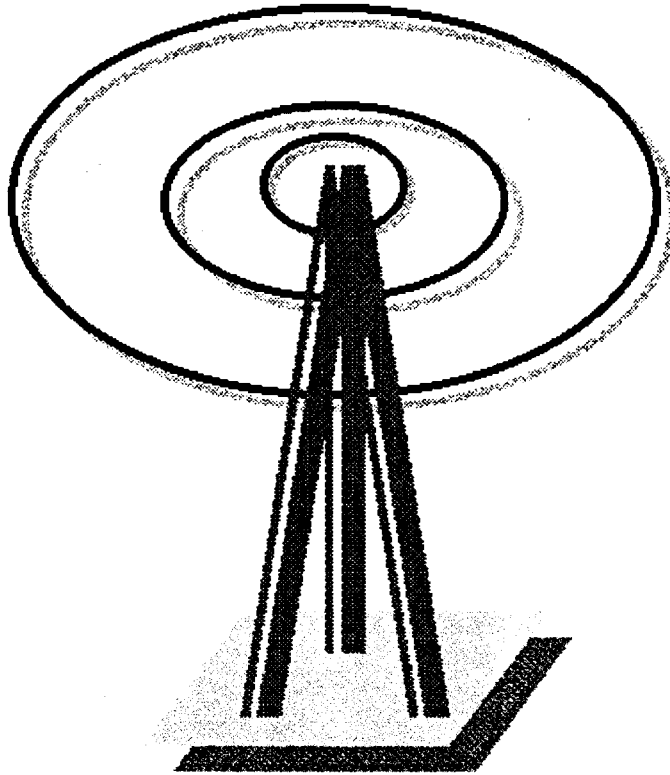


EMERGENCY ALERT SYSTEM (EAS)

PLAN AND PROCEDURES



OPERATIONAL AREA -4

EL PASO COUNTY/TELLER COUNTY

JUNE, 1997

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EMERGENCY ALERT SYSTEM

PLANS AND PROCEDURES

I. INTRODUCTION

This Plan provides specific procedures for the broadcast media to disseminate emergency information to the general public in the El Paso/Teller County Operational Area or any portion thereof 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 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.

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

- 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

LP-1. KRDO-AM (1240 AM)
Station Contact: Charles Upton
Telephone: (1) 632-5736 (2) 475-0800
On Air Hours: 24-hour

LP-2 KKCS-FM (101.9 FM) * primary LP-2
Station Contact: Roger Tighe
Telephone: 594-9086
On Air Hours: 24-hours

V. EAS PROCEDURES

A. PROCEDURES FOR DESIGNATED OFFICIALS

1. Coordinate 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 El Paso/Teller 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.)

B. 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 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.

C. 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 End of Message (EOM) Codes. The EAS Protocol, including any codes, must not be amended, extended or abridged without FCC authorization.

D. 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 emergency 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.

E. 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 it 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

F. 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. On or before July 1, 1997, or as the 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 in your station.
- C. **EAS ORIGINATOR CODES: (ORG)**

Originator codes are included in the message header and indicate who originally initiated the activation of the EAS.

- | | | | |
|----|---------------------------------------|-------|-----|
| 1. | Broadcast Stations or Cable Systems | ..... | EAS |
| 2. | Civil Authorities | ..... | CIV |
| 3. | Emergency Action Notification Network | ..... | EAN |
| 4. | National Weather Service | ..... | WXR |
| 5. | Primary Entry Point System | ..... | PEP |

- D. **EAS EVENT CODES (EEE)**

Event codes are included in the message header and indicates 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.	Blizzard Warning	BZW
c.	Civil Emergency Message	CEM
d.	Evacuation Immediate	EVI
e.	Flash Flood Statement	FFS
f.	Flash Flood Warning	FFW
g.	Flash Flood Watch	FFA
h.	Flood Statement	FLS
i.	Flood Warning	FLW
j.	Flood Watch	FLA
k.	High Wind Warning	HWW
l.	High Wind Watch	HWA
m.	Practice/Demo Warning	DMO
n.	Severe Thunderstorm Warning	SVR
o.	Severe Thunderstorm Watch	SVA
p.	Severe Weather Statement	SVS
q.	Special Weather Statement	SPS
r.	Tornado Warning	TOR
s.	Tornado Watch	TOA
t.	Winter Storm Warning	WSW
u.	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 Code 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. Operational Area Seven - Location Codes:

- a. Colorado Entire State..... 008000
- b. All of El Paso..... 008041
- c. All of Teller..... 008119
- d. All of Colorado Springs..... 008041

F. AUTHENTICATION

1. Authenticator word lists are used by EAS participants to ensure that the National level alerts and tests are legitimate. The list must be used in accordance with directions in the EAS Operating Handbook.

The (Red envelope) authenticator list is issued to all broadcast stations and specified control points of radio and television networks, cable networks and program suppliers, common carriers, wire services and other specified entities. A current copy of this list must be located in the pocket on the inside front cover of the EAS Operating Handbook. **This list should be opened only to authenticate receipt of an EAN or EAT message.** The FCC may request immediate return of the sealed Red Envelope at any time.

2. 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 sent 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, actions being taken by local government, and instructions to the public.

d. Keep line of communications 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)."

****** Follow with emergency program and information ******

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

"THIS CONCLUDES EAS PROGRAMMING. ALL BROADCAST STATIONS AND CABLE SYSTEMS MAY NOW RESUME NORMAL OPERATIONS".

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

a. Broadcast stations and cable systems are monitoring key EAS Sources (LP-1's) via EAS monitor receiver/decoders and 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, then release the message for relay over their system.

b. 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 outlined above.

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

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 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. TESTS

A. REQUIRED MONTHLY TESTS (RMT)

Required Monthly Tests will conform with the procedures in the EAS Operating 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 months shall occur between 8:30am and local sunset. Tests in even numbered months shall occur between local sunset and 8:30am and on random days and times.

2. Origination of RMT's will be coordinated between the State 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 15 minutes of receipt by broadcast stations and within 15 minutes of sign on for those stations who received the test while off the air, and cable systems in the EAS location when required by the Commission.

MONTHLY EAS TEST
60 sec

Audio intro is suggested to explain the test--But, not required.

This is the required monthly test of the El Paso/Teller county emergency alerting system.

EAS Header

Required

EBS two tone

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 THE GEOGRAPHIC AREA, OFFICIAL MESSAGES WOULD HAVE FOLLOWED THE ALERT TONE.

THIS STATION SERVES THE EL PASO AND TELLER COUNTY AREA. THIS CONCLUDES THIS TEST OF THE EMERGENCY ALERT SYSTEM.

EAS EOM

EAS EOM

WEEKLY TEST
30 sec

- Audio Intro is suggested **Audio explaining the weekly test and the EAS system.**
- EAS Header **Required**
- EAS EOM **Required**

3. Required monthly tests (RMT)

Emergency Alert System--Required Monthly Test Schedule		
Broadcasters		
Month	8:30am to Sunset	Sunset to 8:30am
JANUARY		
FEBRUARY		
MARCH		
APRIL		
MAY		
JUNE		
JULY		
AUGUST		
SEPTEMBER		
OCTOBER		
NOVEMBER		
DECEMBER		

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 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.

VIII. APPENDIXES

Appendix A: Designated officials and their phone numbers.

Appendix B: Broadcast stations with phone numbers (monitoring assignments).

Appendix C: Approvals.

Appendix D: Operational Area Map.

Appendix E: Glossary of Abbreviations.

Appendix F: Organization and Assignment of Responsibilities

APPENDIX A

DESIGNATED OFFICIALS AUTHORIZED TO ACTIVATE OPERATIONAL AREA EMERGENCY BROADCAST SYSTEM

EL PASO COUNTY.....Emergency Coordinator.....Office: 719/575-8400
Frequency 154.055 mh FAX: 719/575-8415
* On call coordinator can be accessed through Sheriff's Office Dispatch: 390-5555

TELLER COUNTY.....Emergency Manager.....Office: 719/687-8648
Home: 719/687-6152
24-hr: 719/687-9652

COLORADO SPRINGS.....Emergency Manager.....Office: 719/578-7057
(Colorado Springs Fire Department) or 7050
24-hr: 719/661-3685
Pager: 636-7464

NATIONAL WEATHER SERVICE.....Office: 719/948-3838
Pueblo frequency162.0400mh
Colo. Spgs frequency 162.475mh

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

APPENDIX B

MONITORING ASSIGNMENTS FOR ALL (RADIO) BROADCAST STATIONS IN OPERATIONAL EAS AREA

KVOR-AM/KTWK-AM/KVUU-FM/KSPZ-FM

2864 S. Circle, Suite 150
Colorado Springs CO 80906
Phone #: 527-9251 FAX #:
Monitors LP-1 and NWS
KVOO/KCSS also

KTLF-FM

1802 Chapel Hills Drive.
Colorado Springs CO 80920
Phone #: 593-0600 FAX #:593-2399
Monitors LP-1 and NWS

KGFT/KBIQ/KPRZ-FM, also KGFT-KCSJ

6760 Corporate Dr, Suite 340
Colorado Springs CO 80919
Phone #: 531-5438 FAX #:531-5588
Monitors LP-1 and NWS

KSKX-FM

399 South 8th Street
Colorado Springs CO 80905
Phone #: 475-0800 FAX #:632-5736
Monitors LP-1, NWS

KRDO-AM Area LP-1

399 South 8th Street
Colorado Springs, CO 80905
Phone #: 632-5736, 475-0800
Monitors KOA, NWS, EOC

KRCC-FM

912 North Weber
Colorado Springs CO 80903
Phone #: 473-4801 FAX #:473-
Monitors LP1, NWS

KCMN-AM, KCBR-AM

5050 East Edison, Suite 218
Colorado Springs CO 80915
Phone #: 570-1530 FAX #:570-
Monitors LP-1, NWS

KKFM-FM/KKMG-FM/KKLI-FM

6805 Corporate Drive, Suite 130
Colorado Springs CO 80919
Phone #: 593-2700 FAX #: 593-2
Monitors LP-1, NWS

KCME-FM

1921 North Weber
Colorado Springs CO 80907
Phone #: 578-5263 FAX #: 578-
Monitors LP-1, NWS

KRDO-FM Area LP-3

399 South 8th Street
Colorado Springs, CO 80905
Phone #: 632-5736, 475-0800
Monitors LP-1, KOA, EOC

KWYD-AM

P.O. Box 5666
Colorado Springs CO 80931
Phone #: 392-4219 FAX #:392-3307
Monitors LP-2, NWS

KILO-FM

P.O. Box 2080
Colorado Springs CO 80901
Phone #: 634-4896 FAX #:634-4
Monitors LP-1, LP-2, NWS

KKCS-FM Area LP-2

5145 Centennial Blvd., Suite 200
Colorado Springs CO 80919
Phone #: 594-9000 FAX #:594-9006
Monitors LP-1, NWS, KOA, EOC

MONITORING ASSIGNMENTS FOR
ALL (TELEVISION) BROADCASTS IN OPERATIONAL EAS AREA

KKTV--Channel 11

P.O. Box 2110
Colorado Springs CO 80901
Phone #: 634-2844 FAX #: 634-3741
Monitors LP-1, NWS

KXRM--Channel 21

P.O. Box 15789
Colorado Springs CO 80935
Phone #: 596-2100 FAX #: 591-4
Monitors LP-1, NWS

KRDO--Channel 13

P.O. Box 1457
Colorado Springs CO 80905
Phone #: 475-0800 FAX #: 632-5736
Monitors LP-1, NWS

K38CU, Phone: 637-1138
K43CG, Phone: 574-7777
5050 Edison Avenue
Colorado springs, CO
Jack Connelly
Monitors LP-1, NWS

APPENDIX C

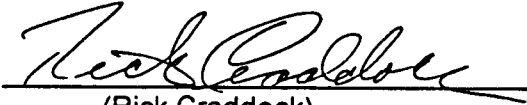
APPROVALS

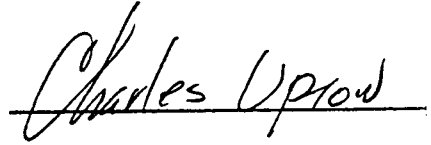
This El Paso/Teller Operational Area 4 EAS plan was developed and approved by:

The El Paso/Teller 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:


(Rick Craddock)

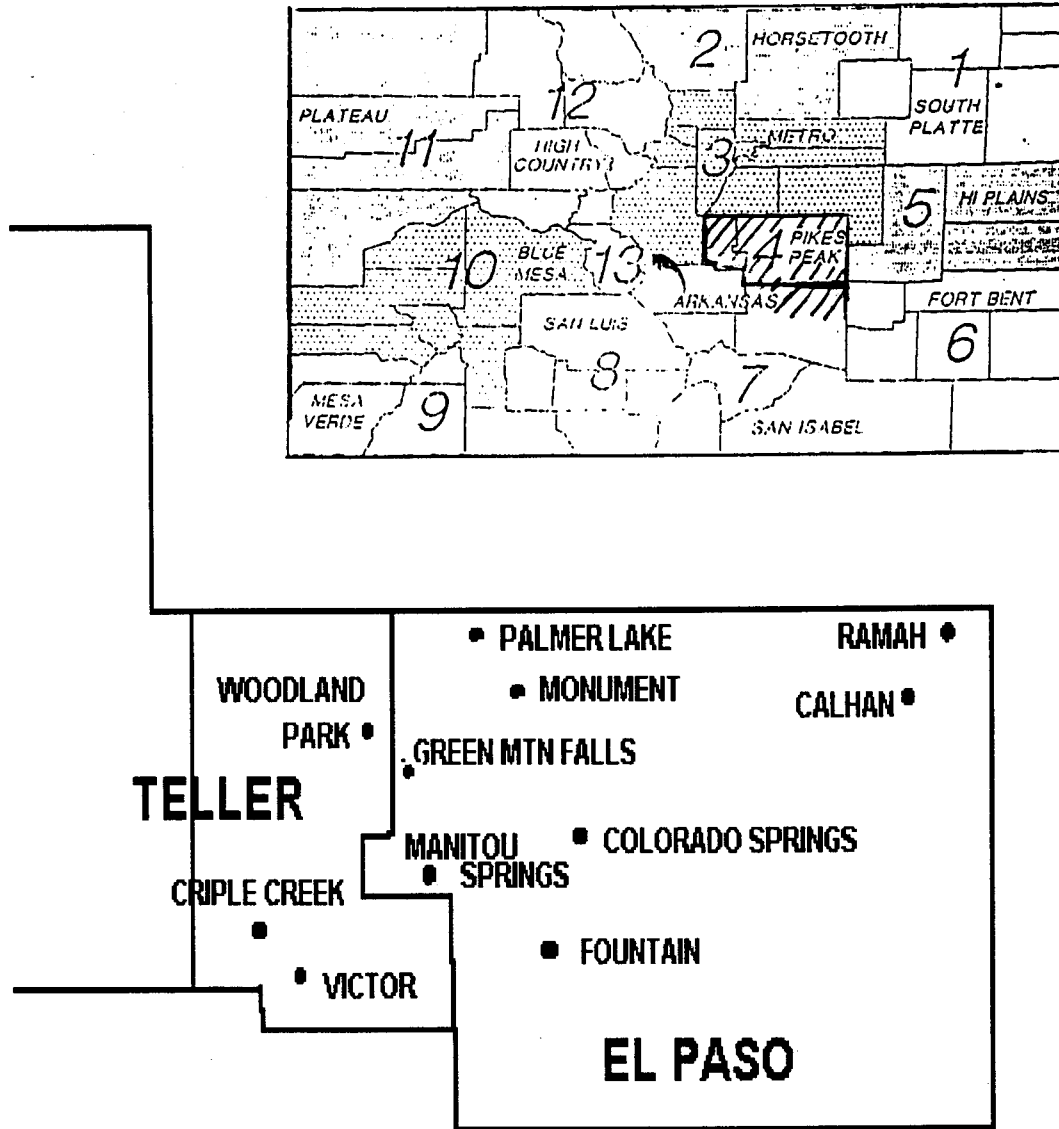

(Charles Upton)

STATE EAS COMMITTEE APPROVAL

FOR 
(VICE CHAIR)

APPENDIX D

MAP OF OPERATIONAL AREA 4 EMERGENCY ALERT SYSTEM



EL PASO COUNTY FIPS CODE: ALL 008041

TELLER COUNTY FIPS CODE: ALL 008119

APPENDIX E

GLOSSARY OF TERMS AND ACRONYMS

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 960 Hz) 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 10-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 form '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 headers 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 single string of intelligent 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 systems and their EAS designation 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 plans.

National Control Point Procedures

Those national EAS procedures used only 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 activities.

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 station 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.

Originator Code

A three character 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 primary 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 operations 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 a 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 used in EAS headers for time stamp.

Valid Code

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

WRSAME

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

ACRONYMS

AFSK	.....	Audio Frequency Shift Keying
AM	.....	Amplitude Modulation
AP	.....	Associated Press
AS	.....	American Samoa
ASCII	.....	American Standard Code for Information Interchange
BPS	.....	Bits per Second
BZW	.....	Blizzard Warning
CATV	.....	Cable Television
CAA	.....	Comprehensive Cooperative Agreement
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
EAN	.....	Emergency Action Notification
EAS	.....	Emergency Alert System
EAT	.....	Emergency Action Termination

EBS	Emergency Broadcast System
EO	Executive Order
EOC	Emergency Operations Center
EOM	End of Message
EPZ	Emergency Planning Zone
EVI	Evacuation Immediate
FCC	Federal Communications 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	Federated States of Micronesia
FM	Frequency Modulation
FNPRM	Further Notice of Proposed Rulemaking
GU	Guam
HLS	Hurricane Statement
HUA	Hurricane Watch
HUW	Hurricane Warning
HWA	High Wind Watch
HWW	High Wind Warning
Hz	Hertz
LP	Local Primary
LPTV	Low Power Television
M&OO	Memorandum Opinion and Order
MDS	Multipoint Distribution System
MH	Marshall Islands
MP	Northern Mariana Islands
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
NP	National Primary
NPRM	Notice of Proposed Rulemaking
NPT	National Periodic Test
NWR	NOAA Weather Radio
NWS	National Weather Service
OAEECC	Operational Area Emerg. Comm Committee
PEP	Primary Entry Point
PN	Participating National
PPA	Performance Partnership Agreement
PR	Puerto Rico

PSTN	Public Switched Telephone Network
PW	Palau
R&O	Report and Order
RBDS	Radio Broadcast Data System
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
SP	State Primary
SPS	Special Weather Statement
SR	State Relay
SVA	Severe Thunderstorm Watch
SVR	Severe Thunderstorm Warning
SVS	Severe Weather Statement
TOA	Tornado Watch
TOR	Tornado Warning
TSA	Tsunami Watch
TSW	Tsunami Warning
TV	Television
UM	U.S. Minor Outlying Islands
UPI	United Press International
UTC	Coordinated Universal Time
VHF	Very High Frequency
VI	Virgin Islands of the United States
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 F

ORGANIZATION AND ASSIGNMENT OF RESPONSIBILITIES

A. KEY EAS SOURCES - STATE PRIMARY (SP)

COLORADO OFFICE OF EMERGENCY MANAGEMENT
Address: 15075 SOUTH GOLDEN ROAD, GOLDEN, COLORADO
Call Sign: COLO OEM
EAS Area of Responsibility: COLORADO
EAS Originator Code: CIV
EAS Originated Event Codes: ADR, CEM, DMO, EVI, FFS, FLS, RMT, RWT,
SPS, SVS
EAS Monitoring Assignment: KOA, KWGN
EAS Relayed Event Codes: ALL CODES
EAS Broadcast (Output): ACOUSTIC COUPLER
Contact: RICHARD BARDSLEY, CECC CHAIRMAN/OEM COMMUNICATIONS
OFFICER
Telephone # 303/273-1619 24-HOUR: 303/279-8855
Hours of Operation: 7:00am to 5:00pm
Communications Facility: STATE EMERGENCY OPERATIONS
CENTER

B. KEY EAS SOURCES - STATE RELAY (SR)

1. **KRDO**
Address: 399 SOUTH 8TH STREET, COLORADO SPRINGS,
COLORADO
Call Sign:
EAS Area of Responsibility: OPERATIONAL AREA FOUR
EAS Originator Code: EAS
EAS Originated Event Codes: RWT
EAS Monitoring Assignment: KOA
EAS Relayed Event Codes: ALL CODES EXCEPT RWT
EAS Broadcast (Output):
Contact:
Telephone # 719/475-0800 24-HOUR:
Hours of Operation: 24 HOURS (LIVE)
Communications Facility: AM RADIO STATION

2. **KOA-AM RADIO**
Address: 1380 LAWRENCE STREET, SUITE 13000, DENVER, CO
Call Sign: KOA
EAS Area of Responsibility: COLORADO
EAS Originator Code: EAS
EAS Originated Event Codes: RWT
EAS Monitoring Assignment: COLOR OEM, EAN/PEP
EAS Relayed Event Codes: ALL CODES EXCEPT RWT
EAS Broadcast (Output): KOA-AM (850)
Contact: JERRY BELL, NEWS DIRECTOR
Telephone #: 303/892-4800
Hours of Operation: 24 HOURS
Communications Facility: AM RADIO STATION
3. **NATIONAL WEATHER SERVICE - PUEBLO (WXM52)**
Address: 3 EATON WAY, PUEBLO, COLORADO
Call Sign: NWS PUB
EAS Area of Responsibility: SOUTH-EAST COLORADO (ALAMOSA, BACA, BENT, CONEJOS, COSTILLA, CROWLEY, CUSTER, EL PASO, FREMONT, HUERFANO, KIOWA, LAS ANIMAS, MINERAL, OTERO, PUEBLO, PROWERS, RIO GRANDE, SAGUACHE, TELLER)
EAS Originator Code: WXR
EAS Originated Event Codes: ADR, BZW, DMO, FFS, FFW, FFA, FLS, FLW, FLA, HWW, HWA, RMT, RWT, SPS, SVR, SVA, SVS, TOR, TOA, WSW, WSA
EAS Monitoring Assignment: KCSJ, KOA
EAS Relayed Event Codes: EAN, EAT & RMT (STATE ONLY)
EAS Broadcast (Output): WEATHER RADIO WXM52 (162.400)
Contact: TOM MAGNASON, WARNINGS COORD METEOROLOGIST
Telephone # 719/948-3838 24-HOUR: 719/948-3737
Hours of Operation: 24 HOURS
Communications Facility: NAT'L WEATHER SERVICE FORECAST OFFICE
4. **EL PASO COUNTY OFFICE OF EMERGENCY MANAGEMENT**
Address: 305 SOUTH UNION BLVD, COLORADO SPRINGS, CO
Call Sign: EL PASO
EAS Area of Responsibility: EL PASO COUNTY
EAS Originator Code: CIV
EAS Originated Event Codes: ADR, CEM, DMO, EVI, FFS, RMT, RWT, SPS, SVS
EAS Monitoring Assignment: NWS, KRDO
EAS Relayed Event Codes: ALL CODES EXCEPT RWT
EAS Broadcast (Output):
Contact: ARNIE LAVELETT, DIRECTOR
Telephone # 719/575-8400 24-HOUR: 719/450-0300
Hours of Operation: 7:30AM TO 4:30PM ON CALL 24-HOURS
Communications Facility: COUNTY EOC & SHARED DISPATCH

5. **TELLER COUNTY OFFICE OF EMERGENCY MANAGEMENT**

Address:

Call Sign:

EAS Area of Responsibility:

EAS Originator Code:

EAS Originated Event Codes:

EAS Monitoring Assignment:

EAS Relayed Event Codes:

EAS Broadcast (Output):

Contact:

Telephone #:

Hours of Operation:

Communications Facility:

6. **COLORADO SPRINGS OFFICE OF EMERGENCY MANAGEMENT**

Address:

Call Sign:

EAS Area of Responsibility:

EAS Originator Code:

EAS Originated Event Codes:

EAS Monitoring Assignment:

EAS Relayed Event Codes:

EAS Broadcast (Output):

Contact:

Telephone #:

Hours of Operation:

Communications Facility: