U.S. Department of Homeland Security
500 C Street, S.W. Mail Stop 3172
Washington, DC 20472-3172

FEMA

April 18, 2018

SENT VIA E-MAIL TO: john@greenewald.com

John Greenewald
The Black Vault
27305 W. Live Oak Rd.
Castaic, CA 91384

Re: **FEMA FOIA Case Number 2018-FEFO-00489**

Dear Mr. Greenewald:

This is the final response to your Freedom of Information Act (FOIA) request to the Department of Homeland Security (DHS), Federal Emergency Management Agency (FEMA), dated February 19, 2018 and received in this office on February 20, 2018. You are seeking a copy of the following: email messages distributed on the FNARS_NRN email distribution Listserv during calendar years 2016 and January – July 2017. This program was administered by the FEMA National Continuity Programs Directorate (NCP).

A search of FEMA'S National Continuity Programs Directorate (NCP) for documents responsive to your request produced a total of 65 pages. We are granting your request under the FOIA, Title 5 U.S.C. § 552, as amended, and DHS' implementing regulations, 6 C.F.R. Chapter I and Part 5. After carefully reviewing the responsive documents, I determined that they are appropriate for public release. They are enclosed in their entirety; no deletions or exemptions have been claimed.

You have the right to appeal if you disagree with FEMA's response. The procedure for administrative appeals is outlined in the DHS regulations at 6 C.F.R. § 5.8. In the event you wish to submit an appeal, we encourage you to both state the reason(s) you believe FEMA's initial determination on your FOIA request was erroneous in your correspondence, and include a copy of this letter with your appeal. Should you wish to do so, you must send your appeal within 90 days from the date of this letter to fema-foia@fema.dhs.gov, or alternatively, via mail at the following address:

FEMA
Office of the Chief Administrative Officer
Information Management Division (FOIA Appeals)
500 C Street, SW, Seventh Floor, Mail Stop 3172
Washington, D.C. 20472-3172

As part of the 2007 amendments, the Office of Government Information Services (OGIS) was created to offer mediation services to resolve disputes between FOIA requesters and Federal agencies. You may contact OGIS in any of the following ways:

Office of Government Information Services
National Archives and Records Administration
8601 Adelphi Road- OGIS
College Park, MD 20740-6001
E-mail: ogis@nara.gov
Web: https://ogis.archives.gov
Telephone: 202-741-5770/Toll-free: 1-877-684-6448
Facsimile: 202-741-5769

Provisions of the FOIA allow us to recover part of the cost of complying with your request. In this instance, because the cost is below the $25 minimum, there is no charge.

If you have any questions or would like to discuss this matter, you may contact FEMA at (202) 646-3323, or you may contact FEMA's Public Liaison in the same manner. Please reference the subsequent case identifier: **FEMA 2018-FEFO-00489.**

Sincerely,

Eric Neuschaefer
Chief, Disclosure Branch
Information Management Division
Mission Support

Enclosure(s): Responsive Documents (65 pages)

From: FEMA-NCP-COMMS
Sent: 6 Apr 2017 17:04:25 +0000
To: FNARS_NRN
Subject: FNARS National Radio Net (NRN) Test Schedule for 11 April 2017
Attachments: FNARS National Radio Net Test Schedule_4_11_2017.pdf

Please find the FNARS National Radio Net (NRN) Test Schedule for April 11, 2017 attached for your review. This document has also been posted to the NRN Test Reports Library of the FNARS Community Portal.

National Net Test Report Library Link:

https://community.max.gov/display/DHSExternal/FNARS+National+Radio+Network+%28NRN%29+Test+Reports+Library

If you or your colleagues wish to gain access to the FNARS Portal, please send a request to: FEMA-NCP-COMMS@fema.gov <mailto:FEMA-NCP-COMMS@fema.gov> .

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Continuity Communications Division

National Continuity Programs

Federal Emergency Management Agency

Department of Homeland Security

<mailto:FEMA-NCP-COMMS@FEMA.DHS.GOV> FEMA-NCP-COMMS@FEMA.DHS.GOV

FNARS National Radio Net Test
Weekly Test Plan

Objective

The objectives of the FEMA National Radio System (FNARS) Test and Exercise program are to: (1) maintain the highest level of network operator proficiency in employing the various network configurations of FNARS operations via periodic exercises; and (2) ensure the continuity of FNARS operations in the event of primary Net Control (NC) failure through regular tests involving the transfer of NC responsibilities. The National Radio Net Test is a weekly test conducted by FEMA National Continuity Programs (NCP). The FNARS National Net Test is conducted every Tuesday between 9:00 AM and 12:30 PM, ET. It should be noted that this test plan is a working document, which will be refined regularly based on participant feedback and test results.

Table 1: Test Overview

Test	Classification	Test Date
FNARS National Radio Net	Unclassified	April 11, 2017
Start Time	**End Time**	**Net Control Phone Numbers**
9:00 AM, EDT	12:30 PM, EDT	(540) 535-2745 (540) 542-4368
Net Control Station	**Capabilities Tested**	**Test Coordinator**
Mt. Weather ALE Address (FCSFEM1)	HF ALE Voice, Data, and Phone Patch will all be available to test	Tom Cross (540) 542-2249 Thomas.Cross2@fema.dhs.gov

If you are unable to participate for any reason or have further questions related to the testing scenario, please contact the NCP COMMS Help Desk *prior to the test* at FEMA-NCP-COMMS@fema.dhs.gov or (877) 801-2088.

Test Windows:

In order to effectively test and validate HF capabilities, each FNARS site will be assigned a test window time. The test window times may be modified upon coordination with the test coordinator. ****PLEASE NOTE, two new test locations have been added: MERS Thomasville MOC and MERS Denton MOC****

Note: Please call MW Net Control at (540) 535-2745/(540) 542-4368 or email FEMA-NCP-COMMS@fema.dhs.gov if you are unable to call in during your scheduled test time.

Table 2: FNARS National Radio Net Test Window Times

Site	Time Zone	Start Time (ET)	End Time (ET)	Start Time (CT)	End Time (CT)	Start Time (MT)	End Time (MT)	Start Time (PT)	End Time (PT)
MERS Maynard (I)	ET	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM	6:00 AM	6:30 AM
MERS Maynard MOC (I)	ET	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM	6:00 AM	6:30 AM
FRC I	ET	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM	6:00 AM	6:30 AM
RO I	ET	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM	6:00 AM	6:30 AM
RO II	ET	9:30 AM	10:00 AM	8:30 AM	9:00 AM	7:30 AM	8:00 AM	6:30 AM	7:00 AM
MERS Frederick (III)	ET	9:30 AM	10:00 AM	8:30 AM	9:00 AM	7:30 AM	8:00 AM	6:30 AM	7:00 AM
RO-III	ET	9:30 AM	10:00 AM	8:30 AM	9:00 AM	7:30 AM	8:00 AM	6:30 AM	7:00 AM
FRC IV	ET	10:00 AM	10:30 AM	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM
MERS Thomasville (IV)	ET	10:00 AM	10:30 AM	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM
MERS Thomasville MOC	**ET**	**10:00 AM**	**10:30 AM**	**9:00 AM**	**9:30 AM**	**8:00 AM**	**8:30 AM**	**7:00 AM**	**7:30 AM**
RO IV	ET	10:00 AM	10:30 AM	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM
RO V	CT	10:40 AM	11:20 AM	9:40 AM	10:10 AM	8:40 AM	9:10 AM	7:40 AM	8:10 AM
MERS Denton (VI)	CT	10:40 AM	11:20 AM	9:40 AM	10:10 AM	8:40 AM	9:10 AM	7:40 AM	8:10 AM
MERS Denton MOC	**CT**	**10:40 AM**	**11:20 AM**	**9:40 AM**	**10:10 AM**	**8:40 AM**	**9:10 AM**	**7:40 AM**	**8:10 AM**
FRC VI	CT	10:40 AM	11:20 AM	9:40 AM	10:10 AM	8:40 AM	9:10 AM	7:40 AM	8:10 AM
RO VII	CT	11:20 AM	11:40 AM	10:20 AM	10:40 AM	9:20 AM	9:40 AM	8:20 AM	8:40 AM
MERS Denver (VIII)	MT	11:20 AM	11:40 AM	10:20 AM	10:40 AM	9:20 AM	9:50 AM	8:20 AM	8:50 AM
MERS Denver MOC (VIII)	MT	11:20 AM	11:40 AM	10:20 AM	10:40 AM	9:20 AM	9:50 AM	8:20 AM	8:50 AM
FRC VIII	MT	11:20 AM	11:40 AM	10:20 AM	10:40 AM	9:20 AM	9:50 AM	8:20 AM	8:50 AM
RO IX	PT	12:00 PM	12:30 PM	11:00 AM	11:30 AM	10:00 AM	10:30 AM	9:00 AM	9:30 AM
MERS Bothell (X)	PT	12:00 PM	12:30 PM	11:00 AM	11:30 AM	10:00 AM	10:30 AM	9:00 AM	9:30 AM
MERS Bothell MOC (X)	PT	12:00 PM	12:30 PM	11:00 AM	11:30 AM	10:00 AM	10:30 AM	9:00 AM	9:30 AM
FRC X	PT	12:00 PM	12:30 PM	11:00 AM	11:30 AM	10:00 AM	10:30 AM	9:00 AM	9:30 AM

If you are unable to participate for any reason or have further questions related to the testing scenario, please contact the NCP COMMS Help Desk *prior to the test* at FEMA-NCP- COMMS@fema.dhs.gov or (877) 801-2088.

From: FEMA-NCP-COMMS
Sent: 13 Apr 2017 15:31:26 +0000
To: FNARS_NRN
Subject: FNARS National Radio Net (NRN) Test Schedule for 18 April 2017
Attachments: FNARS National Radio Net Test Schedule_4_18_2017.pdf

Please find the FNARS National Radio Net (NRN) Test Schedule for April 18, 2017 attached for your review. This document has also been posted to the NRN Test Reports Library of the FNARS Community Portal.

National Net Test Report Library Link:

https://community.max.gov/display/DHSExternal/FNARS+National+Radio+Network+%28NRN%29+Test+Reports+Library

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FNARS National Radio Net Test
Weekly Test Plan

Objective

The objectives of the FEMA National Radio System (FNARS) Test and Exercise program are to: (1) maintain the highest level of network operator proficiency in employing the various network configurations of FNARS operations via periodic exercises; and (2) ensure the continuity of FNARS operations in the event of primary Net Control (NC) failure through regular tests involving the transfer of NC responsibilities. The National Radio Net Test is a weekly test conducted by FEMA National Continuity Programs (NCP). The FNARS National Net Test is conducted every Tuesday between 9:00 AM and 12:30 PM, ET. It should be noted that this test plan is a working document, which will be refined regularly based on participant feedback and test results.

Table 1: Test Overview

Test	Classification	Test Date
FNARS National Radio Net	Unclassified	April 18, 2017
Start Time	**End Time**	**Net Control Phone Numbers**
9:00 AM, EDT	12:30 PM, EDT	(540) 535-2745 (540) 542-4368
Net Control Station	**Capabilities Tested**	**Test Coordinator**
Mt. Weather ALE Address (FCSFEM1)	HF ALE Voice, Data, and Phone Patch will all be available to test	Tom Cross (540) 542-2249 Thomas.Cross2@fema.dhs.gov

If you are unable to participate for any reason or have further questions related to the testing scenario, please contact the NCP COMMS Help Desk *prior to the test* at FEMA-NCP-COMMS@fema.dhs.gov or (877) 801-2088.

Test Windows:

In order to effectively test and validate HF capabilities, each FNARS site will be assigned a test window time. The test window times may be modified upon coordination with the test coordinator. ****PLEASE NOTE, two new test locations have been added: MERS Thomasville MOC and MERS Denton MOC****

Note: Please call MW Net Control at (540) 535-2745/(540) 542-4368 or email FEMA-NCP-COMMS@fema.dhs.gov if you are unable to call in during your scheduled test time.

Table 2: FNARS National Radio Net Test Window Times

Site	Time Zone	Start Time (ET)	End Time (ET)	Start Time (CT)	End Time (CT)	Start Time (MT)	End Time (MT)	Start Time (PT)	End Time (PT)
MERS Maynard (I)	ET	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM	6:00 AM	6:30 AM
MERS Maynard MOC (I)	ET	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM	6:00 AM	6:30 AM
FRC I	ET	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM	6:00 AM	6:30 AM
RO I	ET	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM	6:00 AM	6:30 AM
RO II	ET	9:30 AM	10:00 AM	8:30 AM	9:00 AM	7:30 AM	8:00 AM	6:30 AM	7:00 AM
MERS Frederick (III)	ET	9:30 AM	10:00 AM	8:30 AM	9:00 AM	7:30 AM	8:00 AM	6:30 AM	7:00 AM
RO-III	ET	9:30 AM	10:00 AM	8:30 AM	9:00 AM	7:30 AM	8:00 AM	6:30 AM	7:00 AM
FRC IV	ET	10:00 AM	10:30 AM	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM
MERS Thomasville (IV)	ET	10:00 AM	10:30 AM	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM
MERS Thomasville MOC	**ET**	**10:00 AM**	**10:30 AM**	**9:00 AM**	**9:30 AM**	**8:00 AM**	**8:30 AM**	**7:00 AM**	**7:30 AM**
RO IV	ET	10:00 AM	10:30 AM	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM
RO V	CT	10:40 AM	11:20 AM	9:40 AM	10:10 AM	8:40 AM	9:10 AM	7:40 AM	8:10 AM
MERS Denton (VI)	CT	10:40 AM	11:20 AM	9:40 AM	10:10 AM	8:40 AM	9:10 AM	7:40 AM	8:10 AM
MERS Denton MOC	**CT**	**10:40 AM**	**11:20 AM**	**9:40 AM**	**10:10 AM**	**8:40 AM**	**9:10 AM**	**7:40 AM**	**8:10 AM**
FRC VI	CT	10:40 AM	11:20 AM	9:40 AM	10:10 AM	8:40 AM	9:10 AM	7:40 AM	8:10 AM
RO VII	CT	11:20 AM	11:40 AM	10:20 AM	10:40 AM	9:20 AM	9:40 AM	8:20 AM	8:40 AM
MERS Denver (VIII)	MT	11:20 AM	11:40 AM	10:20 AM	10:40 AM	9:20 AM	9:50 AM	8:20 AM	8:50 AM
MERS Denver MOC (VIII)	MT	11:20 AM	11:40 AM	10:20 AM	10:40 AM	9:20 AM	9:50 AM	8:20 AM	8:50 AM
FRC VIII	MT	11:20 AM	11:40 AM	10:20 AM	10:40 AM	9:20 AM	9:50 AM	8:20 AM	8:50 AM
RO IX	PT	12:00 PM	12:30 PM	11:00 AM	11:30 AM	10:00 AM	10:30 AM	9:00 AM	9:30 AM
MERS Bothell (X)	PT	12:00 PM	12:30 PM	11:00 AM	11:30 AM	10:00 AM	10:30 AM	9:00 AM	9:30 AM
MERS Bothell MOC (X)	PT	12:00 PM	12:30 PM	11:00 AM	11:30 AM	10:00 AM	10:30 AM	9:00 AM	9:30 AM
FRC X	PT	12:00 PM	12:30 PM	11:00 AM	11:30 AM	10:00 AM	10:30 AM	9:00 AM	9:30 AM

If you are unable to participate for any reason or have further questions related to the testing scenario, please contact the NCP COMMS Help Desk *prior to the test* at FEMA-NCP- COMMS@fema.dhs.gov or (877) 801-2088.

From: FEMA-NCP-COMMS
Sent: 27 Apr 2017 18:11:05 +0000
To: FNARS_NRN
Subject: FNARS National Radio Net (NRN) Test Schedule for 2 May 2017
Attachments: FNARS National Radio Net Test Schedule_5_2_2017.pdf

Please find the FNARS National Radio Net (NRN) Test Schedule for May 2, 2017 attached for your review. This document has also been posted to the NRN Test Reports Library of the FNARS Community Portal.

National Net Test Report Library Link:

https://community.max.gov/display/DHSExternal/FNARS+National+Radio+Network+%28NRN%29+Test+Reports+Library

If you or your colleagues wish to gain access to the FNARS Portal, please send a request to: FEMA-NCP-COMMS@fema.gov <mailto:FEMA-NCP-COMMS@fema.gov> .

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FNARS National Radio Net Test
Weekly Test Plan

Objective

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Table 1: Test Overview

Test	Classification	Test Date
FNARS National Radio Net	Unclassified	May 2, 2017
Start Time	**End Time**	**Net Control Phone Numbers**
9:00 AM, EDT	12:30 PM, EDT	(540) 535-2745 (540) 542-4368
Net Control Station	**Capabilities Tested**	**Test Coordinator**
Mt. Weather ALE Address (FCSFEM1)	HF ALE Voice, Data, and Phone Patch will all be available to test	Tom Cross (540) 542-2249 Thomas.Cross2@fema.dhs.gov

Test Windows:
In order to effectively test and validate HF capabilities, each FNARS site will be assigned a test window time. The test window times may be modified upon coordination with the test coordinator.

Note: Please call MW Net Control at (540) 535-2745/(540) 542-4368 or email FEMA-NCP-COMMS@fema.dhs.gov if you are unable to call in during your scheduled test time.

Table 2: FNARS National Radio Net Test Window Times

Site	Time Zone	Start Time (ET)	End Time (ET)	Start Time (CT)	End Time (CT)	Start Time (MT)	End Time (MT)	Start Time (PT)	End Time (PT)
MERS Maynard (I)	ET	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM	6:00 AM	6:30 AM
MERS Maynard MOC (I)	ET	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM	6:00 AM	6:30 AM
FRC I	ET	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM	6:00 AM	6:30 AM
RO I	ET	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM	6:00 AM	6:30 AM
RO II	ET	9:30 AM	10:00 AM	8:30 AM	9:00 AM	7:30 AM	8:00 AM	6:30 AM	7:00 AM
MERS Frederick (III)	ET	9:30 AM	10:00 AM	8:30 AM	9:00 AM	7:30 AM	8:00 AM	6:30 AM	7:00 AM
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FRC IV	ET	10:00 AM	10:30 AM	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM
MERS Thomasville (IV)	ET	10:00 AM	10:30 AM	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM
MERS Thomasville MOC	**ET**	**10:00 AM**	**10:30 AM**	**9:00 AM**	**9:30 AM**	**8:00 AM**	**8:30 AM**	**7:00 AM**	**7:30 AM**
RO IV	ET	10:00 AM	10:30 AM	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM
RO V	CT	10:40 AM	11:20 AM	9:40 AM	10:10 AM	8:40 AM	9:10 AM	7:40 AM	8:10 AM
MERS Denton (VI)	CT	10:40 AM	11:20 AM	9:40 AM	10:10 AM	8:40 AM	9:10 AM	7:40 AM	8:10 AM
MERS Denton MOC	**CT**	**10:40 AM**	**11:20 AM**	**9:40 AM**	**10:10 AM**	**8:40 AM**	**9:10 AM**	**7:40 AM**	**8:10 AM**
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FRC VIII	MT	11:20 AM	11:40 AM	10:20 AM	10:40 AM	9:20 AM	9:50 AM	8:20 AM	8:50 AM
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MERS Bothell MOC (X)	PT	12:00 PM	12:30 PM	11:00 AM	11:30 AM	10:00 AM	10:30 AM	9:00 AM	9:30 AM
FRC X	PT	12:00 PM	12:30 PM	11:00 AM	11:30 AM	10:00 AM	10:30 AM	9:00 AM	9:30 AM

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From: FEMA-NCP-COMMS
Sent: 20 Apr 2017 15:04:18 +0000
To: FNARS_NRN
Subject: FNARS National Radio Net (NRN) Test Schedule for 25 April 2017
Attachments: FNARS National Radio Net Test Schedule_4_25_2017.pdf

Please find the FNARS National Radio Net (NRN) Test Schedule for April 25, 2017 attached for your review. This document has also been posted to the NRN Test Reports Library of the FNARS Community Portal.

National Net Test Report Library Link:

https://community.max.gov/display/DHSExternal/FNARS+National+Radio+Network+%28NRN%29+Test+Reports+Library

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FNARS National Radio Net Test
Weekly Test Plan

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Table 1: Test Overview

Test	Classification	Test Date
FNARS National Radio Net	Unclassified	April 25, 2017
Start Time	**End Time**	**Net Control Phone Numbers**
9:00 AM, EDT	12:30 PM, EDT	(540) 535-2745 (540) 542-4368
Net Control Station	**Capabilities Tested**	**Test Coordinator**
Mt. Weather ALE Address (FCSFEM1)	HF ALE Voice, Data, and Phone Patch will all be available to test	Tom Cross (540) 542-2249 Thomas.Cross2@fema.dhs.gov

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Table 2: FNARS National Radio Net Test Window Times

Site	Time Zone	Start Time (ET)	End Time (ET)	Start Time (CT)	End Time (CT)	Start Time (MT)	End Time (MT)	Start Time (PT)	End Time (PT)
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MERS Maynard MOC (I)	ET	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM	6:00 AM	6:30 AM
FRC I	ET	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM	6:00 AM	6:30 AM
RO I	ET	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM	6:00 AM	6:30 AM
RO II	ET	9:30 AM	10:00 AM	8:30 AM	9:00 AM	7:30 AM	8:00 AM	6:30 AM	7:00 AM
MERS Frederick (III)	ET	9:30 AM	10:00 AM	8:30 AM	9:00 AM	7:30 AM	8:00 AM	6:30 AM	7:00 AM
RO-III	ET	9:30 AM	10:00 AM	8:30 AM	9:00 AM	7:30 AM	8:00 AM	6:30 AM	7:00 AM
FRC IV	ET	10:00 AM	10:30 AM	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM
MERS Thomasville (IV)	ET	10:00 AM	10:30 AM	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM
MERS Thomasville MOC	**ET**	**10:00 AM**	**10:30 AM**	**9:00 AM**	**9:30 AM**	**8:00 AM**	**8:30 AM**	**7:00 AM**	**7:30 AM**
RO IV	ET	10:00 AM	10:30 AM	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM
RO V	CT	10:40 AM	11:20 AM	9:40 AM	10:10 AM	8:40 AM	9:10 AM	7:40 AM	8:10 AM
MERS Denton (VI)	CT	10:40 AM	11:20 AM	9:40 AM	10:10 AM	8:40 AM	9:10 AM	7:40 AM	8:10 AM
MERS Denton MOC	**CT**	**10:40 AM**	**11:20 AM**	**9:40 AM**	**10:10 AM**	**8:40 AM**	**9:10 AM**	**7:40 AM**	**8:10 AM**
FRC VI	CT	10:40 AM	11:20 AM	9:40 AM	10:10 AM	8:40 AM	9:10 AM	7:40 AM	8:10 AM
RO VII	CT	11:20 AM	11:40 AM	10:20 AM	10:40 AM	9:20 AM	9:40 AM	8:20 AM	8:40 AM
MERS Denver (VIII)	MT	11:20 AM	11:40 AM	10:20 AM	10:40 AM	9:20 AM	9:50 AM	8:20 AM	8:50 AM
MERS Denver MOC (VIII)	MT	11:20 AM	11:40 AM	10:20 AM	10:40 AM	9:20 AM	9:50 AM	8:20 AM	8:50 AM
FRC VIII	MT	11:20 AM	11:40 AM	10:20 AM	10:40 AM	9:20 AM	9:50 AM	8:20 AM	8:50 AM
RO IX	PT	12:00 PM	12:30 PM	11:00 AM	11:30 AM	10:00 AM	10:30 AM	9:00 AM	9:30 AM
MERS Bothell (X)	PT	12:00 PM	12:30 PM	11:00 AM	11:30 AM	10:00 AM	10:30 AM	9:00 AM	9:30 AM
MERS Bothell MOC (X)	PT	12:00 PM	12:30 PM	11:00 AM	11:30 AM	10:00 AM	10:30 AM	9:00 AM	9:30 AM
FRC X	PT	12:00 PM	12:30 PM	11:00 AM	11:30 AM	10:00 AM	10:30 AM	9:00 AM	9:30 AM

If you are unable to participate for any reason or have further questions related to the testing scenario, please contact the NCP COMMS Help Desk *prior to the test* at FEMA-NCP- COMMS@fema.dhs.gov or (877) 801-2088.

From: FEMA-NCP-COMMS
Sent: 23 Mar 2017 14:52:21 +0000
To: FNARS_NRN
Subject: FNARS National Radio Net (NRN) Test Schedule for 28 March 2017
Attachments: FNARS National Radio Net Test Schedule_3_28_2017.pdf

Please find the FNARS National Radio Net (NRN) Test Schedule for March 28, 2017 attached for your review. This document has also been posted to the NRN Test Reports Library of the FNARS Community Portal.

National Net Test Report Library Link:

https://community.max.gov/display/DHSExternal/FNARS+National+Radio+Network+%28NRN%29+Test+Reports+Library

If you or your colleagues wish to gain access to the FNARS Portal, please send a request to: FEMA-NCP-COMMS@fema.gov <mailto:FEMA-NCP-COMMS@fema.gov> .

FEMA-NCP-Comms

Communications Management Branch

Continuity Communications Division

National Continuity Programs

Federal Emergency Management Agency

Department of Homeland Security

<mailto:FEMA-NCP-COMMS@FEMA.DHS.GOV> FEMA-NCP-COMMS@FEMA.DHS.GOV

FNARS National Radio Net Test
Weekly Test Plan

Objective

The objectives of the FEMA National Radio System (FNARS) Test and Exercise program are to: (1) maintain the highest level of network operator proficiency in employing the various network configurations of FNARS operations via periodic exercises; and (2) ensure the continuity of FNARS operations in the event of primary Net Control (NC) failure through regular tests involving the transfer of NC responsibilities. The National Radio Net Test is a weekly test conducted by FEMA National Continuity Programs (NCP). The FNARS National Net Test is conducted every Tuesday between 9:00 AM and 12:30 PM, ET. It should be noted that this test plan is a working document, which will be refined regularly based on participant feedback and test results.

Table 1: Test Overview

Test	Classification	Test Date
FNARS National Radio Net	Unclassified	March 28, 2017
Start Time	**End Time**	**Net Control Phone Numbers**
9:00 AM, EDT	12:30 PM, EDT	(540) 535-2745 (540) 542-4368
Net Control Station	**Capabilities Tested**	**Test Coordinator**
Mt. Weather ALE Address (FCSFEM1)	HF ALE Voice, Data, and Phone Patch will all be available to test	Tom Cross (540) 542-2249 Thomas.Cross2@fema.dhs.gov

If you are unable to participate for any reason or have further questions related to the testing scenario, please contact the NCP COMMS Help Desk *prior to the test* at FEMA-NCP-COMMS@fema.dhs.gov or (877) 801-2088.

Test Windows:

In order to effectively test and validate HF capabilities, each FNARS site will be assigned a test window time. The test window times may be modified upon coordination with the test coordinator. ****PLEASE NOTE, two new test locations have been added: MERS Thomasville MOC and MERS Denton MOC****

Note: Please call MW Net Control at (540) 535-2745/(540) 542-4368 or email FEMA-NCP-COMMS@fema.dhs.gov if you are unable to call in during your scheduled test time.

Table 2: FNARS National Radio Net Test Window Times

Site	Time Zone	Start Time (ET)	End Time (ET)	Start Time (CT)	End Time (CT)	Start Time (MT)	End Time (MT)	Start Time (PT)	End Time (PT)
FRC I	ET	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM	6:00 AM	6:30 AM
RO I	ET	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM	6:00 AM	6:30 AM
MERS Maynard (I)	ET	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM	6:00 AM	6:30 AM
MERS Maynard MOC (I)	ET	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM	6:00 AM	6:30 AM
RO II	ET	9:30 AM	10:00 AM	8:30 AM	9:00 AM	7:30 AM	8:00 AM	6:30 AM	7:00 AM
MERS Frederick (III)	ET	9:30 AM	10:00 AM	8:30 AM	9:00 AM	7:30 AM	8:00 AM	6:30 AM	7:00 AM
RO-III	ET	9:30 AM	10:00 AM	8:30 AM	9:00 AM	7:30 AM	8:00 AM	6:30 AM	7:00 AM
FRC IV	ET	10:00 AM	10:30 AM	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM
RO IV	ET	10:00 AM	10:30 AM	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM
MERS Thomasville (IV)	ET	10:00 AM	10:30 AM	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM
MERS Thomasville MOC	**ET**	**10:00 AM**	**10:30 AM**	**9:00 AM**	**9:30 AM**	**8:00 AM**	**8:30 AM**	**7:00 AM**	**7:30 AM**
RO V	CT	10:40 AM	11:20 AM	9:40 AM	10:10 AM	8:40 AM	9:10 AM	7:40 AM	8:10 AM
FRC VI	CT	10:40 AM	11:20 AM	9:40 AM	10:10 AM	8:40 AM	9:10 AM	7:40 AM	8:10 AM
MERS Denton (VI)	CT	10:40 AM	11:20 AM	9:40 AM	10:10 AM	8:40 AM	9:10 AM	7:40 AM	8:10 AM
MERS Denton MOC	**CT**	**10:40 AM**	**11:20 AM**	**9:40 AM**	**10:10 AM**	**8:40 AM**	**9:10 AM**	**7:40 AM**	**8:10 AM**
RO VII	CT	11:20 AM	11:40 AM	10:20 AM	10:40 AM	9:20 AM	9:40 AM	8:20 AM	8:40 AM
MERS Denver (VIII)	MT	11:20 AM	11:40 AM	10:20 AM	10:40 AM	9:20 AM	9:50 AM	8:20 AM	8:50 AM
MERS Denver MOC (VIII)	MT	11:20 AM	11:40 AM	10:20 AM	10:40 AM	9:20 AM	9:50 AM	8:20 AM	8:50 AM
FRC VIII	MT	11:20 AM	11:40 AM	10:20 AM	10:40 AM	9:20 AM	9:50 AM	8:20 AM	8:50 AM
FRC X	PT	12:00 PM	12:30 PM	11:00 AM	11:30 AM	10:00 AM	10:30 AM	9:00 AM	9:30 AM
RO IX	PT	12:00 PM	12:30 PM	11:00 AM	11:30 AM	10:00 AM	10:30 AM	9:00 AM	9:30 AM
MERS Bothell (X)	PT	12:00 PM	12:30 PM	11:00 AM	11:30 AM	10:00 AM	10:30 AM	9:00 AM	9:30 AM
MERS Bothell MOC (X)	PT	12:00 PM	12:30 PM	11:00 AM	11:30 AM	10:00 AM	10:30 AM	9:00 AM	9:30 AM

If you are unable to participate for any reason or have further questions related to the testing scenario, please contact the NCP COMMS Help Desk *prior to the test* at FEMA-NCP- COMMS@fema.dhs.gov or (877) 801-2088.

From: FEMA-NCP-COMMS
Sent: 30 Mar 2017 21:31:56 +0000
To: FNARS_NRN
Subject: FNARS National Radio Net (NRN) Test Schedule for 4 April 2017
Attachments: FNARS National Radio Net Test Schedule_4_4_2017.pdf

Please find the FNARS National Radio Net (NRN) Test Schedule for April 4, 2017 attached for your review. This document has also been posted to the NRN Test Reports Library of the FNARS Community Portal.

National Net Test Report Library Link:

https://community.max.gov/display/DHSExternal/FNARS+National+Radio+Network+%28NRN%29+Test+Reports+Library

If you or your colleagues wish to gain access to the FNARS Portal, please send a request to: FEMA-NCP-COMMS@fema.gov <mailto:FEMA-NCP-COMMS@fema.gov> .

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Communications Management Branch

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<mailto:FEMA-NCP-COMMS@FEMA.DHS.GOV> FEMA-NCP-COMMS@FEMA.DHS.GOV

FNARS National Radio Net Test
Weekly Test Plan

Objective

The objectives of the FEMA National Radio System (FNARS) Test and Exercise program are to: (1) maintain the highest level of network operator proficiency in employing the various network configurations of FNARS operations via periodic exercises; and (2) ensure the continuity of FNARS operations in the event of primary Net Control (NC) failure through regular tests involving the transfer of NC responsibilities. The National Radio Net Test is a weekly test conducted by FEMA National Continuity Programs (NCP). The FNARS National Net Test is conducted every Tuesday between 9:00 AM and 12:30 PM, ET. It should be noted that this test plan is a working document, which will be refined regularly based on participant feedback and test results.

Table 1: Test Overview

Test	Classification	Test Date
FNARS National Radio Net	Unclassified	April 4, 2017
Start Time	**End Time**	**Net Control Phone Numbers**
9:00 AM, EDT	12:30 PM, EDT	(540) 535-2745 (540) 542-4368
Net Control Station	**Capabilities Tested**	**Test Coordinator**
Mt. Weather ALE Address (FCSFEM1)	HF ALE Voice, Data, and Phone Patch will all be available to test	Tom Cross (540) 542-2249 Thomas.Cross2@fema.dhs.gov

If you are unable to participate for any reason or have further questions related to the testing scenario, please contact the NCP COMMS Help Desk *prior to the test* at FEMA-NCP-COMMS@fema.dhs.gov or (877) 801-2088.

Test Windows:

In order to effectively test and validate HF capabilities, each FNARS site will be assigned a test window time. The test window times may be modified upon coordination with the test coordinator. ****PLEASE NOTE, two new test locations have been added: MERS Thomasville MOC and MERS Denton MOC****

Note: Please call MW Net Control at (540) 535-2745/(540) 542-4368 or email FEMA-NCP-COMMS@fema.dhs.gov if you are unable to call in during your scheduled test time.

Table 2: FNARS National Radio Net Test Window Times

Site	Time Zone	Start Time (ET)	End Time (ET)	Start Time (CT)	End Time (CT)	Start Time (MT)	End Time (MT)	Start Time (PT)	End Time (PT)
MERS Maynard (I)	ET	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM	6:00 AM	6:30 AM
MERS Maynard MOC (I)	ET	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM	6:00 AM	6:30 AM
FRC I	ET	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM	6:00 AM	6:30 AM
RO I	ET	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM	6:00 AM	6:30 AM
RO II	ET	9:30 AM	10:00 AM	8:30 AM	9:00 AM	7:30 AM	8:00 AM	6:30 AM	7:00 AM
MERS Frederick (III)	ET	9:30 AM	10:00 AM	8:30 AM	9:00 AM	7:30 AM	8:00 AM	6:30 AM	7:00 AM
RO-III	ET	9:30 AM	10:00 AM	8:30 AM	9:00 AM	7:30 AM	8:00 AM	6:30 AM	7:00 AM
FRC IV	ET	10:00 AM	10:30 AM	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM
MERS Thomasville (IV)	ET	10:00 AM	10:30 AM	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM
MERS Thomasville MOC	**ET**	**10:00 AM**	**10:30 AM**	**9:00 AM**	**9:30 AM**	**8:00 AM**	**8:30 AM**	**7:00 AM**	**7:30 AM**
RO IV	ET	10:00 AM	10:30 AM	9:00 AM	9:30 AM	8:00 AM	8:30 AM	7:00 AM	7:30 AM
RO V	CT	10:40 AM	11:20 AM	9:40 AM	10:10 AM	8:40 AM	9:10 AM	7:40 AM	8:10 AM
MERS Denton (VI)	CT	10:40 AM	11:20 AM	9:40 AM	10:10 AM	8:40 AM	9:10 AM	7:40 AM	8:10 AM
MERS Denton MOC	**CT**	**10:40 AM**	**11:20 AM**	**9:40 AM**	**10:10 AM**	**8:40 AM**	**9:10 AM**	**7:40 AM**	**8:10 AM**
FRC VI	CT	10:40 AM	11:20 AM	9:40 AM	10:10 AM	8:40 AM	9:10 AM	7:40 AM	8:10 AM
RO VII	CT	11:20 AM	11:40 AM	10:20 AM	10:40 AM	9:20 AM	9:40 AM	8:20 AM	8:40 AM
MERS Denver (VIII)	MT	11:20 AM	11:40 AM	10:20 AM	10:40 AM	9:20 AM	9:50 AM	8:20 AM	8:50 AM
MERS Denver MOC (VIII)	MT	11:20 AM	11:40 AM	10:20 AM	10:40 AM	9:20 AM	9:50 AM	8:20 AM	8:50 AM
FRC VIII	MT	11:20 AM	11:40 AM	10:20 AM	10:40 AM	9:20 AM	9:50 AM	8:20 AM	8:50 AM
RO IX	PT	12:00 PM	12:30 PM	11:00 AM	11:30 AM	10:00 AM	10:30 AM	9:00 AM	9:30 AM
MERS Bothell (X)	PT	12:00 PM	12:30 PM	11:00 AM	11:30 AM	10:00 AM	10:30 AM	9:00 AM	9:30 AM
MERS Bothell MOC (X)	PT	12:00 PM	12:30 PM	11:00 AM	11:30 AM	10:00 AM	10:30 AM	9:00 AM	9:30 AM
FRC X	PT	12:00 PM	12:30 PM	11:00 AM	11:30 AM	10:00 AM	10:30 AM	9:00 AM	9:30 AM

If you are unable to participate for any reason or have further questions related to the testing scenario, please contact the NCP COMMS Help Desk *prior to the test* at FEMA-NCP- COMMS@fema.dhs.gov or (877) 801-2088.

From: FEMA-NCP-COMMS
Sent: 12 Apr 2017 14:47:47 +0000
To: FNARS_NRN
Subject: FNARS NRN Monthly Test Summary (3_2017)
Attachments: FNARS Monthly Test Summary (3_2017).pdf

On behalf of FEMA NCP Continuity Communications Division Director, Antwane Johnson, please find the Monthly FNARS Test Report Summary for March 2017 attached for your information and review. The document has also been posted to the Test Reports Library of the FNARS Community Portal.

National Net Test Report Link

DHSExternal/FNARS+National+Radio+Network+%28NRN%29+Test+Reports+Library

If you or your colleagues wish to gain access to the FNARS Portal or email distribution list, please send a request to <mailto:FEMA-NCP-COMMS@fema.gov> FEMA-NCP-COMMS@fema.gov < <mailto:FEMA-NCP-COMMS@fema.gov> mailto:FEMA-NCP-COMMS@fema.gov> .

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Federal Emergency Management Agency
National Continuity Programs

FEMA National Radio System
Monthly Test Report Summary

March 2017

FEMA

For Official Use Only (FOUO)

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Purpose

The FEMA National Radio System (FNARS) Test Report provides the Continuity Manager with a report which is a consolidation of the FEMA National Radio System (FNARS) National Radio Net (NRN) and Regional Radio Net (RRN) weekly tests. Additional information is available by contacting the FEMA National Continuity Programs (NCP) Helpdesk at FEMA-NCP-COMMS@fema.dhs.gov.

1 FEMA National Radio System (FNARS)

The FNARS is a nationwide high frequency (HF) radio network that provides backup communications during continuity events. It serves as the primary, non-classified backup continuity communications capability among Federal, State, and territorial governments in times of national, natural, and civil emergencies. Its primary role is to provide communication capabilities to senior leadership enabling them to maintain command, control, and communications (C3) under all circumstances to ensure survival of our constitutional form of government and the continuation of the performance of National Essential Functions (NEFs).

1.1 FNARS Testing

The FNARS NRN Test is a weekly test coordinated by the FEMA FNARS Program Management Office (PMO) at the Mount Weather Emergency Operations Center (MWEOC) National Net Control station. The FNARS RRN tests are weekly tests coordinated by the five FEMA Federal Regional Centers (FRCs) located across the United States, enabling them to function as the net control for their respective RRNs. These tests consist of an Automatic Link Establishment (ALE) followed by a voice response. A second test exercising either data (i.e., text message capability) or phone patch is also conducted. The ALE and voice tests are performed each week; data and phone patch tests are performed every other week on a rotating basis (one week data, the following week phone patch).

The objectives of the FNARS Test and Exercise program are to:

- Maintain the highest level of network operator proficiency in employing the various network configurations of FNARS operations via a regimen of periodic exercises; and
- Test the FNARS Contingency Plan in the event of primary Net Control (NC) failure through the transfer of NC responsibilities

1.2 FNARS Test Evaluation and Reporting

A standardized set of evaluation criteria for FNARS tests has been established in order to organize key information about the performance of the network each week. The following guidelines were used when recording each net test:

- An attempt is made to connect to each station using HF ALE.
- If initial attempts to establish an ALE link are unsuccessful, secondary attempts are made later during the test window. Manual links are also made in coordination with Net Control and the participating FNARS stations.

- If a station operator is unable to participate in a scheduled test, test results with that station are shown in red and the station is listed as nonparticipating.

2 FNARS Participation and HF ALE Link

MWEOC National Net Control operators record FNARS station participation and HF ALE Link for all NRN tests. Each FRC radio operator records FNARS station participation and HF ALE Link for all RRN tests. This information is then forwarded to the FNARS PMO for consolidation. HF ALE Link (can the test station link to the receiving radio?), Participation (is there a live HF operator at the receiving station to perform the tests?), Data (can a typed text message be sent and received?), and Phone Patch (can the radio be successfully linked to a land line telephone at the receiving station?) are the metrics tracked as each indicates:

1. The availability for each FNARS station to establish an HF ALE Link
2. The HF operator's ability to perform the FNARS voice test
3. The HF operator's ability to send a data message
4. The HF operator's ability to establish a phone patch

When a station is called, an ALE link may be made to the receiving radio without a live operator, but in order to receive participation credit, or physically test voice, data, or phone patch capabilities, a live operator must be present for the test. For data and phone patch tests, if a station records at least one successful test during the reporting month, the station gets participation credit for that test.

3 FNARS Summary

In advance of the FNARS NRN and RRN tests, notifications were disseminated to participants prior to the test date. The notification included the scope of the test, participant responsibilities, Net Control authority, test participant call-in windows and point of contact information. Participants were asked to notify their primary Net Control prior to the scheduled event if they were unable to participate or required modifications to the proposed time window.

NRN participation throughout the month of March averaged **76.2%**. This calculation is based on the number of scheduled tests during the month divided by the number of tests at which a live operator was available and present during the test at the station receiving the call (indicated by the results shown in the Participation column in each set of test results). The MERS Denton MOC does not yet have equipment set up for testing; this station's test results will be shown as "N/A" until equipment is installed, and this was not counted against the overall NRN participation percentage. On March 14, a contingency test was performed from FRC VIII acting as Net Control for MWEOC. Information provided here is a summary of information provided in the comments section of individual test results, and from messages sent to the FEMA-NCP-COMMS mailbox during the month of March.

RRN participation throughout the month of March averaged **23.2%**. This calculation is based on the number of scheduled tests during the month divided by the number of tests at which a live operator was available and present during the test at the station receiving the call (indicated by the results shown in the

Participation column in each set of test results). FRC IV did not conduct testing this month due to disaster response activity, and FRC VI did not provide results from March 22 or 29. Other FRCs reported a lack of operators present at receiving stations to participate in tests, as well as unspecified equipment problems. There was also one canceled test due to unavailability of Net Control to conduct testing. Information provided here is a summary of information provided in the comments section of individual test results, and from messages sent to the FEMA-NCP-COMMS mailbox during the month of March.

To help offset situations where technical issues and deployed personnel prohibits FNARS testing, the FNARS PMO remains in active communication with each FRC and RO on the status of HF radio equipment and personnel availability.

The following charts provide summary details of the FNARS National Radio Network's (NRN's) and the Regional Radio Networks (RRNs') test and exercise results for March 2017, compiled from weekly test result data. Individual weekly test reports are available upon request.

Table 1: NRN Participation and HF ALE Station Performance

NRN Monthly Test Report Result Summary - March 2017														
Station	ALE Link				Participation				Voice				Data	Phone Patch
Scheduled Test Date (Tuesday test)	3/7	3/14	3/21	3/28	3/7	3/14	3/21	3/28	3/7	3/14	3/21	3/28	Monthly	Monthly
MERS Maynard (I)														
MERS Maynard MOC														N/A
FRC I														
RO I														
RO II														N/A
MERS Frederick (III)														N/A
RO III														
FRC IV														
MERS Thomasville (IV)													N/A	
MERS Thomasville MOC														N/A
RO IV														
RO V														
MERS Denton (VI)													N/A	N/A
MERS Denton MOC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FRC VI														
RO VII														
MERS Denver (VIII)														
MERS Denver MOC														N/A
FRC VIII														
RO IX														
MERS Bothell (X)														
MERS Bothell MOC														N/A
FRC X														

Legend	
	Yes
	No
N/A	Not Applicable

Note: If a station has participated in at least one successful data or phone patch test during the month, Data and Phone Patch will show green. Each week, stations have the opportunity to test both capabilities in addition to the regular voice test.

Also note that several stations do not have phone patch and/or data capability, and are shown as "N/A" for these tests. These stations are as follows: MERS Maynard MOC, MERS Thomasville MOC, MERS Denver MOC, MERS Bothell MOC, and MERS Frederick have no phone patch capability. RO II has phone patch capability, but does not currently have a phone line connected to test phone patch. MERS Thomasville has no data capability. MERS Denton has no phone patch or data capability; and MERS Denton MOC does not yet have equipment installed for testing and will be shown as N/A for all tests until installation is complete.

Stations Reporting Less Than 50% Test Participation:

FRC IV – NC reported no contact with operator on March 7 (left POC message) and unable to link on March 21. Connected on alternate ALE address on March 28. No additional explanation was provided.

RO V – NC reported an unknown technical problem causing an inability to link with receiving station on March 7. No additional explanation was provided.

Table 2: RRN Participation and HF ALE Station Performance by FRC

FRC I Monthly RRN Test Result Summary - March 2017																	
Station	ALE Link					Participation					Voice					Data	Phone Patch
Scheduled Test Date (Thursday Test)	3/2	3/9	3/16	3/23	3/30	3/2	3/9	3/16	3/23	3/30	3/2	3/9	3/16	3/23	3/30	Monthly	Monthly
Region I																	
Connecticut	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Maine	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Massachusetts	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
New Hampshire	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Rhode Island	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Vermont	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Region II																	
New Jersey	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
New York	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
PR-CAO	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
St. Croix	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
St. John	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
St. Thomas	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Region III																	
Delaware	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Maryland	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Pennsylvania	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Virginia	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Washington, DC	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
West Virginia	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Legend	
●	Yes
●	No/Not applicable

Note: If a station has participated in at least one successful data or phone patch test during the month, Data and Phone Patch will show green.

Stations Reporting Less Than 50% Test Participation:
Connecticut, Vermont, New Jersey, New York, PR-CAO, St. Croix, St. John, St. Thomas, Delaware, Maryland, Pennsylvania, Washington DC, and West Virginia reported less than 50% participation. No explanation was provided.

FRC IV Monthly RRN Test Result Summary - March 2017

Station	ALE Link					Participation					Voice					Data	Phone Patch
Scheduled Test Date (Thursday Test)	3/2	3/9	3/16	3/23	3/30	3/2	3/9	3/16	3/23	3/30	3/2	3/9	3/16	3/23	3/30	Monthly	Monthly
Region IV																	
Alabama																	
Florida																	
Georgia																	
Kentucky																	
Mississippi																	
North Carolina																	
South Carolina																	
Tennessee																	

Legend	
	Yes
	No/Not applicable

Note: If a station has participated in at least one successful data or phone patch test during the month, Data and Phone Patch will show green.

Stations Reporting Less Than 50% Test Participation:
No tests were conducted for the month of March by FRC IV due to disaster response activity.

FRC VI Monthly RRN Test Result Summary - March 2017																	
Station	ALE Link					Participation					Voice					Data	Phone Patch
Scheduled Test Date (Wednesday Test)	3/1	3/8	3/15	3/22	3/29	3/1	3/8	3/15	3/22	3/29	3/1	3/8	3/15	3/22	3/29	Monthly	Monthly
Region VI																	
Arkansas																	N/A
Louisiana																	
New Mexico																	
Oklahoma																	
Texas																	
Region VII																	
Iowa																	
Kansas																	
Missouri																	
Nebraska																	

Legend	
	Yes
	No
N/A	Not Applicable

Note: If a station has participated in at least one successful data or phone patch test during the month, Data and Phone Patch will show green. Also note: Arkansas station does not have phone patch capability, so will be marked "N/A" for this test.

Stations Reporting Less Than 50% Test Participation:

Note, no test results were provided from FRC VI for March 22 or 29. FRC VIII reported check-ins with Iowa on March 1 and 29, and with Missouri on March 1. Arkansas, New Mexico, Texas, Iowa, Kansas, and Nebraska reported less than 50% test participation. No explanation was provided.

FRC VIII Monthly RRN Test Result Summary - March 2017																	
Station	ALE Link					Participation					Voice					Data	Phone Patch
Scheduled Test Date (Wednesday Test)	3/1	3/8	3/15	3/22	3/29	3/1	3/8	3/15	3/22	3/29	3/1	3/8	3/15	3/22	3/29	Monthly	Monthly
Region V																	
Illinois																	
Indiana																	
Michigan																	
Minnesota																	
Ohio																	
Wisconsin																	
Region VIII																	
Colorado																	N/A
Montana																	N/A
North Dakota																	
South Dakota																	
Utah																	
Wyoming																	

Legend	
	Yes
	No
N/A	Not Applicable

Note: If a station has participated in at least one successful data or phone patch test during the month, Data and Phone Patch will show green. Also note: Colorado and Montana do not currently have telephone lines installed for the phone patch test, so this capability is marked "N/A."

Stations Reporting Less Than 50% Test Participation:

Illinois – FRC reported successful links, but no operator response on March 1, 8, and 15; reported no link on March 22.

Michigan – FRC reported successful links; no explanation was provided for lack of participation.

Ohio – FRC reported successful links; no response on March 8, 15, and 22.

Wisconsin – FRC reported successful links; no explanation was provided for lack of participation.

Colorado – FRC reported successful links, but no operator onsite available for other tests.

Montana – FRC reported successful links, and data mode was available. No explanation was provided for reduced participation.

Wyoming – FRC reported successful links, but no operator onsite available for other tests.

FRC X Monthly RRN Test Result Summary - March 2017														
Station	ALE Link				Participation				Voice				Data	Phone Patch
Scheduled Test Dates (Tuesday test)	3/7	3/14	3/21	3/28	3/7	3/14	3/21	3/28	3/7	3/14	3/21	3/28	Monthly	Monthly
Region IX														
Arizona														
California														N/A
CNMI-Saipan														N/A
Guam														N/A
Hawaii														
Nevada														
Region X														
Alaska														
Idaho														
Oregon														
Washington														

Legend	
	Yes
	No
N/A	Not Applicable

Note: If a station has participated in at least one successful data or phone patch test during the month, Data and Phone Patch will show green. Note: California, CNMI-Saipan, and Guam do not currently have telephone lines connected to perform phone patch tests; this capability is marked "N/A" for these locations.

Stations Reporting Less Than 50% Test Participation:

Note: FRC X reported there would be no operator available to conduct state tests on March 14 due to other requirements, so no test was conducted on that date.

Arizona – Site checked in with Region VIII on March 1 (test day for FRC VIII) and 7. No explanation was provided for lack of participation on other dates.

CNMI-Saipan – No explanation was provided.

Guam – No explanation was provided.

Hawaii – FRC reported a successful link, but no answer from the receiving station on March 7; reported unable to link on March 21 and 28.

Nevada – FRC reported a successful link, but no answer from the receiving station on March 7; reported unable to link on March 21 and 28.

Alaska – FRC reported unable to link on March 7 and 21; on March 28, a successful link was reported but there was no answer from the receiving station.
Idaho – Reported unable to link for all tests during the month of March.
Oregon – Reported unable to link for all tests during the month of March. On March 21, an unspecified equipment failure was reported.
Washington – FRC reported successful links, but no operator available for additional tests.

Point of Contact

Help Desk
(202) 212-2142
FEMA-NCP-COMMS@fema.dhs.gov

From: FEMA-NCP-COMMS
Sent: 14 Apr 2017 13:47:06 +0000
To: FNARS_NRN
Cc: Cross, Thomas
Subject: Updated FNARS CONOPS for Regional Distribution
Attachments: FNARS_CONOPS_signed.pdf, CONOPS changes from 2015 version.docx

Attached please find an updated FNARS CONOPS, which replaces the 2015 FNARS CONOPS. The NCP Continuity Communications Division has also included an overview of changes from the 2015 version. A copy is also found on the SharePoint site <https://intranet.fema.net/org/pnp/ncp/oaa/collab/RSL/Miscellaneous/Forms/AllItems.aspx?RootFolder=%2Forg%2Fpnp%2Fncp%2Foaa%2Fcollab%2FRSL%2FMiscellaneous%2FFNARS%20CONOPS&FolderCTID=0x0120001475FA047410AF428AEB94E27607EB5D&View=%7b837145B8-134A-40FB-ABEC-F54826F164F1%7d&InitialTabId=Ribbon%2EDocument&VisibilityContext=WSSTabPersistence> .

Please distribute within your Region to those to whom it is applicable, such as your state EOCs.

If you have any questions, please contact Tom Cross (<mailto:Thomas.cross2@fema.dhs.gov> Thomas.cross2@fema.dhs.gov; 540.542.2249).

FEMA-NCP-Comms

Communications Management Branch

Continuity Communications Division

National Continuity Programs

Federal Emergency Management Agency

Department of Homeland Security

<mailto:FEMA-NCP-COMMS@FEMA.DHS.GOV> FEMA-NCP-COMMS@FEMA.DHS.GOV

FEMA National Radio System Concept of Operations

March 2017

FEMA

For Official Use Only

VERSION HISTORY			
Date	**Version**	**Approver**	**Summary of Changes**
01/2015	1	TC	Official writing of document.
04/2015	2	TC	Rewording of body and formatting of entire document.
03/2016	3	TC	Edit to support Out-of-Band activation and supporting sections.
06/2016	4	TC	Edit and incorporation of review comments.
09/2016	5	TC	Revision based on FNARS changes.
11/2016	6	TC	Minor edits.
03/2017	7	TC	Updates to include security accreditation package information; minor edits

Executive Summary

The Federal Emergency Management Agency (FEMA) carries out its mission to support our citizens and first responders to ensure Americans work together to build, sustain, and improve our capabilities to *prepare for, protect against, respond to, recover from, and mitigate all hazards* that could potentially befall the Nation. To effectively collaborate and coordinate the management and implementation of federal, state, and territorial government resources and capabilities requires a resilient, survivable communications platform, independent from but interconnected with normal communications infrastructure.

FEMA's National Continuity Programs Directorate (NCP), in accordance with Presidential Policy Directive 40 (PPD 40), *National Continuity Policy*, maintains the FEMA High Frequency Continuity System (FHFCS), a suite of unclassified High Frequency (HF) radio communications systems designed to provide resilient capabilities across the full spectrum of potential hazards. The FEMA National Radio System (FNARS) is a key component of the FHFCS portfolio, and is supported with commercial-off-the-shelf (COTS) equipment installed at the Mount Weather Emergency Operations Center (MWEOC), Federal Regional Centers (FRCs), Regional Offices (ROs), the Mobile Emergency Response Support (MERS) detachments, as well as the emergency operations centers (EOCs) of the 50 states, the District of Columbia, and the U.S. Territories.

FNARS provides the FEMA Administrator and executive leadership with resilient voice and messaging capabilities for command, control, and communications (C3); continuity of operations (COOP) of FEMA assets and resources; and communication, coordination, and collaboration with Regional Administrators and state/territorial emergency management partners in response to all hazards.

This *Concept of Operations (CONOPS)* serves as the foundation for the development of FNARS operational plans and procedures, and will be reviewed and updated as necessary to ensure it is accurate, current, and provides appropriate guidance to ensure the program demonstrates maximum benefit to the Nation's continuity and security.

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1.0 Introduction

FNARS is a High Frequency (HF) radio system providing communications transport between nationally-distributed ground stations in times of degraded or destroyed telecommunications capabilities within the normal communications infrastructure. FNARS was developed to serve two purposes:

1. Enable command, control, and communications (C3) among the agency and its elements throughout continuity events; and
2. Communicate and coordinate with disaster response and recovery mission partners from FEMA Headquarters (HQ), FEMA Regions, states, and territories in support of the continual performance of the National Essential Functions (NEFs).

FNARS is a key component of the FEMA High Frequency Continuity System (FHFCS), a suite of HF communications systems managed and operated by the FEMA National Continuity Programs Directorate (NCP).

1.1 Background

National policy has long recognized the importance of emergency communications programs in protecting the continuity of the Nation. Government leaders developed robust legislation and executive policy aimed at protecting the ability of the Nation's leaders and emergency responders to access alternate communications systems in times of emergency through programs such as FNARS. See Appendix C on authorities and references that govern this document.

As a result, the Executive Office of the President, Office of Civil and Defense Mobilization, developed the predecessor to FNARS in 1958, with the initial procurement of a nationwide HF system called National Communications System 2 (NACOM2). Leadership over the system later transferred to the Office of Civil Defense - U.S. Army, and then to the Defense Civil Preparedness Agency (DCPA), and became known as the Civil Defense National Radio System (CDNARS) before becoming FNARS with the 1979 formation of FEMA. Today, FNARS is an HF radio system managed by NCP to enable the agency's mission of *supporting our citizens and first responders to ensure that as a nation we work together to build, sustain, and improve our capability to prepare for, protect against, respond to, recover from, and mitigate all hazards."*[1]

HF radio functions independently of terrestrial and space-based (satellite) infrastructure, and offers a highly-resilient continuity communications capability in the event of compromise or degradation to normal communications platforms and infrastructure. Sources of potentially negative impacts may include hostile attack, natural disaster, or widespread commercial service outage. HF radio provides global coverage and requires minimal infrastructure to operate, while providing access to on-demand, point-to-point voice and messaging communications capabilities. All associated FNARS equipment (including hardware, such as HF radios, antennas, ancillary devices, and software) are government-owned and nationally distributed. FNARS radios are installed at the Mount Weather Emergency Operations Center (MWEOC); each Federal Regional Center (FRC) and Regional Office (RO); all

[1] Federal Emergency Management Agency, *Mission*. https://www.fema.gov/about-agency. Accessed 3/10/2017.

Mobile Emergency Response Support (MERS) detachments; and the Emergency Operations Centers (EOCs) of all 50 states, the District of Columbia, and U.S. Territories.

1.2 Mission

FNARS is engineered to meet FEMA's requirements for a resilient, survivable communications platform, independent from but interoperable with normative communications systems. The program is designed to meet core capabilities and needs identified within the FEMA *National Preparedness Goal* and *National Planning Framework*' (public information and warning, operational coordination, operational communications, and situational assessment). FNARS serves as a backup to commercial telecommunications and messaging capabilities and is accessible 24 hours a day, 7 days a week (24/7).

1.3 System Overview and Capability

FNARS is an unclassified communications system designed for utilization, either preemptively or reactively, to any event that compromises or potentially compromises the normal communications infrastructure. The FNARS system includes the following capabilities:

- HF Automatic Link Establishment (ALE), where the radio is utilized to establish a link to another FNARS radio on the system. The HF ALE capability meets MIL STD 188.141b.
- Voice capability, where voice messages are transmitted via the radio.
- Text messaging capability, where text messages can be sent to other FNARS stations through the FNARS radio via a standalone workstation.
- Ability to provide an interconnect to the PSTN through an electronic telephone patching network.

The events and hazards against which FNARS mitigates impacts on FEMA's continuity include:

- Natural disasters (e.g., hurricanes, earthquakes, tornados)
- Terrorist attacks
- Acts of war by foreign powers
- Large-scale communications infrastructure stress or failure (e.g., the 2003 Northeast blackout)
- Cyber-attack against communications systems or infrastructure
- National Special Security Events (NSSEs)
- National Weather Warnings

FNARS operates independently of terrestrial and space-based (satellite) infrastructure, and serves as a resilient backup continuity communications capability. Its meshed network of voice and data communications capabilities (e.g., HF data, phone patch) provides long-range coverage while requiring minimal infrastructure. Standard FNARS equipment includes HF radios, antennas, and other ancillary devices such as standalone workstations, power amplifiers, and backup power supply units.

2.0 FNARS Networks

FNARS comprises two networks ("nets"): the National Radio Network (NRN) and the compilation of Regional Radio Networks (RRNs), each with unique missions and user communities.

2.1 National Radio Network

The NRN is dedicated to FEMA C3 throughout the United States. FEMA elements, including agency leadership and regional leadership, utilize the NRN to maintain C3 in degraded or destroyed communications environments. The NRN encompasses 10 FEMA regions, with MWEOC serving as the primary Network Control Station (NCS), and five FRCs that can act as alternate NCSs in certain circumstances. At least once annually, a contingency test is performed (as part of the regular weekly NRN test) in which Net Control, usually at MWEOC, is assumed by one of these alternate locations and the test is conducted from that alternate location. The Denver MERS Operations Center (MOC) is also available 24/7 to activate FNARS in emergency and test/exercise events (See **Figure 1** for depiction of FNARS NRN map). The NRN involves the following group of participants, as shown in **Table 1**.

Region	MERS Detachment	MOC	Federal Regional Center	Regional Office
Region I	MERS Maynard	MERS Maynard MOC	FRC I	RO I
Region II				RO II
Region III	MERS Frederick			RO III
Region IV	MERS Thomasville		FRC IV	RO IV
Region V				RO V
Region VI	MERS Denton		FRC VI	
Region VII				RO VII
Region VIII	MERS Denver	MERS Denver MOC	FRC VIII	
Region IX				RO IX
Region X	MERS Bothell	MERS Bothell MOC	FRC X	

Table 1 – NRN Participants by Region

2.2 Regional Radio Networks (RRNs)

The RRNs are dedicated to facilitating communications between FEMA and state/territorial emergency management partners to coordinate disaster response and recovery activities in degraded or destroyed communications environments. Incidents that affect a limited area of the country may prompt FEMA leadership to activate an RRN. Five FRCs, located in Maynard, Massachusetts; Thomasville, Georgia; Denton, Texas; Denver, Colorado; and Bothell, Washington, host FNARS equipment, enabling them to function as Net Control (NC) for their respective RRNs (see **Figure 2**). The RRNs are organized into the following groups of participants, as shown in **Table 2**.

NC Site	Participating Locations			
Net Control - FRC Maynard (Region I)	• Connecticut • Delaware • Maine • Maryland • Massachusetts	• New Hampshire • New Jersey • New York • Pennsylvania	• Rhode Island • Vermont • Virginia • West Virginia	• Washington, DC • St. Croix (USVI) • St. John (USVI) • St. Thomas (USVI)
Net Control - FRC Thomasville (Region IV)	• Alabama • Florida	• Georgia • Kentucky	• Mississippi • North Carolina	• South Carolina • Tennessee
Net Control - FRC Denton (Region VI)	• Arkansas • Iowa • Kansas	• Louisiana • Missouri	• Nebraska • New Mexico	• Oklahoma • Texas
Net Control - FRC Denver (Region VIII)	• Colorado • Illinois • Indiana	• Michigan • Minnesota • Montana	• North Dakota • Ohio • South Dakota	• Utah • Wisconsin • Wyoming
Net Control - FRC Bothell (Region X)	• Alaska • Arizona • California	• Hawaii • Idaho • Nevada	• Oregon • Washington	• CNMI • Guam

Table 2 – FRC-Assigned RRN Stations

2.3 Activation Authorities

The following personnel serve as activation authorities, and any may independently direct activation of an FNARS network:

1. Administrator, FEMA
2. Deputy Administrator, FEMA
3. Deputy Administrator, Protection and National Preparedness, FEMA
4. Associate Administrator, Response and Recovery, FEMA
5. Deputy Associate Administrator, Response and Recovery, FEMA
6. Assistant Administrator, NCP, FEMA
7. Deputy Assistant Administrator, NCP, FEMA
8. Regional Administrator
9. Deputy Regional Administrator
10. Continuity Communications Division (CCD) Director, NCP, FEMA
11. CCD/Communications Architecture and Integration (CAI) Deputy Director, NCP, FEMA
12. CCD/CAI/Communications Management Branch (CMB) Chief, FEMA

2.4 Activation Roles and Responsibilities

This section outlines the roles and responsibilities of the stakeholders involved in the activation process.

- **Activation Authority:** May initiate activation as listed previously.

- **National Watch Center (NWC):** The NWC may facilitate the activation process. The individual who initiates activation of FNARS may use radio devices provided by the NWC to contact FNARS stakeholders. The NWC may contact the FEMA Operations Center (FOC) or the Denver MOC with instructions to activate FNARS.
- **FOC:** The FOC serves as a conduit to relay FNARS activation orders to the Denver MOC, and to recall NCP/CCD/CMB personnel to assume C3 of the system.
- **Denver MOC:** The MOC is responsible for responding to FNARS activation orders issued directly by senior leadership or via the NWC, the FOC, or other authorized entities. If activation orders did not previously pass through the FOC, the MOC will contact the FOC with instructions to recall NCP/CCD/CMB personnel.
- **NCP Continuity Readiness Cell (CRC):** While the CRC is not included in the primary notification path for FNARS activation, the FOC may enlist assistance from the CRC to recall NCP/CCD/CMB personnel during normal business hours (Monday–Friday, 8:00 AM – 4:30 PM ET).
- **NCP Joint Rendezvous Operations Control Center (JROCC):** While the JROCC is not included in the primary notification path for FNARS activation, the FOC may enlist assistance from the JROCC to recall NCP/CCD/CMB personnel during normal business hours (Monday–Friday, 8:00 AM – 4:30 PM ET).
- **NCP Continuity Communications Division (CCD):**
  - Assumes C3 of FNARS as soon as is practicable after the Denver MOC has activated the system.
  - Responds to FNARS activation requests in accordance with the FNARS CONOPs.
  - Provides training to NWC and FOC personnel on HF operations.
  - Maintains and updates appropriate HF radio operations documentation, to include the FNARS Standard Operating Procedure, operating information, call-sign listings, and a current list of Radio Room operators with their emergency contact information.

2.5 Conditions for Activation

The NRN and RRN are generally activated when communications between state/territories, MERS, ROs, FRCs, and/or FEMA leadership have been or are likely to become disrupted. An RRN may also be activated when, according to the *Robert T. Stafford Disaster and Emergency Assistance Act*, a major natural or manmade disaster occurs that results in degraded or destroyed communications. A state/territory EOC may make a request to the regional activation authority to activate the assigned RRN.

If the Continuity of Government Readiness Condition (COGCON) level changes, FNARS may be activated. Refer to the COGCON Matrix in Appendix E for activation timelines. **Figures 1** and **2** show the NRN and Regional Radio Networks (RRNs) respectively by region. **Figure 3** shows the FNARS activation workflow for both NRN and the RRNs. Details set forth in Section 3 provide additional information concerning roles and responsibilities of the groups and facilities involved in the activation/use of FNARS.

2.6 Activation/Deactivation Procedures

2.6.1 Activation

When a real-world event or exercise simulation occurs that requires senior leadership to reach officials on the national and state or regional levels:

1. The activation authority requests activation of FNARS by contacting the NWC, the FOC, the Denver MOC, or any other authorized entity (OAE) he/she deems appropriate.
2. The request is processed through commercial or out-of-band (OOB) methods. Capabilities listed (as applicable by location):

   If responding to an event that is pending (e.g., adverse weather event such as a hurricane):
   - FEMA Enterprise Network via email
   - FEMA Emergency Notification System (ENS)
   - Commercial lines (e.g., cell phones, land line telephone)

   If responding to an event that has occurred without warning (e.g., terrorist attack):
   - National Response Network UHF Line-Of-Sight (LOS) communications (NRN-U)
   - Strategic Network (STRATNET) Ultra High Frequency (UHF) Land Mobile Radio (LMR)
   - Broadband Global Area Network/Satellite Communications (BGAN/SATCOM)
   - NRN HF communications

   a. If notified via senior leadership, the NWC, or OAE, the FOC will contact the Denver MOC with instructions to activate FNARS and assume temporary C3 until NCP/CCD/CMB has been recalled.
   b. Once activated, the MOC will transmit the message traffic or send notification of the activation to affected FNARS stations and other relevant parties. The activation message will include the Activation Authority and the Date-Time group.
   c. The FOC will recall NCP/CCD/CMB via the ENS, CMB Conference Bridge, satellite phone, or land mobile radio/paging solution (future) to return to duty to assume C3 of FNARS.
   d. Denver MOC will assume temporary C3 and Net Control, activate FNARS, and contact appropriate regional assets.
3. If Denver MOC is notified to activate directly by senior leadership, it will:
   a. Assume temporary C3 and Net Control, activate FNARS, and contact appropriate regional assets.
   b. Notify the FOC to recall NCP/CCD/CMB via commercial lines, NRN-U/Public Switched Telephone Network (PSTN), or NRN-HF.
4. Once NCP/CCD/CMB has been recalled, it will assume C3, notify Denver MOC (via commercial lines, NRN-U/PSTN, or NRN-HF) it has activated National Net Control at MWEOC, and resume contact with appropriate regional assets.
5. If senior leadership contacts an OAE, it will contact the FOC or the MOC to initiate the procedures outlined.

6. Finally, the FNARS authentication tables may be utilized as appropriate to validate station identity for FNARS messages.

2.6.2 Deactivation

The deactivation process begins when the activation authority determines FNARS capabilities are no longer required to maintain effective C3 of FEMA's responsibilities in an emergency situation.

To deactivate FNARS, the Network Control Station (NCS) Operator will:

1. Utilize FNARS to contact stations via voice or chat to deliver the deactivation message.
2. Confirm all stations received the Network Deactivation Message.
3. Return radios to Automatic Link Establishment (ALE) Scan and initiate Radio Room shutdown procedures.
4. Compile all traffic logs and submit them to the FNARS Program Manager.

NCP/CCD/CMB will provide a standardized template for reporting results of FNARS communications.

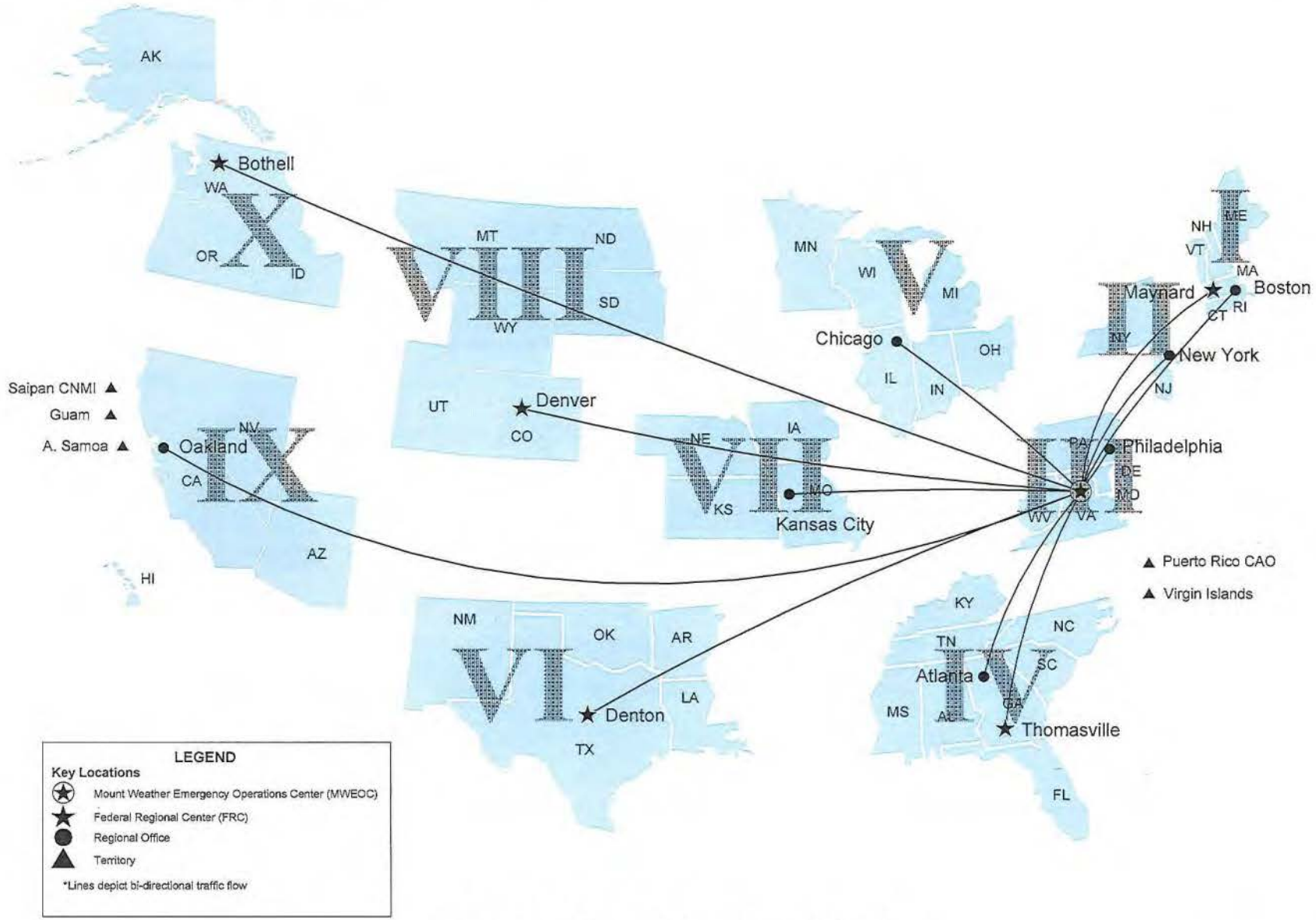

Figure 1 – FNARS National Radio Network (NRN)

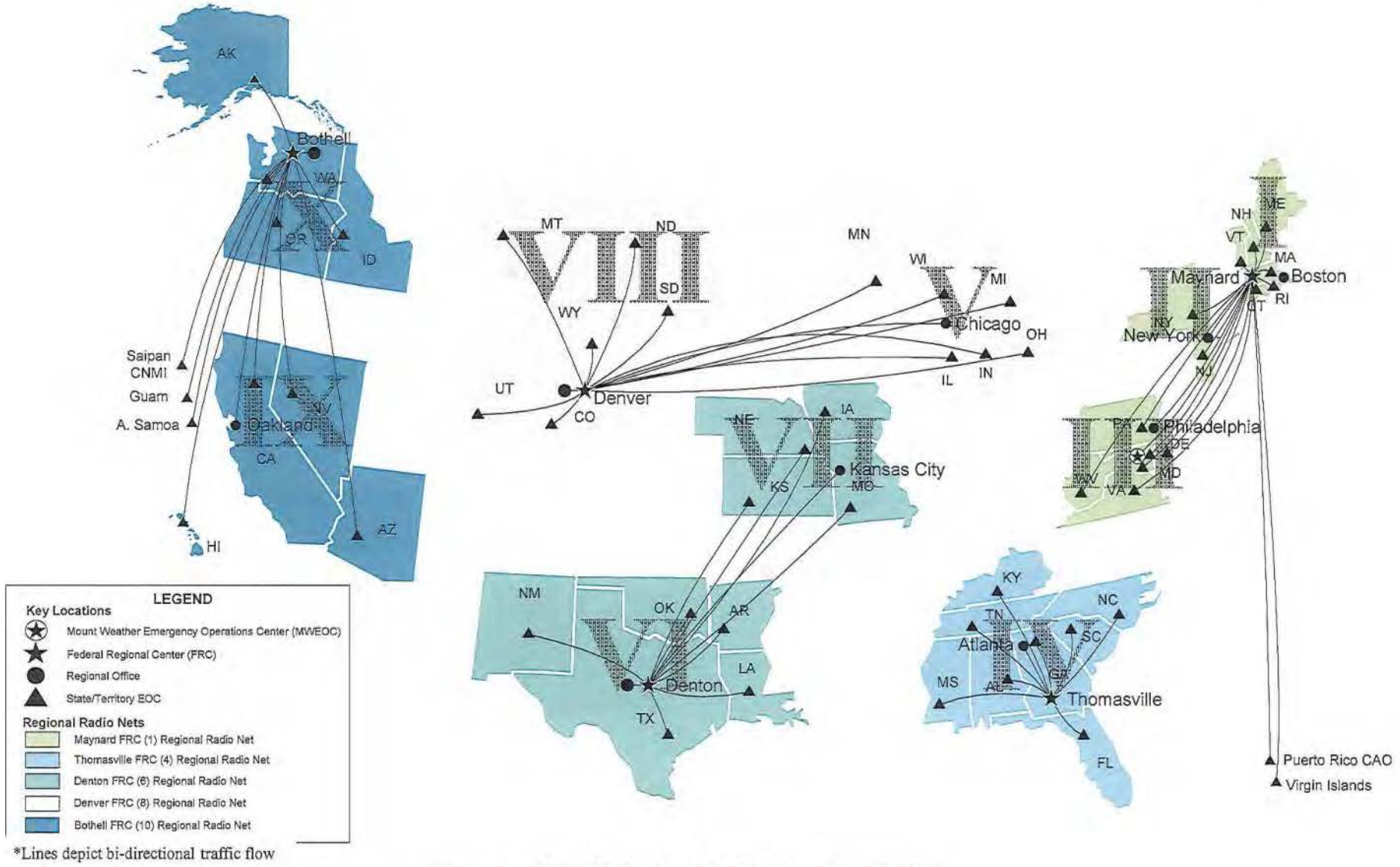

Figure 2 – FNARS Regional Radio Networks (RRNs)

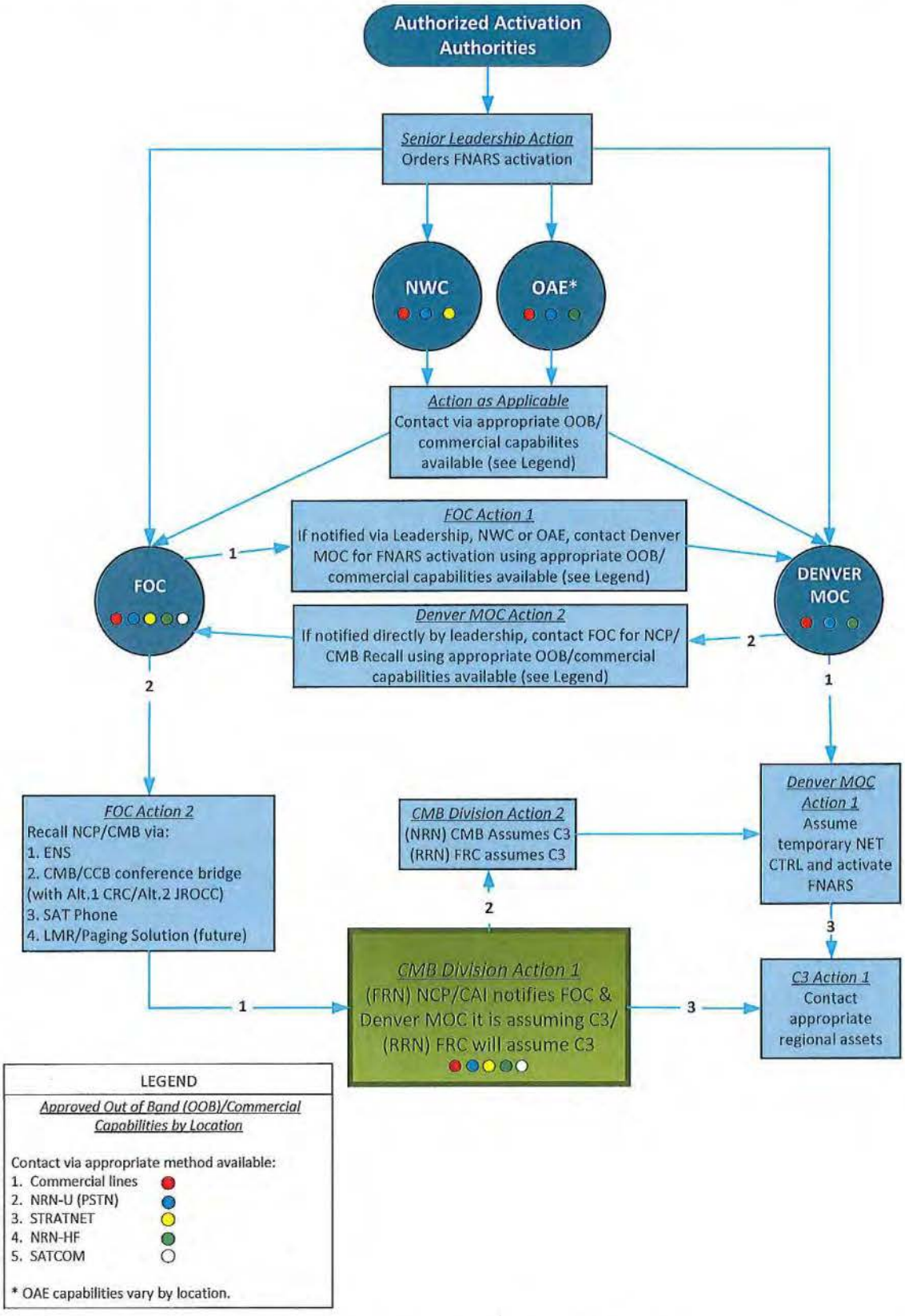

Figure 3 – FNARS Activation Workflow

2.7 Protective Measures

Many natural and manmade occurrences can disrupt HF communications, such as lightning strikes, solar flares, and power outages. FNARS uses various tools to mitigate the potential damaging effects on the system caused by these events. Antenna systems can feature lightning protection devices that diffuse the electrical charge of the strike, maintaining the integrity of the antenna system, as well as preventing power surges to the equipment. Solar activity can disrupt the earth's atmosphere, potentially resulting in degraded HF abilities. FNARS uses propagation methods to mitigate any effects caused by solar events. Each radio is installed with an uninterrupted power source (UPS) should a power outage occur in the building housing the radio. The UPS will automatically activate, allowing continued communications until emergency power generators are activated and commercial power is restored. The UPS also provides an added measure of protection against power surges and spikes on the commercial grid.

In addition to using its own set of tools to maintain operations during an event, FNARS also utilizes the services of the National Oceanic and Atmospheric Administration (NOAA)/National Weather Service (NWS) Space Weather Prediction Center, which provides alerts and warnings for future disturbances that could affect system operations. Once an alert/warning is received, FNARS Program Management Office (PMO) conducts an analysis to determine the impact on current and future system operations. See Appendix F for the NOAA Space Weather Scale. For up-to-date space weather information, go to the NOAA Space Weather Prediction Center website.

2.8 Outage Reporting

The PMO reports major system outages to the FEMA NOC at FEMA-NOC@fema.dhs.gov or (540) 542-4001.

3.0 Roles and Responsibilities

In order to ensure the successful operation of FNARS, coordination and oversight must occur among several stakeholder groups as well as geographically dispersed facilities. The following sections briefly describe each group or facility and their role(s) in supporting FNARS.

3.0.1 FEMA High Frequency Continuity System (FHFCS) PMO (System Owner)

FEMA NCP CCD is the high-level system owner of the FNARS program. Ultimately, the FHFCS PMO, a group within CCD, is directly responsible for FNARS program operation, providing oversight, management, and appropriate resources. The PMO assigns a Net Control (NC) contact who assumes responsibility for operational coordination, and directing and controlling all traffic on FNARS's nets. The PMO carries out the FNARS program management functions and is responsible for providing programmatic oversight, including policy-making decisions ranging from project engineering to property management functions for all national security and emergency preparedness (NS/EP)-related HF programs. The FHFCS PMO provides the following functions for FNARS:

1. **Program Administration:** Responsibilities include providing program management and oversight for the FNARS program; conducting risk management assessments; ensuring

adherence to program performance measures; performing regular status assessments of all FNARS HF assets deployed or in storage at the national, regional, and state/territory levels; and coordinating the logistics of installation or decommissioning activities for FNARS equipment with on-site facility managers and FEMA contacts at the national, regional, and state/territory levels.

2. **Technical Engineering:** Responsibilities include providing engineering support for all antennas, radios, and software for the FNARS program, including but not limited to providing technical expertise and coordinating configuration change management across all aspects of the system.

3. **Operations:** Responsibilities include ensuring the operational capability of the system at all times, as well as providing guidance on how the system functions and user training to all participants. As directed, the Operations team physically operates the system during hazard events and disasters, tests and exercises, and NSSE activities.

4. **Maintenance:** Responsibilities include providing maintenance support on all antennas, radios, and software for the FNARS program as well as ancillary devices.

5. **Security:** Responsibilities include providing policy guidance for FNARS, conducting system certification and accreditation (C&A), and in consultation with the FNARS Information Systems Security Officer (ISSO) ensuring all FNARS logical, physical, and communications security (COMSEC) equipment adheres to DHS and FEMA standards. In cooperation with the System Owner, the ISSO prepares and submits the system security package for approval to operate. The ISSO also advises the System Owner through all phases of the system engineering life cycle (SELC) regarding security.

3.0.2 National Watch Center

The National Watch Center (NWC) maintains 24/7 national situational awareness of potential, developing, or ongoing situations that may require a coordinated federal response. At the direction of any of the activation authorities listed previously, the NWC will notify the FOC of the activation of FNARS. The NWC also relays any message traffic related to the activation.

3.0.3 FEMA Operations Center

FEMA Operations Center (FOC) functions include maintaining 24/7 situational awareness, issuing notifications and warnings, and coordinating operational support. At the direction of any of the activation authorities listed previously, the FOC may initiate activation of FNARS by receipt of such notification and the communication of the intent to activate to the Denver MOC (24/7 operation).

3.0.4 MERS Operations Centers

FEMA maintains six MERS detachments, operating five MERS Operations Centers (MOCs) that provide mobile communications support during hazard events or disasters. The MOCs provide 24/7 FNARS monitoring. MERS Denver is the primary MOC location for FNARS (i.e., first communication requested by an activation authority will be directed to the Denver MOC), with two secondary MOCs located in Maynard, Massachusetts, and Bothell, Washington and two additional MOCs slated for future operational capability located in Thomasville, Georgia, and Denton, Texas. At the direction of any of the activation authorities listed previously, directly or via the FOC, the MOC may initiate activation of FNARS by receipt of such notification.

3.1 Operational Capabilities

3.1.1 Mount Weather Emergency Operations Center

FEMA's Mount Weather Emergency Operations Center (MWEOC) serves as the FNARS National NC station and is responsible for directing and controlling all communications on the FNARS NRN. As the National NC, MWEOC is responsible for the control and coordination of the NRN's telecommunications functions.

3.1.2 Federal Regional Centers

The Federal Regional Centers (FRCs) serve as the Regional NC station(s) for the RRNs and are therefore responsible for the coordination, execution, and providing documentation of weekly RRN tests to the PMO. Additionally, FRCs assist the PMO with coordination of technical support for FNARS assets within their designated regions and participate in weekly FNARS NRN tests. Within the RRN, the five FRCs are responsible for the state/territory EOCs within their respective nets. FRCs control message traffic within the nets and grant permission for their respective stations to contact one another.

FRCs relay all communications for their respective regions to National NC when operated within the NRN. FRCs may be tasked to serve as Alternate National NC centers in the event the Primary National NC is inoperable or unavailable. Due to this requirement, FRCs are equipped with robust and interoperable equipment to support a variety of scenarios, enabling them to seamlessly substitute for MWEOC should circumstances warrant. The FRCs offer the following capabilities in support of FNARS, above and beyond what can be provided by a regional office:

Reliability: Equipped with robust HF radio equipment comparable to the National NC to allow for optimal operational capabilities.

Availability: Integrated system redundancies ensuring continuous availability of the system; dispersed placement of facilities to sustain NC functions in the event of a significant geographical impact.

Maintainability: Sufficient and trained personnel to ensure any necessary operations and maintenance can be conducted onsite in an efficient manner.

Sustainability: Geographically dispersed locations with redundant capabilities means the loss of one or more location's capability does not impact the entire system's operation.

The National NC ensures the FNARS network operates efficiently. When an Alternate National NC assumes control, the Alternate becomes responsible for accomplishing all functions normally performed by the Primary National NC.

FRCs receive designation as Alternate NCs in the following sequence, as available:

1. FRC Denver
2. FRC Denton
3. FRC Maynard
4. FRC Thomasville
5. FRC Bothell

3.1.3 FEMA Regional Offices

The 10 FEMA Regional Offices (ROs) are located across the country, with three co-located at FRCs. FEMA ROs assist NCP with administering FNARS programmatic policies at the state and territory levels. ROs also participate in weekly FNARS tests for the national radio nets. The locations of FEMA's ROs are as follows, as shown in **Table 3**.

Regional Office Locations	
Region I - Boston, MA	Region VI - Denton, TX
Region II - New York, NY	Region VII - Kansas City, MO
Region III - Philadelphia, PA	Region VIII - Denver, CO
Region IV - Atlanta, GA	Region IV - Oakland, CA
Region V - Chicago, IL	Region X - Bothell, WA

Table 3 – FEMA Regional Offices

3.1.4 Mobile Emergency Response Support Detachments

The primary function of Mobile Emergency Response Support' (MERS') in disaster response operations involves communications support. MERS can deliver voice, data, and video services in support of response officials. MERS detachments participate in the weekly FNARS tests for the NRN and relay any technical issues directly to the FNARS PMO. The locations of the six MERS detachments nationwide are as follows, as shown in **Table 4**.

MERS Detachment Locations	
Maynard, MA (Region I)	Denton, TX (Region VI)
Frederick, MD* (Region III)	Denver, CO (Region VIII)
Thomasville, GA (Region IV)	Bothell, WA (Region X)

Table 4 – MERS Locations

Each MERS detachment (*except the Frederick, Maryland, MERS) has a MOC that is available 24/7 to activate FNARS in emergency and test and exercise events.

3.1.5 State and Territory Emergency Operations Centers

State and territory Emergency Operations Centers (EOCs) participate in weekly tests and relay any technical issues to their designated FRC. Station status and point-of-contact information is regularly updated and relayed to the FHFCS PMO.

4.0 FNARS Test and Exercise Program

The FNARS Test and Exercise Program exists to support the following continuity objectives: (a) to maintain the highest level of network operator proficiency for the FNARS system, demonstrated through a regimen of periodic exercises; and (b) to ensure the continuity of FNARS operations in the event of primary NC failure through regular tests involving the transfer of NC responsibilities. The FNARS Test and Exercise Program encompasses both the NRN and RRNs.

4.1 Scope

The FNARS Test and Exercise Program discussed herein represent the minimum requirements to ensure a high level of operator proficiency given the strategic importance of FNARS as an essential backup communications method.

4.2 Test Procedures

The NRN and RRNs each have their own regularly scheduled tests and respective testing procedures. The NRN Test takes place weekly and is conducted by National Net Control or the Alternate Net Control. The NRN Test consists of an Automatic Link Establishment (ALE) connection followed by a second test exercising a specific FNARS capability, to include voice, message data, telephone interconnect, rotating weekly in accordance with the published test schedule. FNARS testing involves the following participants, as shown in **Table 5**.

		FNARS Participation Entities						
		MWEOC	FRCs	ROs	MERS Dets.	State EOCs	Territory EOCs	Scope of Engagement
Network	NRN	✓	✓	✓	✓			Incidents where communications are required across several regions and normal methods of are no longer available.
	RRN		✓			✓	✓	Local incidents that require communications within a relatively centralized location and normal methods of communication are no longer available.

Table 5 – FNARS Participation Entities

The RRN Test is an additional weekly test conducted by the FRC with the state/territory EOCs. The FRC acts as the Primary NC and is responsible for activating and conducting the test for the RRN.

The test consists of an ALE connection attempt followed by a voice test. Then a test is conducted for message data or telephone interconnect; these capability tests rotate weekly.

4.3 Preparation for and Conduct of the Tests

Advance notification of an FNARS test will be disseminated to participants. The notification will include scope of the test, participant responsibilities, Net Control authority, test participant windows, and point-of-contact information. Detailed test plans may be developed for specific activities as required. Participants are required to notify the FNARS PMO prior to the test if they are unable to participate or require modifications to the proposed timeframe (test participant window).

Unannounced testing may also be performed at the discretion of an activation authority to determine operational posture or verify functionality. **Table 6** shows the test schedule for NRN and RRN locations.

NC	Day*	Zulu Time *
I	Thursday	1300–1500
IV	Thursday	1400–1600
VI	Wednesday	1400–1600
VIII	Wednesday	1400–1600
X	Tuesday	1630–1900
MW	Tuesday	1400-1730

Table 6 – NRN and RRN Weekly Test Schedule

4.4 Test Reporting

The Continuity Communications Division produces monthly and annual FNARS reports detailing results obtained in the testing program(s). Test results are reported as follows, as shown in **Table 7**.

Test	Recipient
Monthly	Operators, Regional Continuity Managers/Federal Preparedness Coordinators, Regional Administrators
Annually	FEMA Administrator

Table 7 – Test Report Recipients

5.0 Conclusion

FNARS provides an essential emergency communications capability to federal, state, and territorial governments in times of national or regional emergency. The system's primary role is to provide communications capabilities to senior federal leadership enabling them to maintain C3 under all circumstances to ensure continual performance of the National Essential Functions (NEFs), Primary Mission Essential Functions (PMEFs), and Mission Essential Functions (MEFs).

6.0 Approval

Antwane Johnson
Director, Continuity Communications Division
National Continuity Programs
202-646-4383
antwane.johnson@fema.dhs.gov

Roger L. Stone
Designated Authorizing Official
Assistant Administrator (A)
National Continuity Programs
202-646-4145
Roger.L.Stone@fema.dhs.gov

Appendix A – FHFCS Signed

U.S. Department of Homeland Security
500 C Street SW
Washington, D.C. 20472

FEMA

JAN 3 2011

MEMORANDUM FOR: W. Craig Fugate
Administrator

FROM: Damon C. Penn
Assistant Administrator
National Continuity Programs

SUBJECT: FEMA High Frequency Continuity System (FHFCS)

In support of FEMA's National Continuity Programs (NCP) mission to serve as the lead federal agent for continuity programs within the Federal Executive Branch, NCP requests formal executive level re-endorsement of NCP as the FEMA High Frequency Continuity Systems (FHFCS) Program Management Office (PMO). This PMO encompasses multiple High Frequency (HF) programs and systems that include the FEMA National Radio System (FNARS), the Department and Agency Continuity Network (DACN) and other continuity HF programs.

Backed by National Security Presidential Directive-51/Homeland Security Presidential Directive-20 (NSPD-51/HSPD-20), and NCS Directive 3-10, FEMA NCP assumed operational and programmatic oversight of all FEMA HF programs in a policy memorandum dated January 31, 2005, from then FEMA Chief Information Officer, Barry C. West, and entitled "FNARS Statement for the Record" (attached). Additionally, on February 22, 2008, then NCP Assistant Administrator Major General Martha T. Rainville issued a memorandum to FEMA HQ Senior Management and Regional Administrators outlining FEMA NCP efforts to modernize FNARS equipment and provide training to its stakeholders (also attached).

Your endorsement of NCP's PMO role will resolve confusion surrounding FEMA's HF programs, facilitate collaborative resolution of legacy FHFCS issues, and ensure the successful completion of current modernization efforts already in progress.

With the approval of this memorandum, NCP will publish guidance and documentation required to further solidify a survival communications capability as well as a robust operations and maintenance program. Should you have additional questions regarding this program, please contact me on (202) 646-4145.

Attachments as stated

Approve/date 2/2/2011 Disapprove/date _____

Modify/date _____ Needs discussion/date _____

Figure A-1 – Signed FHFCS Letter

Appendix B – FNARS Supporting Documentation

FNARS maintains the following suite of documentation articulating the program's business, security, and program management requirements, as shown in **Table B-1**.

Documentation	Date of Approval	Description
Capital Plan/Abbreviated Business Case	10/14/05	Justification for a proposed project or undertaking on the basis of its expected benefit
Configuration Management Plan	06/30/16	A systems engineering process for establishing and maintaining consistency of a product's performance, and functional and physical attributes with its requirements, design, and operational information throughout its life.
Computer System Life Cycle Upgrade Fielding Plan	02/16/15	Upgrade existing FNARS terminals to Windows 7 platform as part of lifecycle replacement and configuration management.
Contingency Plan	06/30/16	A process that prepares an organization to respond coherently to an unplanned event.
FNARS FRC Operator Guide (v3.0)	05/28/14	Technical communications documents providing assistance to FNARS operators and users.
FNARS Regional Office Operator Guide (v3.1)	06/28/14	Technical communications documents providing assistance to FNARS operators and users.
FNARS Standard Operating Procedures	09/07/16	Established or prescribed methods to be followed routinely for performance of designated operations or in designated situations.
Mitigation Plan	03/01/15	Provides an overview of the requirements for FNARS and describes the actions that are needed or planned for implementation to provide for the secure migration of the system to a policy-compliant state.
Operator Quick Guide (v2.0)	06/30/12	Technical communications documents providing assistance to FNARS operators and users.
Privacy Threshold Analysis	06/30/16	The Privacy Threshold Analysis (PTA) is a form used to determine whether a Privacy Impact Assessment is required.
Security Assessment Plan	06/30/16	A plan comprising various test and exercises to assess the security features and procedures of the FNARS system against all applicable security requirements of Department of Homeland Security (DHS) Management Directive (MD)-300B, *National Security Systems Handbook* and DHS *National Security Systems Policy Directive.*
Security Plan	06/30/16	A formal plan of action to secure a system, providing a systematic approach and techniques for protecting a system from unauthorized users, guarding against malware as well as any other incident, event, or process that can jeopardize the underlying system's security.

Documentation	Date of Approval	Description
Contingency Test Plan	06/30/16	A documented process describing how an organization tests its ability to respond coherently to an unplanned event.
Architecture Diagrams	06/30/16	A technical drawing representing the FNARS system, including equipment and connections.

Table B-1 – FNARS Documentation

Appendix C – Authorities and References

The FNARS CONOPS was developed based on the following Executive Orders, public laws, and national policy.

- Executive Order 12656, *Assignment of Emergency Preparedness Responsibilities*, dated November 18, 1988, as amended.
- Executive Order 13231, *Critical Infrastructure Protection in the Information Age*, dated October 16, 2001.
- Executive Order 13618, *Assignment of National Security and Emergency Preparedness Communications Functions*, dated July 6, 2012.
- Presidential Policy Directive 8, *National Preparedness*, dated March 30, 2011.
- Presidential Policy Directive 21, *Critical Infrastructure Security and Resilience*, dated February 12, 2013.
- Presidential Policy Directive 40, *National Continuity Policy*, dated July 15, 2016.
- Federal Continuity Directive 1, *Federal Executive Branch National Continuity Program and Requirements*, dated January 17, 2017.
- Federal Continuity Directive 2, *Federal Executive Branch Mission Essential Function and Primary Mission Essential Function Identification and Submission Process*, dated July 2013.
- Continuity Guidance Circular 1, *Continuity Guidance for Non-Federal Entities (States, Territories, Tribal, and Local Government Jurisdictions and Private Sector Organizations)*, dated July 2013.
- Continuity Guidance Circular 2, *Continuity Guidance for Non-Federal Entities: Mission Essential Functions Identification Process (States, Territories, Tribes, and Local Government Jurisdictions)*, dated October 2013.
- Department of Homeland Security National Security Systems Policy Directive 4300B.100, dated May 2016.
- Department of Homeland Security 4300B, *National Security Systems Handbook*, dated May 9, 2016.

Appendix D – COGCON Matrix

Figure D-1 shows the designated Continuity of Government Readiness Conditions (COGCON) levels.

Readiness Level	Department & Agency (D/A) Continuity Capability			
	Operations	Staffing Level	Time to Transition to Successive Stages	Communications
	• Continue to perform NOC business functions at normal location(s) • Maintain alternate operating facility(ies) to ensure readiness for activation at all times • Conduct training and exercise activities to ensure personnel readiness	• Normal staffing • Maintain normal delegations and devolution of authority to ensure performance of essential functions to respond to a no-notice event	• Continuity plan is fully operational within 12 hours	• Test all internal agency communications capabilities between normal operating locations (HQ and other) and alternate operating facility(ies) no less than weekly
COGCON 3	• Continue to perform NOC business functions at normal location(s) • Maintain alternate operating facility(ies) to ensure readiness for activation at all times	• Sufficient staffing required to meet 8-hour operational requirement	• Continuity plan is fully operational within 8 hours	• Conduct at least one additional internal agency communications test between normal operating locations (HQ and others) and alternate operating facility(ies) within 24 hours
COGCON 2	• Continue to perform NOC business functions at normal location(s) • Monitor/ track major NOC activities • Maintain alternate operating facility(ies) to ensure readiness for activation at all times • Take appropriate steps to ensure alternate operating facility(ies) can be activated with 4 hours' notice	• Deploy sufficient staff to NOC to allow activation with 4 hours' notice	• Continuity plan is fully operational within 4 hours	• Conduct internal agency communications test between normal operating locations (HQ and others) and alternate operating facility(ies) within 24 hours
COGCON 1	• Monitor/ track major NOC activities • Take appropriate steps to ensure alternate operating facility(ies) can be activated with a two hour notice	• Deploy sufficient staffing to NOC to perform essential functions with a two hour notice	• Agency headquarters continuity plan activated immediately and report operational status within two hours	• Test internal agency communications between normal operating locations (HQ and other) and alternate operating facility(ies) daily

Figure D-1 – COGCON Matrix

Appendix E – NOAA Space Weather Scales

NOAA Space Weather Scales

Category		Effect	Physical measure	Average Frequency (1 cycle = 11 years)
Scale	Descriptor	Duration of event will influence severity of effects		
Geomagnetic Storms			Kp values* determined every 3 hours	Number of storm events when Kp level was met; (number of storm days)
G 5	Extreme	Power systems: widespread voltage control problems and protective system problems can occur, some grid systems may experience complete collapse or blackouts. Transformers may experience damage. Spacecraft operations: may experience extensive surface charging, problems with orientation, uplink/downlink and tracking satellites. Other systems: pipeline currents can reach hundreds of amps, HF (high frequency) radio propagation may be impossible in many areas for one to two days, satellite navigation may be degraded for days, low-frequency radio navigation can be out for hours, and aurora has been seen as low as Florida and southern Texas (typically 40° geomagnetic lat.).**	Kp=9	4 per cycle (4 days per cycle)
G 4	Severe	Power systems: possible widespread voltage control problems and some protective systems will mistakenly trip out key assets from the grid. Spacecraft operations: may experience surface charging and tracking problems, corrections may be needed for orientation problems. Other systems: induced pipeline currents affect preventive measures, HF radio propagation sporadic, satellite navigation degraded for hours, low-frequency radio navigation disrupted, and aurora has been seen as low as Alabama and northern California (typically 45° geomagnetic lat.).**	Kp=8	100 per cycle (60 days per cycle)
G 3	Strong	Power systems: voltage corrections may be required, false alarms triggered on some protection devices. Spacecraft operations: surface charging may occur on satellite components, drag may increase on low-Earth-orbit satellites, and corrections may be needed for orientation problems. Other systems: intermittent satellite navigation and low-frequency radio navigation problems may occur, HF radio may be intermittent, and aurora has been seen as low as Illinois and Oregon (typically 50° geomagnetic lat.).**	Kp=7	200 per cycle (130 days per cycle)
G 2	Moderate	Power systems: high-latitude power systems may experience voltage alarms, long-duration storms may cause transformer damage. Spacecraft operations: corrective actions to orientation may be required by ground control; possible changes in drag affect orbit predictions. Other systems: HF radio propagation can fade at higher latitudes, and aurora has been seen as low as New York and Idaho (typically 55° geomagnetic lat.).**	Kp=6	600 per cycle (360 days per cycle)
G 1	Minor	Power systems: weak power grid fluctuations can occur. Spacecraft operations: minor impact on satellite operations possible. Other systems: migratory animals are affected at this and higher levels; aurora is commonly visible at high latitudes (northern Michigan and Maine).**	Kp=5	1700 per cycle (900 days per cycle)

* Based on this measure, but other physical measures are also considered.
** For specific locations around the globe, use geomagnetic latitude to determine likely sightings (see www.swpc.noaa.gov/Aurora)

Solar Radiation Storms			Flux level of ≥ 10 MeV particles (ions)*	Number of events when flux level was met**
S 5	Extreme	Biological: unavoidable high radiation hazard to astronauts on EVA (extra-vehicular activity); passengers and crew in high-flying aircraft at high latitudes may be exposed to radiation risk. *** Satellite operations: satellites may be rendered useless, memory impacts can cause loss of control, may cause serious noise in image data, star-trackers may be unable to locate sources; permanent damage to solar panels possible. Other systems: complete blackout of HF (high frequency) communications possible through the polar regions, and position errors make navigation operations extremely difficult.	10^5	Fewer than 1 per cycle
S 4	Severe	Biological: unavoidable radiation hazard to astronauts on EVA; passengers and crew in high-flying aircraft at high latitudes may be exposed to radiation risk.*** Satellite operations: may experience memory device problems and noise on imaging systems; star-tracker problems may cause orientation problems, and solar panel efficiency can be degraded. Other systems: blackout of HF radio communications through the polar regions and increased navigation errors over several days are likely.	10^4	3 per cycle
S 3	Strong	Biological: radiation hazard avoidance recommended for astronauts on EVA; passengers and crew in high-flying aircraft at high latitudes may be exposed to radiation risk.*** Satellite operations: single-event upsets, noise in imaging systems, and slight reduction of efficiency in solar panel are likely. Other systems: degraded HF radio propagation through the polar regions and navigation position errors likely.	10^3	10 per cycle
S 2	Moderate	Biological: passengers and crew in high-flying aircraft at high latitudes may be exposed to elevated radiation risk.*** Satellite operations: infrequent single-event upsets possible. Other systems: effects on HF propagation through the polar regions, and navigation at polar cap locations possibly affected.	10^2	25 per cycle
S1	Minor	Biological: none Satellite operations: none Other systems: minor impacts on HF radio in the polar regions.	10	50 per cycle

* Flux levels are 5 minute averages. Flux in particles s^{-1} ster^{-1} cm^{-2} Based on this measure, but other physical measures are also considered.
** These events can last more than one day.
*** High energy particle (>100 MeV) are a better indicator of radiation risk to passengers and crews. Pregnant women are particularly susceptible.

Radio Blackouts			GOES X-ray peak brightness by class and by flux*	Number of events when flux level was met; (number of storm days)
R 5	Extreme	HF Radio: Complete HF (high frequency**) radio blackout on the entire sunlit side of the Earth lasting for a number of hours. This results in no HF radio contact with mariners and en route aviators in this sector. Navigation: Low-frequency navigation signals used by maritime and general aviation systems experience outages on the sunlit side of the Earth for many hours, causing loss in positioning. Increased satellite navigation errors in positioning for several hours on the sunlit side of Earth, which may spread into the night side.	X20 ($2x10^{-3}$)	Fewer than 1 per cycle
R 4	Severe	HF Radio: HF radio communication blackout on most of the sunlit side of Earth for one to two hours. HF radio contact lost during this time. Navigation: Outages of low-frequency navigation signals cause increased error in positioning for one to two hours. Minor disruptions of satellite navigation possible on the sunlit side of Earth.	X10 (10^{-4})	8 per cycle (8 days per cycle)
R 3	Strong	HF Radio: Wide area blackout of HF radio communication, loss of radio contact for about an hour on sunlit side of Earth. Navigation: Low-frequency navigation signals degraded for about an hour.	X1 (10^{-4})	175 per cycle (140 days per cycle)
R 2	Moderate	HF Radio: Limited blackout of HF radio communication on sunlit side of the Earth, loss of radio contact for tens of minutes. Navigation: Degradation of low-frequency navigation signals for tens of minutes.	M5 ($5x10^{-5}$)	350 per cycle (300 days per cycle)
R 1	Minor	HF Radio: Weak or minor degradation of HF radio communication on sunlit side of the Earth, occasional loss of radio contact. Navigation: Low-frequency navigation signals degraded for brief intervals.	M1 (10^{-4})	2000 per cycle (950 days per cycle)

* Flux, measured in the 0.1-0.8nm range, in W m^{-2}. Based on this measure, but other physical measures are also considered.
** Other frequencies may also be affected by these conditions.
URL: www.swpc.noaa.gov/NOAAscales

April 7, 2011

Figure E-1 – NOAA Space Weather Scales

Appendix F – Acronyms

24/7—24 Hours a Day, 7 Days a Week

ALE—Automatic Link Establishment

BGAN—Broadband Global Area Network

C3—Command, Control and Communications

C&A—Certification & Accreditation

CAI—Communications Architecture and Integration

CCB—Conference Call Bridge

CCD—Continuity Communications Division

CDNARS—Civil Defense National Radio System

CMB— Communications Management Branch

COGCON—Continuity of Government Readiness Conditions

COMSEC—Communications Security

CONOPS—Concept of Operations

COOP—Continuity of Operations

COTS—Commercial-off-the-Shelf

D/A—Department and Agency

DCPA—Defense Civil Preparedness Agency

DHS—U.S. Department of Homeland Security

ENS—Emergency Notification System

EOC—Emergency Operations Center

FEMA—Federal Emergency Management Agency

FHFCS—FEMA High Frequency Continuity System

FNARS—FEMA National Radio System

FOC—FEMA Operations Center

FRC—Federal Regional Center

HF—High Frequency

HQ—Headquarters

ISSO—Information System Security Officer

JROCC— Joint Rendezvous Operations Control Center

LMR—Land Mobile Radio

LOS—Line-of-Sight

MEF—Mission Essential Function

MERS—Mobile Emergency Response Support

MOC—MERS Operations Center

MWEOC—Mount Weather Emergency Operations Center

NACOM2—National Communications

NC—Net Control

NCP—National Continuity Programs

NCS—Network Control Station

NOAA—National Oceanic and Atmospheric Administration

NOC—Network Operations Center

NRN—National Radio Network-High Frequency (FNARS)

NRN-U—National Response Network-Ultra High Frequency

NS/EP—National Security/Emergency Preparedness

NSSE—National Special Security Event

NWC—National Watch Center

NWS—National Weather Service

OAE—Other Authorized Entity

OCD—Office of Civil Defense

OOB—Out-of-Band

PMO—Program Management Office

PSTN—Public Switched Telephone Network

RO—FEMA Regional Office

RRN—Regional Radio Network

SATCOM—Satellite Communications

STRATNET—Strategic Network

UHF—Ultra High Frequency

UPS—Uninterrupted Power Source

Appendix G – Point of Contact

For questions regarding the FNARS system and its associated documentation, contact the FEMA National Continuity Programs' Continuity Communications Division at 202-212-2142 or FEMA-NCP-COMMS@fema.dhs.gov.

CONOPS changes from 2015 version

Primarily, changes to the FNARS CONOPs consisted of updates to reflect more current operational procedures, reorganizing information within the document for better flow, updating policy/document references and graphics, editorial improvements, adding the security accreditation package, and adding details to existing sections.

Changes included the following:

- Reconfiguration of information to be better organized
- Properly labeling and marking tables and figures
- Updates to security accreditation package information
- Adding details of the system to the System Overview section, including a list and description of FNARS capabilities
- Adding to the list of events/hazards against which FNARS can mitigate
- Adding details of ancillary devices to standard FNARS equipment list
- Detail description of the NRN and RRNs, with tables showing what type of office is in each region, and which states are part of each Region and which FRC is responsible for which state testing
- Adjustment to list of Activation Authorities for FNARS
- Additional detail added to Activation Roles and Responsibilities
- Reorganization and updates to Activation/Deactivation Procedures
- RRN map updated to show change in FRC responsibilities for states/regions; FRCs are now each responsible for two regions; Prior to, the regions were divided amongst certain FRCs
- FNARS Activation Flowchart was updated reflecting current operational procedures; made more visually pleasing