EMERGENCY ALERT SYSTEM

PLANS AND PROCEDURES

For

LARIMER / WELD COUNTIES

OPERATIONAL AREA TWO

Updated October 19, 2016

Revision D

INDEX

LOCAL AREA TWO
EMERGENCY ALERT SYSTEM
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FOR LARIMER AND WELD COUNTIES

I.   INTRODUCTION

This Plan provides specific procedures for the broadcast and cable media to disseminate emergency information to the general public in the Larimer/Weld County Operation Area (also known as Local Area Two) or any portion there of at the request of designated local, state, and federal officials. This local EAS Plan may be activated on a day-to-day basis in response to such emergencies as tornadoes, power outages, floods, heavy snows, or any occurrence which poses a danger to life or property.

Participation in this Plan shall not to be deemed as a relinquishment of program control, and shall not be deemed to prohibit a broadcast licensee from exercising independent discretion and responsibility in any given situation. FCC rules and regulations provide each broadcast station guidance and regulation in exercising discretion regarding information and instructions to the public. Stations that originate EAS communications shall understand that they have conferred rebroadcast authority. This is done in accordance with the Colorado State Emergency Alert System Plan.

II.   PURPOSE

The purpose of this Plan is to provide procedures agreed upon by the broadcast industry, local area government and participating agencies which will permit the dissemination of emergency information and instruction during potential or actual emergencies.

III.   AUTHORITY

All mandated participants in the Emergency Alert System must have the capability to conduct activations and tests. All voluntary participants may have the capability to conduct activations and tests. Activations and tests may only be done by designated officials in accordance with the local and state plan. Typically, the designated officials will be broadcasters, cablecasters, emergency management offices and public safety officials representing their jurisdictional authority and the National Weather Service. The priority for activations and tests are first - national level messages, second - local area messages, third - state messages and fourth - National Information Center (NIC) messages.

A.   Part 73, Subpart G, Federal Communication Commission Rules and Regulations.

B.   FEMA Civil Preparedness Guide 1-40, 1-41.

C.   Title 47, CFR Part 11, EAS, as amended.

IV. EAS STATIONS: LOCAL AREA 2

Per FCC Rule 47 CFR, 11.52(d), all broadcast stations and subject cable systems must monitor 2 EAS sources assigned in accordance with the monitoring priorities in the EAS Operating Handbook. The following are the Primary Monitoring Sources, LP-1 and LP-2:

LP-1   KUNC-FM   (91.5 FM)

Station Contact: Personnel on duty
Telephone: 970-378-2579
On Air Hours: 24 hours
Frequency: 91.5 MHz

LP-2   KPAW-FM   (107.9 FM)

Station Contact: Personnel on duty
Telephone: 970-416-2560
On Air Hours: 24 hours
Frequency: 107.9 MHz

ADDITIONAL MONITORING SOURCES:

National Weather Service
Contact: Larry Mooney
Telephone: 303-494-4454; 303-494-4479, or 800-287-2498
On Air Hours: 24 hours
Frequency: 162.475 MHz - Front Range; Ft. Collins - 162.450 MHz
               162.400 MHz - Greeley-Sterling

KOA - AM
Contact: Personnel on duty
Telephone: 303-713-8500
On Air Hours: 24 hours
Frequency: 850 KHz

V. EAS PROCEDURES

A.   LOCAL GUIDELINES

Currently in Larimer County there are four Public Safety Answering Points (PSAP) and one in Weld County. In EAS Region Two, also known as "Larimer/Weld", there shall be two primary encoder-decoders: one in the dispatch center for the Weld County Sheriff's Office in Greeley and one in the communications center (Comm Center) for the Larimer County Sheriff's Department. The encoder for the

Sheriff's Office Dispatch site is, as of this writing, not installed but installation is hoped within a reasonably short time.

Various local law enforcement and fire and rescue units are served by these additional dispatch centers and it shall be the responsibility of all such agencies to initiate procedures and guidelines to be utilized if a request for an EAS broadcast is to be made through their respective PSAP. It shall be the responsibility of the EAS Local Area Two (Larimer/Weld) Committee to assist all such agencies in establishing these guidelines. The committee will, however, require that only certain designated officials shall have the authority to activate the system with a broadcast, e.g., senior/command staff officers of law enforcement and fire agencies, emergency management officers and bona fide representatives from area Emergency Operating Centers. It is therefore essential that internal agency lists of authorized personnel be established and maintained by all emergency responders including law enforcement agencies, fire and rescue departments, volunteer or otherwise, and that these lists be conveyed to their respective dispatch centers.

Since many calls for EAS activation will in all likelihood come from the field, it will be important to convey a chain of command and responsibility for activation. An example could be a call originating with an officer observing a tornado. A supervisor with designated activation authority would relay any EAS activation request to the dispatch center where the slave box would pass on the message to the primary encoder-decoder; thereafter to the public through the LP-1 and LP-2 radio stations as listed in this plan. It is anticipated that the primary encoder-decoders would automatically pass on any messages from outlying slave boxes. However, messages originating from the National Weather Service will be monitored to exclude (in most ordinary circumstances) "watches" as opposed to actual warnings. The Larimer/Weld Committee reserves the right to assess this or any other operating procedure for efficacy at any time and to make changes as it deems appropriate. In general, warnings should be issued with the following criteria in mind:

1. Severity - will aid in reducing loss of life or reducing substantial loss of property.
2. Timing - requires immediate public knowledge to avoid adverse impact.
3. Other means of disseminating information are inadequate to insure rapid delivery of emergency notifications.

In the event of exigent circumstances requiring public notification and in the absence of an ability to utilize the encoders at the Sheriff's Offices of Weld and/or Larimer County, command personnel in the field, with the authority to do so, should ask that emergency EAS messages be passed on to the LP-1or LP-2 stations for immediate broadcast.

B.   **PROCEDURES FOR DESIGNATED OFFICIALS**

1. Coordinated activation request of EAS by telephone, with local primary source (LP-1), with LP-2 as a backup. Coordination call assumes that disaster/emergency event has reached a stage where EOC activation is in progress and field notifications and actions need to be supplemented by mass public safety information from government entities.

2. Designated officials use the following format when contacting the LP-1 or LP-2 station:

"This is (name/title) of (organization). I am activating the Emergency Alert System for the Larimer/Weld County Operation Area (or section thereof) because of (description of emergency)." (Use Authentication as noted under paragraph VI. Please stand by to ensure message is received and read it back).

C.   **PROCEDURES FOR STATION PERSONNEL IF EAS FAILS**

1.   If LP-1 goes off air or EAS equipment fails, they are to notify the LP-2 and contact the nearest PEP station, KOA - 303/713-8500, and advise them of the situation.

2.   The LP-2 station now functions as the LP-1.

3.   If, for any reason, the LP-1 station is unable to function as the principal station the LP-2 station will perform this function and monitor 850 AM-KOA Denver, and other local stations will monitor the LP-2 frequency.

4.   Upon resumption of normal programming, notations should be made on the station log, and a brief summary may be sent to the FCC for information only. AM stations that may have used their daytime facilities to cover areas that would not have service during night-time hours, must report this fact to the FCC.

D.   **EAS PROTOCOL**

The EAS uses a four part message for an emergency activation of the EAS. The four parts are: Preamble and EAS Header Codes; audio Attention Signal; message; and, Preamble and EAS of **message** (EOM) Codes. The EAS Protocol, including any codes, must not be amended, extended or abridged without FCC authorization.

E.   **INTERRUPTION OF NORMAL PROGRAMMING**

1.   A broadcast station or cable system is required to interrupt normal programming either automatically or manually, immediately, when it receives an EAS message in which the header contains the EAN and EAT Event Codes. Although not required, broadcast stations and cable systems are encouraged to give state and local emergencies messages the same level of attention.

2.   Automatic interrupt of programming is required when facilities are unattended. Manual interrupt of programming and transmission of EAS messages may be used. EAS messages with the EAN Event Code must be transmitted immediately. Messages with the RMT Event Code must be transmitted within 15 minutes.

3.   All actions must be logged or recorded.

F.   **MESSAGE PRIORITIES**

    1.   A national activation of the EAS for a Presidential message with the EAN Event Code must take priority over any message and preempt if it is in progress.

    2.   EAS participants should transmit other EAS messages in the following order:

        a.   Local Area Messages
        b.   State Messages
        c.   National Information Center Messages

G.   **PARTICIPATION SCHEDULE**

    1.   All radio and television stations shall transmit EAS messages in the main audio channel. Television stations shall transmit a visual message containing the Originator, Event, Location and the valid time period of an EAS message. If the message is a video crawl it shall be displayed at the top of the screen or where it will not interfere with other visual messages.

    2.   As the Federal Communications Commission Rules require, cable systems shall transmit EAS messages in the same manner as broadcast television and radio stations. Additionally, cable systems must:

        a.   Provide a video interruption and audio EAS message on all channels. The audio message must state which channel is carrying the visual EAS message.

        b.   Transmit a visual EAS message on at least one channel. The visual message shall contain the Originator, Event, Location and the valid time period of the EAS message. If the message is a video crawl, it shall be displayed at the top of the screen or where it will not interfere with other visual messages.

        c.   Provide a method to alert hearing impaired or deaf subscribers to EAS messages

VI.   AUTHENTICATION

A.   All telephone or radio requests will be authenticated.

B.   An "Authentication Code" for phone activation will be given to each agency by the local EAS Committee Chairperson. Please secure this code at a key location at your station.

C.   **EAS ORIGINATOR CODES (ORG):**

Originator codes are include in the message header and indicate who originally initiated the

activation of the EAS. There are only four such codes and are noted as follows:

1. Broadcast Stations or Cable System .... EAS
2. Civil Authorities CIV
3. National Weather Service .... WXR
4. Primary Entry Point System .... PEP

D.   EAS EVENT CODES (EEE)

Event codes are included in the message header and indicate the nature of the EAS activation.

1.   National Codes:
a) Emergency Action Notification (Nat'l Only)................................... EAN
b) Emergency Action Termination (Nat'l Only) .... EAT
c) National Information Center... NIC
d) National Periodic Test... NPT
e) Required Monthly Test .... RMT
f) Required Weekly Test.. RWT

2. Local Codes:
a)   Administrative Message .... ADR
b)   Avalanche Warning…………………………………….......... AVW
c)   Avalanche Watch…………………………………………… . AVA
d)   Blizzard Warning... BZW
e)   Child Abduction Emergency…………………………………..CAE
f)   Civil Danger Warning…………………………………………CDW
g)   Civil Emergency Message .... CEM
h)   Dust Storm Warning………………………………………… DSW
i)   Earthquake Warning………………………………………….. EQW
j)   Evacuation Immediate.. EVI
k)   Fire Warning…………………………………………………. FRW
l)   Flash Flood Statement.. FFS
m) Flash Flood Warning .... FFW
n)   Flash Flood Watch... FFA
o)   Flood Statement.. FLS
p)   Flood Warning... FLW
q)   Flood Watch... FLA
r)   Hazardous Materials Warning…………………………………HMW
s)   High Wind Warning.. HWW
t)   High Wind Watch .... HWA
u)   Law Enforcement Warning…………………………………….LEW
v)   Local Area Emergency………………………………………... LAE
w) Network Message Notification……………………………….... NMN
x)   911 Telephone Outage Emergency…………………………….TOE
y)   Nuclear Power Plant Warning……………………………...…..NUW
z)   Practice/Demo Warning .... DMO
aa) Radiological Hazard Warning……………………………….... RHW

bb) Severe Thunderstorm Warning... SVR
cc) Severe Thunderstorm Watch .... SVA
dd) Severe Weather Statement... SVS
ee) Shelter in Place Warning…………………………………………….. SPW
ff) Special Weather Statement.. SPS
gg) Tornado Warning.. TOR
hh) Tornado Watch... TOA
ii) Winter Storm Warning.. WSW
jj) Winter Storm Watch... WSA

E. **EAS LOCATION CODES (PSSCCC)**

1.   The Location Codes indicate the geographic areas affected by the EAS alert. There may be 31 Location Codes in an EAS alert. The Location Codes uses the Federal Information Processing System (FIPS) numbers. Each state is assigned an SS number and each county is assigned a CCC number. P defines county subdivisions.

2.   Operation Area Two - Location Codes

   a.   Colorado Entire State...............................008000

   b.   All of Larimer..008069 (North 208069)
                                                                (South 808069)

   c.   All of Weld...008123 (North West 108123)
                                                                (West   408123)
                                                                (South West 708123)

   d.   All of Ft. Collins.....................................008069

   e.   All of Greeley...008123

F. **AUTHENTICATION**

1.   State or Local area emergency messages are not authenticated with a word list. LP-1 authorized personnel should be familiar with persons who may request activation of the EAS. An EAS message should not be saved unless the originator is absolutely certain as to the validity of the messages, and the identity and authority of the requester.

G. **IMPLEMENTATION**

1.   Procedures for Designated officials

   a.   Request activation of the EAS facilities through the LP-1 via phone or other available communications facility.

b.   Designated officials should use the following format when contacting the key EAS sources:

"THIS IS (NAME/TITLE) OF (ORGANIZATION). I REQUEST THAT THE EMERGENCY ALERT SYSTEM BE ACTIVATED FOR THE (AREA) BECAUSE OF (DESCRIPTION OF EMERGENCY)."

c.   Upon authentication, designated officials and EAS source personnel determine transmission details (e.g., live or recorded, immediate or delayed). Officials should provide emergency program material including a description of the emergency, action being taken by local government, and instructions to the public.

d.   Keep line of communication open if necessary and possible.

e.   For a unique emergency not involving the entire local area, local authorities may request activation of the EAS be limited to a specific geographic area

2.   Procedures for Emergency Management, Dispatch or other LP-1 Broadcast Personnel.

a.   Upon receipt of a request to activate the local EAS from appropriate authority (verify authenticity via method described above), the LP-1 may proceed as follows:

1.   Broadcast the following announcement:

"WE INTERRUPT THIS PROGRAM BECAUSE OF A LOCAL EMERGENCY. IMPORTANT INFORMATION WILL FOLLOW."

2.   Transmit the EAS header codes and Attention Signal.

3.   Transmit the following announcement and material:

"WE INTERRUPT THIS PROGRAM TO ACTIVATE THE EMERGENCY ALERT SYSTEM FOR THE (LOCAL AREA) BECAUSE OF A) LOCAL EMERGENCY)."

4.   To terminate the EAS message, Make the following announcement:

Transmit EOM

"THIS CONCLUDES EAS PROGRAMMING. ALL
BROADCAST

**STATIONS AND CABLE SYSTEMS MAY NOW RESUME
NORMAL OPERATIONS".**

3.   Procedures for Broadcast and Cable Systems Personnel (EAS
         Relay LP-2's):

a.   Messages containing EAN, EAT and RMT Event Codes,
along with accompanying location codes within a station or
services Area of Responsibility shall be relayed unchanged
except for the call-sign of the rebroadcasting station or service.

b.   Broadcast stations and cable systems monitoring key
EAS Sources (LP-1's) via EAS encoder/decoders will be alerted
by the header codes and attention signal. Each station and cable
system, upon receipt of the signal, will review the message content.
Local EAS messages will be released for relay over their system
at the discretion of the station management.

c.   If broadcast personnel believe the audio message lacks
quality, clarity or does not properly address the listening or
viewing public within the stations Area of Responsibility, at the
discretion of station management, the audio message may be
replaced. The rebroadcast of modified emergency information
is completed as outline above.

d.   To avoid unnecessary escalation of public confusion,
all stations and cable systems must be cautious in providing
news and information pertaining to the emergency. All
messages must be based on definite and confirmed facts. The
public must not be left to decide what is or what is not fact.

e.   Upon completion of the above transmission procedures,
resume normal programming. Appropriate notations should be
made in the station and cable system records.

VII. EAS TESTS

A.   **REQUIRED MONTHLY TESTS (RMT)**

Required monthly tests will conform with the procedures in the EAS Operation
Handbook and shall include the EAS header codes, Attention Signal, Test Script
and EOM code. Federal and State tests will be made at the discretion of those
government entities.

1.   On random days and times, RMT's in odd numbered month shall occur
between 8:30 am and local sunset. Tests in even numbered month shall occur between
local sunset and 8:30am and on random days and times.

2.	Originator of RMT's will be coordinated between the States Office of Emergency Management, Local (County) Offices of Emergency Management and the National Weather Service per the following figure:

These monthly tests must be transmitted within one hour of receipt by broadcast stations and within 15 minutes of sign on for those stations who received the test while off air, and cable systems in the EAS location when required by the commission. If a daytime station receives an RMT overnight, the station may choose to substitute an RWT in its place, if one has been sent during the current week, or send their own RMT at another time during the current week.

MONTHLY EAS TEST

Audio intro is suggested to explain the test, but is not required:

THIS IS THE REQUIRED MONTHLY TEST OF THE LARIMER/WELD   COUNTY EMERGENCY ALERT SYSTEM.

EAS Header:	**REQUIRED**

Two Tone Attention Signal:	**REQUIRED**

Audio Message:

THIS IS A COORDINATED MONTHLY TEST OF THE BROADCAST STATIONS OF YOUR AREA. EQUIPMENT THAT CAN QUICKLY WARN YOU DURING EMERGENCIES IS BEING TESTED. IF THIS HAD BEEN AN ACTUAL EMERGENCY SUCH AS SEVERE WEATHER OR CIVIL EMERGENCIES THAT MAY OCCUR IN THIS GEOGRAPHIC AREA, OFFICIAL MESSAGES WOULD HAVE FOLLOWED THE ALERT TONE.

THIS STATION SERVES THE LARIMER AND WELD COUNTY AREA. THIS CONCLUDES THE TEST OF THE EMERGENCY ALERT SYSTEM.

EAS EOM:	**REQUIRED**

WEEKLY TEST

Audio intro is suggested:	**AUDIO EXPLAINING THE WEEKLY TEST AND THE EAS SYSTEM**

EAS Header:	**REQUIRED**

EAS EOM:	**REQUIRED**

3.   Required monthly tests (RMT): **See Appendix "G".**

B.   REQUIRED WEEKLY TESTS (RWT)

1.   Required Weekly Tests will conform with the procedures in the EAS Operating Handbook and shall include the EAS header codes and the EOM Code only.

2.   Broadcasters and cable stations are required to conduct Weekly Tests, per FCC rules. Appropriate notations should be made in the station and cable system records.

3.   Required Weekly Tests must be conducted at least once per week at random days and times.

4.   An RWT is not required during the week that a monthly test is conducted or relayed.

C.   The broadcast station or participating cable system is required to receive and send a test once a week. If no tests are received "during a week", the station shall investigate the reason for the test's absence and attempt to correct the problem, insofar as the difficulty is within the control of the broadcaster.

VII. APPENDIXES

Appendix A: Designated officials and their phone numbers
Appendix B: Broadcast stations with phone numbers (monitoring assignments)
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APPENDIX A

DESIGNATED OFFICIALS AUTHORIZED TO ACTIVATE
OPERATIONAL AREA EMERGENCY BROADCAST SYSTEM

LARIMER COUNTY ....Emergency Manager......................Office: 970-498-5310
Frequency: 154.385 MHz FireNet
   On call coordinator can be accessed through Sheriff's Office Dispatch: 970-416-1985

WELD COUNTY ....Emergency Manager ....Office: 970-304-6540
 Frequency: Fire A 153.785 & Fire B 154.145 MHz   Home: call dispatch below
                                                       24-hr: 970-356-1212

 FORT COLLINS.................................Emergency Manager ....Office: 970-416-2861
                                                   Home: call dispatch below
                                                   24-hr: 970-221-6545

LOVELAND.......................................Fire Dept./Emerg. Mgmt ....Office: 970-962-2519
                                                   Home: call dispatch below
                                                  24 hr.: 970-667-2151

 GREELEY……………………………Emergency Manager………………Office 970-350-9502
                                                   Dispatch 970-356-1212

 ESTES PARK..................................... Fire / Police....................................Office: 800-287-2498
                                                   24 hr.: 970-586-4000

NATIONAL WEATHER SERVICE.. Office: 303-494-4454
                                                   Media: 303-494-4479
                                                   Toll Free: 800-287-2498
                                      Ft. Collins-Loveland frequency 162.475Mhz
                                      Greeley frequency 162.400Mhz

Have your staff check and update these numbers at least semi-annually.

APPENDIX B

MONITORING ASSIGNMENTS FOR
ALL RADIO, TELEVISION, CABLE IN OPERATIONAL EAS AREA 2

KUNC   91.5 FM   LP-1
1901 56th Avenue, Suite 200
Greeley, CO 80634
970-378-2579 or 970-350-0811
970-378-2580 fax
Contact: Ken Broeffle   ken.broeffle@kunc.org
Monitors LP-2, KOA, NWS

KPAW   107.9 FM   LP-2
4270 Byrd Drive
Loveland, CO 80538
970-461-2560
970-461-0118 fax
Contact: Dave Agnew   daveagnew@clearchannel.com
Monitors LP-1, KOA, NWS, Larimer County EOC

KCOL   600 AM
KIIX   1410 AM
KSME   96.1 FM
4270 Byrd Drive
Loveland, CO 80538
970-461-2560
970-0118 fax
Contact: Dave Agnew   daveagnew@clearchannel.com
Monitors LP-1, LP-2

KXBG-FM   97.9 FM
4270 Byrd Drive
Loveland, CO 80538
970-461-2560
970-461-0118 fax
Contact: Dave Agnew   daveagnew@clearchannel.com
Monitors LP-1, KOLZ-FM 100.7 Cheyenne, Cheyenne NWS

KUAD-FM   99.1 FM
KTRR   102.5 FM
KMAX-FM   94.3 FM
600 Main Street
Windsor, CO 80550
970-674-2700
970-686-7491 fax
Contact: Matt Schilz   matt.schilz@townsquaremedia.com
Monitors LP-1, LP-2

KKPL   99.9 FM
3201 E. Mulberry, Unit H
Fort Collins, CO 80524
970-492-0999
970-407-0584 fax
Contact: Matt Schilz   matt.schilz@townsquaremedia.com
Monitors LP-1, KOLZ-FM 100.7 Cheyenne WY, Cheyenne NWS

KARS-FM   102.9 FM
3201 E. Mulberry, Unit H
Fort Collins, CO 80524
970-495-1029 or 970-492-0999
970-407-0584 fax
Contact: Matt Schilz   matt.schilz@townsquaremedia.com
Monitors LP-1, KUWR 91.9 Laramie WY, Cheyenne NWS

KFKA   1310 AM
820 – 11th Avenue
Greeley, CO 80631
970-356-1310
970-356-1314 fax
Contact: Damon Sasso   Damon@1310KFKA.com
Monitors LP-1, LP-2

KGRE   1450 AM
KOLT   92.9 FM
1020 – 9th Street, Suite 201
Greeley, CO 80631
970-356-1452
970-356-8522 fax
Contact: Ricardo Salazar   kgre@msn.com
Monitors LP-1, LP-2

KHNC   1360 AM
2 S. Parish Ave.
Johnstown, CO 80534
970-587-5175
970-587-5450 fax
Contact: Michael Golden   mgrg40@hotmail.com
                  Monitors LP-1, LP-2

KJAC   105.5 FM
1901 56th Avenue, Suite 200
Greeley, CO 80634
970-378-2579 or 970-350-0811
Contact: Ken Broeffle   ken.broeffle@kunc.org
Monitors LP-1, LP-2, KOA, KYGO

KSXT   1570 AM
KCKK   1510 AM
1576 W. 1st Street
Loveland, CO 80537
970-612-1570
970-612-0137 fax
Contact: Michael Taylor, Wes Hood   sfmtaylor@yahoo.com
Monitors LP-1, LP-2 KOA, KYGO

KXWA   89.7 FM
1707 N. Main Street
Longmont, CO 80501
303-702-9293
303-485-1929 fax
Contact: Zach Cochran   zach@wayfm.com
Monitors LP-1, LP-2

KJJD   1170 AM
624 N. Main Street
Longmont, CO 80501
303-651-1170
303-651-2224 fax
Contact: Daniel Casas, Jesse Rodriguez   casas40@yahoo.com
Monitors LP-1, LP-2, KYGO

KEPL   1470 AM
184 E. Elkhorn, Unit J
Estes Park, CO 80517
970-586-9555
970-586-9561 fax
Contact: Greg Carner   info@estesparklive.com
Monitors LP-1 on 90.9 translator, LP-2, KOA

KRKY-FM   102.1 FM
184 E. Elkhorn, Unit J
Estes Park, CO 80517
970-586-9555
970-586-9561 fax
Contact: Christie Wellborn   info@estesparklive.com
Monitors LP-1 on 90.9 translator, LP-2, KOA

KREV-LP   104.7 FM
United Methodist Church
1509 Fish Hatchery Road
Estes Park, CO 80517
970-586-4153
970-586-2991 fax
Contact: Barney Treadway   krev@bajabb.tv
Monitors LP-1 on 90.9 translator, LP-2

KJMP   870 AM
1201 – 10th Street
Cheyenne, WY 82001
307-638-8921
307-638-8922 fax
Contact: Lisa Kendall or Aaron Ishmael   Brenda@1049krrr.com
Monitors LP-1, LP-2   aishmael@radiowyo.com

KCSU   90.5 FM
Lory Student Center
Colorado State University
Fort Collins, CO 80523
970-491-7611
970-491-0602 fax
Contact: Peter Waack   peter.waack@colostate.edu
Monitors LP-1, LP-2

KRFC   88.9 FM
613. S. College Avenue
Fort Collins, CO 80524
970-221-5075
970-221-5126 fax
Contact: Brian Hughes   gm@krfcfm.org
Monitors LP-1, LP-2

KELS-LP   104.7 FM
2308 – 29th Street
Greeley, CO 80631
970-378-1047 office and fax
Contact: Brett Reese   radio@pirate1047.com
Monitors LP-1, LP-2

KKNZ-LP   101.5 FM
1001-A Harmony Road #129
Fort Collins, CO 80525
970-405-0086
Contact: Kaylynn Duvall   kaytrib@hotmail.com
Monitors LP-1, LP-2

KEZF   88.9 FM
1063 F Big Thompson Canyon Road
Loveland, CO 80537
970-669-9200
Contact: Victor Michael   vicmichael@aol.com
Monitors LP-1, LP-2

KLHV   88.3 FM
Educational Media Foundation – K-Love
610 Garrison Street   Suite R
Lakewood, CO 80215
303-205-1234
303-205-8611 fax
Contact: Bob Helms   bhelms@emfbroadcasting.com
Monitors LP-1, LP-2

KFCT-TV   CH22 TV
Fox Television Ch 31
100 E. Speer Blvd.
Denver, CO 80203
303-595-3131   rick.wheeler@foxtv.com
303-566-7631 fax
Contact: Rick Wheeler
Monitors LP-1, LP-2, Area 3 KOA, KYGO

KZFC   CH36 TV
KMGH-TV Channel 7
123 Speer Blvd
Denver, CO 80203
303-832-7777
303-832-0294 fax
Contact: Rick Craddock   rick.craddock@kmgh.com
No monitoring requirements for Area 2

COMCAST CABLE
1201 University Avenue
Fort Collins, CO 80521
970-419-3108
970-493-4958 fax
Contact: Mike Agnew   mike_agnew@cable.comcast.com
Monitors LP-1, KIIX1410 AM

COMCAST CABLE
3737 W. 10th Street
Greeley, CO 80631
970-534-1122 office
Contact: Bob McQuitty   bob.mcquitty@cable.comcast.com
Monitors LP-1, KFKA1310 AM

COMCAST CABLE
Loveland – on fiber from Longmont, CO
Is part of Area 3 – Denver.   Loveland part of Longmont / Area 3 Denver
720-490-3852
Monitors LP-1, LP-2

U. S. CABLE
111 W. S. 1st Street
Johnstown, CO 80537
970-587-2243
Number for all U.S. Cable head ends in state of Colorado
Contact: Josh Patchett or Josh Slate   jpatchett@co.uscable.com
Monitors LP1, LP-2

BAJA BROADBAND
405 Stanley Avenue
Estes Park, CO 80517
970-577-0199
970-577-7741 fax
Contact: Rod Patterson   rpatterson@bajabb.tv
719-576-7404
Monitors LP-1 on 90.9 translator, LP-2

APPENDIX C

<u>APPROVALS</u>

This Larimer - Weld Operational Area 2 EAS plan was developed and approved by:

The Larimer - Weld Operational Area Emergency Communications Committee.

This Plan is coordinated with and distributed to all designated officials listed in APPENDIX A and all broadcast stations listed in APPENDIX B.

EAS COMMITTEE CO-CHAIRS:

_____   _____

         (Ken Broeffle)   (Erik Nilsson)

STATE EAS COMMITTEE APPROVAL

_____

             (Justin Sasso)

APPENDIX D

FIPS Code for All of Larimer County: 008069
FIPS Code for All of Weld County: 008123

INSERT

LARIMER COUNTY FIPS CODE DIVISIONS: Northeastern ½   208069
                                                                          Southeastern ½   808069

WELD COUNTY FIPS CODE DIVISIONS: North West Quad   108123
                                                            West Quad   408123
                                                            South West Quad   708123

APPENDIX E

TERMS

Activation
> The initiation of the EAS by transmission of the EAS codes.

ASCII
> A standard set of text characters with numerical equivalents.

Attention Signal
> Eight seconds of two tones (853 and 960Hz) used as an audio alert.

Audio Frequency Shift Keying (AFSK)
> A digital modulation technique that uses two shifting audio frequencies to transmit binary data.

Authenticator Word Lists
> A list of words that federal officials send prior to official EAS national activation; used to substantiate the information being sent.

Authorization Letter
> The official authorization letter, given by FCC, for a broadcast station to go off the air during a national level activation of the EAS.

Automatic Interruption
> The automatic encoding and transmission of EAS codes for preselected events.

Baud Rate
> The speed of data transmitted, equal to number of elements sent per second (equal to bits per second if a bit is the element).

Bit Rate
> The speed of binary data transmitted, equal to the number of digital bits sent per second.

Certification
An equipment authorization issued by the FCC based on representations and test data submitted by the applicant for equipment designated to be operated without individual   license under Parts 15 and 18 of the rules.

Class D FM Station
A station whose output power is 100-watts or less.

Direct Broadcast Satellite (DBS)
A service intended to deliver satellite signals directly to consumers using small, relatively inexpensive receive stations.

Decoder (EAS)
An electronic device used by EAS participants to receive EAS alerts and to translate the EAS codes into a visual message.

Decoder (Two-Tone)
An electronic device that alerts operators to the reception of the two-tone signal.

Emergency Action Notification (EAN)
The message for national EAS activation.

Emergency Action Termination (EAT)
The message for national EAS termination.

Encoder (EAS)
An electronic device used by EAS participants to originate EAS alerts by creating the EAS codes for transmission to other participants and the public.

Encoder (Two-Tone)
An electronic device that produces the two-tone signal.

EOM Code
In ASCII from 'NNNN', this burst of data, sent three times signifies the end of an EAS message and EAS activation.

Event Codes
A three character ASCII code in the EAS headers that denotes the type of cause of emergency event.

Federal Emergency Management Agency (FEMA)
One of the three federal agencies that administer EAS.

FIPS Number
A five character ASCII code in the EAS header that represent those counties affected by an EAS activation, as defined by the Federal Information Processing System that assigns each state and territory with their respective counties a five digit number.

Header Code

A signal string of intelligence digital EAS ASCII data that includes the originator, event, location, time period, and other basic information concerning an emergency; three header codes precede the voice warning message.

Julian Calendar

A method of specifying the date by the number of days which have passed since the first day of January in a year.

Key Source

A source which is central to the dissemination of emergency alerts and information, such as an NP, SP, or LP broadcast station or cable system.

Local Primary (LP)

A key source within an EAS local area that is the primary source of EAS programming for that area.

Location Code

An ASCII code in an EAS header that Specifies the location of an emergency utilizing the five character FIPS code of a state and county, and a sixth character to designate nine divisions of a county.

Low Power television (LPTV)

A television signal translator station which also originates programming.

Mapbook

A list of broadcast stations and cable system and their EAS designated delineated by state and local area for use by other stations to determine the best source of EAS   monitoring; an FCC generated attachment to every state plan.

Mark Frequency

The audio frequency of AFSK modulation that corresponds to a digital bit of one (1); the mark frequency of EAS codes is 6250/3 Hz, or approximately 2083.33 Hz.

Monitoring Assignment

The off-air broadcast or cable sources of EAS activation's and programming as given in the FCC Mapbook and the state plan.

National Control Point Procedures

Those national EAS procedures used by national networks and program suppliers.

National Information Center (NIC)

A source of official federal government information.

National Oceanic and Atmospheric Administration (NOAA)
One of the three federal agencies that participate in EAS.

National Periodic Test (NPT)
Tests of National Primary sources.

National Primary (NP)
A primary source of Presidential or other national EAS activation's and programming, including broadcast stations involved with the PEP system and EAN Networks.

National Weather Service (NWS)
An operation of NOAA that is directly responsible for issuing local weather-related emergency alerts and warnings in addition to day-to-day forecasts and other weather.

NOAA Weather Radio (NWR)
A service of the National weather Service that provides, to a local area, continuous broadcasts of the latest weather information and any weather-related emergency warnings using one of seven VHF radio channels.

Non-participating National (NN)
An EAS source (usually a broadcast station) that has elected not to participate in the National-Level EAS and removes its carrier from the air if a national -level activation occurs.

Operating Handbook
A document issued by the FCC that instructs broadcast stations and cable personnel of the actions they must take during an activation of EAS.

Operator Interruption
The transmission of the EAS activation which has been manually initiated by broadcast station or cable system personnel.

Originate Code
A three ASCII code in an EAS header which denotes the source of an activation.

Participating National (PN)
Broadcast stations, cable systems , or MDS stations which monitor sources of EAS programming and directly feed emergency alerts to the public.

Pre-selected Code
An EAS event which the operator of EAS equipment has chosen to be automatically encoded and retransmitted upon reception.

Primary Entry Point (PEP)
Key broadcast stations throughout the U.S. which together can provide national emergency information in the event that the primary national alerting methods are inoperable.

Protocol
A standard set of guidelines by which digital information is encoded and decoded, including the common code structure, the character set used, the sequence and timing of codes, and modulation technique used for radio transmission.

Program Priorities
The precedence of the information that must be transmitted during an EAS activation, namely national, local, and state activation's in that order.

Radio Broadcast Data System (RBDS)
A defined protocol for data that is transmitted on the 57 KHz subcarrier of FM radio broadcast stations utilized mainly by consumer devices equipped to receive it.

Required Monthly Test (RMT)
A coordinated monthly test of EAS operation involving the full receiving and transmission of EAS codes, Attention Signal, EAS test programming, and EAS EOM codes.

Required Weekly Test (RWT)
An independent weekly test of EAS equipment only involving the decoding and encoding of EAS header codes and EOM codes.

RS-232
A common interface standard which specifies the mechanical connection, electrical signals, and the function of the signals carried across the interface.

Space Frequency
The audio frequency of AFSK modulation that corresponds to a digital bit of zero (0); the space frequency of EAS codes is 6250/4 Hz, or 1562.5 Hz.

State/Local Plan
A document that details monitoring assignments, actions to be taken in emergency activation's, and other guidance for broadcasters and cable personnel in use of the EAS.

State Primary (SP)
A primary source of EAS state programming which can originate with Governor or designated representative, such as a state's emergency operations officer.

State Relay (SR)
An entity which receives and retransmits EAS activation's in a State Relay Network to assist in bringing a state activation to all EAS local areas of a state.

State Relay Network
A system of facilities used to distribute state EAS activation's and programming across a state.

Subcarrier
An inaudible portion of the broadcast signal that is added to the program signal of the FM or

TV sound and these can include the FM 57 KHz, 67 KHz, 69 KHz, and 92 KHz and the TV Subsidiary Communications Services.

Subsidiary Communications Services
A subcarrier of television and FM stations providing a second audio programming source.

UTC
Coordinated Universal Time, the world-wide common time standard that is issued in EAS headers for time stamp.

Valid Code
An EAS header which has been matched bit-for-bit with one of the two other received headers thereby checked for validity.

WRSAME
Weather Radio Specific Area Message Encoder, a device used by National Weather Services to broadcast WRSAME data on the National Weather Radio for day-to day forecast and weather related emergency announcements.

ACRONYMS

AFSK .... Audio Frequency Shift Keying
AM .... Amplitude Modulation AP
.... Associated Press ASCII
.... American Standard Code For Information Interchange
AVA…………………………………………… Avalanche Watch
AVW…………………………………………... Avalanche Warning BPS
.... Bits per Second
BZW .... Blizzard Warning CATV
.... Cable Television
CAA .... Comprehensive Cooperative Agreement
CAE…………………………………………… Child Abduction Emergency
CDW…………………………………………… Civil Danger Warning
CEM .... Civil Emergency Message
CFR .... Code Of Federal Regulations
CIV .... Civil Authority
CONELRAD .... Control of Electromagnetic Radiation
CPG .... Civil Preparedness Guide DBS
.... Direct Broadcast Satellite DMO
.... Practice/Demo Warning
DSW…………………………………………… Dust Storm Warning EAN
.... Emergency Action Notification
EAS .... Emergency Alert System
EAT .... Emergency Action Termination
EBS .... Emergency Broadcast System
EO .... Executive Order
EOC .... Emergency Operation Center
EOM .... End Of Message

EPZ .... Emergency Planning Zone
EQW…………………………………………… Earthquake Warning
EVI .... Evacuation Immediate
FCC .... Federal Communication Commission
FEMA .... Federal Emergency management Agency
FFA .... Flash Flood Watch
FFS .... Flash Flood Statement FFW
.... Flash Flood Warning FIPS
.... Federal Information Processing Standards
FLA .... Flood Watch
FLS .... Flood Statement
FLW .... Flood Warning
FM .... Federal State of Micronesia FM
.... Frequency Modulation
FNPRM .... Further Notice proposed Rulemaking
FRW…………………………………………... Fire Warning
HMW…………………………………………... Hazardous Materials Warning
HWA .... High Wind Watch HWW
.... High Wind Warning
Hz .... Hertz
LAE……………………………………….... Local Area Emergency
LEW…………………………………………… Law Enforcement Warning

LP .... Local Primary
LPTV .... Low Power Television M&OO
.... Memorandum Opinion and Order MDS
.... Multipoint Distribution System
MH.. Marshal Island
MP .... Northern Mariana Island NAB
.... National Association of Broadcasters
NAC... National Advisory Committee
NAWAS .... National Warning System
NIC .... National Information Center NN
.... Non-participating National NOAA
.... National Oceanic and Atmospheric Administration NOI
.... Notice of Inquiry
NMN……………………………………… Network Notification Message NP
.... National Primary NPRM
.... Notice of Proposed Rulemaking
NPT .... National Periodic Test
NWRNOAA .... Weather Radio
NWS .... National Weather Service OAECC
.... Operational Area Emerg. Communications Committee PEP
.... Primary Entry Point PN
.... Participating National
PPA... Performance Partnership Agreement
PSTN .... Public Switched Telephone Network
R&O .... Report and Order RBDS
.... Radio Broadcast Data System
RHW………………………………………… Radiological Hazard Warning

RMT .... Required Monthly Test
RPU .... Remote Pickup Unit
RWT…………………………………………… Required Weekly Test
SAME .... Specific Area Message Encoding
SATCOM.. Satellite Communications
SBE .... Society of Broadcast Engineers
SCTE .... Society of Cable Telecommunications Engineers
SECC .... State Emergency Communications Committee
SLA.. State and Local Assistance
SMATV .... Satellite Master Antenna Television
SMW……………………………………….. . Special Marine Warning
SP .... State Primary
SPW…………………………………………… Shelter in Place Warning
SPS .... Special Weather Statement
SR... State Relay
SVA .... Severe Thunderstorm Watch
SVR .... Severe Thunderstorm Warning
SVS.. Severe Thunderstorm Statement
TOA... Tornado Watch TOR
.... Tornado Warning
TV.. Television
UM... U.S. Minor Outlying Islands
UPI.. United Press International
UTC .... Coordinated Universal Time

VHF .... Very High Frequency
WHCA .... White House Communications Agency
WRSAME .... Weather Radio Specific Area Message Encoding
WSA .... Winter Storm Watch
WSW .... Winter Storm Warning
WXR .... National Weather Service

APPENDIX D

A.   <u>**KEY EAS SOURCES - STATE PRIMARY (SP)**</u>

COLORADO OFFICE OF EMERGENCY MANAGEMENT
<u>Address:</u> 9195 East Mineral Avenue Suite #200, Centennial CO 80112
<u>Call Sign</u>: COLO OEM
<u>EAS Area of Responsibility</u>: COLORADO
<u>EAS Originator Code</u>: CIV
<u>EAS Originated Event Codes</u>: ADR, CEM, DMO, EVI, FFS, FLS, RMT, RWT, SPS, SVS
<u>EAS Monitoring Assignment</u>: KOA, KWGN
<u>EAS Relayed Event Codes</u>: ALL CODES
<u>EAS Broadcast (Output):</u> ACOUSTIC COUPLER
<u>Contact:</u> Jack Cobb, CECC Chairman/OEM Communications Officer
<u>Telephone #:</u> 720-852-6600   24 hr: 303-279-8855
<u>Hours of Operation</u>: 7:00 am to 5:00 pm
<u>Communications Facility</u>: State Emergency Operations Center

B.   <u>**KEY EAS SOURCES - STATE RELAY (SR)**</u>

1. KUNC-FM
<u>Address:</u>   822 7th St., Suite 530, Greeley, CO 80631
<u>EAS Area of Responsibility</u>: OPERATIONAL AREA TWO
<u>EAS Originator Code</u>: EAS
<u>EAS Originated Event Codes</u>: RWT
<u>EAS Monitoring Assignment</u>: KOA, KPAW, NWS 162.4, NPR, WELD CO FIRE B
<u>EAS Relayed Event Codes</u>: ALL CODES EXCEPT RWT
<u>EAS Broadcast (Output):</u>
<u>Contact</u>: Larry Selzle at 970-350-0811 day, 970-353-9548 or 970-381-0658 night
<u>Telephone #:</u> 970-378-2579; fax 970-378-2580
<u>Hours of Operation</u>: 24 Hours
<u>Communications Facility</u>: FM Radio Station

2. KPAW
<u>Address:</u>   4270 Byrd Drive, Loveland, CO 80538
<u>EAS Area of Responsibility</u>: OPERATIONAL AREA
TWO <u>EAS Originator Code</u>: EAS
<u>EAS Originated Event Codes</u>: RWT
<u>EAS Monitoring Assignment</u>: KOA, KUNC, NWS 162.450, LARIMER CO.
FIRENET <u>EAS Relayed Event Code</u>: ALL CODES EXCEPT RWT
<u>EAS Broadcast</u>
<u>(Output):</u> <u>Contact</u>: Dave
Agnew
<u>Telephone #:</u> 970-461-2560 day, 970-566-3146 night, 970-416-0118 fax
<u>Hours of Operation</u>: 24 Hours
<u>Communication Facility</u>: FM Radio Station

3. LARIMER COUNTY OFFICE OF EMERGENCY MANAGEMENT
Address: 2501 Midpoint Dr., Ft. Collins, CO 80525
Call Sign: "900"
EAS Area of Responsibility: OPERATIONAL TWO
EAS Originator Code: CIV
EAS Originated Event Codes: ADR, CEM, DMO, EVI, FFS, RWT, SPS, SVS
EAS Monitoring Assignment: KUNC, KPAW, NWS
EAS Relayed Event Codes: ALL CODES EXCEPT RWT
EAS Broadcast (Output):
Contact: Erik Nilsson
Telephone #: 970-498-5310   24 Hour: 970-416-1985
Hours of Operation: Contact is 24 hrs.
Communications Facility: County EOC

4. WELD COUNTY OFFICE OF EMERGENCY MANAGEMENT
Address: 1950 O St., Greeley, CO 80631
EAS Area of Responsibility: OPERATIONAL AREA TWO
EAS Originator Code: CIV
EAS Originated Event Codes: ADR, CEM, DMO, EVI, RWT, SPS, SVS
EAS Monitoring Assignment: KUNC, KPAW, NWS
EAS Relayed Event Code: ALL CODES EXCEPT RWT
EAS Broadcast (Output):
Contact: Roy Rudisill
Telephone #: 970-356-4015 Ext 3990, 24 Hour: 970-356-1212
Hours of Operation: Contact is 24 hrs.
Communications Facility: County EOC

5. NATIONAL WEATHER SERVICE
Address: 325 Broadway, Boulder, CO 80305
Call Sign: "KDEN/NWS"
EAS Area of Responsibility: OPERATIONAL AREAS ONE, TWO & THREE
EAS Originator Code: NWS PUB
EAS Originated Event Codes: ADR, BZW, DMO, FFS, FFW, FFA, FLS, FLW, HWW, HWA,
RMT, SPS, SVR, SVA, SVS, TOR, TOA, WSW, WSA
EAS Monitoring Assignment: KOA, KYGO

EAS Relayed Event Code: EAN, EAT, RMT-STATE ONLY
EAS Broadcast (Output): WXM-92 FT. COLLINS 162.450 - FRONT RANGE
                                  WXM-50 GREELEY 162.400 - FRONT RANGE & NE COLORADO
                                  WXM-51 MEAD/LONGMONT - 162.475 - FRONT RANGE
Contact: Larry Mooney or Bob Glancy
Telephone #: 303-494-4454 main, 303-494-4479 media, 303-494-2884 admin, 800-287-2498
severe weather line
Hours of Operation: 24 hrs.
Communications Facility: National Weather Service Forecast Office

APPENDIX G

Monthly Test Schedule

Emergency Alert System - - Required Monthly Test Schedule for Broadcasters		
MONTH	8:30 a.m. TO SUNSET	SUNSET TO 8:30 a.m.
JANUARY	9th - 1436	
FEBRUARY		15th - 1900
MARCH	26th - 1345 Statewide Test	
APRIL		14th - 2100
MAY	8th - 1136	
JUNE		4th - 0445 Statewide Test
JULY	18th - 1322	
AUGUST		15th - 2100
SEPTEMBER	17th - 0945 Statewide Test	
OCTOBER		10th - 1900
NOVEMBER	23rd - 1004	
DECEMBER		11th - 0245 Statewide Test

APPENDIX H

E.A.S. LOCAL AREA II COMMITTEE - As of 10/1/07

Ken Broeffle, Region II Chairman,
KUNC Chief Engineer   O) 970-350-0811 or 970-397-5542
ken.broeffle@kunc.org **LP-1**

Erik Nilsson, Deputy Chairman
Larimer County S.O./Larimer Co. Emergency Manager O) 970-498-5310
nilssoed@larimer.org

Mike Gavin
PFA/ Ft. Collins Emerg. Mgmt. O) 970-416-2878
migavin@fcgov.com

Roy Rudisill
Weld Co. S.O./Weld County Emergency Manager. Mgmt. O) 970-356-4015 x 3990
rrudisill@co.weld.co.us

Dave Agnew
KPAW Chief Engineer O) 970-416-2560 / c) 970-566-3146
Dave.agnew@clearchannel.com **LP-2**

Matt Schilz
KUAD-FM Chief Engineer; past Area 2 Chairman
matt.schilz@townsquaremedia.com

Merlin Green
Loveland Fire/Emerg. Mgmt. O) 970-962-2519
greenm@ci.loveland.co.us

Dave Rowe
Larimer Co. Communications Tech O) 970-498-5398
roweds@co.larimer.co.us

Steve Blois
Greeley Emergency Manager O) 970-350-9502 /
steve.blois@greeleygov.com

Andy Hiller
Public Information Officer, City of Loveland O) 970-962-2302 / c) 970-218-3523
millea@ci.loveland.co.us