Minnesota

Emergency Alert System

Statewide Plan



I. REASON FOR PLAN

The State of Minnesota is subject to major emergencies and disasters, natural, technological and criminal, which can pose a significant threat to the health and safety of the public. The ability to provide citizens with timely emergency information is a priority of emergency managers statewide. The Emergency Alert System (EAS) was developed by the Federal Communications Commission (FCC) to provide emergency information to the public via television, radio, cable systems and wire line providers. The Integrated Public Alert and Warning System, (IPAWS) was created by FEMA to aid in the distribution of emergency messaging to the public via the internet and mobile devices. It is intended that the EAS combined with IPAWS be capable of alerting the general public reliably and effectively. This plan was written to explain who can originate EAS alerts and how and under what circumstances these alerts are distributed via the EAS and IPAWS.

II. PURPOSE AND OBJECTIVES OF PLAN

A. Purpose

When emergencies and disasters occur, rapid and effective dissemination of essential information can significantly help to reduce loss of life and property. The EAS and IPAWS were designed to provide this type of information. However; these systems will only work through a coordinated effort. The purpose of this plan is to establish a standardized, integrated EAS & IPAWS communications protocol capable of facilitating the rapid dissemination of emergency information to the public.

B. Objectives

- 1. Describe the EAS administrative structure within Minnesota. (See Section V)
- 2. Establish who has the authority to originate an EAS notification. (See section V)
- 3. Identify approved event codes for Minnesota. (See VI A & B)
- 4. Identify who has the capability of activating EAS messages. (See section VI A, B & C)
- 5. Describe the concept of EAS and IPAWS operations. (See section VII)
- 6. Explain EAS integration with IPAWS (See section VII)
- 7. Establish standards for training, exercising, and testing of the EAS and IPAWS. (Annex E)

III. ORGANIZATION OF PLAN

The Minnesota Emergency Alert System Statewide Plan is divided into two major parts: a basic plan and supporting annexes.

A. Basic Plan

The basic plan contains the necessary guidance for the voluntary coordination among appropriate authorities (e.g., NWS, emergency management, local, state, or federal government, etc.) and the broadcast, cable and wireless industries to communicate to the general public during a national, state or local emergency situation.

B. Annexes

The annexes add detail to the basic plan and the procedural and technical information required for activation and testing of the EAS.

Annex A: Cable/Broadcast Monitoring Assignments

Annex B: EAS Event Code and Resources

Annex C: EAS Event Code Recommendations

Annex D: Operating Procedures

Annex E: Testing and Training

Annex F: Organizational Charts

Annex G: MN IPAWS Policy Subcommittee Members

Annex H: Memorandum of Understanding

Annex I: Plan Review Schedule

Annex J: Glossary of Terms

Annex K: Description of CAP

Annex L: Minnesota National Weather Service Contact Information

Annex M: Minnesota HSEM Contact Information

Annex N: Minnesota FIPS Codes

IV. LEGAL REFERENCES

This plan has been developed in accordance with Federal Communications Commission requirements, as well as State of Minnesota statutes. Legal bases and references include:

- A. Federal Telecommunications Act of 1996.
- B. Federal Communications Commission, Report & Order FCC 94-288.
- C. FEMA Executive Order 12472: Assignment of National Security and Emergency Preparedness Telecommunications Functions dated April 3, 1984.
- D. FEMA Executive Order 12656: Assignment of Emergency Preparedness Responsibilities dated November 18, 1988.
- E. FEMA Statement of Requirements for Presidential Communications dated September 15, 1995.
- F. Title 47 U.S.C. 151, 154 (I), 303 (r), 524 (g), and 606; 47 CFR Part 11, FCC Rules & Regulations, Emergency Alert System.
- G. Minnesota Statutes, Chapter 12, as amended.
- I. At the time of the writing of this document, authorities are considering adding multi lingual language alerts. Check with the IPAWS committee for further information.

V. EAS ORGANIZATION

Organizing the EAS to work within Minnesota is a cooperative effort. The Minnesota Statewide Emergency Communications Board (SECB), now named the IPAWS subcommittee (MN IPAWS), was created to replace the FCC created SECC. This committee worked together with the following organizations to write this plan. The Minnesota Broadcasters Association, National Weather Service, MNDOT, Public Safety, Minnesota Emergency Management, Twin Cities Public Television, Minnesota Public Radio and other interested parties.

When the Minnesota EAS plan is updated, the following multi-media emergency message distribution methods were addressed: radio, television, internet, social media, email, and text messages.

The MN-IPAWS committee is the statewide coordinating group for the EAS and IPAWS. Local authorities will coordinate their EAS/IPAWS plans with the MN-IPAWS committee. A complete list of all current members of the MN-IPAWS is located in Annex G.

VI. ACTIVATION AUTHORITIES AND ASSOCIATED EVENT CODES

A. Activation Authorities and designated event codes.

The agencies listed below are the only sources authorized by the MN-IPAWS to originate an EAS notification for the emergency types listed. A complete list of recommended event codes is listed in annex B.

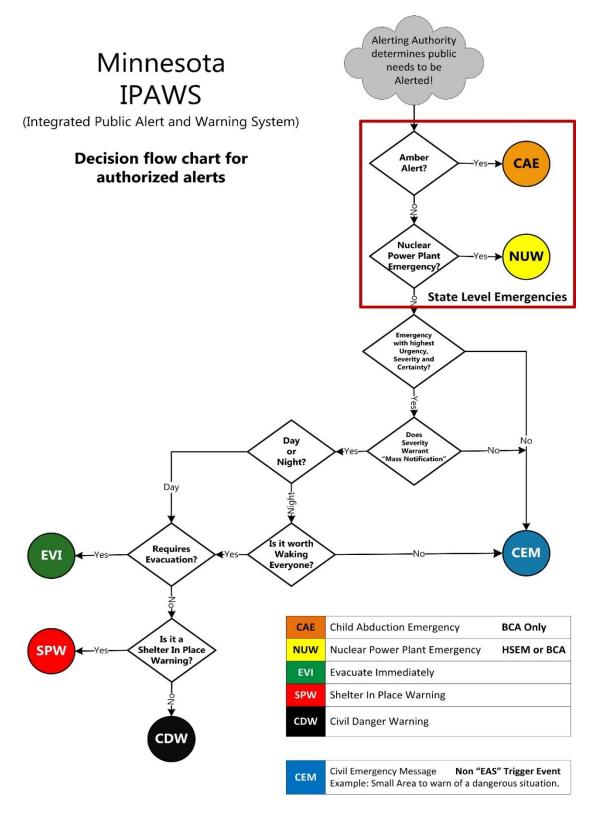
| Agencies and Organizations | MN-IPAWS Member |
|--|-----------------|
| Association of Minnesota Emergency Managers (AMEM) | X |
| Association of Public Safety Communications Officials (APCO) | X |
| Cable industry | X |
| Division of Emergency Communications Network | X |
| Minnesota Broadcasters Association | X |
| Minnesota Premiere Stations (PEP) | X |
| Minnesota Public Radio (PEP & State Wide Relay) | X |
| Minnesota Public Television Association (State Wide Relay) | X |
| Minnesota Telephone Association | X |
| MN Department of Transportation | Χ |
| MN Homeland Security Emergency Management | X |
| MN State Patrol Division | X |
| National Weather Service offices | X |
| Police chiefs, fire chiefs | X |
| WCCO Radio (PEP) | X |
| Wireless telecommunications industry | X |
| Minnesota Bureau of Criminal Apprehension | X |

MN-IPAWS Recommended Event Codes.

| Level | Event Code | Emergency Type | Authorized Originators | Conditions |
|--------------------------------|-----------------------|----------------------------------|---------------------------------------|----------------------------------|
| National | EAN | Emergency Action Notification | POTUS | By order of the President |
| Regional | Weather Codes | All Weather Types | National Weather Service | See Appendix W |
| State of Minnesota | CAE | AMBER | Bureau of Criminal Apprehension | Determined by BCA |
| | NUW | Nuclear Power Plant Accident | HSEM or BCA | Determined by HSEM |
| State and Local Authorities | EVI | Evacuate Immediately | NWS, State and Local Authorities | See IPAWS Flowchart Page 6 |
| | SPW | Shelter in Place | NWS, State and Local Authorities | See IPAWS Flowchart Page 6 |
| | CDW | Civil Danger Warning | NWS, State and Local Authorities | See IPAWS Flowchart Page 6 |
| | CEM See note below | Civil Emergency Message | NWS, State and Local Authorities | See IPAWS Flowchart Page 6 |

Note: Usage of a Civil Emergency Message (CEM) will activate Wireless Emergency Alerts (WEA) for small local area emergency messages when a mass notification is needed for an area smaller than that covered by an EAS message.

B. IPAWS decision matrix.



C. Alerting Responsibilities:

National Level Activation EAN Alert

All media organizations, aka: participating nationals (PN), are mandated to install and operate a CAP certified EAS encoder/decoder. PNs are mandated to configure the decoder to receive two sources (see Annex A), decode and monitor for the emergency activation notification (EAN) alert code and the national periodic test (NPT) alert code. If an EAN or EAT is properly received/decoded, pre-empt programming and immediately broadcast the live incoming audio continuously until the end-of-message (EOM) code is received/decoded.

The executive branch of government (President) is the only authorized agency that can activate the EAN alert. NPT alerts are originated by FEMA.

Severe Weather Alerting

All severe weather alerting over the EAS is voluntary for EAS participant use.

The NWS local forecast office is responsible for originating severe weather alerts via a system of regional transmitters and/or FEMA's IPAWS OPEN program.

The NWS local forecast office may participate with distribution of non-weather emergency messages, (NWEM) via local NOAA audio only radio transmitters (legacy EAS) and/or the FEMA IPAWS program. A NWEM alert is originated via NOAA weather radio in cooperation and agreement with the local public safety/emergency management office and the NWS local forecast office.

Local Activation

All EAS participants are highly encouraged to configure the EAS decoder to receive and broadcast these listed alert codes (See page BP-5) for the intended coverage area(s).

Local authorized (COG Certified) agencies, may activate these CAP alerts via IPAWS OPEN.

VII. CONCEPT OF OPERATIONS

A. Overview of the EAS and IPAWS operations.

IPAWS and EAS distribution circuits back each other up. The EAS and IPAWS use radio broadcast and the internet, respectively, to send out alerts, an audible data burst is used to encode EAS alerts, CAP (Common Alert Protocol) is used to encode IPAWS alerts. When an alert is sent, it goes out as audio, and as data. The audio alert goes out via the EAS, encoded header information describes the event, location and duration of the alert. For Minnesota, state and national messages are relayed via the MPR Satellite network to the entire state. At the same time, the same alert goes out to the internet via IPAWS. This message goes to the IPAWS server operated by FEMA, which then routes it to EAS receiver boxes in the area of the alert.

B. EAS/IPAWS Operations Policies

EAS and IPAWS are intended to alert the public with a message that informs them where to turn for further information. After the alert has been issued, participating news organizations should preempt programming and provide emergency information. The EAS is not intended to be a broadcast service providing continuous programming and supporting information.

EAS and IPAWS alerts should be clear, concise, and used only when absolutely necessary to protect lives or property. To ensure accountability and responsible use of the EAS/IPAWS, the MN-IPAWS has determined that all EAS and IPAWS alerts may only be originated by those agencies with authority assigned by the FCC and/or the MN-IPAWS. (See Section VI. above for details.) Federal and state laws prohibit anyone without cause or authority from originating an EAS notification.

C. Originating an EAS Alert

i. National (EAN/NPT)

distributed over the internet.

In the event of a national emergency, the President may decide to address the nation. The White House Communication Agency will transmit an Emergency Alert Notification (EAN/NPT) directly from the White House and, through FEMA to the Minnesota Primary Entry Point (WCCO Radio) and through the NPR satellite system to the Minnesota State Relay, (MPR). Periodically, FEMA will schedule a National Periodic Test (NPT) to test this part of the system.

ii. Statewide (CAE, NUW, EVI, SPW, CDW and CEM)

During a statewide emergency, an authorized (COG Certified) agency may originate an EAS/IPAWS alert via the EAS or using IPAWS. Incoming EAS/IPAWS alerts will be relayed on WCCO AM and the Minnesota Public Radio state wide network and

iii Local Alert (EVI, SPW, CDW and CEM)

During a local emergency, an authorized (COG Certified) agency may originate an EAS Alert using IPAWS. As an alternative, a NWEM alert can be sent to the local NWS office via telephone, fax, email, 800 MHz radio. See appendix L for NWS contact information for your local NWS office. The NWS will forward the alert using the NOAA Weather Radio network. Tuning an input to your EAS box to your local NWS station is recommended. Local alert areas conform to NWS local office coverage areas, see map in appendix M.

D. Broadcasting EAS Alerts

For national notifications, the EAN or NPT alert is relayed from the origination point (in this case the WHCA or FEMA) to the State Relay (MPR) the PEP (WCCO AM).

For Statewide emergencies the authorized alert is sent to the State Relay (MPR) and the Primary Entry Point (PEP) WCCO AM. An authorized organization can also use IPAWS OPEN to originate/distribute a statewide alert.

For Local emergencies, an authorized organization (COG Certified) can originate/distribute alert via IPAWS OPEN or sent to the NWS.

VIII. PLAN MAINTENANCE AND DISTRIBUTION

The MN-IPAWS Committee has the authority and responsibility for maintenance of this plan. The plan will be reviewed every 2 years, see appendix G for the schedule. Agencies identified in this document will provide updated information about their responsibilities so that plan revisions can be made. Changes to the plan will also be made to address deficiencies identified in reviews, tests and activation.

Current copies of this plan will be distributed to:

- A. All broadcast stations and cable systems in Minnesota with EAS responsibilities;
- B. The FCC, FEMA, HSEM, MN-DPS, Local Public Safety and NWS;
- C. Any participating private organization that contributes to the operation of the EAS system.
- D. Posted to the internet. HSEM IPAWS Page

All plan maintenance and distribution conducted by the MN-IPAWS Committee will be coordinated through the Minnesota Division of Homeland Security Emergency Management (HSEM). Additional copies of the plan are available by contacting a HSEM representative from the MN-IPAWS. **See Annex F for contact names.**

IX. APPROVAL AND CONCURRENCE

APPROVAL:

DIRECTOR, Minnesota Division of Homeland Security Emergency Management

CHAIR, Minnesota State Emergency Communications Board

CHAIR, Minnesota IPAWS Committee

CHIEF COUNCIL, Minnesota Public Radio

CHIEF, FCC, Public Safety and Homeland Security Bureau

CONCURRENCE:

WARNING COORDINATION METEOROLOGIST, National Weather Service, Chanhassen, MN

PRESIDENT, Minnesota Broadcasters Association

PRESIDENT, Minnesota Cable Television Association

PRESIDENT, Minnesota Telco Alliance

Annex A: Broadcast/Cable Monitoring Assignments

11/9/2016

I. OVERVIEW

All EAS participants are required to monitor the assigned channels for inputs one (1) and two (2) on their EAS decoder. This action will enable relay of the national level emergency action notification (EAN) alert. The spreadsheet that follows shows these required inputs. In addition, your local NWS station is also listed; it is recommended that it be tuned to input 3.

EAS Decoder Input 1 - This input is required by FCC rules.

EAS Decoder Input 2 - This input is required by FCC rules.

EAS Decoder Input 3 - local NWS, recommended by MN-IPAWS

EAS Decoder Input 4 -

II. MONITORING ASSIGNMENTS

Monitoring assignments are available at the Minnesota Broadcasters Association.

http://www.minnesotabroadcasters.com.

III. CAP (Common Alert Protocol) Connectivity

EAS receiver boxes must (by FCC ruling) be connected to the CAP server maintained by FEMA.

The URL for the FEMA server is https://apps.fema.gov/IPAWSOPEN EAS SERVICE/rest/update

Annex A: Broadcast/Cable Monitoring Assignments

| City | Station | Frequency | Band | Input1 | Freq1 | Band1 | Input2 | Freq2 | Band2 | Input3 | Freq3 |
|------------|---------|------------|------|--------|-------|-------|--------|-------|-------|--------|-------------|
| Ada | KRJB | 106.3 | FM | KCCD | 90.3 | FM | KCCM | 91.1 | FM | WXK42 | 162.475 Mhz |
| Aitkin | KKIN | 94.3 | FM | KBPN | 88.3 | FM | KBPR | 90.7 | FM | KZZ84 | 162.450 Mhz |
| Aitkin | KKIN | 930 | AM | KBPN | 88.3 | FM | KBPR | 90.7 | FM | KZZ84 | 162.450 Mhz |
| Albany | KASM | 1150 | AM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WXL65 | 162.400 Mhz |
| Albany | KDDG | 105.5 | FM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WXL65 | 162.400 Mhz |
| Albert Lea | KATE | 1450 | AM | KNSE | 90.1 | FM | KZSE | 91.7 | FM | WXK41 | 162.475 MHz |
| Albert Lea | KCPI | 94.9 | FM | KNSE | 90.1 | FM | KZSE | 91.7 | FM | WXK41 | 162.475 MHz |
| Albert Lea | KQPR | 96.1 | FM | KNSE | 90.1 | FM | KZSE | 91.7 | FM | WXK41 | 162.475 MHz |
| Alexandria | KCCO | Chan 7 | TV | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WNG707 | 162.425 Mhz |
| Alexandria | KCCW | Chan 12/38 | TV | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WNG707 | 162.425 Mhz |
| Alexandria | KIKV | 100.7 | FM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WNG707 | 162.425 Mhz |
| Alexandria | KRWF | Channel 43 | TV | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WNG707 | 162.425 Mhz |
| Alexandria | KSAX | Channel 42 | TV | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WNG707 | 162.425 Mhz |
| Alexandria | KXRA | 92.3 | FM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WNG707 | 162.425 Mhz |
| Alexandria | KXRA | 1490 | AM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WNG707 | 162.425 Mhz |
| Alexandria | KXRZ | 99.3 | FM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WNG707 | 162.425 Mhz |
| Anoka | KQQL | 107.9 | FM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Appleton | KNCM | 91.3 | FM | SR-1 | | | KRSU | 91.3 | FM | KXI32 | 162.550 Mhz |
| Appleton | KRSU | 88.5 | FM | SR-1 | | | KNCM | 88.5 | FM | KXI32 | 162.550 Mhz |
| Appleton | KSMN | Chan 20/15 | TV | KNCM | 88.5 | FM | KRSU | 91.3 | FM | KXI32 | 162.550 MHz |
| Appleton | KWCM | Chan 10/31 | TV | KNCM | 88.5 | FM | KRSU | 91.3 | FM | KXI32 | 162.550 MHz |
| Austin | KAAL | Channel 6 | TV | KNSE | 90.1 | FM | KZSE | 91.7 | FM | WXK41 | 162.475 Mhz |
| Austin | KAUS | 99.9 | FM | KNSE | 90.1 | FM | KZSE | 91,7 | FM | WXK41 | 162.475 Mhz |
| Austin | KAUS | 1480 | AM | KNSE | 90.1 | FM | KZSE | 91.7 | FM | WXK41 | 162.475 Mhz |
| Austin | KMSK | 91.3 | FM | KNSE | 90.1 | FM | KZSE | 91.7 | FM | WXK41 | 162.475 Mhz |
| Austin | KNFX | 970 | AM | KNSE | 90.1 | FM | KZSE | 91.7 | FM | WXK41 | 162.475 Mhz |
| Austin | KNSE | 90.1 | FM | SR-1 | | | KZSE | 91.7 | FM | WXK41 | 162.475 Mhz |
| Austin | KSMQ | Channel 15 | TV | KNSE | 90.1 | FM | KZSE | 91.7 | FM | WXK41 | 162.475 Mhz |
| Babbit | KAOD | 106.7 | FM | WIRN | 92.5 | FM | WIRR | 90.5 | FM | KIG64 | 162.550 Mhz |
| Baxter | KBKK | 95.5 | FM | KBPN | 88.3 | FM | KBPR | 90.7 | FM | KZZ45 | 162.475 Mhz |
| Baxter | KBLB | 93.3 | FM | KBPN | 88.3 | FM | KBPR | 90.7 | FM | KZZ45 | 162.475 Mhz |
| Baxter | KUAL | 101.5 | FM | KBPN | 88.3 | FM | KBPR | 90.7 | FM | KZZ45 | 162.475 Mhz |
| Bemidji | KAWE | Chan 9/22 | TV | KNBJ | 91.3 | FM | KCRB | 88.5 | FM | WXM99 | 162.425 Mhz |
| Bemidji | KBHP | 101.1 | FM | KNBJ | 91.3 | FM | KCRB | 88.5 | FM | WXM99 | 162.425 Mhz |
| Bemidji | KBSB | 89.7 | FM | KNBJ | 91.3 | FM | KCRB | 88.5 | FM | WXM99 | 162.425 Mhz |
| Bemidji | KBUN | 1450 | AM | KNBJ | 91.3 | FM | KCRB | 88.5 | FM | WXM99 | 162.425 Mhz |
| Bemidji | KCRB | 88.5 | FM | SR-1 | | | KNBJ | 91.3 | FM | WXM99 | 162.425 Mhz |
| Bemidji | KKBJ | 103.7 | FM | KNBJ | 91.3 | FM | KCRB | 88.5 | FM | WXM99 | 162.425 Mhz |
| Bemidji | KKBJ | 1360 | AM | KNBJ | 91.3 | FM | KCRB | 88.5 | FM | WXM99 | 162.425 Mhz |
| Bemidji | KKWB | 102.9 | FM | KNBJ | 91.3 | FM | KCRB | 88.5 | FM | WXM99 | 162.425 Mhz |
| Bemidji | KLLZ | 99.1 | FM | KNBJ | 91.3 | FM | KCRB | 88.5 | FM | WXM99 | 162.425 Mhz |

Annex A: Broadcast/Cable Monitoring Assignments

| Bemidji | KNBJ | 91.3 | FM | SR-1 | | | KCRB | 88.5 | FM | WXM99 | 162.425 Mhz |
|--------------|------|------------|----|------|-------|----|------|------|----|--------|-------------|
| Bemidji | KZY | 95.5 | FM | KNBJ | 91.3 | FM | KCRB | 88.5 | FM | WXM99 | 162.425 Mhz |
| Bemidji | WBJI | 98.3 | FM | KNBJ | 91.3 | FM | KCRB | 88.5 | FM | WXM99 | 162.425 Mhz |
| Benson | KBMO | 93.3 | FM | KNCM | 88.5 | FM | KRSU | 91.3 | FM | KXI32 | 162.550 Mhz |
| Benson | KSCR | 93.5 | FM | KNCM | 88.5 | FM | KRSU | 91.3 | FM | KXI32 | 162.550 Mhz |
| Big Lake | KPXM | Channel 41 | TV | WCCO | 830 | AM | KNOW | 91.1 | FM | WNG676 | 162.500 Mhz |
| Black Duck | WMIS | 92.1 | FM | KNBJ | 91.3 | FM | KCRB | 88.5 | FM | WXM99 | 162.425 Mhz |
| Blue Earth | KBEW | 98.1 | FM | KNGA | 91.5 | FM | KGAC | 90.5 | FM | WXK40 | 162.400 Mhz |
| Blue Earth | KBEW | 560 | AM | KNGA | 91.5 | FM | KGAC | 90.5 | FM | WXK40 | 162.400 Mhz |
| Blue Earth | KJLY | 104.5 | FM | KNGA | 91.5 | FM | KGAC | 90.5 | FM | WXK40 | 162.400 Mhz |
| Brainerd | KAWB | Channel 22 | TV | KNBJ | 91.3 | FM | KCRB | 88.5 | FM | WXJ64 | 162.550 Mhz |
| Brainerd | KBPN | 88.3 | FM | SR-1 | | | KBPR | 90.7 | FM | WXJ64 | 162.550 Mhz |
| Brainerd | KBPR | 90.7 | FM | SR-1 | | | KBPN | 88.3 | FM | WXJ64 | 162.550 Mhz |
| Brainerd | KFGI | 103.5 | FM | KBPN | 88.3 | FM | KBPR | 90.7 | FM | WXJ64 | 162.550 Mhz |
| Brainerd | KLIZ | 107.5 | FM | KBPN | 88.3 | FM | KBPR | 90.7 | FM | WXJ64 | 162.550 Mhz |
| Brainerd | KLIZ | 1380 | AM | KBPN | 88.3 | FM | KBPR | 90.7 | FM | WXJ64 | 162.550 Mhz |
| Brainerd | KVBR | 1340 | AM | KBPN | 88.3 | FM | KBPR | 90.7 | FM | WXJ64 | 162.550 Mhz |
| Brainerd | WJJY | 106.7 | FM | KBPN | 88.3 | FM | KBPR | 90.7 | FM | WXJ64 | 162.550 Mhz |
| Brainerd | WWWI | 1270 | AM | KBPN | 88.3 | FM | KBPR | 90.7 | FM | WXJ64 | 162.550 Mhz |
| Breckenridge | KBMW | 1450 | AM | KCCD | 90.3 | FM | KCCM | 91.1 | FM | WNG680 | 162.500 Mhz |
| Breckenridge | KGWB | 107.1 | FM | KCCD | 90.3 | FM | KCCM | 91.1 | FM | WNG680 | 162.500 Mhz |
| Breezy Point | KLKS | 100.1 | FM | KBPN | 88.3 | FM | KBPR | 90.7 | FM | KZZ84 | 162.450 Mhz |
| Brooklyn | | | | | | | | | | | |
| Park | KMNQ | 1470 | AM | wcco | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Browerville | KXDL | 99.7 | FM | KBPN | 88.3 | FM | KBPR | 90.7 | FM | WNG673 | 162.525 Mhz |
| Buffalo | KRWC | 1360 | AM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Buhl | WIRN | 92.5 | FM | SR-1 | | | WIRR | 90.9 | FM | KIG64 | 162.550 Mhz |
| Caledonia | KCLH | 94.7 | FM | KZSE | 91.7 | FM | KLXC | 91.1 | FM | WXJ86 | 162.550 Mhz |
| Callaway | KKWE | 89.9 | FM | KCCD | 90.3 | FM | KCCM | 91.1 | FM | WNG680 | 162.500 Mhz |
| Cambridge | WNSH | 105.3 | FM | wcco | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Cass Lake | KOJB | 90.1 | FM | KNBJ | 91.2 | FM | KCRB | 88.5 | FM | WXM99 | 162.425 Mhz |
| Chandler | KSMN | Chan 20/15 | TV | KNSW | 91.7 | FM | KRSW | 89.3 | FM | WNG702 | 162.425 Mhz |
| Cloquet | WKLK | 96.5 | FM | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Cloquet | WKLK | 1230 | AM | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Cloquet | WMOZ | 106.9 | FM | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KEC64 | 162.550 Mhz |
| Cloquet | WSCN | 100.5 | FM | SR-1 | | | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Cold Springs | KMXK | 94.9 | FM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WXL65 | 162.400 Mhz |
| Coleraine | KGPZ | 96.1 | FM | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KZZ29 | 162.400 Mhz |
| Collegeville | KJNB | 99.9 | FM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WXL65 | 162.400 Mhz |
| Collegeville | KNSR | 88.9 | FM | SR-1 | | | KSJR | 90.1 | FM | WXL65 | 162.400 Mhz |
| Collegeville | KSJR | 90.1 | FM | SR-1 | | | KNSR | 88.9 | FM | WXL65 | 162.400 Mhz |
| Coon Rapids | KTMY | 107.1 | FM | wcco | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Crookston | KQHT | 96.1 | FM | KNTN | 102.7 | FM | KQMN | 91.5 | FM | WWF83 | 162.475 Mhz |
| Crookston | KROX | 1260 | AM | KNTN | 102.7 | FM | KQMN | 91.5 | FM | WWF83 | 162.475 Mhz |

Annex A: Broadcast/Cable Monitoring Assignments

| Deer River | KBAJ | 105.5 | FM | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
|---------------------|--------|------------|-------|---------|-------|-------|----------|-------|-------|--------|----------------|
| Detroit Lakes | KDLM | 1340 | AM | KCCD | 90.3 | FM | KCCM | 91.1 | FM | WXM64 | 162.400 Mhz |
| Detroit Lakes | KRCQ | 102.3 | FM | KCCD | 90.3 | FM | KCCM | 91.1 | FM | WXM64 | 162.400 Mhz |
| Duluth | KAOD | 106.7 | FM | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | KBJR | Channel 6 | TV | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | KBMX | 107.7 | FM | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | KDAL | 95.7 | FM | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | KDAL | 610 | AM | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | KDLH | Chan 3/33 | TV | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | KDNI | 90.5 | FM | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | KDNW | 97.3 | FM | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | KHQG | 102.5 | FM | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | KKCB | 105.1 | FM | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | KLDJ | 101.7 | FM | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | KQDS | 94.9 | FM | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | KQDS | 1490 | AM | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | KQDS | Channel 21 | TV | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | KRBR | 102.5 | FM | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | KTCO | 98.9 | FM | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | KUMD | 103.3 | FM | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | KXTP | 970 | AM | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | KZIO | 104.3 | FM | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | WDIO | Chan 10/43 | TV | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | WDSE | Chan 8/38 | TV | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | WDSM | 710 | AM | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | WEBC | 560 | AM | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | WGZS | 89.1 | FM | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | WIRT | Channel 13 | TV | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | WIRT | Chan 13/36 | TV | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | WNCB | 89.3 | FM | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | WSCD | 92.9 | FM | SR-1 | | | WSCN | 100.5 | FM | KIG64 | 162.550 Mhz |
| Duluth | WWAX | 92.1 | FM | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| Duluth | WWJC | 850 | AM | WSCN | 100.5 | FM | WSCD | 92.9 | FM | KIG64 | 162.550 Mhz |
| East Grand | | | | | | | | | | | |
| Forks | KCNN | 1590 | AM | KNTN | 102.7 | FM | KQMN | 91.5 | FM | WWF83 | 162.475 Mhz |
| East Grand Forks | KYCK | 97.1 | FM | KNTN | 102.7 | FM | KQMN | 91.5 | FM | WWF83 | 162.475 Mhz |
| East Grand | ICIOIC | 07.1 | 1 101 | 1000110 | 102.7 | 1 101 | regivire | 01.0 | 1 101 | ****** | 102. 170 14112 |
| Forks | KZLT | 104.3 | FM | KNTN | 102.7 | FM | KQMN | 91.5 | FM | WWF83 | 162.475 Mhz |
| Eden Prairie | KMSP | Chan 9/26 | TV | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Eden Prairie | KNTF | 950 | AM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Eden Prairie | KZJK | 104.1 | FM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Edina | KTWN | 96.3 | FM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Edina | WXPT | 104.1 | FM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Ely | WELY | 94.5 | FM | WIRC | 89.3 | FM | WIRN | 92.5 | FM | KXI44 | 162.500 Mhz |

Annex A: Broadcast/Cable Monitoring Assignments

| Ely | WELY | 1450 | AM | WIRC | 89.3 | FM | WIRN | 92.5 | FM | KXI44 | 162.500 Mhz |
|--------------------|------|------------|----|------|-------|----|------|------|----|--------|-------------|
| Ely | WIRC | 89.3 | FM | SR-1 | | | WIRN | 92.5 | FM | KXI44 | 162.500 Mhz |
| Eveleth | KRBT | 1340 | AM | WIRN | 92.5 | FM | WIRR | 90.9 | FM | KZZ45 | 162.475 Mhz |
| Eveleth | WEVE | 97.9 | FM | WIRN | 92.5 | FM | WIRR | 90.9 | FM | KZZ45 | 162.475 Mhz |
| Fairmont | KFMC | 106.5 | FM | KNGA | 91.5 | FM | KGAC | 90.5 | FM | KXI39 | 162.525 MHz |
| Fairmont | KSUM | 1370 | AM | KNGA | 91.5 | FM | KGAC | 90.5 | FM | KXI39 | 162.525 MHz |
| Fairmont | KYEJ | 90.1 | FM | KNGA | 91.5 | FM | KGAC | 90.5 | FM | KXI39 | 162.525 Mhz |
| Fargo, ND | KLTA | 98.7 | FM | KCCD | 90.3 | FM | KCCM | 91.1 | FM | WXK42 | 162.475 Mhz |
| Fargo, ND | KPFX | 107.9 | FM | KCCD | 90.3 | FM | KCCM | 91.1 | FM | WXK42 | 162.475 Mhz |
| Fargo, ND | KQWB | 105.1 | FM | KCCD | 90.3 | FM | KCCM | 91.1 | FM | WXK42 | 162.475 Mhz |
| Fargo, ND | KQWB | 1660 | AM | KCCD | 90.3 | FM | KCCM | 91.1 | FM | WXK42 | 162.475 Mhz |
| Fargo, ND | KVLY | Chan 11/44 | TV | KCCD | 90.3 | FM | KCCM | 91.1 | FM | WXK42 | 162.475 Mhz |
| Fargo, ND | KVRR | Channel 15 | TV | KCCD | 90.3 | FM | KCCM | 91.1 | FM | WXK42 | 162.475 Mhz |
| Fargo, ND | KXJB | Chan 4/36 | TV | KCCD | 90.3 | FM | KCCM | 91.1 | FM | WXK42 | 162.475 Mhz |
| Faribault | KDHL | 920 | AM | WCCO | 830 | AM | KNOW | 91.1 | FM | WXK41 | 162.475 MHz |
| Faribault | KQCL | 95.9 | FM | wcco | 830 | AM | KNOW | 91.1 | FM | WXK41 | 162.475 MHz |
| Fergus Falls | KBRF | 1250 | AM | KNWF | 91.5 | FM | KCMF | 89.7 | FM | WNG680 | 162.500 Mhz |
| Fergus Falls | KCMF | 89.7 | FM | SR-1 | | | KNWF | 91.5 | FM | WNG680 | 162.500 Mhz |
| Fergus Falls | KJJK | 96.5 | FM | KNWF | 91.5 | FM | KCMF | 89.7 | FM | WNG680 | 162.500 Mhz |
| Fergus Falls | KJJK | 1020 | AM | KNWF | 91.5 | FM | KCMF | 89.7 | FM | WNG680 | 162.500 Mhz |
| Fergus Falls | KNWF | 91.5 | FM | SR-1 | | | KCMF | 89.7 | FM | WNG680 | 162.500 Mhz |
| Fergus Falls | KZCR | 103.3 | FM | KNWF | 91.5 | FM | KCMF | 89.7 | FM | WNG680 | 162.500 Mhz |
| Forest Lake | WLKX | 95.5 | FM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Fosston | KKCQ | 107.1 | FM | KNTN | 102.7 | FM | KQMN | 91.5 | FM | WNG610 | 162.450 Mhz |
| Fosston | KKCQ | 1480 | AM | KNTN | 102.7 | FM | KQMN | 91.5 | FM | WNG610 | 162.450 Mhz |
| Fosston | KKEQ | 96.7 | FM | KNTN | 102.7 | FM | KQMN | 91.5 | FM | WNG610 | 162.450 Mhz |
| Glencoe | KARP | 106.9 | FM | KNOW | 91.1 | FM | KSJN | 99.5 | FM | WNG685 | 162.425 MHz |
| Glencoe | KGLB | 1310 | AM | KNOW | 91.1 | FM | KSJN | 99.5 | FM | WNG685 | 162.425 MHz |
| Glenwood | KMGK | 107.1 | FM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WNG673 | 162.525 Mhz |
| Golden | | | | | | | | | | | |
| Valley | KDIZ | 1440 | AM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Golden | | | | | | | | | | | |
| Valley | KQSP | 1530 | AM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Golden | | | | | | | | | | | |
| Valley | WLOL | 1330 | AM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Grand Forks, ND | KNOX | 94.7 | FM | KNTN | 102.7 | FM | KQMN | 91.5 | FM | WWF83 | 162.475 Mhz |
| Grand Forks, ND | KNOX | 1310 | AM | KNTN | 102.7 | FM | KQMN | 91.5 | FM | WWF83 | 162.475 Mhz |
| Grand Marais | WLSN | 89.7 | FM | SR-1 | | | WMLS | 88.7 | FM | KXI43 | 162.450 Mhz |
| Grand Marais | WMLS | 88.7 | FM | SR-1 | | | WLSN | 89.7 | FM | KXI43 | 162.450 Mhz |
| Grand Marais | WTIP | 90.7 | FM | WLSN | 89.7 | FM | WMLS | 88.7 | FM | KXI43 | 162.450 Mhz |

Annex A: Broadcast/Cable Monitoring Assignments

| Grand Marais | WXXZ | 95.3 | FM | WLSN | 89.7 | FM | WMLS | 88.7 | FM | KXI43 | 162.450 Mhz |
|------------------------|--------------|---------------|----------|--------------|------|----------|--------------|--------------|----------|----------------|----------------------------|
| Grand Portage | WGPO | 90.1 | FM | WLSN | 89.7 | FM | WMLS | 88.7 | FM | KXI43 | 162.450 Mhz |
| Grand Portage | WKEK | 89.1 | FM | WLSN | 89.7 | FM | WMLS | 88.7 | FM | KXI43 | 162.450 Mhz |
| Grand Rapids | KAXE | 97.1 | FM | KGRP | 89.7 | FM | WIRN | 92.5 | FM | KZZ29 | 162.400 Mhz |
| Grand Rapids | KGRP | 89.7 | FM | SR-1 | | | WIRN | 92.5 | FM | KZZ29 | 162.400 Mhz |
| Grand Rapids | KMFY | 96.9 | FM | KGRP | 89.7 | FM | WIRN | 92.5 | FM | KZZ29 | 162.400 Mhz |
| Grand Rapids | KOZY | 1320 | AM | KGRP | 89.7 | FM | WIRN | 92.5 | FM | KZZ29 | 162.400 Mhz |
| Granite Falls | KKRC | 93.9 | FM | KNCM | 88.5 | FM | KRSU | 91.3 | FM | WNG711 | 162.400 MHz |
| Hastings | KDWA | 1460 | AM | wcco | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Hibbing | KADU | 90.1 | FM | WIRN | 92.5 | FM | WIRR | 90.9 | FM | KZZ45 | 162.475 Mhz |
| Hibbing | KMFG | 102.9 | FM | WIRN | 92.5 | FM | WIRR | 90.9 | FM | KZZ45 | 162.475 Mhz |
| Hibbing | WMFG | 106.3 | FM | WIRN | 92.5 | FM | WIRR | 90.9 | FM | KZZ45 | 162.475 Mhz |
| Hibbing | WMFG | 1240 | AM | WIRN | 92.5 | FM | WIRR | 90.9 | FM | KZZ45 | 162.475 Mhz |
| Hibbing | WNMT | 650 | AM | WIRN | 92.5 | FM | WIRR | 90.9 | FM | KZZ45 | 162.475 Mhz |
| Hibbing | WTBX | 93.9 | FM | WIRN | 92.5 | FM | WIRR | 90.9 | FM | KZZ45 | 162.475 Mhz |
| Hinkley | WGRH | 88.5 | FM | SR-1 | | | KNOW | 91.1 | FM | WNG678 | 162.425.Mhz |
| Hinkley | WINH | 91.9 | FM | SR-1 | | | KNOW | 91.1 | FM | WNG678 | 162.425 Mhz |
| Hutchinson | KDUZ | 1260 | AM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WNG711 | 162.400 MHz |
| International | | | | | | | | | | | |
| Falls | KBHW | 99.5 | FM | KTIF | 88.3 | FM | KNBJ | 91.3 | FM | WXK45 | 162.550 Mhz |
| International Falls | KGHS | 1230 | AM | KTIF | 88.3 | FM | KNBJ | 91.3 | FM | WXK45 | 162.550 Mhz |
| International Falls | KSDM | 104.1 | FM | KTIF | 88.3 | FM | KNBJ | 91.3 | FM | WXK45 | 162.550 Mhz |
| International Falls | KTIF | 88.3 | FM | SR-1 | | | KNBJ | 91.3 | FM | WXK45 | 162.550 Mhz |
| International Falls | KXBR | 91.1 | FM | KTIF | 88.3 | FM | KNBJ | 91.3 | FM | WXK45 | 162.550 Mhz |
| Jackson | | | | | 91.7 | | | | | | |
| | KKOJ KRAQ | 1190 105.7 | AM FM | KNSW | | FM FM | KRSW | 89.3 89.3 | FM FM | KXI31 KXI31 | 162.450 MHz |
| Jackson LaCrescent | | | | | 91.7 | 1 101 | | 90.7 | | WXJ86 | 162.450 MHz 162.550 Mhz |
| LaCrescent | KLXC | 91.1 | FM | SR-1 | 01.4 | | KZSE KZSE | | FM | | |
| Lake City | KQEG | 102.7 | FM | KLXC WCCO | 91.1 | FM | | 90.7 | FM | WXJ86 | 162.550 MHz |
| Lake City | KMFX | 102.5 | FM | + | 830 | AM | KNOW | 91.1 | FM | WXK41 | 162.475 MHz |
| Lakeland | WDGY | 630 | AM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Lakeland | WMIN | 740 | AM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Litchfield | KLFD | 1410 | AM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WXK44 | 162.475 Mhz |
| Little Falls | KFML | 94.1 | FM | KBPN | 88.3 | FM | KBPR | 90.7 | FM | WNG673 | 162.525 Mhz |
| Little Falls | KLTF | 960 | AM | KBPN | 88.3 | FM | KBPR | 90.7 | FM | WNG673 | 162.525 Mhz |
| Little Falls | WYRQ | 92.1 | FM | KBPN | 88.3 | FM | KBPR | 90.7 | FM | WNG673 | 162.525 Mhz |
| Long Prairie | KEYL | 1400 | AM | KBPN | 88.3 | FM | KBPR | 90.7 | FM | WNG673 | 162.525 Mhz |
| Long Prairie | KXDL | 99.7 | FM | KBPN | 88.3 | FM | KBPR | 90.7 | FM | WNG673 | 162.525 Mhz |

Annex A: Broadcast/Cable Monitoring Assignments

| Luverne | KLQL | 101.1 | FM | KNSW | 91.7 | FM | KRSW | 89.3 | FM | WXM28 | 162.400 Mhz |
|-------------|------|------------|----|------|------|----|------|------|----|--------|-------------|
| Luverne | KQAD | 800 | AM | KNSW | 91.7 | FM | KRSW | 89.3 | FM | WXM28 | 162.400 Mhz |
| Madison | KLQP | 92.1 | FM | KNCM | 88.5 | FM | KRSU | 91.3 | FM | KXI32 | 162.550 Mhz |
| Mankato | KATO | 93.1 | FM | KNGA | 91.5 | FM | KGAC | 90.5 | FM | WXK40 | 162.400 Mhz |
| Mankato | KDOG | 96.7 | FM | KNGA | 91.5 | FM | KGAC | 90.5 | FM | WXK40 | 162.400 Mhz |
| Mankato | KEEZ | 99.1 | FM | KNGA | 91.5 | FM | KGAC | 90.5 | FM | WXK40 | 162.400 Mhz |
| Mankato | KEYC | Chan 12/38 | TV | KNGA | 91.5 | FM | KGAC | 90.5 | FM | WXK40 | 162.400 Mhz |
| Mankato | KMSU | 89.7 | FM | KNGA | 91.5 | FM | KGAC | 90.5 | FM | WXK40 | 162.400 Mhz |
| Mankato | KRRW | 101.5 | FM | KNGA | 91.5 | FM | KGAC | 90.5 | FM | KXI39 | 162.525 Mhz |
| Mankato | KTOE | 1420 | AM | KNGA | 91.5 | FM | KGAC | 90.5 | FM | WXK40 | 162.400 Mhz |
| Mankato | KXLP | 94.1 | FM | KNGA | 91.5 | FM | KGAC | 90.5 | FM | WXK40 | 162.400 Mhz |
| Mankato | KYSM | 103.5 | FM | KNGA | 91.5 | FM | KGAC | 90.5 | FM | WXK40 | 162.400 Mhz |
| Mankato | KYSM | 1230 | AM | KNGA | 91.5 | FM | KGAC | 90.5 | FM | WXK40 | 162.400 Mhz |
| Marshall | KARL | 105.1 | FM | KNSW | 91.7 | FM | KRSW | 89.3 | FM | KXI50 | 162.500 Mhz |
| Marshall | KARZ | 107.5 | FM | KNSW | 91.7 | FM | KRSW | 89.3 | FM | WXM28 | 162.400 Mhz |
| Marshall | KKCK | 99.7 | FM | KNSW | 91.7 | FM | KRSW | 89.3 | FM | KXI50 | 162.500 Mhz |
| Marshall | KMHL | 1400 | AM | KNSW | 91.7 | FM | KRSW | 89.3 | FM | KXI50 | 162.500 Mhz |
| Mehnomen | KRJM | 101.5 | FM | KCCD | 90.3 | FM | KCCM | 91.1 | FM | WNG610 | 162.450 Mhz |
| Minneapolis | KARE | Chan 11/35 | TV | wcco | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | KBEM | 88.5 | FM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | KDIZ | 1440 | AM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | KDWB | 101.3 | FM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | KDXL | 99.7 | FM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | KEEY | 102.1 | FM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | KFAI | 90.3 | FM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | KFAN | 100.3 | FM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | KFXN | 690 | AM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | KKMS | 980 | AM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | KLBP | 1470 | AM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | KLTK | 1130 | AM | wcco | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | KMNB | 102.9 | FM | wcco | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | KMNV | 1400 | AM | wcco | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | KMOJ | 89.9 | FM | wcco | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | KNOF | 95.3 | FM | wcco | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | KNOW | 91.1 | FM | WCCO | 830 | AM | NPR | Squa | | KEC65 | 162.550 Mhz |
| Minneapolis | KQRS | 92.5 | FM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | KSJN | 99.5 | FM | wcco | 830 | AM | NPR | Squa | | KEC65 | 162.550 Mhz |
| Minneapolis | KSTC | Channel 23 | TV | wcco | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | KTCA | Channel 2 | TV | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | KTCI | Channel 17 | TV | wcco | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | KTCZ | 97.1 | FM | wcco | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | KTNF | 950 | AM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | KUOM | 106.5 | FM | wcco | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | KUOM | 770 | AM | wcco | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |

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| Minneapolis | KXXR | 93.7 | FM | wcco | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
|------------------|------|------------|----|------|------|----|------|------|----|--------|-------------|
| Minneapolis | KYCR | 1570 | AM | wcco | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | wcco | 830 | AM | PEP | | | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | wcco | Chan 4/32 | TV | wcco | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | WCTS | 1030 | AM | wcco | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | WFTC | Chan 29/21 | TV | wcco | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | WGVX | 105.1 | FM | wcco | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | WGVY | 105.3 | FM | wcco | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | WGVZ | 105.7 | FM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | WLOL | 1330 | AM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Minneapolis | WWTC | 1280 | AM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Montevideo | KDMA | 1460 | AM | KNCM | 88.5 | FM | KRSU | 91.3 | FM | KXI32 | 162.550 Mhz |
| Montevideo | KMGM | 105.5 | FM | KNCM | 88.5 | FM | KRSU | 91.3 | FM | KXI32 | 162.550 Mhz |
| Moorhead | KCCD | 90.3 | FM | SR-1 | | | KCCM | 91.1 | FM | WXK42 | 162.475 Mhz |
| Moorhead | KCCM | 91.1 | FM | SR-1 | | | KCCD | 90.3 | FM | WXK42 | 162.475 Mhz |
| Moorhead | KVOX | 99.9 | FM | KCCD | 90.3 | FM | KCCM | 91.1 | FM | WXK42 | 162.475 Mhz |
| Mora | KBEK | 95.5 | FM | wcco | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Morris | KKOK | 95.7 | FM | KNCM | 88.5 | FM | KRSU | 91.3 | FM | KXI32 | 162.550 Mhz |
| Morris | KMRS | 1230 | AM | KNCM | 88.5 | FM | KRSU | 91.3 | FM | KXI32 | 162.550 Mhz |
| Morris | KUMM | 89.7 | FM | KNCM | 88.5 | FM | KRSU | 91.3 | FM | KXI32 | 162.550 Mhz |
| New Prague | KCHK | 1350 | AM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| New Prague | KRDS | 95.5 | FM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| New Ulm | KNUJ | 860 | AM | KNGA | 91.5 | FM | KGAC | 90.5 | FM | KXI39 | 162.525 MHz |
| Northfield | KCMP | 89.3 | FM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Northfield | KRLX | 88.1 | FM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Northfield | KYMN | 1080 | AM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Olivia | KOLV | 100.1 | FM | KNCM | 88.5 | FM | KRSU | 91.3 | FM | WNG711 | 162.400 MHz |
| Ortonville | KCGN | 101.5 | FM | KNCM | 88.5 | FM | KRSU | 91.3 | FM | KXI32 | 162.550 Mhz |
| Ortonville | KDIO | 1350 | AM | KNCM | 88.5 | FM | KRSU | 91.3 | FM | KXI32 | 162.550 Mhz |
| Ortonville | KPHR | 106.3 | FM | KNCM | 88.5 | FM | KRSU | 91.3 | FM | KXI32 | 162.550 Mhz |
| Osakis | KBHL | 103.9 | FM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WNG673 | 162.525 Mhz |
| Owatonna | KOWZ | 100.9 | FM | wcco | 830 | AM | KNOW | 91.1 | FM | WXK40 | 162.400 Mhz |
| Owatonna | KRFO | 104.9 | FM | wcco | 830 | AM | KNOW | 91.1 | FM | WXK40 | 162.400 Mhz |
| Owatonna | KRFO | 1390 | AM | WCCO | 830 | AM | KNOW | 91.1 | FM | WXK40 | 162.400 Mhz |
| Park Rapids | KAKK | 1570 | AM | KNBJ | 91.3 | FM | KCRB | 88.5 | FM | WWG98 | 162.475 Mhz |
| Park Rapids | KDKK | 97.5 | FM | KNBJ | 91.3 | FM | KCRB | 88.5 | FM | WWG98 | 162.475 Mhz |
| Park Rapids | KPRM | 870 | AM | KNBJ | 91.3 | FM | KCRB | 88.5 | FM | WWG98 | 162.475 Mhz |
| Park Rapids | KQKK | 101.9 | FM | KNBJ | 91.3 | FM | KCRB | 88.5 | FM | WXM99 | 162.425 Mhz |
| Park Rapids | KSKK | 1070 | AM | KNBJ | 91.3 | FM | KCRB | 88.5 | FM | WWG98 | 162.475 Mhz |
| Park Rapids | KXKK | 92.5 | FM | KNBJ | 91.3 | FM | KCRB | 88.5 | FM | WXM99 | 162.425 Mhz |
| Pelican | | | | | | | | | | | |
| Rapids Pequot | KBOT | 104.1 | FM | KCCD | 90.3 | FM | KCCM | 91.1 | FM | WXM64 | 162.400 Mhz |
| Lakes | KTIG | 102.7 | FM | KBPN | 88.3 | FM | KBPR | 90.7 | FM | KZZ84 | 162.450 Mhz |

Annex A: Broadcast/Cable Monitoring Assignments

| Pequot | | 100.4 | | LODAL | | | 14000 | | | 147704 | 400 450 14 |
|------------------|------|------------|----|-------|-------|----|-------|-------|----|--------|-------------|
| Lakes | WZFJ | 100.1 | FM | KBPN | 88.3 | FM | KBPR | 90.7 | FM | KZZ84 | 162.450 Mhz |
| Perham | KPRW | 99.5 | FM | KCCD | 90.3 | FM | KCCM | 91.1 | FM | WXM64 | 162.400 Mhz |
| Pine City | WCMP | 100.9 | FM | KNOW | 91.1 | FM | KSJN | 99.5 | FM | WNG678 | 162.425 Mhz |
| Pine City | WCMP | 1350 | AM | KNOW | 91.1 | FM | KSJN | 99.5 | FM | WNG678 | 162.425 Mhz |
| Pipestone | KISD | 98.7 | FM | KNSW | 91.7 | FM | KRSW | 89.3 | FM | KXI50 | 162.500 Mhz |
| Pipestone | KLOH | 1050 | AM | KNSW | 91.7 | FM | KRSW | 89.3 | FM | KXI50 | 162.500 MHz |
| Preston | KFIL | 103.1 | FM | KZSE | 91.7 | FM | KLSE | 90.7 | FM | WXK41 | 162.475 MHz |
| Preston | KFIL | 1060 | AM | KZSE | 91.7 | FM | KLSE | 90.7 | FM | WXK41 | 162.475 MHz |
| Princeton | KLCI | 106.1 | FM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WXL65 | 162.475 Mhz |
| Princeton | WQPM | 1300 | AM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WXL65 | 162.400 Mhz |
| Red Wing | KCUE | 1250 | AM | WCCO | 830 | AM | KNOW | 91.1 | FM | WXK41 | 162.475 Mhz |
| Red Wing | KLCH | 94.9 | FM | KNOW | 91.1 | FM | KSJN | 99.5 | FM | WXK41 | 162.475 Mhz |
| Red Wing | KWNG | 105.9 | FM | WCCO | 830 | AM | KNOW | 91.1 | FM | WXK41 | 162.475 Mhz |
| Redwood Falls | KLGR | 97.7 | FM | KNSW | 91.7 | FM | KRSW | 89.3 | FM | KXI39 | 162.525 Mhz |
| Redwood Falls | KLGR | 1490 | AM | KNSW | 91.7 | FM | KRSW | 89.3 | FM | KXI39 | 162.525 Mhz |
| Redwood | | | | | | | | | | | |
| Falls | KRFI | 88.1 | FM | KNGA | 91.5 | FM | KGAC | 90.5 | FM | KXI39 | 162.525 Mhz |
| Rochester | KDCZ | 103.9 | FM | KZSE | 91.7 | FM | KLSE | 90.7 | FM | WXK41 | 162.475 Mhz |
| Rochester | KFAN | 1270 | AM | KZSE | 91.7 | FM | KLSE | 90.7 | FM | WXK41 | 162.475 Mhz |
| Rochester | KFSI | 92.9 | FM | KZSE | 91.7 | FM | KLSE | 90.7 | FM | WXK41 | 162.475 Mhz |
| Rochester | KLSE | 90.7 | FM | SR-1 | | | KZSE | 91.7 | FM | WXK41 | 162.475 Mhz |
| Rochester | KNXR | 97.5 | FM | KZSE | 91.7 | FM | KLSE | 90.7 | FM | WXK41 | 162.475 Mhz |
| Rochester | KOLM | 1520 | AM | KZSE | 91.7 | FM | KLSE | 90.7 | FM | WXK41 | 162.475 Mhz |
| Rochester | KRCH | 101.7 | FM | KZSE | 91.7 | FM | KLSE | 90.7 | FM | WXK41 | 162.475 Mhz |
| Rochester | KROC | 106.9 | FM | KZSE | 91.7 | FM | KLSE | 90.7 | FM | WXK41 | 162.475 Mhz |
| Rochester | KROC | 1340 | AM | KZSE | 91.7 | FM | KLSE | 90.7 | FM | WXK41 | 162.475 Mhz |
| Rochester | KRPR | 89.9 | FM | KZSE | 91.7 | FM | KLSE | 90.7 | FM | WXK41 | 162.475 Mhz |
| Rochester | KTTC | Chan 10/36 | TV | KZSE | 91.7 | FM | KLSE | 90.7 | FM | WXK41 | 162.475 Mhz |
| Rochester | KWWK | 96.5 | FM | KZSE | 91.7 | FM | KLSE | 90.7 | FM | WXK41 | 162.475 Mhz |
| Rochester | KXLT | Channel 47 | TV | KZSE | 91.7 | FM | KLSE | 90.7 | FM | WXK41 | 162.475 Mhz |
| Rochester | KZSE | 91.7 | FM | SR-1 | | | KLSE | 90.7 | FM | WXK41 | 162.475 Mhz |
| Roseau | KCAJ | 102.1 | FM | KRXW | 103.5 | FM | KNTN | 102.7 | FM | WWF45 | 162.450 Mhz |
| Roseau | KRWB | 1410 | AM | KRXW | 103.5 | FM | KNTN | 102.7 | FM | WWF45 | 162.450 Mhz |
| Roseau | KRXW | 103.5 | FM | SR-1 | | | KNTN | 102.7 | FM | WWF45 | 162.450 Mhz |
| Roseville | KTIS | 98.5 | FM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Roseville | KTIS | 900 | AM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Sauk Rapids | WBHR | 660 | AM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WXL65 | 162.400 Mhz |
| Sauk Rapids | WHMH | 101.1 | FM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WXL65 | 162.400 Mhz |
| Sauk Rapids | WVAL | 800 | AM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WXL65 | 162.400 Mhz |
| Shakopee | KKCM | 1530 | AM | wcco | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Slayton | KJOE | 106.1 | FM | KNSW | 91.7 | FM | KRSW | 89.3 | FM | WNG702 | 162.425 Mhz |
| Sleepy Eye | KNUJ | 107.3 | FM | KNGA | 91.5 | FM | KGAC | 90.5 | FM | KXI39 | 162.525 Mhz |

Annex A: Broadcast/Cable Monitoring Assignments

| South Burnsville | KBGY | 107.5 | FM | wcco | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
|----------------------|------|------------|----|-------------|-------|----|------------|-------|----|---|----------------|
| Spring Grove | KQYB | 98.3 | FM | KXLC | 91.1 | FM | KZSE | 91.7 | FM | WXJ86 | 162.550 Mhz |
| Spring Valley | KVGO | 104.3 | FM | KZSE | 91.7 | FM | KLSE | 90.7 | FM | WXK41 | 162.475 Mhz |
| Springfield | KNSG | 94.7 | FM | KNGA | 91.5 | FM | KGAC | 90.5 | FM | KXI39 | 162.525 Mhz |
| St. Cloud | KCFB | 91.5 | FM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WXL65 | 162.400 Mhz |
| St. Cloud | KCLD | 104.7 | FM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WXL65 | 162.400 Mhz |
| St. Cloud | KKJM | 92.9 | FM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WXL65 | 162.400 Mhz |
| St. Cloud | KLZZ | 103.7 | AM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WXL65 | 162.400 Mhz |
| St. Cloud | KNSI | 1450 | AM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WXL65 | 162.475 Mhz |
| St. Cloud | KVSC | 88.1 | FM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WXL65 | 162.400 Mhz |
| St. Cloud | KXSS | 1390 | AM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WXL65 | 162.400 Mhz |
| St. Cloud | WJON | 1240 | AM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WXL65 | 162.400 Mhz |
| St. Cloud | WWJO | 98.1 | FM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WXL65 | 162.400 Mhz |
| St. James | KXAC | 100.5 | FM | KNGA | 91.5 | FM | KGAC | 90.5 | FM | WXK40 | 162.400 Mhz |
| St. Paul | KSTP | 94.5 | FM | wcco | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| St. Paul | KSTP | 1500 | AM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| St. Paul | KSTP | Chan 5/45 | TV | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| St. Paul | KTCA | Chan 2/23 | TV | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| St. Paul | KTCI | Chan 17/16 | TV | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| St. Paul | KUCW | Channel 23 | TV | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| St. Paul | WMCM | 91.7 | FM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| St. Paul | WREY | 630 | AM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| St. Peter | KGAC | 90.5 | FM | SR-1 | 333 | 7 | KNGA | 91.5 | FM | WXK40 | 162.400 Mhz |
| St. Peter | KNGA | 91.5 | FM | SR-1 | | | KGAC | 90.5 | FM | WXK40 | 162.400 Mhz |
| St. Peter | KRBI | 105.5 | FM | KNGA | 91.5 | FM | KGAC | 90.5 | FM | WXK40 | 162.400 Mhz |
| St. Peter | KRBI | 1310 | AM | KNGA | 91.5 | FM | KGAC | 90.5 | FM | WXK40 | 162.400 Mhz |
| Staples | KNSP | 1430 | AM | KBPN | 88.3 | FM | KBPR | 90.7 | FM | WNG673 | 162.525 Mhz |
| Stewartville | KYBA | 105.3 | FM | KZSE | 90.7 | FM | KLSE | 91.7 | FM | WXK41 | 162.475 Mhz |
| Stillwater | KLBB | 1220 | AM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |
| Thief River Falls | KBRR | Channel 10 | TV | KNTN | 102.7 | FM | KQMN | 91.5 | FM | WXK43 | 162.550 Mhz |
| Thief River | | | | | | | | | | | |
| Falls | KKAQ | 1460 | AM | KNTN | 102.7 | FM | KQMN | 91.5 | FM | WXK43 | 162.550 Mhz |
| Thief River Falls | KKDQ | 99.3 | FM | KNTN | 102.7 | FM | KQMN | 91.5 | FM | WXK43 | 162.550 Mhz |
| Thief River Falls | KNTN | 102.7 | FM | SR-1 | | | KQMN | 91.5 | FM | WXK43 | 162.550 Mhz |
| Thief River | | | | | | | | | | | |
| Falls | KQMN | 91.5 | FM | SR-1 | | | KNTN | 102.7 | FM | WXK43 | 162.550 Mhz |
| Thief River | KOND | 400.0 | | IZA ITA I | 400 7 | | 1/0141 | 04.5 | | 14/1/17/19 | 400 550 141 |
| Falls Thief River | KSNR | 100.3 | FM | KNTN | 102.7 | FM | KQMN | 91.5 | FM | WXK43 | 162.550 Mhz |
| Falls | KSRQ | 90.1 | FM | KNTN | 102.7 | FM | KQMN | 91.5 | FM | WXK43 | 162.550 Mhz |
| Thief River | | 00 | | 1 2 2 1 1 4 | 10211 | | i (Qivii 1 | 01.0 | | *************************************** | . 32.333 14112 |
| Falls | KTRF | 1230 | AM | KNTN | 102.7 | FM | KQMN | 91.5 | FM | WXK43 | 162.550 Mhz |
| Verndale | KVKK | 1070 | AM | WCCO | 830 | AM | KNOW | 91.1 | FM | KEC65 | 162.550 Mhz |

Annex A: Broadcast/Cable Monitoring Assignments

| Virginia | WUSZ | 99.9 | FM | WIRN | 92.5 | FM | WIRR | 90.9 | FM | KZZ45 | 162.475 Mhz |
|-------------|------|-------|----|------|------|----|------|------|----|--------|-------------|
| Virginia- | | | | | | | | | | | |
| Hibbing | WIRR | 90.9 | FM | SR-1 | | | WIRN | 92.5 | FM | KIG64 | 162.550 Mhz |
| Wadena | KKWS | 105.9 | FM | KBPN | 88.3 | FM | KBPR | 90.7 | FM | WXJ64 | 162.550 Mhz |
| Wadena | KSKK | 94.7 | FM | KBPN | 88.3 | FM | KBPR | 90.7 | FM | WXJ64 | 162.550 Mhz |
| Wadena | KWAD | 920 | AM | KBPN | 88.3 | FM | KBPR | 90.7 | FM | WXJ64 | 162.550 Mhz |
| Walker | KLLZ | 99.1 | AM | KNBJ | 91.3 | FM | KCRB | 88.5 | FM | WXM99 | 162.425 Mhz |
| Warroad | KKWQ | 92.5 | FM | KNBJ | 91.3 | FM | KCRB | 88.5 | FM | WWF45 | 162.450 Mhz |
| Waseca | KRUE | 1170 | AM | KNGA | 91.5 | FM | KGAC | 90.5 | FM | WXK40 | 162.400 Mhz |
| Waseca | KRUE | 92.1 | FM | KNGA | 91.5 | FM | KGAC | 90.5 | FM | WXK40 | 162.400 Mhz |
| White Earth | KKWE | 89.9 | FM | KCCD | 90.3 | FM | KCCM | 91.1 | FM | WXM64 | 162.400 Mhz |
| Willmar | KBHZ | 91.9 | FM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WXK44 | 162.475 Mhz |
| Willmar | KDJS | 95.3 | FM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WXK44 | 162.475 Mhz |
| Willmar | KDJS | 1590 | AM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WXK44 | 162.475 Mhz |
| Willmar | KQIC | 102.5 | FM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WXK44 | 162.475 Mhz |
| Starbuck | KRVY | 97.3 | FM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WXK44 | 162.475 Mhz |
| Willmar | KWLM | 1340 | AM | KNSR | 88.9 | FM | KSJR | 90.1 | FM | WXK44 | 162.475 Mhz |
| Windom | KDOM | 94.3 | FM | KNSW | 91.7 | FM | KRSW | 89.3 | FM | WNG702 | 162.425 Mhz |
| Windom | KDOM | 1580 | AM | KNSW | 91.7 | FM | KRSW | 89.3 | FM | WNG702 | 162.425 Mhz |
| Winona | KAGE | 95.3 | FM | KXLC | 91.1 | FM | KZSE | 91.7 | FM | KGG95 | 162.000 Mhz |
| Winona | KAGE | 1380 | AM | KXLC | 91.1 | FM | KZSE | 91.7 | FM | KGG95 | 162.000 Mhz |
| Winona | KHME | 101.1 | FM | KXLC | 91.1 | FM | KZSE | 91.7 | FM | KGG95 | 162.000 Mhz |
| Winona | KQAL | 89.5 | FM | KXLC | 91.1 | FM | KZSE | 91.7 | FM | KGG95 | 162.000 Mhz |
| Winona | KSMR | 92.5 | FM | KXLC | 91.1 | FM | KZSE | 91.7 | FM | KGG95 | 162.000 Mhz |
| Winona | KWNO | 99.3 | FM | KXLC | 91.1 | FM | KZSE | 91.7 | FM | KGG95 | 162.000 Mhz |
| Winona | KWNO | 1230 | AM | KXLC | 91.1 | FM | KZSE | 91.7 | FM | KGG95 | 162.000 Mhz |
| Worthington | KITN | 93.5 | FM | KNSW | 91.7 | FM | KRSW | 89.3 | FM | WXM28 | 162.400 Mhz |
| Worthington | KNSW | 91.7 | FM | SR-1 | | | CAP | | | WXM28 | 162.400 Mhz |
| Worthington | KRSW | 89.3 | FM | SR-1 | | | CAP | | | WXM28 | 162.400 Mhz |
| Worthington | KUSQ | 95.1 | FM | KNSW | 91.7 | FM | KRSW | 89.3 | FM | WXM28 | 162.400 Mhz |
| Worthington | KWOA | 730 | AM | KNSW | 91.7 | FM | KRSW | 89.3 | FM | WXM28 | 162.400 Mhz |

Annex B: EAS Event Code Resources

11/9/2016

EAS Event Code Resources

To provide clarification on filtering alert codes in EAS Participant equipment operating under the State of Minnesota EAS plan. The information provided in this document is generic and not specific to any one manufactures equipment. It provides additional detail including content published in CFR 47 part 11 (EAS). By no means is this document a substitute for knowing your roles and responsibilities in part 11 but excerpts are provided in this document as they pertain to programming codes into your EAS equipment.

Sections of the CFR for reference that specifically relate to programming equipment.

- §11.21 State and Local Area plans and FCC Map book.
- §11.33 EAS Decoder.
- §11.51 EAS code and Attention Signal Transmission requirements.
- §11.52 EAS code and Attention Signal Monitoring requirements.
- §11.56 Obligation to process CAP-formatted EAS messages.

CFR 47 Part 11 is linked here:

https://www.gpo.gov/fdsys/pkg/CFR-2009-title47-vol1/pdf/CFR-2009-title47-vol1-part11.pdf

The FEMA server is linked here:

https://apps.fema.gov/

Annex C: EAS Event Code Recommendations

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EAS Event Code Recommendations

| Nature of Activation | Event Code | Level of Severity | Authority | Log Only | Forwarding | Notes: |
|---|---------------|----------------------|-----------|-------------|------------|--------|
| National Codes (Required): | | | | | | |
| Emergency Action Notification | EAN | Emergency | FCC | | Mandatory | 1 |
| National Periodic Test | NPT | Test | FCC | | Mandatory | |
| Required Monthly Test | RMT | Test | FCC | | Mandatory | 2 |
| Required Weekly Test | RWT | Test | FCC | Х | Mandatory | |
| State and Local Codes (Recommended): | | | | | | |
| Child Abduction Emergency | CAE | Emergency | MN Plan | | Voluntary | 3 |
| Civil Danger Warning | CDW | Warning | MN Plan | | Voluntary | |
| Civil Emergency Message | CEM | Emergency | MN Plan | Х | Voluntary | 4 |
| Flash Flood Warning | FFW | Warning | NWS | | Voluntary | |
| Immediate Evacuation Notice | EVI | Emergency | MN Plan | | Voluntary | |
| Nuclear Power Plant Warning | NUW | Warning | MN Plan | | Voluntary | 5 |
| Severe Thunderstorm Warning | SVR | Warning | NWS | | Voluntary | |
| Shelter in Place Warning | SPW | Warning | MN Plan | | Voluntary | |
| Special Marine Warning | SMW | Warning | NWS | | Voluntary | 6 |
| Tornado Warning | TOR | Warning | NWS | | Voluntary | |

Notes:

- 1. Needs to be programmed in as per requirements of; CFR 47, §11.54 EAS operation during a National
- 2. Needs to be programmed in as per requirements of; CFR 47, §11.61 Tests of EAS procedures., (1) Required Monthly Tests of the EAS header codes, Attention Signal, Test Script and EOM code.
- 3. Child Abduction Emergency (CAE) is initiated in the State of Minnesota specifically by the Department of Public Safety, Bureau of Criminal Apprehension.
- 4. A Civil Emergency Message (CEM) would be sent for distribution through the IPAWS OPEN server with delivery through Wireless Emergency Alerts for a message in a small geographical area. It is recommended PN's monitor and <u>log only</u>. The text of the EAS message would contain the instructions of what to avoid, what to do or where to go, so it could also be delivered to designated CAP enabled news feed websites for posting during an emergency.

Annex C: EAS Event Code Recommendations

- 5. Nuclear Power Plant Warning (NUW) Limited to EAS Participants with coverage in the Counties of Dakota, Goodhue, Sherburne, and Wright.
- 6. Special Marine Warning (SMW) Limited to EAS Participants <u>with coverage in the Counties along the</u> Lake Superior shoreline.

| Category | Description |
|-----------|--|
| Emergency | An event that, by itself, would not kill or injure or do property damage, but indirectly may cause other things to happen that result in a hazard. |
| Warning | An event that alone poses a significant threat to public safety and/or property, probability of occurrence and location is high, and the onset time is relatively short. |
| Watch | Meets the classification of a warning, but either the onset time, probability of occurrence, or location is uncertain. |
| Advisory | A message containing follow up information to a warning, watch, or emergency. |
| Test | System testing. |

11/9/2016

I. OVERVIEW

For the EAS to function properly for every activation (test or actual emergency alert), standard operating procedures (SOPs) must be outlined for all operators of EAS equipment. These SOPs must be adhered to every time for the EAS to work. This annex will provide the information necessary for all EAS participants to perform their assigned tasks.

II. ORIGINATION PROCEDURES

A. National Weather Service personnel

NWS issue EAS weather alerts using a variety of methods through the NWS Family of Services, which includes NOAA weather radio (NWR) and FEMA IPAWS OPEN. As of this plans writing, Minnesota NWS forecast offices will originate the Tornado (TOR) and Flash Flood (FFW) warning via IPAWS OPEN. This is in addition to originating all weather emergency alerting via NOAA weather radio.

Transmission of warnings over NWR will include the 1050 Hz alert tone followed by the SAME/EAS preamble header code, the reading of the weather emergency message, and finally the end-of-message (EOM) code.

NOAA weather radio can also transmit non-weather messages (NWEM). Under local agreement, PSAPs/Public Safety or Emergency Management can provide emergency messages to their local NWS office for broadcast on the NOAA Weather Radio

B. Emergency Services personnel.

PSAPs & EOCs may distribute EAS alerts in several ways.

Options include:

- 1. Deployment of third party software that integrates with their current emergency management application software. This "add-on" feature is activated, after authorized as a "COG", will offer the ability to originate a CAP alert directly to FEMA IPAWS OPEN.
- 2. Partner with other local PSAP/Public Safety/Emergency management to centralize the alert origination process.
- 3. Purchase a stand-alone "box" that offers ability to simultaneously originate an EAS and IPAWS OPEN alert.

They may purchase and program an IPAWS encoder of third party software and connect it to the IPAWS server managed by FEMA. This can be used to send out alerts directly to EAS participants. Alerting agencies may also send out non weather emergency alerts to their local NWS office, who will then relay the message on the NOAA weather radio system. Methods for getting messages to the NWS include 800 MHz radio, email, fax, and telephone. See annex L for the NWS office in your local area and contact information.

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C. Elected Officials

The Governor's office may initiate EAS alerts, the office will coordinate with HSEM for distribution.

D. Broadcast and Cable Operators

EAS participants must follow part 11 of the FCC rules and regulations. http://www.fcc.gov/encyclopedia/emergency-alert-system-eas

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III. FORMATS AND SCRIPTS

A. Statewide Distribution

The state EOC will transmit the following message to all Minnesota broadcasters and cable operators via the State Relay network during a statewide activation:

interrupt regular programming

send EAS header code three times

(1 second pause)

send EAS attention signal [8 seconds]

(1 second pause)

read intro. script:

"We interrupt this program because of a State of Minnesota emergency.

Important information will follow."

read Governor's intro. script:

"The Governor has declared statewide emergency. The following is an announcement from the Governor of the State of Minnesota."

Governor or authorized designee gives live address [not to exceed 1 minute, 30 seconds]

read termination script:

"This concludes this EAS activation.

(1 second pause)

send EAS end-of-message code three times

(1 second pause)

resume regular programming

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B. Local Distribution.

The local EOC will transmit the following message to local broadcasters and cable operators via CAP or the NWS for local activation:

interrupt regular programming

send EAS header code three times

(1 second pause)

send EAS attention signal [8 seconds]

(1 second pause)

read intro. script:

"We interrupt this program because of a local emergency. Important information will follow."

read intro. script:

"The (*local authority*) has declared local emergency. The following is an announcement from the (*local authority*)."

Message is broadcast or otherwise delivered. [not to exceed 1 minute, 30 seconds]

read termination script:

"This concludes this EAS activation.

(1 second pause)

send EAS end-of-message code three times

(1 second pause)

resume regular programming

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C. AMBER Distribution

The state BCA will transmit the following message to all Minnesota broadcasters and cable operators via WCCO and the State Relay network during an AMBER activation:

interrupt regular programming

send EAS header code three times [with event code CAE]

(1 second pause)

send EAS attention signal [8 seconds]

(1 second pause)

read intro. script:

"We interrupt this program because of a child abduction announcement. Important information will follow."

read BCA intro. script:

"The Emergency Alert System has been activated for a Child Abduction Alert"

The BCA duty officer will read the BCA AMBER alert information.

read termination script:

"This concludes this EAS activation. All broadcast stations and cable systems

may now resume normal operations."

(1 second pause)
send EAS end-of-message code three times
(1 second pause)

resume regular programming

I. TRAINING

Proper training must be maintained for the EAS to succeed. Alert Originators are required to complete at a minimum the FEMA IS-247 course. It is recommended for all other EAS Participants to take it for an overview of the IPAWS program. See FEMA training website for details on courses 247 and 248.

http://training.fema.gov/EMIWeb/IS/courseOverview.aspx?code=is-247.ahttp://training.fema.gov/EMIWeb/IS/courseOverview.aspx?code=IS-248

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II. OVERVIEW OF TESTING THE EAS

The following requirements for both the Required Weekly Test (RWT) and the Required Monthly Test (RMT) apply to all broadcasters and cable operators. Even stations that have elected not to participate in local EAS notifications must still rebroadcast verbatim the RMT every month within 60 minutes of its receipt.

There are two exceptions for broadcasters to these rules: 1) Class "D" FM (power output 10 watts or less) and LPTV (low-power TV) stations need not have an EAS *encoder*, but they must have a *decoder*. These stations are exempt from running the RWT digital code test, however, they must retransmit the RMT minus the header codes and attention signal. In addition, LPTV stations must present all EAS information visually, just as all other television stations must do. 2) The second exception is that FM translator and TV translator stations are not required to have *any* EAS equipment.

Wired and Wireless Cable systems:

EAS participants should reference FCC rules and regulations part 11 for testing responsibilities. http://www.fcc.gov/encyclopedia/emergency-alert-system-eas

III. TESTING TYPES AND PROCEDURES

A. Required Weekly Test

All broadcasters and cable operators, with exception of those noted earlier, must transmit an RWT once each week, on random days and times, except for the week of the Required Monthly Test. There are no time-of-day restrictions for transmitting the RWT. Reception of an RWT must be logged, but no further action is required.

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B. Required Monthly Test

The RMT is to be initiated by HSEM, or the BCA Duty Officer based on the schedule in Section IV of this annex. During the designated week for this test, all other broadcasters and cable operators are to standby for this test and then retransmit it within 60 minutes of reception. Re-transmission of the RMT within 60 minutes is an FCC requirement, not an option. For daytime- only stations receiving a night-time RMT, this test must be re-transmitted within 15 minutes from sign-on. Transmission of the RMT takes the place of the RWT for that week. Times should be logged for both the receipt and re-transmission of an RMT. All incoming information, including audio, must be retransmitted exactly as received except for the location code portion of the digital preamble.

C. National Periodic Tests (NPT)

FEMA will schedule and originate the National Periodic Test (NPT) yearly. This test must be auto-forwarded immediately after reception.

D. Missed Tests

If you miss a RWT or RMT, follow these steps:

- Check operational status of the EAS encoder/decoder unit. Check system logs, confirm receivers are working OK for good signal, good audio level, and no audio distortion of the incoming broadcast. Also check for IPAWS OPEN connectivity.
- 2) Post an inquiry to the Minnesota EAS list server. See if other PN have experienced similar issue(s). Try to determine if the source of the test did in fact broadcast it.
- 3) Call the originating source for the test to confirm they are not having issues on their end.
- 4) Log any information gleaned from the above steps into the EAS log.

IV. TESTING SCHEDULE FOR RMT

HSEM, and the BCA Duty Officer need to follow this plan for timely distribution of the test.

All Minnesota Statewide EAS RMT's will happen on the first Wednesday of the month.

The State Relay network will originate or relay the state RMT at either 14:19:00 or 22:58:00 depending on the month, over the MPR Talk network, RMTs will be relayed later in the hour over the MPR Music network. The schedule appears below.

Daytime (Jan, Mar, May, July, Sept, Nov) EAS RMT's are scheduled for the following times:

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State HSEM Origination 13:54 via CAP to MPR and WCCO.

When the daytime RMT falls on a holiday, the BCA Duty Officer will originate.

WCCO will retransmit within the hour

Statewide via MPR Talk: 14:19 PM

Statewide via MPR Music later in the 14:00 hour.

Night time (Feb, Apr, Jun, Aug, Oct, Dec), EAS RMT's are scheduled for following times:

State BCA Duty Officer Origination 22:44 via circuit to MPR and WCCO.

WCCO will retransmit within the hour

Statewide relay via MPR Talk: 23:00

Statewide via MPR Music later in the 23:00 hour.

V. TEST CODES

A. Time-Duration

The time-duration to be used in the EAS header code for all EAS tests should be 30 seconds.

- E. County-Location Codes: The county-location codes used in the EAS header for all EAS tests must conform to the following guidelines:
 - 1. State Relay stations: All tests, RWT and RMT must use the location code for the entire state of Minnesota (27000).
 - 2. All EAS participants: RMT tests shall be re-transmitted unchanged, except for the EAS Participants Location Code. The RMT will include all counties present in the original message.
 - 3. For the RWT originated each week by all EAS participants, the county-location code should be used for the county of the broadcaster's City of License or cable operator's Community of License. Other counties in the station's/system's service area may be added at management discretion.

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VI. TEST FORMATS AND SCRIPTS

Required Weekly Test announcements and visual messages are optional for this test. Only the EAS digital header code is required for transmission. Log when this test is performed.

The following test scripts and formats should be used by all Minnesota broadcasters, cable operators and emergency agencies when originating EAS tests.

A. RWT

Review the FCC Handbook.

2016 EAS Handbook

stop regular programming announce:
"This is a test of the Emergency Alert System."

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B. RMT

The agent originating this test should use the following format and script. All other broadcasters and cable operators will receive the test in this format and must re-transmit it within 15 minutes in the same format.

stop regular programming optional intro.:

"This is a test of the (local area) Minnesota Emergency Alert System."

TV/Cable - insert an appropriate "slide" for video

(one-second pause)

send EAS header code three times [All sources must use Event Code "RMT"] (one-second pause)

send EAS attention signal, 8 to 25 seconds in length

test script:

"This is a coordinated monthly test of the broadcast stations in your area. If this had been an actual emergency official messages would have followed the alert tone. This concludes this test of the Emergency Alert System."

(one-second pause)

send EAS end-of-message code three times

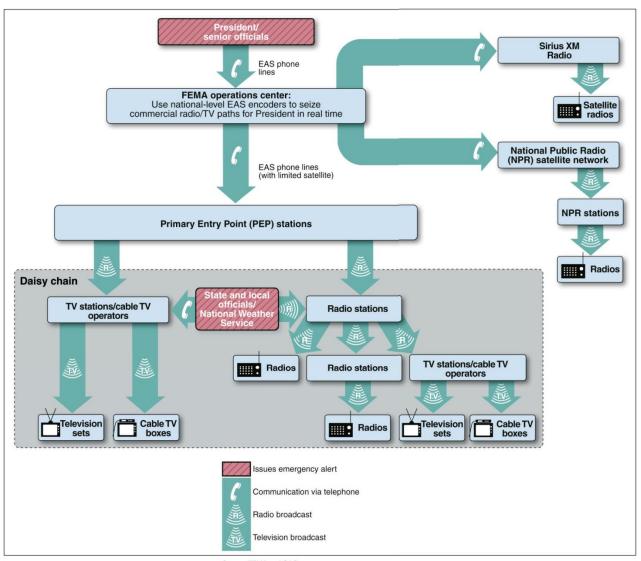
(one-second pause)

resume normal programming

Annex F: Organizational Charts

11/9/2016

Chart A: Interrelationship of Organizations during National EAS Activation



Source: FEMA and GAO.

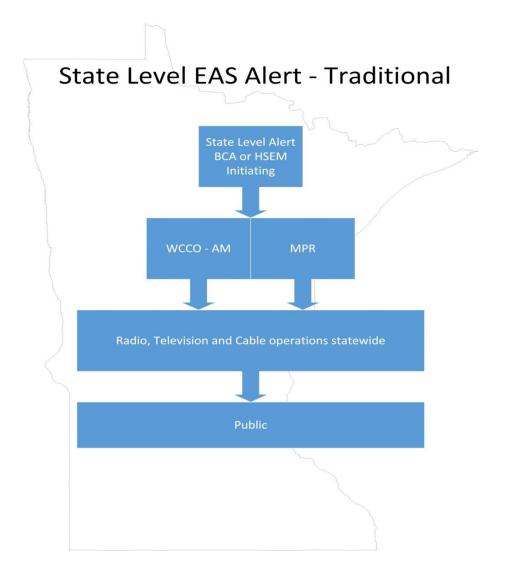
While FEMA is responsible for administering EAS at the national-level, FCC adopts, administers, and enforces rules governing EAS.

Reference: GAO-13-375 Emergency Alerting Capabilities

Annex F: Organizational Charts

11/9/2016

Chart B: Interrelationship of Agencies during State EAS Activation



Annex G: MN IPAWS Policy Subcommittee Members

11/9/2016

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Schindeldecker, Amber (DPS) (Amber.Schindeldecker@state.mn.us)

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Denison Hansen Manger ICC, Minnesota Public Radio Telephone: 651 290-1323 dhansen@mpr.org

Don Hepplemann Technologist, Twin Cities PBS Telephone 651 229-1245 dhepplemann@tpt.org

Todd Krause Warning Coordination Meteorologist National Weather Service Chanhassen Minnesota Office Telephone: 952 368-2554 todd.krause@noaa.gov

Lillian McDonald Co-Chair Policy Committee IPAWS Managing Director, Emergency Response Systems, Twin Cities PBS 651 229-1304 LMcDonald@tpt.org

Annex H: Memorandum of Understanding

11/9/2016

MEMORANDUM OF UNDERSTANDING BETWEEN MINNESOTA PUBLIC RADIO (MPR) AND THE MINNESOTA INTEGRATED PUBLIC ALERT WARNING SYSTEM TEAM (MN-IPAWS)

Memorandum of Understanding

Introduction

The Emergency Alert System (EAS) was designed to provide citizens with timely emergency information with regard to major emergencies and disasters, both natural and technological, which pose significant threat to health and safety of the public. The Federal Communications Commission (FCC) developed the EAS to facilitate the communications infrastructure, set up standard rules, and mandate broadcasters and cable operators to acquire and install the necessary EAS hardware and to "voluntarily" participate in EAS.

Purpose

This Memorandum of Understanding between Minnesota Public Radio (MPR) and the Minnesota Emergency Alert System Team (MN-IPAWS) is to establish a broad framework of cooperation with regard to the Emergency Alert System that was established by the Federal Communications Commission (FCC) under Part 11 of the FCC rules and regulations.

Annex H: Memorandum of Understanding

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Recognition

MN-IPAWS recognizes that MPR is a tax-exempt non-profit organization whose mission is to produce and to acquire radio programming of community value; to combine these programs into a non-profit radio service of the highest quality for broadcast through a network or radio stations to the people of Minnesota and its border communities; and to reflect the culture, events, issues and ideas of Minnesota and its people in radio broadcasts designed for national and international audiences.

MPR recognizes that MN-IPAWS is made up of representatives of committed Broadcasters, Cable Operators, State and Local Emergency Management agencies, the National Weather Service, and other public and private organizations that have a role with the EAS; MN-IPAWS is responsible for coordination of the Emergency Alert System for the citizens of Minnesota.

Principles of Cooperation

So that communications facilities of the Minnesota Public Radio network may be utilized to the extent required by the Minnesota Statewide EAS Plan, and to the extent permitted or required by law and regulation, Minnesota Public Radio and the Minnesota Emergency Alert System Team have agreed with the following:

- 1. MPR will provide their radio network for immediate transmission of the National Level Emergency Action Notification (EAN) and Emergency Action Termination (EAT) which originate from the office of the President of the United States;
- 2. MPR will provide their radio network for transmission of the scheduled Required Monthly Test (RMT) which originates from sources authorized by the Minnesota EAS Statewide Plan;
- 3. MPR will provide their radio network for transmission of all Statewide EAS alerts originating from the Governor or his or her authorized representative, the Minnesota Bureau of Criminal Apprehension and Minnesota HSEM;
- 4. MPR will continue to maintain redundant audio paths from the Primary Entry Point (PEP) station and the State Emergency Operations Center to MPR HQ;
- 5. MN-IPAWS will work with MPR in obtaining the necessary financial resources to establish a reliable EAS CAP distribution network by officially requesting from the state one item: A Common Alert Protocol server. This equipment will be used at the MPR network facility to act as a back up to the FEMA CAP server. The proposed server will be initially owned by the state and maintained by MPR.
- 6. MPR will take ownership of the server in (1) year after the installation date, (with the state having a security interest for an additional two (2) years.) This assumes that MPR will be providing statewide EAS distribution at that time;

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- 7. One representative of MPR will become a member of the MN-IPAWS. He/she will sit on the main team and the Technical Sub-committee;
- 8. MN-IPAWS will distribute copies of this agreement through channels to its own organization, and other organizations, both public and private, which may have an active interest in distribution of National and State level EAS alerts and tests. In addition, this agreement will be included in the official EAS state plan;
- 9. MN-IPAWS will hold MPR harmless from any liability MPR may incur due to MPR's activities hereunder.

Implementation

This memorandum shall take effect upon its signing by authorized representatives of the MPR and the MN-IPAWS. This memorandum may be amended by mutual agreement of both parties and will remain in effect until terminated. MPR and MN-IPAWS will review this agreement and coordinate such revisions as may be necessary on an annual basis or as needed. Upon 90 days written notice, this memorandum may be terminated by either party.

Annex I: Plan Review Schedule

11/9/2016

Schedule

The Minnesota EAS Statewide plan will be reviewed every two years at a minimum. Beginning in 2016 and every 2 years thereafter, the MN-IPAWS committee or its equivalent will meet and review the plan, updating as necessary. The plan may be reviewed and edited at other times as conditions warrant.

Annex J: Glossary of Terms

11/9/2016

CAP - Common Alerting Protocol

CMSAAC - Commercial Mobile Service Alerting Advisory Committee

COG – Collaborative Operating Group

DEAS - Digital Emergency Alert System

EAS - Emergency Alert System <u>www.fcc.gov/pshs/services/eas</u>

EAN – Emergency Action Notification alert

EMA - Emergency Management Agency (See FEMA)

EOC - Emergency Operations Center

FCC - Federal Communications Commission www.fcc.gov

FEMA - Federal Emergency Management Agency www.fema.gov

HAZcollect - All-Hazards Emergency Message Collection System

HD Radio - A trademark of iBiquity Digital Corporation, covering a type of In-Band On Channel (IBOC) digital radio transmission which they license. www.hdradio.com

IPAWS – Integrated Public Alert Warning System

LP - Local Primary (Station)

NAB - National Association of Broadcasters www.nab.org

NASBA - National Alliance of State Broadcaster Associations www.nasbaonline.net

NCMEC - National Center for Missing & Exploited Children www.ncmec.org

NCTA - National Cable and Telecommunications Association www.ncta.com

NEMA - National Emergency Management Association www.nemaweb.org

NIMS - National Incident Management System www.fema.gov/emergency/nims

NOAA - National Oceanic and Atmospheric Administration www.noaa.gov

NPT – National Periodic Test

NRSC - National Radio Systems Committee www.nrscstandards.org

NWEM - Non-weather emergency message

NWR - NOAA Weather Radio (see also NOAA) www.nws.noaa.gov/nwr

NWS - National Weather Service www.nws.noaa.gov

Annex J: Glossary of Terms

11/9/2016

PEP - Primary Entry Point, a special station used for POTUS EAN alert code

PDA - Personal Digital Assistant

PN – Participating Nationals, all media organizations operating under FCC part 11 rules.

POTUS – President of the United States

R&O - Report and Order

RBDS - Radio Broadcast Data System

RMT - EAS Required Monthly Test

RWT - EAS Required Weekly Test

SBE - Society of Broadcast Engineers www.sbe.org

SCTE - Society of Cable Telecommunications Engineers www.scte.org

SECC - State Emergency Communications Committee

SR – Statewide relay for EAS distribution

WFO - Weather forecast office

Annex K Description of CAP

11/9/2016

Description of CAP

The Common Alerting Protocol (CAP) is a digital format for exchanging emergency alerts that allows a consistent alert message to be disseminated simultaneously over many different communications systems. FEMA worked with the Organization for the Advancement of Structured Information Standards (OASIS) to develop a standardized international technical data profile that defines a specific way of using the standard for the purposes of the Integrated Public Alert and Warning System (IPAWS).

Benefits of CAP

As more systems are built or upgraded to CAP, a single alert can trigger a wide variety of public warning systems, increasing the likelihood that intended recipients receive the alert by one or more communication pathways. CAP provides the capability to include rich content, such as photographs, maps, streaming video and more as well as the ability to geographically-target alerts to a defined warning area, limited only by the capacity of the delivery system used.

Because CAP provides the capability to incorporate both text and equivalent audio, CAP alerts can better serve the needs of hearing or visually impaired persons. Although IPAWS does not provide translation services, CAP does provide the capability to issue alerts in multiple languages.

Guidance and Technical Documents

- OASIS CAP 1.2 Standard
- OASIS CAP v1.2 IPAWS Profile Version 1.1
- CAP to EAS Implementation Guide

MINNESOTA EAS STATEWIDE PLAN

Revision 9

Annex L: Minnesota National Weather Service Contact Information

11/9/2016

Grand Forks ND:

Telephone: (701) 795-5119 (answered 24/7) (701) 772-0720 (General)

Fax: (701) 772-0751 Email: cr.fgf@noaa.gov

ARMER: SEMTAC and Grand Forks Weather Talk Groups.

Duluth MN:

Telephone: (218) 729-0653 (answered 24/7) (218) 729-0651 (General)

Fax: (218) 729-0690 Email: cr.dlh@noaa.gov

ARMER: SEMTAC and Duluth Weather Talk Groups.

Aberdeen SD:

Telephone: (605) 225-5547 (answered 24/7) (605) 225-0519 (General)

Fax: (605) 225-7417 Email: cr.abr@noaa.gov.

SD Radio Radio Patch to Aberdeen

Minneapolis MN:

Telephone: (952) 361-6671 (answered 24/7) (952) 361-6670 (General)

Fax: (952) 361-6668 Email: cr.mpx@noaa.gov

ARMER: SEMTAC, METEM, and Chanhassen Weather Talk Groups.

Sioux Falls SD:

Telephone: (605) 330-4250 (answered 24/7) (605) 330-4247 (General)

Fax: (605) 330-4248 Email: cr.fsd@noaa.gov

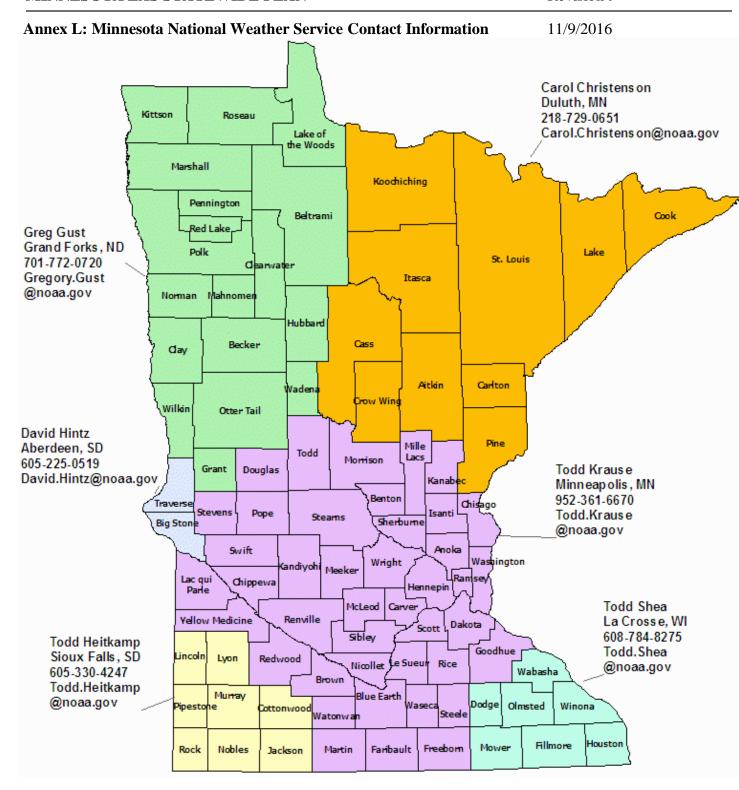
ARMER: SEMTAC and Sioux Falls Weather Talk Groups.

La Crosse WI:

Telephone: (608) 784-8292 (answered 24/7) (608) 784-8275 (General)

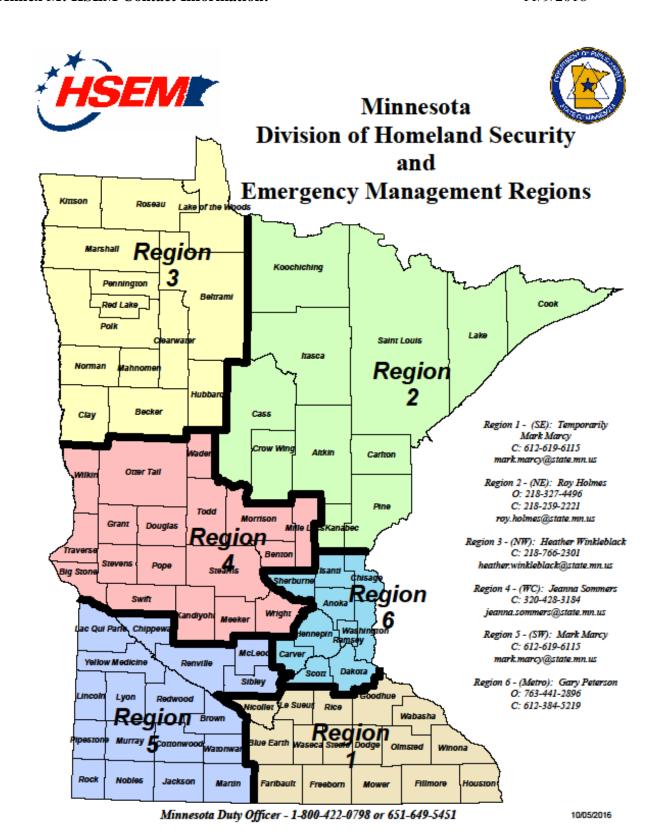
Fax: (608) 784-8238 Email: cr.arx@noaa.gov

ARMER: SEMTAC and La Crosse Weather Talk Groups.



Annex M: HSEM Contact Information:

11/9/2016



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Annex N: Minnesota FIPS Codes:

11/9/2016

