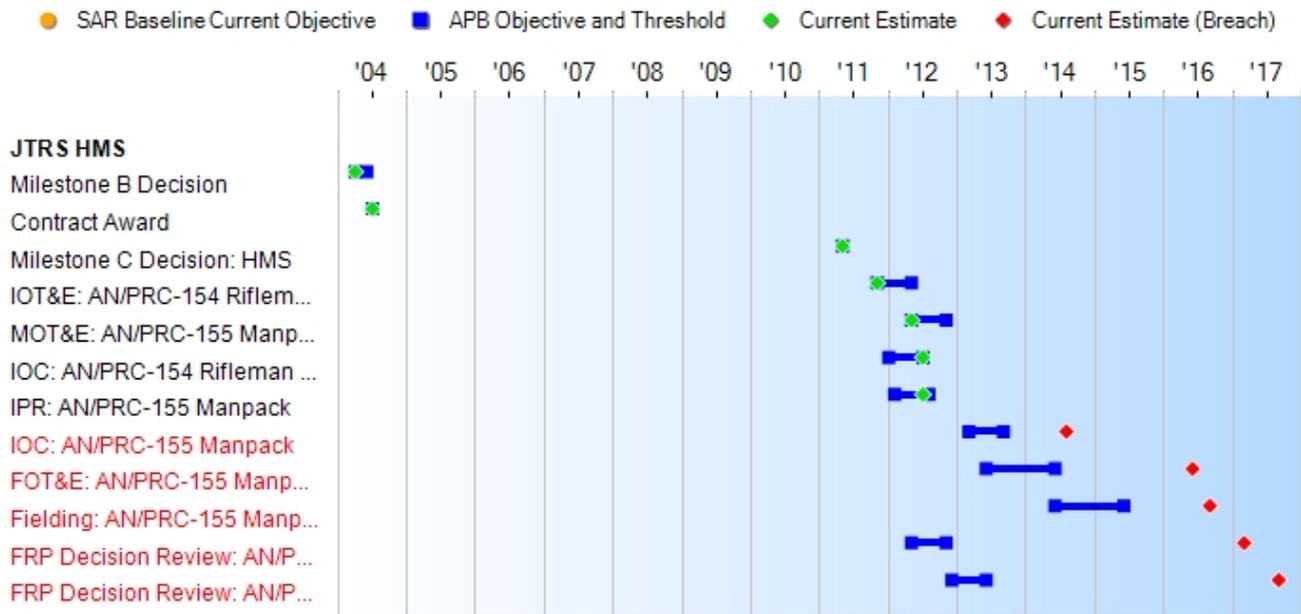
Current UCR Baseline

PAUC None
 APUC None

Original UCR Baseline

PAUC None
 APUC None

Schedule



Schedule Events				
Events	SAR Baseline Production Estimate	Current APB Production Objective/Threshold		Current Estimate
Milestone B Decision	Apr 2004	Apr 2004	Jun 2004	Apr 2004
Contract Award	Jul 2004	Jul 2004	Jul 2004	Jul 2004
Milestone C Decision: HMS	May 2011	May 2011	May 2011	May 2011
IOT&E: AN/PRC-154 Rifleman Radio	Nov 2011	Nov 2011	May 2012	Nov 2011
MOT&E: AN/PRC-155 Manpack	May 2012	May 2012	Nov 2012	May 2012
IOC: AN/PRC-154 Rifleman Radio	Jan 2012	Jan 2012	Jul 2012	Jul 2012
IPR: AN/PRC-155 Manpack	Feb 2012	Feb 2012	Aug 2012	Jul 2012
IOC: AN/PRC-155 Manpack	Mar 2013	Mar 2013	Sep 2013	Aug 2014¹
FOT&E: AN/PRC-155 Manpack with MUOS	Jun 2013	Jun 2013	Jun 2014	Jun 2016¹
Fielding: AN/PRC-155 Manpack with MUOS	Jun 2014	Jun 2014	Jun 2015	Sep 2016¹
FRP Decision Review: AN/PRC-154 Rifleman Radio	May 2012	May 2012	Nov 2012	Mar 2017¹ (Ch-1)
FRP Decision Review: AN/PRC-155 Manpack	Dec 2012	Dec 2012	Jun 2013	Sep 2017¹ (Ch-1)

¹ APB Breach

Change Explanations

(Ch-1) The current estimate for the FRP Review for the AN/PRC-154 Rifleman Radio (RR) changed from February 2017 to March 2017 and the current estimate for the FRP Review for the AN/PRC-155 Manpack (MP) changed from July 2017 to September 2017 due to delays in the release of the RR and MP contract requests for proposals.

Notes

An October 11, 2012 ADM directed the program to conduct a full-and-open competition that is open to all vendors and industry partners. This is a change to the original acquisition strategy and the program now requires additional time to conduct the full and open competition and achieve a FRP Decision. A Program Deviation Report was submitted for the schedule breaches and a new APB reflecting these new dates is in development.

Acronyms and Abbreviations

FOT&E - Follow-On Test and Evaluation
IOT&E - Initial Operational Test and Evaluation
IPR - In Progress Review
MOT&E - Multi-Service Operational Test and Evaluation
MUOS - Mobile User Objective System

Performance

Performance Characteristics				
SAR Baseline Production Estimate	Current APB Production Objective/Threshold		Demonstrated Performance	Current Estimate
Intra-Squad Communication: AN/PRC-154 Rifleman Radio				
Voice	Voice	Voice	Voice	Voice
Soldier Location: AN/PRC-154 Rifleman Radio				
Automatic PLI	Automatic PLI	Automatic PLI	Automatic PLI	Automatic PLI
Net Ready (NR) Capability: AN/PRC-154 Rifleman Radio				
The capability, system, and/or service must fully support execution of all operational activities and information exchanges identified in DoD Enterprise Architecture and solution architectures based on integrated DoDAF content, and must satisfy the technical requirements for transition to Net-Centric military operations to include 1) Solution architecture products compliant with DoD Enterprise Architecture based on integrated DoDAF content, including specified operationally effective information exchanges 2) Compliant with Net - Centric Data Strategy and Net-Centric Services Strategy, and the principles and rules identified in the DoD IEA, excepting tactical and non-IP communications 3) Compliant with GIG	The system must fully support execution of all operational activities identified in the applicable joint and system integrated architectures and the system must satisfy the technical requirements for Net-Centric military operations to include 1) DISR mandated GIG IT standards and profiles identified in the TV-1, 2) DISR mandated GIG KIPs identified in the KIP declaration table, 3) NCOW RM Enterprise Services 4) IA requirements including availability, integrity, authentication, confidentiality, and nonrepudiation, and issuance of an ATO by the DAA, and 5) Operationally effective information exchanges; and mission critical performance and IA attributes, data correctness, data availability, and consistent data processing specified	The system must fully support execution of joint critical operational activities identified in the applicable joint and system integrated architectures and the system must satisfy the technical requirements for transition to Net-Centric military operations to include 1) DISR mandated GIG IT standards and profiles identified in the TV-1, 2) DISR mandated GIG KIPs identified in the KIP declaration table, 3) NCOW RM Enterprise Services 4) IA requirements including availability, integrity, authentication, confidentiality, and nonrepudiation, and issuance of an IATO by the DAA, and 5) Operationally effective information exchanges; and mission critical performance and IA attributes, data correctness, data availability, and	Threshold demonstrated at NIE 15.1	The capability, system, and/or service must fully support execution of joint critical operational activities and information exchanges identified in the DoD Enterprise Architecture and solution architectures based on integrated DoDAF content, and must satisfy the technical requirements for transition to Net-Centric military operations to include: 1) Solution architecture products compliant with DoD Enterprise Architecture based on integrated DoDAF content, including specified operationally effective information exchanges 2) Compliant with Net-Centric Data Strategy and Net-Centric Services Strategy, and the principles and rules identified in the DoD IEA, except tactical and non-IP communications 3) Compliant with GIG Technical Guidance to include IT Standards identified in the TV-1 and implementation guidance of GESPs necessary to meet all operational

Technical Guidance to include IT Standards identified in the TV-1 and implementation guidance of GESPs, necessary to meet all operational requirements specified in the DoD Enterprise Architecture and solution architecture views 4) IA requirements including availability, integrity, authentication, confidentiality, and non-repudiation, and issuance of an ATO by the DAA, and 5) Supportability requirements to include SAASM, Spectrum and JTRS requirements	in the applicable joint and system integrated architecture views.	consistent data processing specified in the applicable joint and system integrated architecture views.		requirements specified in the DoD Enterprise Architecture and solution architecture views 4) IA requirements including availability, integrity, authentication, confidentiality, and non-repudiation, and issuance of an IATO or ATO by the DAA, and 5) Supportability requirements to include SAASM, Spectrum and JTRS requirements.
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Sustainment (Operational Availability (Ao)): AN/PRC-154 Rifleman Radio

0.99 (Channel)	0.99 (Channel)	0.96 (Channel)	0.999 (Channel)	0.999 (Channel)
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Voice and Data Communication: AN/PRC-155 Manpack

Must provide networked voice and data exchange to support timely tactical actions while dispersed across the battlefield.	Must provide networked voice and data exchange to support timely tactical actions while dispersed across the battlefield.	Must provide networked voice and data exchange to support timely tactical actions while dispersed across the battlefield.	MP demonstrated networked voice and data exchange (i.e., mission command information) supporting timely tactical actions while dispersed across the battlefield using gateways.	Must provide networked voice and data exchange to support timely tactical actions while dispersed across the battlefield.
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Net Ready (NR) Capability: AN/PRC-155 Manpack

The capability, system, and/or service must fully support execution of all operational activities and information exchanges identified in DoD Enterprise	The capability, system, and/or service must fully support execution of all operational activities and information exchanges identified in DoD Enterprise	The capability, system, and/or service must fully support execution of joint critical operational activities and information exchanges identified in DoD Enterprise	TBD	The capability, system, and/or service must fully support execution of joint critical operational activities and information exchanges identified in DoD Enterprise Architecture and solution architectures based on
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Architecture and solution architectures based on integrated DoDAF content, and must satisfy the technical requirements for transition to Net-Centric military operations to include 1) Solution architecture products compliant with DoD Enterprise Architecture based on integrated DoDAF content, including specified operationally effective information exchanges 2) Compliant with Net - Centric Data Strategy and Net-Centric Services Strategy, and the principles and rules identified in the DoD IEA, excepting tactical and non-IP communications 3) Compliant with GIG Technical Guidance to include IT Standards identified in the TV-1 and implementation guidance of GESPs, necessary to meet all operational requirements specified in the DoD Enterprise Architecture and solution architecture views 4) IA requirements including availability, integrity, authentication, confidentiality, and nonrepudiation, and issuance of an ATO by the DAA, and 5) Supportability requirements to include SAASM, Spectrum and JTRS requirements

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	requirements	requirements		
Sustainment (Operational Availability (Ao)): AN/PRC-155 Manpack				
0.99 (Channel)	0.99 (Channel)	0.96 (Channel)	0.86 (Channel)	0.97 (Channel)
Multi-Channel Operations: AN/PRC-155 Manpack				
To enable Warfighters to conduct combat missions across the battlefield, any channel of the MP must have ability to operate any of the waveforms listed as Objective in Table EE-2 of the CPD. The MP must also allow simultaneous operations using waveform combinations listed as Objective identified in Table EE-3.2 of the CPD. In addition the MP must have the ability to route and retransmit threshold waveforms listed as Objective in Table EE-4 of the CPD.	To enable Warfighters to conduct combat missions across the battlefield, any channel of the MP must have ability to operate any of the waveforms listed as Objective in Table EE-2 of the CPD. The MP must also allow simultaneous operations using waveform combinations listed in Table EE-3.2 of the CPD. In addition the MP must have the ability to route and retransmit threshold waveforms listed as Objective in Table EE-4 of the CPD.	To enable Warfighters to conduct combat missions across the battlefield, any channel of the MP must have ability to operate any of the waveforms listed as Thresholds in Table EE-2 of the CPD. The MP must also allow simultaneous operations using waveform combinations listed in Table EE-3 of the CPD. In addition the MP must have the ability to route and retransmit threshold waveforms listed in Table EE-4 of the CPD.	The radio enables Warfighters to conduct combat missions across the battlefield using the SRW, basic modes of SINCGARS and basic modes of UHF SATCOM. The MP has demonstrated simultaneous operations using combinations of these waveforms.	To enable Warfighters to conduct combat missions across the battlefield, any channel of the MP must have ability to operate any of the waveforms listed as Thresholds in Table EE-2 of the CPD. The MP must also allow simultaneous operations using waveform combinations identified in Table EE-3 of the CPD. In addition the MP must have the ability to route and retransmit threshold waveforms listed in Table EE-4 of the CPD.

Requirements Reference

Rifleman Radio Capability Production Document (CPD) dated March 7, 2011 and Manpack CPD dated May 10, 2012

Change Explanations

None

Notes

Hardware and software improvements were incorporated in the LRIP 2 version of MP radio (AN/PRC-155(V)2) to increase reliability. Government testing conducted April through May 2013 show improved reliability. Although the radio demonstrated significant reliability improvements, the MP was still not meeting the Key System Attribute reliability requirement for Mean Time Between Essential Functional Failure. Following the May test event, several actions were taken to address reliability issues during radio production. Those actions included implementing improvements such as extended environmental stress screening and resolving all open hardware and software deficiencies identified during testing. Additionally, MP LRIP went through Follow-on Test and Evaluation at NIE14.2 ending in March 2014 at which it showed improved reliability over previous tests. For the Rifleman Radio, an engineering change proposal was implemented to meet updated CPD requirements to protect secret and below data with National Security Agency approved encryption which provides a single form factor AN/PRC-154A radio for Nett Warrior and Rifleman Radio. The reliability of the AN/PRC-154A was successfully demonstrated at Nett Warrior IOT&E in November 2014.

Because of excessive Administrative Logistics Down Time, the Manpack Radio's tested Operational Availability at NIE 14.2 did not meet the threshold requirements.

Acronyms and Abbreviations

ATO - Approval to Operate
DAA - Designated Approval Authority
DISR - Department of Defense Information Technology Standards Registry
DoDAF - Department of Defense Architecture Framework
GESP - Global Information Grid Enterprise Service Profile
GIG - Global Information Grid
IA - Information Assurance
IATO - Interim Approval to Operate
IEA - Information Environment Architecture
IP - Internet Protocol
IT - Information Technology
KIP - Key Interface Profiles
MP - Manpack
NCOW RM - Net-Centric Operations and Warfare Reference Model
NIE - Network Integration Evaluation
NR - Net Ready
PLI - Position Location Information
SAASM - Selective Availability Anti-Spoofing Module
SATCOM - Satellite Communications
SINCGARS - Single Channel Ground and Airborne Radio System
SRW - Soldier Radio Waveform
TV - Technical View
UHF - Ultra High Frequency

Track to Budget

RDT&E

Appn	BA	PE		
Navy	1319	05	0604280N	
	Project		Name	
	3075		Joint Tactical Radio System (JTRS) / HMS JTRS	(Sunk)
Army	2040	05	0604280A	
	Project		Name	
	162		Joint Tactical Radio / Network Enterprise Domain (NED)	(Shared) (Sunk)
	DZ5		Joint Tactical Radio	
Army	2040	05	0604805A	
	Project		Name	
	615		JTRS - Ground Domain Integration	(Shared) (Sunk)
	61A		JTRS Cluster 5 Development	(Sunk)

Notes

JTRS HMS is associated with Program Executive Office Command, Control and Communications - Tactical under Project Manager Tactical Radios (PE 0604280A).

Procurement

Appn	BA	PE		
Navy	1109	04	0206313M	
	Line Item		Name	
	4633		Radio Systems	(Shared)
Navy	1810	02	0204163N	
	Line Item		Name	
	3057		Communication Items Under \$5M	(Shared)
Army	2035	02	0310700A	
	Line Item		Name	
	B90210		JTRS Cluster 5 (Handheld)	
	B90215		JTRS (Manpack)	(Shared)
Army	2035	03		
	Line Item		Name	
	R80501		Ground Soldier System	(Shared) (Sunk)
Air Force	3080	03	0207423F	
	Line Item		Name	
	837100		Tactical C-E Equipment	(Shared)

Cost and Funding

Cost Summary

Total Acquisition Cost							
Appropriation	BY 2011 \$M			BY 2011 \$M	TY \$M		
	SAR Baseline Production Estimate	Current APB Production Objective/Threshold		Current Estimate	SAR Baseline Production Estimate	Current APB Production Objective	Current Estimate
RDT&E	1254.7	1254.7	1380.2	1291.3	1238.5	1238.5	1300.8
Procurement	6987.9	6987.9	7686.7	7158.3	7962.5	7962.5	9185.9
Flyaway	--	--	--	5385.2	--	--	6935.3
Recurring	--	--	--	5244.7	--	--	6776.5
Non Recurring	--	--	--	140.5	--	--	158.8
Support	--	--	--	1773.1	--	--	2250.6
Other Support	--	--	--	1579.7	--	--	1999.8
Initial Spares	--	--	--	193.4	--	--	250.8
MILCON	0.0	0.0	--	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	--	0.0	0.0	0.0	0.0
Total	8242.6	8242.6	N/A	8449.6	9201.0	9201.0	10486.7

Confidence Level

Confidence Level of cost estimate for current APB: 50%

The Independent Cost Estimate (ICE) to support JTRS HMS Milestone C decision, like all lifecycle cost estimates previously performed by the Cost Assessment Program Evaluation (CAPE) office, is built upon a product-oriented work breakdown structure, based on historical actual cost information to the maximum extent possible, and, most importantly, based on conservative assumptions that are consistent with actual demonstrated contractor and government performance for a series of acquisition programs in which the Department has been successful.

It is difficult to calculate mathematically the precise confidence levels associated with life-cycle cost estimates prepared for Major Defense Acquisition Programs (MDAPs). Based on the rigor in methods used in building estimates, the strong adherence to the collection and use of historical cost information, and the review of applied assumptions, we project that it is about equally likely that the estimate will prove too low or too high for execution of the program described.

Total Quantity			
Quantity	SAR Baseline Production Estimate	Current APB Production	Current Estimate
RDT&E	582	582	833
Procurement	270369	270369	270369
Total	270951	270951	271202

Quantity Notes

Unit of measure is an HMS radio, which includes multiple variants (Rifleman Radio, Manpack, or various Small Form Fit).

Manpack (Army) 65,622:

Dismounted - 9,791

Mounted - 15,032

Dual Vehicle Mounted - 2,592

Dismounted with Mobile User Objective System (MUOS) - 16,286

Mounted with MUOS - 3,871

Dual Vehicle Mounted with MUOS - 18,050

Rifleman Radio (Army) - 193,279:

Dismounted - 155,647

Mounted (Soldier Radio Waveform Applique) - 37,632

Small Form Fit-B - 950

Small Form Fit-D - 3,076

Manpack (Other Services): 7,442

Dismounted - 148

Mounted - 260

Dismounted with MUOS - 3,209

Mounted with MUOS - 3,825

Cost and Funding

Funding Summary

Appropriation Summary									
FY 2016 President's Budget / December 2014 SAR (TY\$ M)									
Appropriation	Prior	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
RDT&E	1131.0	9.9	9.9	6.2	5.8	10.3	9.9	117.8	1300.8
Procurement	944.4	40.7	64.7	290.9	469.2	470.4	480.2	6425.4	9185.9
MILCON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PB 2016 Total	2075.4	50.6	74.6	297.1	475.0	480.7	490.1	6543.2	10486.7
PB 2015 Total	2185.9	184.0	380.6	375.2	385.6	478.5	501.1	7693.4	12184.3
Delta	-110.5	-133.4	-306.0	-78.1	89.4	2.2	-11.0	-1150.2	-1697.6

Quantity Summary										
FY 2016 President's Budget / December 2014 SAR (TY\$ M)										
Quantity	Undistributed	Prior	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Development	833	0	0	0	0	0	0	0	0	833
Production	0	26706	3	540	8134	12021	12336	13142	197487	270369
PB 2016 Total	833	26706	3	540	8134	12021	12336	13142	197487	271202
PB 2015 Total	833	40022	2828	5163	7696	7844	16711	6878	183227	271202
Delta	0	-13316	-2825	-4623	438	4177	-4375	6264	14260	0

Cost and Funding

Annual Funding By Appropriation

Annual Funding								
1319 RDT&E Research, Development, Test, and Evaluation, Navy								
Fiscal Year	Quantity	TY \$M						Total Program
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support		
2007	--	--	--	--	--	--	--	132.9
2008	--	--	--	--	--	--	--	150.6
2009	--	--	--	--	--	--	--	127.1
2010	--	--	--	--	--	--	--	178.3
2011	--	--	--	--	--	--	--	66.1
2012	--	--	--	--	--	--	--	117.2
2013	--	--	--	--	--	--	--	83.5
Subtotal	271	--	--	--	--	--	--	855.7

Annual Funding							
1319 RDT&E Research, Development, Test, and Evaluation, Navy							
Fiscal Year	Quantity	BY 2011 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2007	--	--	--	--	--	--	139.7
2008	--	--	--	--	--	--	155.5
2009	--	--	--	--	--	--	129.6
2010	--	--	--	--	--	--	179.1
2011	--	--	--	--	--	--	64.8
2012	--	--	--	--	--	--	113.0
2013	--	--	--	--	--	--	79.3
Subtotal	271	--	--	--	--	--	861.0

Annual Funding							
2040 RDT&E Research, Development, Test, and Evaluation, Army							
Fiscal Year	Quantity	TY \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2004	--	--	--	--	--	--	21.9
2005	--	--	--	--	--	--	96.1
2006	--	--	--	--	--	--	124.6
2007	--	--	--	--	--	--	--
2008	--	--	--	--	--	--	--
2009	--	--	--	--	--	--	--
2010	--	--	--	--	--	--	--
2011	--	--	--	--	--	--	0.8
2012	--	--	--	--	--	--	0.1
2013	--	--	--	--	--	--	--
2014	--	--	--	--	--	--	31.8
2015	--	--	--	--	--	--	9.9
2016	--	--	--	--	--	--	9.9
2017	--	--	--	--	--	--	6.2
2018	--	--	--	--	--	--	5.8
2019	--	--	--	--	--	--	10.3
2020	--	--	--	--	--	--	9.9
2021	--	--	--	--	--	--	21.9
2022	--	--	--	--	--	--	23.5
2023	--	--	--	--	--	--	2.4
2024	--	--	--	--	--	--	2.4
2025	--	--	--	--	--	--	3.7
2026	--	--	--	--	--	--	24.2
2027	--	--	--	--	--	--	25.9
2028	--	--	--	--	--	--	2.6
2029	--	--	--	--	--	--	2.7
2030	--	--	--	--	--	--	2.8
2031	--	--	--	--	--	--	2.8
2032	--	--	--	--	--	--	2.9
Subtotal	562	--	--	--	--	--	445.1

Annual Funding							
2040 RDT&E Research, Development, Test, and Evaluation, Army							
Fiscal Year	Quantity	BY 2011 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2004	--	--	--	--	--	--	24.9
2005	--	--	--	--	--	--	106.2
2006	--	--	--	--	--	--	133.9
2007	--	--	--	--	--	--	--
2008	--	--	--	--	--	--	--
2009	--	--	--	--	--	--	--
2010	--	--	--	--	--	--	--
2011	--	--	--	--	--	--	0.8
2012	--	--	--	--	--	--	0.1
2013	--	--	--	--	--	--	--
2014	--	--	--	--	--	--	29.5
2015	--	--	--	--	--	--	9.0
2016	--	--	--	--	--	--	8.9
2017	--	--	--	--	--	--	5.5
2018	--	--	--	--	--	--	5.0
2019	--	--	--	--	--	--	8.8
2020	--	--	--	--	--	--	8.3
2021	--	--	--	--	--	--	17.9
2022	--	--	--	--	--	--	18.8
2023	--	--	--	--	--	--	1.9
2024	--	--	--	--	--	--	1.8
2025	--	--	--	--	--	--	2.8
2026	--	--	--	--	--	--	17.9
2027	--	--	--	--	--	--	18.8
2028	--	--	--	--	--	--	1.9
2029	--	--	--	--	--	--	1.9
2030	--	--	--	--	--	--	1.9
2031	--	--	--	--	--	--	1.9
2032	--	--	--	--	--	--	1.9
Subtotal	562	--	--	--	--	--	430.3

Annual Funding								
1109 Procurement Procurement, Marine Corps								
Fiscal Year	Quantity	TY \$M						
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program	
2022	245	16.1	--	--	16.1	1.7	17.8	
2023	239	15.7	--	--	15.7	1.7	17.4	
2024	239	15.8	--	--	15.8	1.7	17.5	
2025	239	15.9	--	--	15.9	1.7	17.6	
2026	239	16.0	--	--	16.0	1.8	17.8	
2027	239	16.2	--	--	16.2	1.8	18.0	
2028	239	16.4	--	--	16.4	1.8	18.2	
2029	238	16.5	--	--	16.5	1.8	18.3	
2030	238	16.7	--	--	16.7	1.8	18.5	
2031	238	16.9	--	--	16.9	1.8	18.7	
Subtotal	2393	162.2	--	--	162.2	17.6	179.8	

Annual Funding								
1109 Procurement Procurement, Marine Corps								
Fiscal Year	Quantity	BY 2011 \$M						
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program	
2022	245	12.9	--	--	12.9	1.3	14.2	
2023	239	12.3	--	--	12.3	1.3	13.6	
2024	239	12.1	--	--	12.1	1.3	13.4	
2025	239	12.0	--	--	12.0	1.2	13.2	
2026	239	11.8	--	--	11.8	1.3	13.1	
2027	239	11.7	--	--	11.7	1.3	13.0	
2028	239	11.6	--	--	11.6	1.3	12.9	
2029	238	11.5	--	--	11.5	1.2	12.7	
2030	238	11.4	--	--	11.4	1.2	12.6	
2031	238	11.3	--	--	11.3	1.2	12.5	
Subtotal	2393	118.6	--	--	118.6	12.6	131.2	

Annual Funding 1810 Procurement Other Procurement, Navy								
Fiscal Year	Quantity	TY \$M						
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program	
2012	50	3.4	--	--	3.4	--	3.4	
2013	--	--	--	--	--	--	--	
2014	--	--	--	--	--	--	--	
2015	--	--	--	--	--	--	--	
2016	--	--	--	--	--	--	--	
2017	--	--	--	--	--	--	--	
2018	--	--	--	--	--	--	--	
2019	--	--	--	--	--	--	--	
2020	--	--	--	--	--	--	--	
2021	--	--	--	--	--	--	--	
2022	20	1.3	--	--	1.3	0.2	1.5	
2023	20	1.3	--	--	1.3	0.2	1.5	
2024	20	1.3	--	--	1.3	0.3	1.6	
2025	20	1.3	--	--	1.3	0.3	1.6	
2026	20	1.3	--	--	1.3	0.3	1.6	
2027	20	1.4	--	--	1.4	0.3	1.7	
2028	20	1.4	--	--	1.4	0.3	1.7	
2029	20	1.4	--	--	1.4	0.3	1.7	
2030	20	1.4	--	--	1.4	0.3	1.7	
2031	20	1.4	--	--	1.4	0.2	1.6	
Subtotal	250	16.9	--	--	16.9	2.7	19.6	

Annual Funding								
1810 Procurement Other Procurement, Navy								
Fiscal Year	Quantity	BY 2011 \$M						
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program	
2012	50	3.3	--	--	3.3	--	3.3	
2013	--	--	--	--	--	--	--	
2014	--	--	--	--	--	--	--	
2015	--	--	--	--	--	--	--	
2016	--	--	--	--	--	--	--	
2017	--	--	--	--	--	--	--	
2018	--	--	--	--	--	--	--	
2019	--	--	--	--	--	--	--	
2020	--	--	--	--	--	--	--	
2021	--	--	--	--	--	--	--	
2022	20	1.0	--	--	1.0	0.2	1.2	
2023	20	1.0	--	--	1.0	0.2	1.2	
2024	20	1.0	--	--	1.0	0.2	1.2	
2025	20	1.0	--	--	1.0	0.2	1.2	
2026	20	1.0	--	--	1.0	0.2	1.2	
2027	20	1.0	--	--	1.0	0.2	1.2	
2028	20	1.0	--	--	1.0	0.2	1.2	
2029	20	1.0	--	--	1.0	0.2	1.2	
2030	20	1.0	--	--	1.0	0.2	1.2	
2031	20	0.9	--	--	0.9	0.2	1.1	
Subtotal	250	13.2	--	--	13.2	2.0	15.2	

Annual Funding							
2035 Procurement Other Procurement, Army							
Fiscal Year	Quantity	TY \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2011	5297	33.3	--	6.9	40.2	0.1	40.3
2012	19858	357.6	--	6.0	363.6	85.3	448.9
2013	1500	148.3	--	0.2	148.5	56.3	204.8
2014	1	48.8	--	37.7	86.5	160.5	247.0
2015	3	14.0	--	7.6	21.6	19.1	40.7
2016	540	18.1	--	5.0	23.1	41.6	64.7
2017	8134	203.8	--	31.9	235.7	55.2	290.9
2018	12021	353.6	--	22.8	376.4	92.8	469.2
2019	12336	339.7	--	13.3	353.0	117.4	470.4
2020	13142	345.1	--	13.6	358.7	121.5	480.2
2021	15555	344.0	--	13.8	357.8	127.0	484.8
2022	16338	369.2	--	--	369.2	132.4	501.6
2023	16337	369.7	--	--	369.7	135.8	505.5
2024	15861	350.1	--	--	350.1	141.2	491.3
2025	15860	352.8	--	--	352.8	141.4	494.2
2026	15860	356.0	--	--	356.0	136.3	492.3
2027	15859	359.7	--	--	359.7	127.1	486.8
2028	15856	363.6	--	--	363.6	103.2	466.8
2029	15855	367.9	--	--	367.9	99.3	467.2
2030	15855	372.5	--	--	372.5	99.8	472.3
2031	15855	377.4	--	--	377.4	100.9	478.3
2032	15004	361.8	--	--	361.8	98.1	459.9
Subtotal	262927	6207.0	--	158.8	6365.8	2192.3	8558.1

Annual Funding 2035 Procurement Other Procurement, Army							
Fiscal Year	Quantity	BY 2011 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2011	5297	32.6	--	6.7	39.3	0.1	39.4
2012	19858	344.3	--	5.8	350.1	82.1	432.2
2013	1500	139.7	--	0.2	139.9	53.0	192.9
2014	1	45.1	--	34.8	79.9	148.3	228.2
2015	3	12.7	--	6.9	19.6	17.4	37.0
2016	540	16.2	--	4.5	20.7	37.4	58.1
2017	8134	179.4	--	28.1	207.5	48.6	256.1
2018	12021	305.2	--	19.7	324.9	80.1	405.0
2019	12336	287.4	--	11.3	298.7	99.3	398.0
2020	13142	286.3	--	11.3	297.6	100.8	398.4
2021	15555	279.8	--	11.2	291.0	103.3	394.3
2022	16338	294.4	--	--	294.4	105.6	400.0
2023	16337	289.0	--	--	289.0	106.2	395.2
2024	15861	268.3	--	--	268.3	108.2	376.5
2025	15860	265.1	--	--	265.1	106.2	371.3
2026	15860	262.2	--	--	262.2	100.4	362.6
2027	15859	259.8	--	--	259.8	91.8	351.6
2028	15856	257.4	--	--	257.4	73.1	330.5
2029	15855	255.4	--	--	255.4	68.9	324.3
2030	15855	253.5	--	--	253.5	67.9	321.4
2031	15855	251.8	--	--	251.8	67.3	319.1
2032	15004	236.7	--	--	236.7	64.1	300.8
Subtotal	262927	4822.3	--	140.5	4962.8	1730.1	6692.9

Annual Funding								
3080 Procurement Other Procurement, Air Force								
Fiscal Year	Quantity	TY \$M						
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program	
2022	481	37.5	--	--	37.5	3.7	41.2	
2023	481	37.7	--	--	37.7	3.7	41.4	
2024	480	37.9	--	--	37.9	3.8	41.7	
2025	480	38.3	--	--	38.3	3.8	42.1	
2026	480	38.7	--	--	38.7	3.9	42.6	
2027	480	39.1	--	--	39.1	4.0	43.1	
2028	480	39.6	--	--	39.6	4.1	43.7	
2029	480	40.1	--	--	40.1	4.1	44.2	
2030	479	40.5	--	--	40.5	4.2	44.7	
2031	478	41.0	--	--	41.0	2.7	43.7	
Subtotal	4799	390.4	--	--	390.4	38.0	428.4	

Annual Funding 3080 Procurement Other Procurement, Air Force							
Fiscal Year	Quantity	BY 2011 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2022	481	30.5	--	--	30.5	3.0	33.5
2023	481	30.1	--	--	30.1	2.9	33.0
2024	480	29.7	--	--	29.7	2.9	32.6
2025	480	29.4	--	--	29.4	2.9	32.3
2026	480	29.1	--	--	29.1	2.9	32.0
2027	480	28.8	--	--	28.8	3.0	31.8
2028	480	28.6	--	--	28.6	3.0	31.6
2029	480	28.4	--	--	28.4	2.9	31.3
2030	479	28.1	--	--	28.1	3.0	31.1
2031	478	27.9	--	--	27.9	1.9	29.8
Subtotal	4799	290.6	--	--	290.6	28.4	319.0

Low Rate Initial Production

Item	Initial LRIP Decision	Current Total LRIP
Approval Date	6/17/2011	12/12/2013
Approved Quantity	6350	24653
Reference	Milestone C ADM	LRIP ADM
Start Year	2011	2011
End Year	2012	2014

The Milestone C ADM signed on June 17, 2011 approved entry into Production and Deployment and authorized the Army to contract for an initial LRIP procurement of 6,250 Rifleman Radios (RR) (AN/PRC-154) and 100 Manpack (MP) radios (AN/PRC-155). The ADM directed the Services to fund to the Independent Cost Estimate position. A follow-on ADM signed July 11, 2012 approved the procurement of an additional LRIP of 13,077 RR. An October 11, 2012 ADM authorized an additional LRIP procurement of up to 3,726 MP. A December 12, 2013 ADM authorized LRIP procurement of an additional 1,500 MP.

Foreign Military Sales

Notes

There are no FMS for the JTRS HMS program at this time.

JTRS HMS Tactical Radio products are categorized as "Major Defense Equipment" under the International Traffic in Arms Regulations. Export of Significant Military Equipment such as JTRS HMS must be approved by U.S. Department of State when embedded with Type 1 encryption. Coalition partners may purchase JTRS HMS tactical radios via FMS or possibly Direct Commercial Sales after the JTRS HMS radios successfully complete operational test and satisfy all certification requirements. In all cases, export of JTRS HMS products is subject to the following considerations: a previous export for a legacy capability does not constitute automatic approval for that legacy capability instantiated; due to embedded Type 1 encryption, all requests for sales will be adjudicated on a case-by-case basis and approved by the National Security Agency (NSA); tactical radios with waveforms installed must be certified by NSA; tactical radio waveforms, as individual products, are not authorized for sale or export.

Nuclear Costs

None

Unit Cost

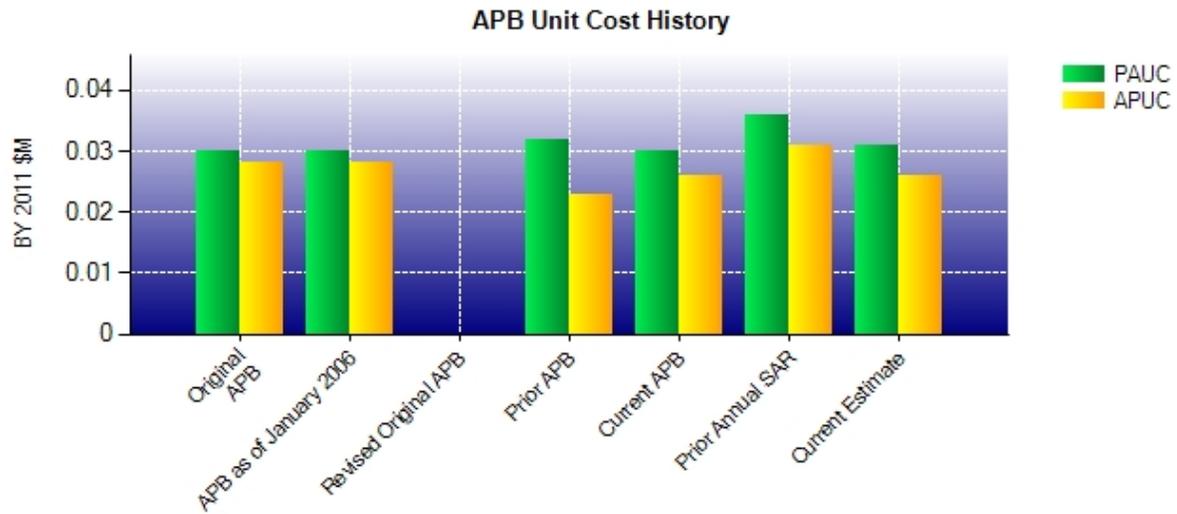
Unit Cost Report

Item	BY 2011 \$M	BY 2011 \$M	% Change
	Current UCR Baseline (Oct 2011 APB)	Current Estimate (Dec 2014 SAR)	
Program Acquisition Unit Cost			
Cost	8242.6	8449.6	
Quantity	270951	271202	
Item	0.030	0.031	+3.33
Average Procurement Unit Cost			
Cost	6987.9	7158.3	
Quantity	270369	270369	
Unit Cost	0.026	0.026	0.00

Item	BY 2011 \$M	BY 2011 \$M	% Change
	Original UCR Baseline (May 2004 APB)	Current Estimate (Dec 2014 SAR)	
Program Acquisition Unit Cost			
Cost	9889.2	8449.6	
Quantity	329574	271202	
Unit Cost	0.030	0.031	+3.33
Average Procurement Unit Cost			
Cost	9352.6	7158.3	
Quantity	328514	270369	
Unit Cost	0.028	0.026	-7.14

In the September 2014 SAR, JTRS HMS identified both a PAUC and an APUC increase over the Current Baseline Estimate of greater than 15%, signifying a Significant Nunn-McCurdy Breach. A Program Deviation Report was signed by PEO Command, Control, and Communications - Tactical on March 25, 2014 also identifying this breach. The program has since undergone extensive cost model analysis, revision, and procurement strategy updates working with Deputy Assistant Secretary of the Army for Cost and Economics and other agencies. The results from the updated cost model no longer reflect a Nunn-McCurdy Breach.

Unit Cost History



Item	Date	BY 2011 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
Original APB	May 2004	0.030	0.028	0.033	0.031
APB as of January 2006	May 2004	0.030	0.028	0.033	0.031
Revised Original APB	N/A	N/A	N/A	N/A	N/A
Prior APB	Jan 2008	0.032	0.023	0.036	0.027
Current APB	Oct 2011	0.030	0.026	0.034	0.029
Prior Annual SAR	Dec 2013	0.036	0.031	0.045	0.040
Current Estimate	Dec 2014	0.031	0.026	0.039	0.034

SAR Unit Cost History

Initial SAR Baseline to Current SAR Baseline (TY \$M)									
Initial PAUC Development Estimate	Changes								PAUC Production Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.033	0.002	0.012	0.003	0.000	-0.018	0.000	0.002	0.001	0.034

Current SAR Baseline to Current Estimate (TY \$M)									
PAUC Production Estimate	Changes								PAUC Current Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.034	0.000	0.000	0.004	0.000	0.000	0.000	0.001	0.005	0.039

Initial SAR Baseline to Current SAR Baseline (TY \$M)									
Initial APUC Development Estimate	Changes								APUC Production Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.031	0.002	0.013	0.003	0.000	-0.022	0.000	0.002	-0.002	0.029

Current SAR Baseline to Current Estimate (TY \$M)									
APUC Production Estimate	Changes								APUC Current Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.029	0.000	0.000	0.003	0.000	0.000	0.000	0.001	0.004	0.034

SAR Baseline History				
Item	SAR Planning Estimate	SAR Development Estimate	SAR Production Estimate	Current Estimate
Milestone A	N/A	N/A	N/A	N/A
Milestone B	N/A	Apr 2004	Apr 2004	Apr 2004
Milestone C	N/A	Mar 2008	May 2011	May 2011
IOC	N/A	Feb 2007	Jan 2012	Jul 2012
Total Cost (TY \$M)	N/A	10717.0	9201.0	10486.7
Total Quantity	N/A	328674	270951	271202
PAUC	N/A	0.033	0.034	0.039

Cost Variance

Summary TY \$M				
Item	RDT&E	Procurement	MILCON	Total
SAR Baseline (Production Estimate)	1238.5	7962.5	--	9201.0
Previous Changes				
Economic	-0.2	+201.8	--	+201.6
Quantity	--	--	--	--
Schedule	--	+716.4	--	+716.4
Engineering	--	--	--	--
Estimating	+89.9	+1422.2	--	+1512.1
Other	--	--	--	--
Support	--	+553.2	--	+553.2
Subtotal	+89.7	+2893.6	--	+2983.3
Current Changes				
Economic	-3.3	-130.1	--	-133.4
Quantity	--	--	--	--
Schedule	--	+134.3	--	+134.3
Engineering	--	--	--	--
Estimating	-24.1	-1392.2	--	-1416.3
Other	--	--	--	--
Support	--	-282.2	--	-282.2
Subtotal	-27.4	-1670.2	--	-1697.6
Adjustments	--	--	--	--
Total Changes	+62.3	+1223.4	--	+1285.7
CE - Cost Variance	1300.8	9185.9	--	10486.7
CE - Cost & Funding	1300.8	9185.9	--	10486.7

Summary BY 2011 \$M				
Item	RDT&E	Procurement	MILCON	Total
SAR Baseline (Production Estimate)	1254.7	6987.9	--	8242.6
Previous Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	+52.7	+1110.1	--	+1162.8
Other	--	--	--	--
Support	--	+311.4	--	+311.4
Subtotal	+52.7	+1421.5	--	+1474.2
Current Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	-16.1	-1006.5	--	-1022.6
Other	--	--	--	--
Support	--	-244.6	--	-244.6
Subtotal	-16.1	-1251.1	--	-1267.2
Adjustments	--	--	--	--
Total Changes	+36.6	+170.4	--	+207.0
CE - Cost Variance	1291.3	7158.3	--	8449.6
CE - Cost & Funding	1291.3	7158.3	--	8449.6

Previous Estimate: September 2014

RDT&E	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-3.3
Revised estimate to reflect an update to testing requirements as a result of Full and Open Competition cycles (Army). (Estimating)	-16.3	-24.3
Adjustment for current and prior escalation. (Estimating)	+0.2	+0.2
RDT&E Subtotal	-16.1	-27.4

Procurement	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-130.1
Stretch out of procurement buy profile from FY 2030 to FY 2031 (Marine Corps). (Schedule)	0.0	+2.6
Stretch out of procurement buy profile from FY 2030 to FY 2031 (Navy). (Schedule)	0.0	+0.3
Stretch out of procurement buy profile allocating additional quantities from FYDP to future years (Army). (Schedule)	0.0	+127.5
Stretch out of procurement buy profile from FY 2030 to FY 2031 (Air Force). (Schedule)	0.0	+3.9
Revised estimate due to an update to the Recurring Manufacturing methodology to reflect current programmatic and fielding plans (Marine Corps). (Estimating)	-33.3	-41.9
Revised estimate due to an update to the Recurring Manufacturing methodology to reflect current programmatic and fielding plans (Navy). (Estimating)	-3.2	-3.7
Revised estimate due to an update to the Recurring Manufacturing methodology to reflect current programmatic and fielding plans (Army). (Estimating)	-800.7	-1127.9
Revised estimate due to an update to the Recurring Manufacturing methodology to reflect current programmatic and fielding plans (Air Force). (Estimating)	-171.4	-221.1
Adjustment for current and prior escalation. (Estimating)	+2.1	+2.4
Adjustment for current and prior escalation. (Support)	+1.3	+1.2
Decrease of Initial Spare costs to reflect LRIP actuals and current programmatic plans (Army). (Support)	-41.6	-51.6
Decrease of Initial Spare costs to reflect LRIP actuals and current programmatic plans (Air Force). (Support)	-6.2	-8.4
Decrease of Initial Spare costs to reflect LRIP actuals and current programmatic plans (Navy). (Support)	-1.3	-1.6
Decrease of Other Support costs to reflect current programmatic and fielding plans (Marine Corps). (Support)	-2.0	-2.0
Decrease of Other Support costs to reflect current programmatic and fielding plans (Army). (Support)	-186.0	-208.8
Decrease of Other Support costs to reflect current programmatic and fielding plans (Air Force). (Support)	-9.0	-11.2
Increase of Other Support costs to reflect current programmatic and fielding plans (Navy). (Support)	+0.2	+0.2
Procurement Subtotal	-1251.1	-1670.2

Contracts

Contract Identification

Appropriation: Procurement
Contract Name: Procurement
Contractor: General Dynamics C4 Systems, Inc.
Contractor Location: 8201 East McDowell Road
 Scottsdale, AZ 85257
Contract Number: W15P7T-04-C-E405/1
Contract Type: Firm Fixed Price (FFP)
Award Date: June 17, 2011
Definitization Date: June 28, 2011

Contract Price							
Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
56.5	N/A	6350	532.6	N/A	26705	532.6	532.6

Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to additional LRIP contract options exercised for Rifleman Radio and Manpack Radio LRIP2/LRIP2A.

Cost and Schedule Variance Explanations

Cost and Schedule Variance reporting is not required on this (FFP) contract.

Notes

This contract is more than 90% complete; therefore, this is the final report for this contract.

Deliveries and Expenditures

Deliveries				
Delivered to Date	Planned to Date	Actual to Date	Total Quantity	Percent Delivered
Development	833	833	833	100.00%
Production	26030	26508	270369	9.80%
Total Program Quantity Delivered	26863	27341	271202	10.08%

Expended and Appropriated (TY \$M)			
Total Acquisition Cost	10486.7	Years Appropriated	12
Expended to Date	1835.6	Percent Years Appropriated	41.38%
Percent Expended	17.50%	Appropriated to Date	2126.0
Total Funding Years	29	Percent Appropriated	20.27%

The above data is current as of December 31, 2014.

As of December 31, 2014, the Government received 19,327 LRIP Rifleman Radios and 5,129 LRIP Manpack radios. In addition, the Government received all 2,052 LRIP SFF-B(v)1 Radios for Nett Warrior. Note: Nett Warrior Radios are not a part of the JTRS HMS Acquisition Decision Memorandum and are procured for Program Executive Office Soldier; however, they are a part of the Rifleman Radio Army Acquisition Objective. The total expended to date was reduced from the September 2014 SAR due to removal of funding that had not yet been executed.

Operating and Support Cost

Cost Estimate Details

Date of Estimate:	December 01, 2014
Source of Estimate:	POE
Quantity to Sustain:	266343
Unit of Measure:	Radio
Service Life per Unit:	20.00 Years
Fiscal Years in Service:	FY 2012 - FY 2052

Sustainment Life Breakdown:

Manpack Radio total quantity is 73,064, Sustainment Life is 20 years.
 Rifleman Radio total quantity is 193,279, Sustainment Life is 20 years.
 Total Quantity to be sustained is 266,343.

Small Form Fit-B/D are not included in this estimate because they are sustained by the host platform.

Sustainment Strategy

Rifleman Radio:

All LRIP radios procured under the current development contract were initially sustained by the prime contractor until expiration of the contract on February 28, 2015. A follow-on Cost Plus Fixed Fee (CPFF) sustainment contract is planned for award to the current vendor with one base year and one option year period of performance to maintain the software baseline, deliver updated logistics support documentation, deliver sustainment spares, provide Field Service Representative (FSR) support, and furnish technical support to address field/operational issues. Unserviceable radios will be returned to Tobyhanna Army Depot (TYAD) for inspection and testing. Field sustainment of LRIP radios and ancillary components will be accomplished through spares requisitions through the Standard Army Supply System (SASS).

All radios procured under FRP that become unserviceable will be turned-in to TYAD through the SASS. Radios will be returned to the original equipment manufacturer for warranty repair, or replacement, if the cost of warranty support is determined to be reasonable. Upon expiration of the warranty period, there is no current plan to perform depot-level repair of the radio. Final disposition of all unserviceable radios will be accomplished at TYAD. All FRP contracts will contain provisions to procure sustainment spares to replace unserviceable radios and ancillary items requisitioned through SASS, operations, maintenance, training documentation, and the ability to procure the software development environment and data to maintain the software baseline.

Manpack (MP):

The current development contract for LRIP radios includes fixed-price options for the manufacturing of production ready MP radios for operational test to establish an initial production base, development of logistics support documentation, and sustainment support. A separate CPFF sole source contract is planned for award to the current vendor to provide continued support of LRIP radios following the current development contract. Contractor repair of unserviceable LRIP radios is planned to transition to organic repair at TYAD upon the expiration of the MP radio LRIP sustainment contract.

For FRP, MP radios will be procured through a multiple award, Firm Fixed-Price, Indefinite Delivery/Indefinite Quantity contract. The contract provides for sustainment services, which includes: warranties, radio repairs, spares, delivery and update of training material, delivery and update of technical manuals/bulletins, training, FSR support, and the

management and updates to the software and hardware baselines.

Antecedent Information

No Antecedent. By the nature of the waveforms used, Soldier Radio Waveform, in current JTRS HMS products and the tactical implementation of where the waveforms are found in the formations, there are no analogous current or legacy radios to the Manpack AN/PRC-155 or the Rifleman Radio AN/PRC-154A.

Annual O&S Costs BY2011 \$K			
Cost Element	JTRS HMS Average Annual Cost Per Radio	No Antecedent (Antecedent) N/A	
Unit-Level Manpower	0.000		0.000
Unit Operations	0.000		0.000
Maintenance	1.881		0.000
Sustaining Support	0.042		0.000
Continuing System Improvements	0.082		0.000
Indirect Support	0.000		0.000
Other	0.000		0.000
Total	2.005		--

Item	Total O&S Cost \$M			
	JTRS HMS			No Antecedent (Antecedent)
	Current Production APB Objective/Threshold	Current Estimate		
Base Year	14710.4	16181.4	10683.0	N/A
Then Year	20019.2	N/A	17738.5	N/A

Equation to Translate Annual Cost to Total Cost

The Total O&S cost is the Average Annual Cost (2.005) x Total Number of Radios (266,343) x 20-year sustainment life / 1000. Unitized Cost may differ from total O&S costs due to rounding and does not include sustainment costs associated with Small Form Fit B and Small Form Fit D.

O&S Cost Variance		
Category	BY 2011 \$M	Change Explanations
Prior SAR Total O&S Estimates - Sep 2014 SAR	15917.4	
Programmatic/Planning Factors	-5234.4	Revised estimate due to an update to reflect current programmatic and fielding plans.
Cost Estimating Methodology	0.0	
Cost Data Update	0.0	
Labor Rate	0.0	
Energy Rate	0.0	
Technical Input	0.0	

Other	0.0
Total Changes	-5234.4
Current Estimate	10683.0

Disposal Estimate Details

Date of Estimate: December 01, 2014
Source of Estimate: POE
Disposal/Demilitarization Total Cost (BY 2011 \$M): Total costs for disposal of all Radio are 1175.1