

Business Case: Capital Asset Summary

Part I: Summary Information and Justification (All Capital Assets)

Section A: Overview & General Information

Date Investment First Submitted: 2009-06-30
Date of Last Change to Activities: 2017-12-29
Investment Auto Submission Date:
Date of Last Investment Detail Update: 2018-01-30
Date of Last Business Case Update: 2018-01-30
Date of Last Revision: 2018-01-10

Agency: 024 - Department of Homeland Security **Bureau:** 60 - United States Coast Guard

- 1. Name of this Investment:** USCG - Rescue 21
- 2. Unique Investment Identifier (UII):** 024-000006079

Section B: Investment Detail

- 1. Briefly describe the investment's purpose, goals, and current or anticipated benefits (quantitative and/or qualitative). Include the investment's specific contribution to mission delivery or agency management support functions and identify key customers, stakeholders, and other beneficiaries.**

Command, Control & Communications system that improves mission execution in coastal zone. Essential to meet Search & Rescue program goals. Results improved response to distress calls & better coordination & interoperability with OGAs & first responders.

- 2. Briefly describe the investment's return on investment, including benefits internal and external to the government and outcomes achieved or planned.**

The R21 Return on Investment (ROI) was determined by a Cost Analysis dtd March 2005; the cost analysis demonstrated a ROI of 3.05 and a payback period of 13 years. In determining the ROI, the R21 Key Decision Point (KDP) 1 was completed in Jul 1995 and authorized entry into the program's Concept and Technology Demonstration phase under the authority of DOT. In Aug 1999, KDP2 authorized the program to proceed into the Capability Development and Demonstration phase. In Aug 2001, the Coast Guard awarded three R21 Phase I contracts to competing contractors to develop proposed system designs. The Phase I proposals were reviewed in late 2001 and the Phase II production contract RFP was issued in Feb 2002. Following a formal source selection process, the USCG's Source Selection Official (SSO) awarded the R21 Phase II production contract to General Dynamics C4 Systems in Sep 2002. In Jul 2005, DHS authorized the R21 program to proceed into the Production and Deployment phase and full rate production subsequently commenced in Sep 2005. Internal Benefits: R21 is used to tailor CG response (including coordinating with local first responders and federal coordinators), significantly reducing response time to mariners in distress. The R21

system enhances the CG's ability to detect & respond to distress calls in the coastal zone, which directly benefits the U.S. public's marine safety & saves lives. Benefits also include system disaster recovery capabilities that have supported coordination in numerous federal regional response and remediation efforts by providing a critical communication backbone in the disaster regions. For example, the R21 system provided a communication system that supported efforts to re-open ports in NY and NJ after hurricane Sandy. External Benefits of the R21 system: Provides capabilities to help ensure the successful outcome of Search and Rescue (SAR) missions. By May 2017, R21 has been used in more than 94,730 SAR cases. Advanced DF which more accurately identifies the location of callers with lines of bearing to the VHF radio transmission source which reduces response time & search area; Continuous, enhanced VHF-FM marine radio coverage out to 20 nautical miles from shore; improved ability to identify suspected hoax calls; Increases the number of voice channels; Digital voice recording w/ immediate playback; Timely flow of info between CG & other stakeholders. The R21 investment is slated to reach the breakeven point in 2018.

3. **Provide specific requirements for this Investment (i.e. legislative mandates, outstanding audit findings or material weakness, Presidential Directive) and how this Investment will meet the requirement. Additionally, provide any applicable URLs to associated requirements.**

MTSA of 2002 (Pub L 107-295) Section 346: The R21 investment is derived from the Maritime Transportation Security ACT (MTSA) of 2002(Pub. L. 107-295) Section 346. R21 is a DHS Level 1 Command, Control, & Communications (C3) system capital investment that replaced the CGs antiquated legacy National Distress and Response Systems (NDRS) and greatly enhances the CGs ability to execute missions in the coastal zone and is essential to meet the Service's search and rescue mission-program performance goals. Federal Information Security Management Act (FISMA): R21 is FISMA compliant and has programs planned or in progress to maintain the confidentiality, integrity & availability of the information system. FISMA driven programs include an operating system upgrade, VSAT/4G wide area network redundancy and ongoing obsolescence management.

4. **Identify the foremost program supported by this investment, using the Program Code in the [Federal Program Inventory Reference Table](#) (bottom of list on the right side of the screen). If this investment does not primarily support a single program (e.g. provides Department-wide infrastructure, or supports multiple programs evenly), enter "No Primary Program." [XXX-XXX or "000-000" for "No Primary Program"]**

024-036 : Maritime Response

5. **Does this investment include a shared service (intra-or inter-agency—current and/or planned):**

YES

6. **Are all systems PIV-enabled systems (per HSPD-12 [OMB memo M-11-11](#)):**
YES
7. **Provide any public facing URLs associated with this investment, including APIs (if applicable).**
8. **Provide the name of the Investment-level project manager:**
CDR Lamont Bazemore
9. **Select the qualification/experience level of the Investment-level project manager (select one):**
1 - FAC-P/PM(DAWIA-3)- Senior

Section C: Life Cycle Costs

1. Provide the total estimated life cycle costs for the investment in millions. Note: Do not enter information in the grey cells as these will be calculated.

Table I.C.1 Life Cycle Costs		
	PY-1 & Prior	PY 2017
Planning Costs:	\$754.317000	0
DME (Excluding Planning) Costs:	\$65.000000	0
DME (Including Planning) Govt. FTEs:	0	0
Sub-Total DME (including Internal Labor (Govt. FTE)):	\$819.317000	0
O & M Costs:	\$582.728000	\$90.981000
O & M Internal Labor (Govt. FTE):	0	0
Sub-Total O & M Costs (Including Internal Labor (Govt. FTE)):	\$582.728000	\$90.981000
Total Cost (Including Internal Labor (Govt. FTE)):	\$1,402.045000	\$90.981000
Total Cost Internal Labor (Govt. FTE) costs:	0	0
# of FTE rep by costs:	0	0
Total change from prior year final President's Budget (\$)		0
Total change from prior year final President's Budget (%)		0.00%

Section D: Acquisition/Contract Strategy

1. Provide all awarded prime contracts (or task orders) for the investment (sub-award details are not required). Planned contracts/procurements in pre-award are not to be included. Completed contracts do not need to be included. Data definitions can be found at https://www.fpds.gov/fpdsng_cms/index.php/en/worksite.html.

Table I.D.1 Existing Contracts						
Procurement Instrument Identifier (PIID)	Referenced PIID	Modular Approaches / Contracting	Agile Development	Purpose of needing this procurement	IT Lease:	Information Security Clause
HSCG2313JAAK060	HSSS0112D0006	N	N	Procurement of DSC radios and consoles equipment and installation services to a limited number of sites.	Other	N
HSCG23-15-J-ANS051	HSCG2312DATB015	N	N	Project support contract	Other	N
HSCG23-12-J-AAK146	HSSS0112D0002	N	N	Mission Support for R21 Pro Alaska: Purchase and Installation of the Rescue 21 Alaska Remote Radio Control SYSTEM.	Other	N
HSCG2313JANS008	HSSS0112D0005	N	N	Material & Install buys for Western Rivers Deployment	Other	N
HSCG23-11-C-ANS104	HSCG2311CANS104	N	N	System support and maintenance to General Dynamics through August 24, 2016	Other	N
HSCG23-15-J-ANS015	HSSS0112D0006	N	N	Rescue 21 Alaska Phase II Remote Fixed Facility Upgrades.	Other	N
HSCG23-16-J-ANS004	HSSS0112D0002	N	N	The desired solution for the Echo Mitigation Contract will successfully mitigate echo effect when transmitting and	Other	N

Table I.D.1 Existing Contracts

Procurement Instrument Identifier (PIID)	Referenced PIID	Modular Approaches / Contracting	Agile Development	Purpose of needing this procurement	IT Lease:	Information Security Clause
				receiving without causing any other degradation of performance or radio communications quality in the existing system. In addition, the desired solution will consider operational and support constraints by minimizing the need for service disruptions and/or travel in order to complete maintenance and adjustments.		
HSCG23-15-C-ANS020	HSCG2315CANS020	N	N	The System Upgrade Agreement (SUA) II services in support for the Rescue 21 Alaska Remote Radio Control System (RRCS). The contractor shall provide to the USCG SUA II services.	Other	N

Section E: Systems Inventory (Administrative Services and Support Systems only)

1. For Investments designated as Part 2 - Administrative Services and Support Systems in column 6 (by entering code “02”) of the IT Investment Portfolio Summary, provide a list of systems included in this Investment.

Table I.E.1 Administrative Services and Support Systems				
System Name	Initial Operating Year	Last Major Tech Refresh Date	End of Contracted Support	Average # of users per month

NONE

Business Case Detail: Performance Measurement Report

Section A1: General Information

1. **Name of this Investment:** USCG - RESCUE 21
2. **Unique Investment Identifier (UII):** 024-000006079

Section B1: Projects

1. If the Investment/program uses an automated tool for requirements gathering, tracking, planning, or management, identify the automated tool.

Table II.B.1 Project Plan and Execution Data

Unique Project ID	Project Name	Objectives/Expected Outcomes	Project Start Date	Project Completion Date	Project Lifecycle Cost (\$M)	SDLC Methodology	Production Release Every 6 Months?	Comment	Latest Production Deployment Date
1	Project Management	Contractor PM for CLINs 0001H, 0001, and 1001; Coast Guard Costs for Project Residence Offices in Scottsdale, AZ and Alaska; CG-9 Contribution; Travel, training, misc.; Costs for Support Contractors and MIPRs to SPAWAR & OGA	10/01/2010	12/31/2017	\$48.3	2 - Iterative: Incremental, Spiral, Agile	yes		

Table II.B.1 Project Plan and Execution Data

Unique Project ID	Project Name	Objectives/Expected Outcomes	Project Start Date	Project Completion Date	Project Lifecycle Cost (\$M)	SDLC Methodology	Production Release Every 6 Months?	Comment	Latest Production Deployment Date
		supporting Project activities.							
2	Engineering	Engineering efforts for Block Upgrade and HSI5; Contractor System Design Maintenance and Transition Support CLINS 00006, 00007 and 10006; NRE Operating System Upgrade and Active Directory, R21 OS Upgrade Retrofit (CLIN 0030).	08/01/2010	12/31/2015	\$31.0	2 - Iterative: Incremental, Spiral, Agile	yes		
3	System Support and Maintenance	The contractor provides all management, supervision, engineering services, personnel, labor, materials, and equipment required to support and maintain all fielded Rescue 21 Systems and Equipment. Effort includes: Project Management; System Support and Maintenance; Integrated Logistics Support; Sustainment Engineering;	10/01/2010	12/31/2016	\$130.9	2 - Iterative: Incremental, Spiral, Agile	yes		09/01/2016

Table II.B.1 Project Plan and Execution Data

Unique Project ID	Project Name	Objectives/Expected Outcomes	Project Start Date	Project Completion Date	Project Lifecycle Cost (\$M)	SDLC Methodology	Production Release Every 6 Months?	Comment	Latest Production Deployment Date
Software Engineering and Support.									
4	Rescue 21 Deployment	System Deployment work in remaining Sectors Key West, Miami, and Astoria, and Sections Carolinas, New England, Northern California, Southern California, Great Lakes, and Islands; Costs to establish and maintain circuits, network, and spectrum (AC&I).	08/19/2005	12/31/2015	\$258.0	2 - Iterative: Incremental, Spiral, Agile	yes		
6	R21 Western Rivers	Deploy R21 WR system to Sectors Upper Mississippi, Lower Mississippi, and Ohio River Valley.	07/04/2011	02/04/2018	\$9.1	2 - Iterative: Incremental, Spiral, Agile	yes		09/21/2016
7	R21 Alaska	Planning, Testing, and Deployment of Console and DSC system in Alaska.	10/01/2010	09/30/2017	\$9.5	2 - Iterative: Incremental, Spiral, Agile	yes		09/21/2016
8	Vessels	R21 contribution to deploy UHF capability to Small Boats and Vessels.	01/01/2012	12/31/2013	\$1.5	2 - Iterative: Incremental, Spiral, Agile	yes		

Section B2: Project Activities

1. Provide all non-agile project activities for projects in Table II.B.1 that started in a previous FY (PY and earlier) and that have not been completed by the beginning of the CY, as well as activities that are scheduled to start in the current FY and BY.

Table II.B.2.1 Project Activities (non-Agile)

Unique Project ID	Activity Name	Activity Description	Structure ID	Activity Type	Critical Path	Planned Start Date	Projected Start Date	Actual Start Date	Planned Completion Date	Projected Completion Date	Actual Completion Date	Planned Total Costs	Projected Total Costs	Actual Total Costs
3	FY15 Q4	Engineering Escalation -FY15 Q4	3.4008.3	13 - Production Release	yes	2015-07-01	2015-07-01	2015-07-01	2015-09-30	2015-09-30	2015-09-30	0.013000	0.013000	0.013000
3	FY16 Q1	Engineering Escalation -FY16 Q1	3.4008.4	13 - Production Release	yes	2015-10-01	2015-10-01	2015-10-01	2015-12-31	2015-12-31	2015-12-31	0.013000	0.013000	0.013000
7	Alaska Deploy DSC Option 2	Costs for Option Period 2	7.3.2	13 - Production Release	yes	2015-09-16	2015-09-16	2015-09-16	2016-09-15	2016-09-15	2016-09-15	0.125000	0.125000	0.125000
6	R21-WR FRP	Full Rate Production for Sector UMR	6.4	13 - Production Release	yes	2015-06-22	2015-06-22	2015-06-24	2017-09-30	2017-09-30	2017-09-30	3.228000	3.228000	3.228000
6	R21-WR FRP	Full Rate Production for Sector LMR	6.5	13 - Production Release	yes	2015-06-22	2015-06-22	2015-06-24	2017-09-30	2017-09-30	2017-09-30	1.974000	1.974000	1.974000
6	R21-WR FRP	Full Rate Production for Sector OV	6.6	13 - Production Release	yes	2015-06-22	2015-06-22	2015-06-24	2017-09-30	2017-09-30	2017-09-30	3.003000	3.003000	3.003000
7	Alaska Deploy DSC Option 3	Costs for Option Period 3	7.3.3	13 - Production Release	yes	2016-09-16	2016-09-16	2016-09-16	2017-09-30	2017-09-30		0.125000	0.125000	

2. Provide all agile project activities for projects in Table II.B.1 that started in a previous FY (PY and earlier) and that have not been completed by the beginning of the CY, as well as activities that are scheduled to start in the current FY and BY.

Table II.B.2.2 Project Activities (Agile)																		
Unique Project ID	Release Name	Release Number	Release Description	Planned Start Date	Project Start Date	Actual Start Date	Planned Completion Date	Project Completion Date	Actual Completion Date	Planned Total Costs	Project Total Costs	Actual Total Costs	NPI	NPE	NCE	NCI	DTC	DPC

NONE

Section C: Operational Data

1. Provide the results of the last Operational Analysis (for operational and mixed life cycle systems/Investments):

1. **Analysis Conclusion:** continue as is

2. Report a minimum of 5 metrics using the following table to provide metrics and actual results for each individual metric:

Table II.C.1A/B Performance Metrics and Actuals

Metric ID	Metric Description	Unit of Measure	Performance Measurement Category Mapping	Agency Baseline Capability	2017 Target	2018 Target	Measurement Condition	Reporting Frequency	Agency Strategic Objective / Agency Priority Goal	Is Metric Retired?
2051	Increase number of Search and Rescue Cases in which the Rescue 21 system was used using MISLE to count the number of SAR calls.	Number	1 - Customer Satisfaction (Process Results)		100000.000000	104000.000000	Over target	Monthly	46751 : Enhance Disaster Preparedness and Response	No

Metric ID	Actual Result ID	Actual Result	Date of Actual Result	Comment
2051	216899	99666.000000	12/31/2017	
2051	214967	99373.000000	11/30/2017	
2051	212136	98942.000000	10/31/2017	
2051	210780	98414.000000	09/30/2017	
2051	210779	97675.000000	08/31/2017	

Table II.C.1A/B Performance Metrics and Actuals

Metric ID	Metric Description	Unit of Measure	Performance Measurement Category Mapping	Agency Baseline Capability	2017 Target	2018 Target	Measurement Condition	Reporting Frequency	Agency Strategic Objective / Agency Priority Goal	Is Metric Retired?
					2051	203558	96798.000000	07/31/2017		
					2051	203546	95614.000000	06/30/2017		
					2051	203544	94730.000000	05/31/2017		
					2051	189724	93953.000000	04/30/2017		
					2051	186424	93339.000000	03/31/2017		
					2051	184772	92937.000000	02/28/2017		
					2051	182504	92594.000000	01/31/2017		
					2051	180492	92188.000000	12/31/2016		
					2051	178237	92032.000000	11/30/2016		
					2051	177400	91683.000000	10/31/2016		
					2051	177399	91154.000000	09/30/2016		
					2051	173699	89953.000000	08/31/2016		
					2051	172176	89418.000000	07/31/2016		
					2051	170214	88208.000000	06/30/2016		
					2051	168005	87289.000000	05/31/2016		
					2051	165071	86418.000000	04/30/2016		
					2051	163009	86136.000000	03/31/2016		

Table II.C.1A/B Performance Metrics and Actuals

Metric ID	Metric Description	Unit of Measure	Performance Measurement Category Mapping	Agency Baseline Capability	2017 Target	2018 Target	Measurement Condition	Reporting Frequency	Agency Strategic Objective / Agency Priority Goal	Is Metric Retired?
					2051	160212	85726.000000	02/29/2016		
					2051	159596	85167.000000	01/31/2016		
					2051	157126	84991.000000	12/31/2015		
					2051	155057	84615.000000	11/30/2015		
					2051	153652	83827.000000	10/31/2015		
					2051	151527	83490.000000	09/30/2015		
					2051	151526	82625.000000	08/31/2015		
					2051	148233	81176.000000	07/31/2015		
					2051	145387	79514.000000	06/30/2015		
					2051	139663	78302.000000	05/31/2015		
					2051	135985	76623.000000	04/30/2015		
					2051	133875	76246.000000	03/31/2015		
					2051	128085	75567.000000	02/28/2015		
					2051	125265	75304.000000	01/31/2015		
					2051	119397	74771.000000	12/31/2014		
					2051	115899	74181.000000	11/30/2014		

Table II.C.1A/B Performance Metrics and Actuals

Metric ID	Metric Description	Unit of Measure	Performance Measurement Category Mapping	Agency Baseline Capability	2017 Target	2018 Target	Measurement Condition	Reporting Frequency	Agency Strategic Objective / Agency Priority Goal	Is Metric Retired?
					2051	112675	73552.000000	10/31/2014		
					2051	109583	72770.000000	09/30/2014		
					2051	101679	70480.000000	07/31/2014		
					2051	99295	68980.000000	06/30/2014		
					2051	96931	67676.000000	05/31/2014		
					2051	93331	65194.000000	05/15/2014		
					2051	88529	64438.000000	03/31/2014		
					2051	80799	61546.000000	01/31/2013		
					2051	77891	61018.000000	12/31/2013		
					2051	74497	60431.000000	11/30/2013		
					2051	69963	59846.000000	10/31/2013		
					2051	67013	59113.000000	09/30/2013		
					2051	67011	57919.000000	08/30/2013		
					2051	64075	56088.000000	07/31/2013		
					2051	61337	54121.000000	06/30/2013		
					2051	58451	52477.000000	05/31/2013		
					2051	56811	51177.000000	04/30/2013		

Table II.C.1A/B Performance Metrics and Actuals

Metric ID	Metric Description	Unit of Measure	Performance Measurement Category Mapping	Agency Baseline Capability	2017 Target	2018 Target	Measurement Condition	Reporting Frequency	Agency Strategic Objective / Agency Priority Goal	Is Metric Retired?
					2051	50635	50355.000000	03/31/2013		
					2051	47145	49668.000000	02/28/2013		
					2051	44151	49155.000000	01/31/2012		
					2051	40509	48516.000000	12/31/2012		
					2051	36798	47894.000000	11/30/2012		
					2051	34439	47230.000000	10/31/2012		
					2051	31027	46747.000000	10/15/2012		
					2051	27921	43769.000000	08/31/2012		
					2051	23323	42814.000000			
					2051	20345	41749.000000			
					2051	14607	37067.000000			
					2051	689	36015.000000			
									To date the Rescue 21 System has been used in more than 42,814 SAR cases	
									To date the Rescue 21 System has been used in more than 41,749 SAR cases	
									To date the Rescue 21 System has been used in more than 37,067 SAR cases	
									To date the Rescue 21 System has been used in more than 36,015 SAR cases	
2050	Maintain percent of availability to provide uninterrupted guard to receive distress and emergency alerts	Percent	2 - Strategic and Business Results	98.000000	98.000000	98.000000	Over target	Semi-Annual	46751 : Enhance Disaster Preparedness and Response	No

Table II.C.1A/B Performance Metrics and Actuals

Metric ID	Metric Description	Unit of Measure	Performance Measurement Category Mapping	Agency Baseline Capability	2017 Target	2018 Target	Measurement Condition	Reporting Frequency	Agency Strategic Objective / Agency Priority Goal	Is Metric Retired?
	on VHF channel 16 and channel 70 using formula $(To+Ts)/(To+Ts+Tm+Tl+Ta)$.									
Metric ID	Actual Result ID	Actual Result	Date of Actual Result	Comment						
2050	210777	98.000000	09/30/2017							
2050	203555	98.000000	03/31/2017							
2050	203554	98.000000	09/30/2016							
2050	182502	98.000000	01/31/2017							
2050	172171	98.000000	03/31/2016							
2050	172170	98.000000	09/30/2015							
2050	172169	98.000000	03/31/2015							
2050	172168	98.000000	09/30/2014							
2050	67027	98.000000	09/30/2013							
2050	50633	98.000000	03/31/2013							
2050	31025	98.000000	10/15/2012							
2050	27919	98.000000	08/31/2012							
2050	20355	99.500000		System in deployed sectors provides uninterrupted channel 16 & 70 guard						

Table II.C.1A/B Performance Metrics and Actuals

Metric ID	Metric Description	Unit of Measure	Performance Measurement Category Mapping	Agency Baseline Capability	2017 Target	2018 Target	Measurement Condition	Reporting Frequency	Agency Strategic Objective / Agency Priority Goal	Is Metric Retired?
2049	Maintain percent of Coast Guard marine information broadcasts transmitted by Rescue 21 in all sectors in which Rescue 21 is deployed using formula (To+Ts)/(To+Ts+Tm+Tl+Ta).	Percent	1 - Customer Satisfaction (Process Results)	98.000000	2050	14619	99.500000		System in deployed sectors provides uninterrupted channel 16 & 70 guard	
					2050	5301	99.500000		System in deployed sectors provides uninterrupted channel 16 & 70 guard	
					98.000000	98.000000	Over target	Semi-Annual	46751 : Enhance Disaster Preparedness and Response	No
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Table II.C.1A/B Performance Metrics and Actuals

Metric ID	Metric Description	Unit of Measure	Performance Measurement Category Mapping	Agency Baseline Capability	2017 Target	2018 Target	Measurement Condition	Reporting Frequency	Agency Strategic Objective / Agency Priority Goal	Is Metric Retired?
					2049	67025	98.000000	09/30/2013		
					2049	50631	98.000000	03/31/2013		
					2049	31023	98.000000	10/15/2012		
					2049	27917	98.000000	08/31/2012		
					2049	20353	1.000000		All marine information broadcasts transmitted via Rescue 21 in deployed sectors	
					2049	14617	1.000000		All marine information broadcasts transmitted via Rescue 21 in deployed sectors	
					2049	5299	1.000000		All marine information broadcasts transmitted via Rescue 21 in deployed sectors	
2048	Maintain 90% Communication Area Coverage Out to 20 Nautical Miles from Shore and is validated as part of Operational Acceptance by the Sector. This is revalidated every 3 years via a tech evaluation of RFF performance & coverage analysis.	Percent	3 - Financial Performance	90.000000	90.000000	90.000000	Over target	Semi-Annual	46751 : Enhance Disaster Preparedness and Response	No
					Metric ID	Actual Result ID	Actual Result	Date of Actual Result	Comment	

Table II.C.1A/B Performance Metrics and Actuals

Metric ID	Metric Description	Unit of Measure	Performance Measurement Category Mapping	Agency Baseline Capability	2017 Target	2018 Target	Measurement Condition	Reporting Frequency	Agency Strategic Objective / Agency Priority Goal	Is Metric Retired?
2047	Maintain percent of availability of 3 simultaneous	Percent	2 - Strategic and Business Results	99.000000	2048	210774	90.000000	09/30/2017		
					2048	203552	90.000000	03/31/2017		
					2048	203551	90.000000	09/30/2016		
					2048	182500	90.000000	01/31/2017		
					2048	172166	90.000000	03/31/2016		
					2048	172165	90.000000	09/30/2015		
					2048	172164	90.000000	03/31/2015		
					2048	172163	90.000000	09/30/2014		
					2048	67023	90.000000	09/30/2013		
					2048	50629	90.000000	03/31/2013		
					2048	31021	90.000000	10/15/2012		
					2048	27915	90.000000	08/31/2012		
					2048	20351	0.900000		Cumulative area coverage exceeds 90% across all deployed sectors	
					2048	14615	0.900000		Cumulative area coverage exceeds 90% across all deployed sectors	
					2048	5297	0.900000		Cumulative area coverage exceeds 90% across all deployed sectors	
2047	Maintain percent of availability of 3 simultaneous	Percent	2 - Strategic and Business Results	99.000000	99.000000	99.000000	Over target	Semi-Annual	46751 : Enhance Disaster Preparedness	No

Table II.C.1A/B Performance Metrics and Actuals

Metric ID	Metric Description	Unit of Measure	Performance Measurement Category Mapping	Agency Baseline Capability	2017 Target	2018 Target	Measurement Condition	Reporting Frequency	Agency Strategic Objective / Agency Priority Goal	Is Metric Retired?
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voice
communication
channels using
formula $(To+Ts)/(To+Ts+Tm+Tl+Ta)$.

and Response

Metric ID	Actual Result ID	Actual Result	Date of Actual Result	Comment
2047	210773	99.000000	09/30/2017	
2047	203550	99.000000	03/31/2017	
2047	203549	99.000000	09/30/2016	
2047	182499	99.000000	01/31/2017	
2047	172162	99.000000	03/31/2016	
2047	172161	99.000000	09/30/2015	
2047	172160	99.000000	03/31/2015	
2047	172159	99.000000	09/30/2014	
2047	67021	99.000000	09/30/2013	
2047	50627	99.000000	03/31/2013	
2047	31019	99.000000	10/15/2012	
2047	27913	99.000000	08/31/2012	
2047	20349	1.000000		Providing 5 simultaneous channels in all deployed sectors

Table II.C.1A/B Performance Metrics and Actuals

Metric ID	Metric Description	Unit of Measure	Performance Measurement Category Mapping	Agency Baseline Capability	2017 Target	2018 Target	Measurement Condition	Reporting Frequency	Agency Strategic Objective / Agency Priority Goal	Is Metric Retired?
					2047	14613	1.000000		Providing 5 simultaneous channels in all deployed sectors	
					2047	5295	1.000000		Providing 5 simultaneous channels in all deployed sectors	
2046	Maintain percent of availability of Channel 70 (DSC) Channel 70 (International Digital Selective Calling Reserved Channel) Availability of Coast Guard Distress System using formula $(To+Ts)/(To+Ts+Tm+TI+Ta)$.	Percent	2 - Strategic and Business Results	99.000000	99.000000	99.000000	Over target	Semi-Annual	46751 : Enhance Disaster Preparedness and Response	No
Metric ID	Actual Result ID	Actual Result	Date of Actual Result	Comment						
2046	210778	99.000000	09/30/2017							
2046	203557	99.000000	03/31/2017							
2046	203556	99.000000	09/30/2016							
2046	182503	99.000000	01/31/2017							
2046	172175	99.000000	03/31/2016							
2046	172174	99.000000	09/30/2015							
2046	172173	99.000000	03/31/2015							

Table II.C.1A/B Performance Metrics and Actuals

Metric ID	Metric Description	Unit of Measure	Performance Measurement Category Mapping	Agency Baseline Capability	2017 Target	2018 Target	Measurement Condition	Reporting Frequency	Agency Strategic Objective / Agency Priority Goal	Is Metric Retired?
2045	Maintain percent of availability of Channel 16 (International Hailing and Distress Frequency) Availability of Coast Guard's Distress System using formula $(To + Ts) / (To + Ts + Tm + Tl + Ta)$.	Percent	2 - Strategic and Business Results	99.500000	2046	172172	99.000000	09/30/2014		
					2046	67019	99.000000	09/30/2013		
					2046	50625	99.000000	03/31/2013		
					2046	31017	99.000000	10/15/2012		
					2046	27911	99.000000	08/31/2012		
					2046	20347	1.000000		Operational Availability for deployed sectors was .995	
					2046	14611	1.000000		Operational Availability for deployed sectors was .995	
					2046	5293	1.000000		Operational Availability for deployed sectors was .995	
					99.500000	99.500000	Over target	Monthly	46751 : Enhance Disaster Preparedness and Response	No
					Metric ID	Actual Result ID	Actual Result	Date of Actual Result	Comment	
					2045	216898	99.900000	12/31/2017		
					2045	214966	99.900000	11/30/2017		

Table II.C.1A/B Performance Metrics and Actuals

Metric ID	Metric Description	Unit of Measure	Performance Measurement Category Mapping	Agency Baseline Capability	2017 Target	2018 Target	Measurement Condition	Reporting Frequency	Agency Strategic Objective / Agency Priority Goal	Is Metric Retired?
					2045	212135	99.900000	10/31/2017		
					2045	210776	99.900000	09/30/2017		
					2045	210775	99.900000	08/31/2017		
					2045	203553	99.900000	07/31/2017		
					2045	203545	99.900000	06/30/2017		
					2045	203543	99.900000	05/31/2017		
					2045	189723	99.900000	04/30/2017		
					2045	186423	99.900000	03/31/2017		
					2045	184771	99.900000	02/28/2017		
					2045	182501	99.900000	01/31/2017		
					2045	180491	99.900000	12/31/2016		
					2045	178236	99.700000	11/30/2016		
					2045	177398	99.700000	10/31/2016		
					2045	177397	99.800000	09/30/2016		
					2045	173698	99.800000	08/31/2016		
					2045	172167	99.800000	07/31/2016		
					2045	170213	99.800000	06/30/2016		

Table II.C.1A/B Performance Metrics and Actuals

Metric ID	Metric Description	Unit of Measure	Performance Measurement Category Mapping	Agency Baseline Capability	2017 Target	2018 Target	Measurement Condition	Reporting Frequency	Agency Strategic Objective / Agency Priority Goal	Is Metric Retired?
					2045	168004	99.800000	05/31/2016		
					2045	165070	99.800000	04/30/2016		
					2045	163008	99.800000	03/31/2016		
					2045	160211	99.800000	02/29/2016		
					2045	159595	99.800000	01/31/2016		
					2045	157125	99.800000	12/31/2015		
					2045	155056	99.800000	11/30/2015		
					2045	153651	99.900000	10/31/2015		
					2045	151525	99.700000	09/30/2015		
					2045	151524	99.700000	08/31/2015		
					2045	148231	99.800000	07/31/2015		
					2045	145385	99.800000	06/30/2015		
					2045	139661	99.500000	05/31/2015		
					2045	135983	99.900000	04/30/2015		
					2045	133873	99.900000	03/31/2015		
					2045	128083	99.800000	02/28/2015		

Table II.C.1A/B Performance Metrics and Actuals

Metric ID	Metric Description	Unit of Measure	Performance Measurement Category Mapping	Agency Baseline Capability	2017 Target	2018 Target	Measurement Condition	Reporting Frequency	Agency Strategic Objective / Agency Priority Goal	Is Metric Retired?
					2045	125263	99.800000	01/31/2015		
					2045	119395	99.800000	12/31/2014		
					2045	115897	99.800000	11/30/2014		
					2045	112673	99.600000	10/31/2014		
					2045	109581	99.600000	09/30/2014		
					2045	101677	99.500000	07/31/2014		
					2045	99293	99.500000	06/30/2014		
					2045	96929	99.400000	05/31/2014		
					2045	93329	99.300000	05/15/2014		
					2045	88527	99.200000	02/28/2014		
					2045	80797	99.800000	02/10/2014		
					2045	77889	99.800000	12/31/2013		
					2045	74495	99.500000	11/30/2013		
					2045	69961	99.500000	10/31/2013		
					2045	67017	99.500000	09/30/2013		
					2045	67015	99.500000	08/30/2013		
					2045	64073	99.900000	07/31/2013		

Table II.C.1A/B Performance Metrics and Actuals

Metric ID	Metric Description	Unit of Measure	Performance Measurement Category Mapping	Agency Baseline Capability	2017 Target	2018 Target	Measurement Condition	Reporting Frequency	Agency Strategic Objective / Agency Priority Goal	Is Metric Retired?
					2045	61336	99.500000	06/30/2013		
					2045	58450	99.500000	05/31/2013		
					2045	56809	99.500000	04/30/2013		
					2045	50623	99.500000	03/31/2013		
					2045	47143	99.500000	02/28/2013		
					2045	44149	99.500000	01/31/2012		
					2045	40507	99.500000	12/31/2012		
					2045	36796	99.500000	11/30/2012		
					2045	34437	99.500000	10/31/2012		
					2045	31015	99.500000	10/15/2012		
					2045	27909	99.500000	08/31/2012		
					2045	20343	0.995000		Actuals as of June 2012. Operational Availability for deployed sectors was .995	
					2045	14609	0.995000		Operational Availability for deployed sectors was .995	
					2045	5291	0.995000		Operational Availability for deployed sectors was .995	