

FCC EAS PLAN

Sacramento - Sierra Area

California Counties of
Amador, Butte, Calaveras, Colusa,
El Dorado, Glenn, Nevada, Placer, Plumas,
Sacramento, San Joaquin, Sierra, Sutter,
Tehama, Yolo, Yuba
in
Four Zones:

North Zone

Butte, Glenn, Plumas*, Sierra* and Tehama Counties

* Excludes portions east of Sierra Nevada crest, which are included in the EAS-Western Nevada/Eastern California Operational Area Plan

Mid-North Zone

Colusa, Sutter and Yuba Counties

Sacramento Zone

Amador, El Dorado*, Nevada*, Placer*, Sacramento, Yolo counties

* Excludes portions east of Sierra Nevada crest, which are included in the EAS-Western Nevada/Eastern California Operational Area Plan

South Zone

Calaveras and San Joaquin Counties

Original June 15, 1998

Revision January 20, 2004

EMERGENCY ALERT SYSTEM (EAS) FCC Sacramento - Sierra Local Area Plan

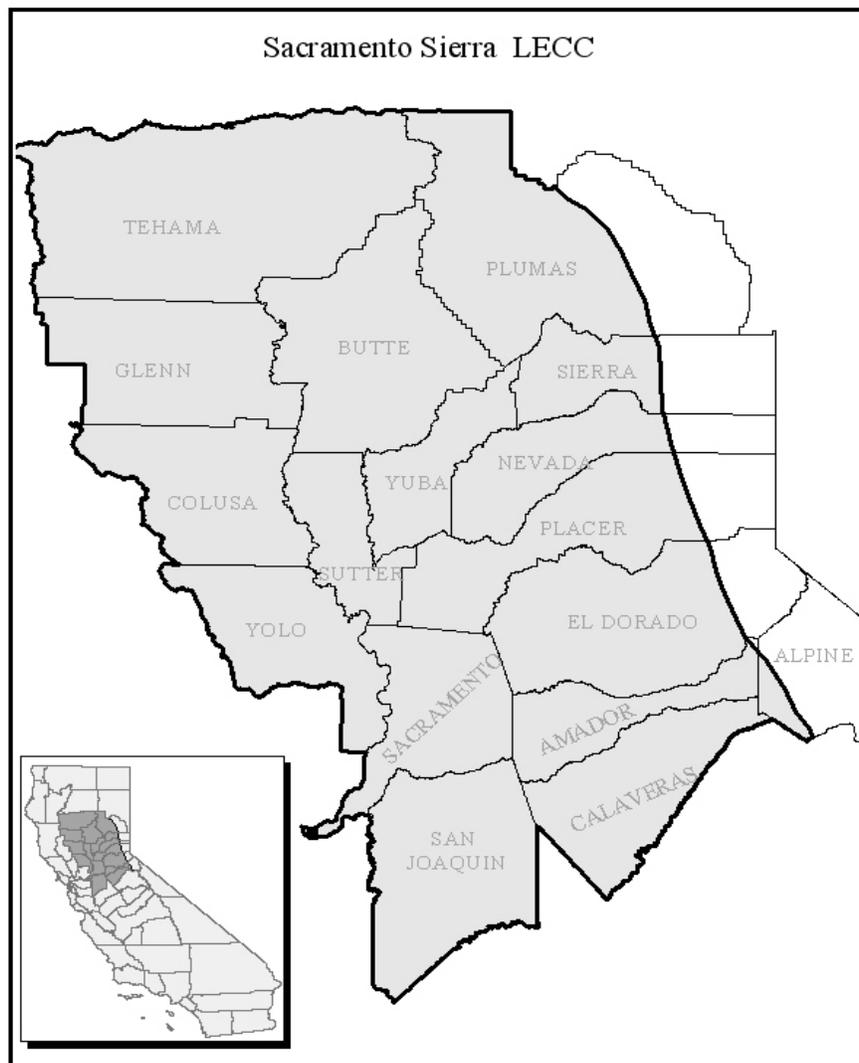
Statement

This is the Emergency Alert System (EAS) Plan for the Sacramento - Sierra FCC Local Area. This plan is a part of the State of California Emergency Alert System Plan, both of which replaced Emergency Broadcast System plans and procedures.

This Plan consists of a cover page, an introduction and Communications Operation Orders. Amendments, when signed by the LECC, SECC and approved by the FCC, are incorporated herein by reference thereto.

The operational date of this plan is the date it is approved and signed by the SECC Chair. When it is approved and signed by the FCC, the LECC Chair shall cause a copy to be distributed to all stations, cable entities and the emergency managers and agencies affected.

This FCC Local Area includes all broadcasters and cable television companies in and serving the Sacramento - Sierra counties which is divided into four (4) zones.



**EMERGENCY ALERT SYSTEM (EAS)
FCC Sacramento - Sierra Local Area Plan**

COMMUNICATIONS OPERATIONS ORDER CA-SS COO-1 (Monitor)

MONITOR PLAN

Zones: North, Mid-North, Sacramento, South

1.0: LP1 station group

KFBK 1530 KHz

1.0.1: LP1-(A) Auxiliary

KSTE 650 KHz

KGBY(FM) 92.5 MHz

1.1: LP1 station group LP-1 & 1(A)monitors:

- a. KCBS 740 KHz San Francisco, CA
- b. KXPR 88.9 MHz Sacramento, CA
- c. NWR 162.550 MHz Jackson Butte, Amador Co –OR-
 162.400 MHz Wolf Mt., Nevada Co.
- d. CLERS 155.070 MHz Wolf Mt., Nevada Co., (State/County Activations) –AND-
 154.710 MHz Mt. Diablo, Contra Costa Co.

Recommended:

- e. EDIS 450.0375 MHz Mt. Diablo, Contra Costa Co. (EDIS is not connected to EAS
terminal. Sacramento Local input frequency: 455.0375 MHz, OES HQ Mather.)
- f. NWR 162.425 MHz Mt. Diablo, Contra Costa Co. (additional, not to replace c. above).

1.2: LP1S (none)

1.3: LP2 stations monitor:

1.3.1: LP2 Station North Zone: KTHU (FM) 100.7 MHz Chico

(Butte, Glenn, Plumas*, Sierra* and Tehama Counties)

(* Excludes portions east of Sierra Nevada Crest, which are included in the EAS-Western Nevada/Eastern California Operational Area Plan)

This LP2 station monitors one station from the LP1 group and:

- a. NWR 162.400 MHz Wolf Mt., Nevada Co. –OR-
 162.550 MHz So. Fork Mt., Trinity Co.
- b. CLERS 453.875 MHz Bloomer Mt., Butte Co.
- c. Any 24-hour Shasta County radio or TV station carrying event codes

THIS SECTION CONTINUES ON PAGE 3 (COO-1a)
For Mid-North Zone, Sacramento Zone and South Zone

EMERGENCY ALERT SYSTEM (EAS) FCC Sacramento - Sierra Local Area Plan

COMMUNICATIONS OPERATIONS ORDER CA-SS COO-1a (Monitor)

1.3.2: LP2 Station Mid-North Zone: KXCL (FM) 103.9 MHz Wheatland (Colusa, Sutter and Yuba Counties)

This LP2 station monitors one station from the LP1 group and:

- a. LP2 Station North Zone KTHU (FM) 100.7 Chico
- b. NWR 162.400 MHz Wolf Mt., Nevada Co. –OR-
 162.550 MHz Jackson Butte, Amador Co.
- c. CLERS 453.875 MHz Bloomer Mt., Butte Co. –AND-
 155.070 MHz Wolf Mt., Nevada Co. (for State/County Activations)

1.3.3: LP2 Sacramento Zone KEDR (FM) 88.1 MHz Sacramento (Sacramento, Nevada*, Placer*, El Dorado*, Yolo, Amador Counties) (* Excludes portions east of Sierra Nevada Crest, which are included in the EAS-Western Nevada/Eastern California Operational Area Plan)

This LP2 station monitors one station from the LP1 group and:

- a. NWR 162.400 MHz Wolf Mt., Nevada Co. –OR-
 162.550 MHz Jackson Butte, Amador Co.
- b. CLERS 155.070 MHz Wolf Mt., Nevada Co. -AND-
 154.710 MHz Mt Diablo, Contra Costa Co. (State &County activations)

Recommended:

- c. EDIS 450.0375 MHz Mt. Diablo, Contra Costa Co. (EDIS is not connected to
EAS terminal. Sacramento Local input frequency: 455.0375 MHz, OES HQ Mather)
- d. NWR 162.425 MHz Mt Diablo, Contra Costa Co. (additional, not to replace a.
above)

1.3.4: LP2 Station South Zone: KSTN 1420 KHz / KOSO (FM) 93.1 MHz Stockton (Calaveras and San Joaquin Counties)

This LP2 station monitors one station from the LP1 group and:

- a. KOSO(FM) 93.1 MHz LP1 Stanislaus-Tuolumne
- b. NWR 162.550 MHz Jackson Butte, Amador Co.
- c. CLERS 453.875 MHz Telegraph Pk., Tuolumne County, CA –AND-
 154.710 MHz Mt. Diablo, Contra Costa Co.

Recommended:

- d. KCBS 740 KHz LP1 San Francisco (additional, not to replace a.
above)
- e. EDIS 450.0375 MHz Mt. Diablo, Contra Costa Co. (EDIS is not connected to
EAS terminal.)
- f. NWR 162.425 MHz Mt. Diablo, Contra Costa Co. (additional, not to replace b.
above)

1.4: Broadcast stations and CATV control points shall monitor two of the following:

- a. KFBK 1530 KHz LP1 Sacramento-Sierra
- b. The LP2 Station serving their zone; see 1.31 – 1.34 above.

In addition, but not in lieu of, the following are recommended:

Any others listed above, such as NWR, CLERS, EDIS, KCBS 740 KHz

EMERGENCY ALERT SYSTEM (EAS) FCC Sacramento - Sierra Local Area Plan

COMMUNICATIONS OPERATIONS ORDER CA-SS COO-2 (Codes)

EAS EVENT CODES & FIPS CODES

2.1: National Event Codes for messages required to be carried by all participants

EAN	Emergency Action Notification Message
EAT	Emergency Action Termination Message
RWT	Required Weekly Test (Must be performed but not relayed)

2.2 Local Event Codes for messages to be carried by all participants

CAE	Child Abduction Emergency
CEM	Civil Emergency Message
EVI	Evacuation Immediate
FFW	Flash Flood Warning
SVR	Severe Thunderstorm Warning
TOR	Tornado Warning
RMT	Required Monthly Test

2.3: Local Event Codes for messages that are voluntary: (Includes new codes effective May 16, 2002)*

AVW	Avalanche Warning
AVA	Avalanche Watch
CDW	Civil Danger Warning
EQW	Earthquake Warning
FFA	Flash Flood Watch
FLA	Flood Watch
FLW	Flood Warning
FRW	Fire Warning
HMW	Hazardous Materials Warning
HWA	High Wind Watch
HWW	High Wind Warning
HUA	Hurricane Watch
HUW	Hurricane Warning
LEW	Law Enforcement Warning
NMN	Network Message Notification
NUW	Nuclear Power Plant Warning
RHW	Radiological Hazard Warning
SPW	Shelter In Place Warning
SVA	Severe Thunderstorm Watch
TOA	Tornado Watch
TOE	911 Telephone Outage Emergency
VOW	Volcano Warning
WSA	Winter Storm Watch
WSW	Winter Storm Warning

2.4: EAS administrative and test message codes, as listed below, are NOT to be relayed.

DMO	Practice/Demonstration Warning
ADR	Administrative Message

***ALL NEW EVENT CODES WILL BE IN SERVICE EFFECTIVE JUNE 1, 2003 WITHIN THIS LOCAL EAS AREA.**

THIS SECTION CONTINUES ON PAGE 5 (COO-2a)
For FIPS Codes

**EMERGENCY ALERT SYSTEM (EAS)
FCC Sacramento - Sierra Local Area Plan**

COMMUNICATIONS OPERATIONS ORDER CA-SS COO-2a (Codes)

EAS EVENT CODES & FIPS CODES

2.5: FIPS (location - county) codes which are applicable:

Amador	06005	Butte	06007
Calaveras	06009	Colusa	06011
El Dorado	06017	Glenn	06021
Nevada	06057	Placer	06061
Plumas	06063	Sacramento	06067
San Joaquin	06077	Sierra	06091
Sutter	06101	Tehama	06103
Yolo	06113	Yuba	06115

**EMERGENCY ALERT SYSTEM (EAS)
FCC Sacramento - Sierra Local Area Plan**

COMMUNICATIONS OPERATIONS ORDER CA-SS COO-3 (NWS/NWR)

NATIONAL WEATHER SERVICE

Contains confidential data NOT for public release

- 3.1:** All National Weather Service WARNING messages and EAS ACTIVATION REQUESTED messages will be transmitted over the national weather radio (NWR).
- 3.2:** LP1 and LP2 stations are required to monitor the NWR frequency serving their area of responsibility. All LP station and CATV control points are urged to also monitor their NWR transmitter to provide a redundant path.
- 3.3:** The NWR transmitter format is:
- a. Digital header repeated three times,
 - b. NWR receiver alert tone
 - c. The EAS attention alert tones
 - d. The audio message
 - e. The digital End-Of-Message (EOM) repeated three times.
- 3.4:** While no verbal message can exceed 120 seconds in length due to EAS decoders limits, the NWS understands broadcast stations respond better to Alert requests that are 45 seconds or less. The Local Emergency Communications Committee recommends that all audio messages for EAS activation requests run not more than 45 seconds.
- 3.5:** *If the NWR transmitter is off the air, the NWS representative will telephone the LP1 station at XXX-XXX-XXXX or XXX-XXX-XXXX. If connection to the LP1 cannot be made call the LP2 Station (see CA-SS COO 5.5 for telephone numbers).
- a. Identify yourself and position. State the reason you are activating the Emergency Alert System. Be prepared to authenticate in accord with COO Number 7. Be prepared to supply information needed to encode the EAS header, including: Event Code (such as FFW) duration (such as two hours) and the FIPS (location) codes.
 - b. The broadcast station shall be prepared to immediately record your message. The station should ask for an audio level check, if so, say "level level level level level" at the same level you will use during the message.
 - c. On receiving the "go-ahead", say: **"5, 4, 3, 2, 1. This is the National Weather Service office in _____ . The Emergency Alert System is activated for a _____ (nature of the warning)."**
 - d. Read the message. (Must not exceed 110 seconds, but try to limit it to 45 seconds.) End it with: **"This concludes this Emergency Alert System message from the National Weather Service."**
 - e. Remain silent until the broadcaster tells you it has been received okay. If there is a problem repeat the process in cooperation with the broadcaster as necessary.
- 3.6:** Once a month NWS will call the LP station(s) hotline numbers to verify it is correct. NWS transmitters are tested Wednesday between 1100-1200 hours if no threat or emergency exists.

**Confidential data (hotline numbers) shall be removed from public copies of this plan*

**EMERGENCY ALERT SYSTEM (EAS)
FCC Sacramento - Sierra Local Area Plan**

COMMUNICATIONS OPERATIONS ORDER CA-SS COO-4 (LP)

**FOR LP1 AND LP2 STATIONS TO ACTIVATE
EAS AND TRANSMIT A LOCAL BROADCAST**

4.1: For relay of messages from the EAS terminal.

- a. If the Event Code coincides with mandatory codes in COO Number 2 you will put it on the air as soon as possible using posted instructions for your EAS Encoder.
- b. You may relay any other Event Code received, except DMO, at your discretion. [Emergency alert information declines rapidly in value to the public as seconds pass by.]

4.2: For Telephone requests to activate EAS

- a. You receive a telephone call from a person or agency authorized to initiate the Emergency Alert System. (Authentication - where required - see COO-7.) **Ask the requester for the information needed to encode the EAS header, including Event Code, activation duration and FIPS codes.**
- b. Start recorder to record message. Tell the telephone caller to "countdown and go." Caller's out-cue is **"This concludes this broadcast from the _____ (Agency) in _____ (location)."**
- c. Program your EAS terminal with the appropriate FIPS delivery and Event Codes.
- d. Cue up message (if on external recorder) for broadcast. Fade out the program in progress and announce: **"We interrupt this program for a special broadcast from the Emergency Alert System. Important information will follow the tone."**
- e. Activate your EAS terminal. Read or play the message. Then announce: **"This concludes the Emergency Alert System bulletin. All broadcast stations and cable systems may now resume normal operations."**
- f. Resume normal broadcasting. Do **not** editorialize or comment on the incident as it may be construed as an official announcement. Repeat the highlights of the warning every 5-10 minutes, if possible, during the period of warning.
- g. Log it. Assure that the FCC, Washington D.C. is notified in writing.

4.3: Any broadcast station may activate the EAS upon receipt of any "ACTIVATION REQUESTED" bulletin from the National Weather Service without delay or additional notification, authorization or permission. All news and program personnel shall be familiar with the necessity to place emergency programming on the air with the least delay.

4.4: On-air personnel shall not ad-lib, interpret, abbreviate or alter any test or broadcast. Tests shall not be sung, set to music, include music, echo and/or other electronic alteration or production aids.

**EMERGENCY ALERT SYSTEM (EAS)
FCC Sacramento - Sierra Local Area Plan**

COMMUNICATIONS OPERATIONS ORDER CA-SS COO-5 (LG)

**LOCAL GOVERNMENT OFFICIALS who use the telephone to
ACTIVATE THE EMERGENCY ALERT SYSTEM.**

By Telephone

5.1: Agencies and/or officials, specified in CA-MB COO-8, are authorized to activate the Emergency Alert System by following these steps:

- a. Write out the WARNING message to be broadcast by AM, FM, TV and Cable TV stations via the LP1 station. [This is the message **you** will read, as **you** will be the announcer when it is broadcast. (See 5.2 below.) You do **not** dictate the message to the station employee.] Rewrite as necessary to limit it to 45 seconds.
- b. Be prepared to supply information needed to encode the EAS header, including: Event Code (such as FFW) duration (such as two hours) and the FIPS (location) codes. Expect to authenticate in accord with COO-8. (Note: If equipped with an EAS terminal and a CLERS radio separate instructions and procedures apply. See 5.6)
- c. *Contact the LP1 STATION, **KFBK xxx-xxx-xxxx or xxx-xxx-xxxx.** (See 5.5 below)

5.2: Designated officials must use the following format to activate the EAS. Say: **“This is (Name/Title) of (Organization). I request that the Emergency Alert System be activated for the (which FIPS Code area) because of a (description of the emergency).”**

5.3: The broadcast station shall be prepared to immediately record your message. The station should ask for an audio level check, if so, say “level level level level level” at the same level you will use during the message. [In a normal tone, speak clearly and distinctly. Use the same tone and level during the entire message.]

On receiving the “go-ahead”, say: **“5, 4, 3, 2, 1.** (Read your message as to the nature of the warning.)” (Limit it to 45 seconds.)

Authorized officials and station personnel will determine the transmission details (i.e., live or recorded, immediate or delayed).

5.4: The originating official(s) shall enter text of the Warning bulletin into the EDIS system as quickly as possible. Some stations supplement EAS messages with the data from EDIS as an adjunct for the hearing impaired and to better serve listeners and viewers since EDIS includes NWS watches and statements. This additional information can be especially important to alternative language stations. EDIS should also be used when updating or canceling an EAS activation.

5.5: *In the event you cannot reach the LP1 Station, KFBK, call the appropriate LP2 station.

North Zone:	KTHU(FM)	Chico	XXX-XXX-XXXX
Mid-North Zone:	KUBA	Yuba City	XXX-XXX-XXXX
Sacramento Zone:	KEDR(FM)	Sacramento	XXX-XXX-XXXX
South Zone:	KSTN	Stockton	XXX-XXX-XXXX

**Confidential data (hotline numbers) shall be removed from public copies of this plan*

THIS SECTION CONTINUES ON PAGE 9 (COO-5a)
For Local Government Activation

**EMERGENCY ALERT SYSTEM (EAS)
FCC Sacramento - Sierra Local Area Plan**

COMMUNICATIONS OPERATIONS ORDER CA-SS COO-5a (LG)

**LOCAL GOVERNMENT OFFICIALS who use an EAS Terminal to
ACTIVATE THE EMERGENCY ALERT SYSTEM**

With an EAS Terminal

5.6: For an agency or official with an EAS Terminal to activate the EAS:

- a. Write out your WARNING message to be broadcast. Limit it to **50-60 seconds!!** The following message format form will help. The format can be used for EAS originations direct via an EAS terminal via an LP1 Station. In either case, you need to know the FIPS code and the event code that will apply to the warning. (See CA-SS COO-2). Any message needs Who, What, Where, When, Why and How.

This is (name/agency)_____

There is a (nature of emergency)_____

In the area of (area affected) _____

It is expected to last (how long situation will continue)_____

Residents are advised to_____

Until (when more information will be available)_____

- b. Note: Most people are more comfortable recording their message where there is equipment for that purpose and time to do it. To do so, activate the recorder dedicated for that purpose. Begin the recording with a countdown by saying “**3,2,1**” then read your message. When finished cue it up to just after the “1” in your countdown.
- c. Obtain the FIPS code and the event code from CA-MB COO-2 and write them down for entry into the EAS Terminal.
- c. Activate your EAS terminal as prescribed by its manufacturer and send the HEADER tones. (This requires practice, ongoing training and an off-line practice program.)
- d. Play the recorded message (or if no recorder was available, read the message).
- e. Send the EOM tones. (The message must be between the HEADER and the EOM.)
- f. *Telephone the LP1 station to verify receipt: **KFBK xxx-xxx-xxxx or xxx-xxx-xxxx**
- g. Enter the message into the EDIS system (where you have that capability) as quickly as possible so that all Television and CATV companies will have the message for clear text viewing by the hearing impaired. EDIS should also be used when updating or canceling an EAS activation.

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**EMERGENCY ALERT SYSTEM (EAS)
FCC Sacramento - Sierra Local Area Plan**

**COMMUNICATIONS OPERATIONS ORDER CA-SS COO-5b (LG)
LOCAL GOVERNMENT OFFICIALS who use a CLERS base radio to
ACTIVATE THE EMERGENCY ALERT SYSTEM.**

5.7: This requires that an FCC type-accepted EAS terminal be permanently connected to CLERS (California Law Enforcement Radio System) base station. This enables the county government to receive any EAS activation's and, if desired, originate EAS activation's.

- a. **Write out your WARNING message** to be broadcast. Limit it to **50-60 seconds!!** The following message format form will help. Any message needs Who, What, Where, When, Why and How.

"This is (name/agency)_____

The Emergency Alert System is being activated because of (nature of emergency)_____

In the area of (area affected) _____

It is expected to last (how long will it continue)_____

Residents are advised to _____

Until (when more information will be available)_____

This concludes this message from the Emergency Alert System"

- b. **(Obtain the FIPS code and the event code from CA-MB COO-2** and write them down for entry into the EAS Terminal)
- c. **The EAS terminal is placed on the air** in accordance with manufacturers instructions.
- d. **The three header codes are transmitted over the CLERS.**
- e. **The authorized person reads the prepared EAS activation (from a. above)** over a microphone or other audio system properly wired to the EAS terminal.
- e. **Push the EOM (End of Message) button.** Wait three (3) seconds.
- f. **Give your station call sign.** (That's all there is to the entire CLERS EAS process.)
- g. *Telephone the LP1 station to verify receipt: **KFBK xxx-xxx-xxxx or xxx-xxx-xxxx**
- h. **Upload your message to EDIS immediately.** This is critical so the TV and CATV stations may carry your message for the hearing impaired! EDIS should also be used when updating or canceling an EAS activation.

* *Confidential data (hotline numbers) shall be removed from public copies of this plan*

**EMERGENCY ALERT SYSTEM (EAS)
FCC Sacramento - Sierra Local Area Plan**

COMMUNICATIONS OPERATIONS ORDER CA-SS COO-6 (RMT)

REQUIRED MONTHLY TEST

The Coordinated Monthly Test (Event Code RMT) within every Local Area is required to be carried by all broadcast stations and CATV firms. It may be carried simultaneously with the originating LP1 station, or delayed by no more than 15 minutes. [FCC Part 11.61(a) (1)].

6.1: The Required Monthly Test in this FCC Local Area is conducted as follows.

- a. Odd-numbered months: Daytime: First Monday 09:50 AM
- b. Even-numbered months: Nighttime: Second Tuesday 4:50 AM

6.2: The Required Monthly Test will originate from the LP1 station or from one of the LP1-(A) stations with a prescribed script.

6.3: The Required Monthly Test will take about 60 seconds. The text is:

“This is the coordinated monthly test of the Emergency Alert System. The equipment that can warn you of a life-threatening emergency is being tested. If this had been an actual emergency or life threatening condition, an official message would have followed the alert tone. This concludes this test of the Emergency Alert System.”

[Generate digital EOM]

6.4: The State Emergency Operations Center EAS Studio or the California State Warning Center will transmit a monthly test that may be carried by any station in addition to the station's weekly test or in lieu of it's weekly test, but never in place of a Local Area's Required Monthly Test.

6.4.1: The monthly State EAS test is conducted on the first Friday of every month unless otherwise notified. It is transmitted statewide at about 10:15 a.m. and may be rebroadcast at anytime within 60 minutes thereafter. It will use the ADR Event Code --- not an “RMT”.

**EMERGENCY ALERT SYSTEM (EAS)
FCC Sacramento - Sierra Local Area Plan**

COMMUNICATIONS OPERATIONS ORDER CA-SS COO-7 (Authenticate)

AUTHENTICATION BY LOCAL GOVERNMENTS

*THIS CONFIDENTIAL DATA IS NOT TO BE IN
PUBLIC COPIES OF THIS PLAN*

7.0: The following authentication codes are to be used in this Local Area Plan.

- a. The radio station selects a number, the requestor provides the correct code words.
- b. Promptly hang up if there is a failure to establish the correct authentication code.

CONFIDENTIAL

CONFIDENTIAL DATA OMITTED

7.1: No authentication for CLERS, EDIS, weather wire or other hard copy media.

CONFIDENTIAL DATA - Not For Public Distribution - Need to Know Basis Only!

**EMERGENCY ALERT SYSTEM (EAS)
FCC Sacramento - Sierra Local Area Plan**

COMMUNICATIONS OPERATIONS ORDER CA-SS COO-8 (LG)

**AUTHORIZED LOCAL GOVERNMENT OFFICIALS
who have authority to activate the EAS system**

8.1: Any County Emergency Service Coordinator or designee.

8.1.1: For Sacramento County the following applies:

The County Emergency Services Coordinator and designees are called out in this plan as the authorized officials to activate EAS in an emergency. In Sacramento County, the Emergency Operations Coordinator's designees will be:

- County – County Executive and Sheriff
- Cities – City Manager, Police Chief and Fire Chief
- Operational Area Fire Coordinator

The participating cities in this plan are:

Sacramento, Folsom, Citrus Heights, Elk Grove, Galt & Isleton.

8.1.2: For San Joaquin County the following applies:

In San Joaquin County the following designees are authorized to activate EAS:

- The Chairperson, County Board of Supervisors
- The County Administrator
- The County Office of Emergency Services
- The Sheriff

For the City of Stockton:

- The City Manager
- The Assistant Director of Emergency Services

8.2: The National Weather Service.

8.3: The California Highway Patrol.

**EMERGENCY ALERT SYSTEM (EAS)
FCC Sacramento - Sierra Local Area Plan**

SIGNATURES OF CONCURRENCE AND APPROVAL

Joe Torsitano, Chair
Sacramento - Sierra Area FCC
Local Emergency Communications Committee

Date

Michael Rex Gunnison, Vice Chair – CATV
Sacramento - Sierra Area FCC
Local Emergency Communications Committee

Date

Elizabeth Morse, Meteorologist in Charge
National Weather Service, Sacramento

Date

State of California
Governor's Office of Emergency Services

Date