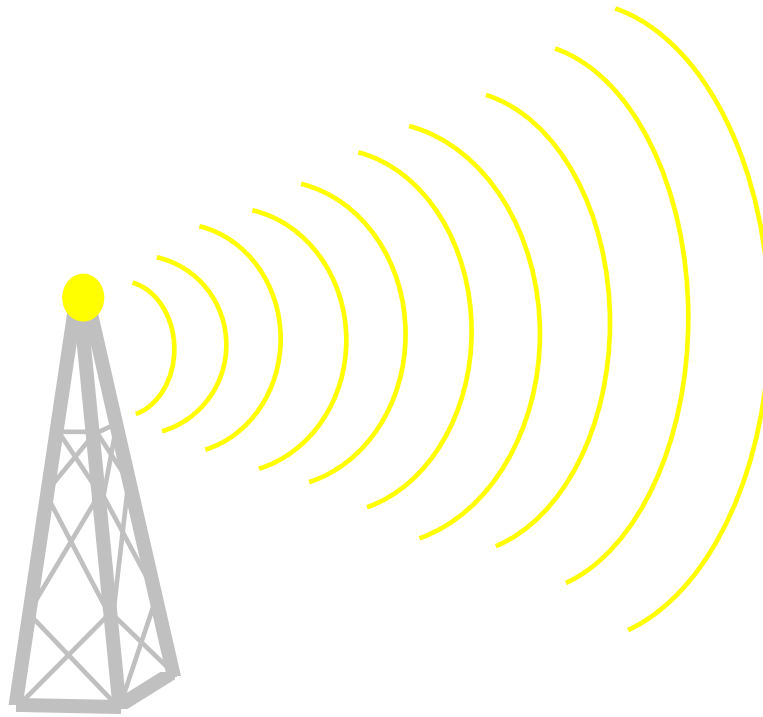


GRAYS HARBOR AND PACIFIC COUNTIES

EMERGENCY ALERT SYSTEM

Local Area Plan



February 2014

RECORD OF CHANGES

NOTICE TO PLAN HOLDERS: In order to maintain a current Grays Harbor and Pacific Counties Emergency Alert System (EAS) Plan, the Local Emergency Communications Committee (LECC) will issue changes periodically. **Please make those changes upon receipt**, and record them on this page. If a previous change number shows no entry, you may not have an up-to-date version of the plan.

CHANGE #	DATE MADE	LOCATION/PAGE(S) CHANGED	INITIALS
01	4/22/05	Page 4	
02	3/1/06	Pages 3, 4, 6, 10, 11, 17, 19, 30, 33-43	
03	1/30/07	Pages 2, 17 and 32	
04	January 2014	Review and update of entire plan	LECC
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20			

GRAYS HARBOR COUNTY APPROVALS AND CONCURRENCES:

APPROVED AS TO FORM

Prosecuting Attorney **Date**

BOARD OF COUNTY COMMISSIONERS
GRAYS HARBOR COUNTY, WASHINGTON

Chair **Date**

Commissioner **Date**

Commissioner **Date**

ATTEST:

Clerk of the Board **Date**

EMERGENCY MANAGEMENT DIRECTOR

Charles Wallace **Date**

LOCAL EMERGENCY COMMUNICATIONS COMMITTEE

Date

PACIFIC COUNTY APPROVALS AND CONCURRENCES:

APPROVED AS TO FORM

Prosecuting Attorney **Date**

BOARD OF COUNTY COMMISSIONERS
PACIFIC COUNTY, WASHINGTON

Chair **Date**

Commissioner **Date**

Commissioner **Date**

ATTEST:

Clerk of the Board **Date**

EMERGENCY MANAGEMENT DIRECTOR

Date

LOCAL EMERGENCY COMMUNICATIONS COMMITTEE

Date

GRAYS HARBOR AND PACIFIC COUNTIES

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A WORD OF CAUTION

The Emergency Management/Services community has acquired a valuable tool in gaining direct access to all area broadcasters and subject cable operators via the Emergency Alert System. However, **if not used prudently, Emergency Management use of this tool may be limited. Broadcasters and cable operators expect the Emergency Alert System to be used only for very serious emergencies.**

Emergency Management must be aware that some broadcasters and cable operators have their Emergency Alert System decoders set on Automatic Mode. In automatic mode, messages are not screened prior to airing. Radio stations depend upon Emergency Management to send an Emergency Alert System alert **only for a very serious emergency.** System use for a frivolous event will result in the loss of confidence of area broadcasters and cable operators.

Broadcasters and cable operators participate in the local-level Emergency Alert System on a voluntary basis. Broadcasters and cable operators are not obligated to carry Emergency Alert System alerts. Cautious use of the system is essential to a continued cooperative relationship with the local broadcasters and cable operators.

All requests for activation must meet the following criteria:

- **Lives must be in danger**
- **Direction provided by the EAS has the potential to save lives**

I. INTRODUCTION

A. PURPOSE

The Emergency Alert System (EAS) is a national alerting system composed of broadcast networks, cable networks, and program suppliers, AM, FM, and TV broadcast stations, low power television (LPTV) stations, cable systems, and other entities and industries operating in an organized manner during emergencies at the national, state, and local levels. It provides government officials with a mechanism to issue emergency warnings to the public through local broadcasters, National Weather Service, and wireless carriers when emergency information may help save lives. It requires that at a minimum, all participants use a common Emergency Alert System protocol to send and receive emergency alerts.

B. SCOPE

This plan was prepared by the Grays Harbor and Pacific Counties Emergency Management Agencies. It is used to guide the dissemination of emergency information and warnings to the general public in Grays Harbor and Pacific Counties at the request of designated local, state, and federal officials. This Local EAS Plan may be activated on a 24 hour-a-day basis in response to time critical local emergencies/disasters and contains procedures for emergency officials and local broadcasters to transmit emergency information to the public using the Emergency Alert System during such an event.

II. POLICIES

A. ASSIGNMENT OF RESPONSIBILITIES

1. Washington State Emergency Communications Committee (SECC)

The Washington State Emergency Communications Committee (SECC) is responsible for administering the EAS on the state level. The SECC has divided Washington State into several local areas. Each local area is administrated by a Local Emergency Communications Committee (LECC). The LECCs are responsible for designing and writing a Local Area Plan which will become part of the Washington State EAS Plan.

2. Local Emergency Communications Committee (LECC)

The LECC (Local Emergency Communications Committee) for the coastal operational area is composed of representatives from the following agencies and broadcast stations:

Grays Harbor County Emergency Management Agency
Grays Harbor Communications Center E9-1-1
Grays Harbor Radio
Jodesha Broadcasting
Pacific County Emergency Management Agency
Pacific County Communications

It is a sub-committee of the Washington SECC (State Emergency Communications Committee) and is responsible for administering this local area plan.

3. Grays Harbor and Pacific Counties Emergency Management Agencies

The Grays Harbor and Pacific Counties Emergency Management Agencies are members of the LECC for the Coastal Operational Area. This plan reflects only the

portion of the EAS system directly related to its operation in Grays Harbor and Pacific Counties.

It is the intention and policy of the Grays Harbor and Pacific Counties Emergency Management Agencies to activate the EAS in order to alert and warn residents of life threatening emergencies. The EAS will be utilized only when time limitations or incident severity prohibits information distribution to the media by normal channels.

Following an EAS message, and provided that media staff is available, further instruction and information directed to the public, will be disseminated to the media by the originating agency or affected jurisdiction using normal channels.

B. LIMITATIONS

The Grays Harbor and Pacific Counties Emergency Management Agencies recognize that the EAS is a voluntary system, and that despite best intentions, is not 100% reliable. Limitations include the functionality of the radio system infrastructure, the use of radio and television by the intended recipients of the message, and the timely broadcast of messages by the radio, television, and cable providers.

III. SITUATION

A. GENERAL

There is no single effective method of warning or alerting Grays Harbor and Pacific County residents to imminent danger. There will be times when it is critical to warn the public and local officials of threatening or occurring emergencies and disasters. The EAS is one method or tool to be used, in cooperation with local broadcasters, to accomplish effective public warning.

Examples of incidents that may require warning and the use of the EAS include: volcano, severe weather, flood, hazardous material release, earthquake, and tsunamis. Other hazards as identified in the local and state Hazard Identification and Vulnerability Analysis (HIVA) may warrant use of the EAS.

B. PLANNING ASSUMPTIONS

1. Implementation of the EAS will be in response to an event that is occurring or will occur within a short period of time, making conventional methods of warning and media notification inadequate.
2. Lives may be in jeopardy unless immediate precautions are taken.
3. EAS transmitters and receivers, and the radio system infrastructure are functional.
4. Other methods of warning will be used in addition to EAS.
5. EAS will be effective only if television is turned on or radios are turned on/powered up.
6. Radio, television, and cable providers will broadcast EAS messages in a timely manner.

IV. CONCEPT OF OPERATIONS

A. GENERAL

The EAS operates through coordinated participation on the part of radio and television stations, as well as cable television companies. Authorized federal, state and local authorities may activate the EAS to warn the public of potential life threatening events.

Certain equipment or software is required to initiate EAS messages. The equipment or software utilizes templates for transmitting EAS messages. Audio messages are time limited and must contain concise warning instructions. Before the message is broadcast or displayed, two attention bursts are initiated and the message is announced.

B. FACILITIES/EQUIPMENT

The Grays Harbor Emergency Management Agency has installed an ENDEC (encoder/decoder) EAS unit in the Grays Harbor Communications Center. In addition both Grays Harbor Emergency Management Agency and the Pacific County Emergency Management Agency have access to MyStateUSA, a web-based software platform, which can activate/initiate EAS messages. All Grays Harbor and Pacific County EAS messages will originate from these locations.

C. RESPONSIBILITIES

1. Washington Military Department, Emergency Management Division

Should an incident affect more than two counties in Southwest Washington, requests for EAS activation will be coordinated with Washington State Emergency Management. In cases where multiple jurisdictions are affected, one EAS message should be sent that provides guidance to all populations affected by the incident.

2. National Weather Service

The decision to activate the EAS for weather related incidents will generally be the responsibility of the National Weather Service. For localized non-weather related incidents, Grays Harbor and Pacific Counties will be the designated authority for activating their EAS.

All primary and alternate EAS contacts are available on a 24-hour basis, with after hours operation handled by designated communications centers.

3. Local Emergency Communications Committee (LECC)

The LECC develops and maintains the EAS for Grays Harbor and Pacific Counties. Changes to the plan are approved or denied and submitted to the SECC for their approval. At least one annual review of the plan should be conducted.

4. Grays Harbor and Pacific Counties Emergency Management Agencies

The Directors and Councils of Grays Harbor and Pacific Counties Emergency Management Agencies have primary responsibility for activating the EAS for incidents occurring within Grays Harbor and Pacific Counties. It is the responsibility of the Grays Harbor and Pacific Counties Emergency Management Agencies to:

- a. Document and file all EAS tests and alerts.
- b. Maintain a position on the LECC.

5. E911 Communications

E911 Communications is responsible for ensuring the proper training of personnel on the policies and procedures governing the EAS. E911 Communications actively participates in the local EAS testing process and provides feedback to the LECC on EAS concerns.

- a. Maintain EAS equipment so that it can be activated 24 hours a day.
- b. Designate personnel who will send EAS messages.
- c. Develop and offer training for communications personnel on operating procedures.
- d. Test EAS equipment and procedures regularly.
- e. Maintain a position on the LECC.

D. LOCAL RELAY NETWORK

The Grays Harbor and Pacific Counties Local Relay Network will be based on UHF repeaters located at Radar Ridge, Holy Cross, South Montesano, and Megler. The Grays Harbor Emergency Management Agency and Grays Harbor and Clatsop broadcasters will have EAS encoder/decoders configured to transmit via UHF radio to a repeater.

PCEMA MONITORING RECOMMENDATIONS:

INPUTS	1	2	3	4	5	6
SOURCE	LRN	NWS	KJET	KXRO	KVAS	SRN
FREQ.	453.675	162.40	105.7 FM	1320 AM	103.9 FM	155.475
LOCATION	See Above	Naselle	Raymond	Aberdeen	Astoria	Naselle
EAS LEVEL	LOCAL 1	WEA 1 NAT 2	NAT 3 LCL 2 WEA 2 ST 2	NAT 2 LCL 2 WEA 2 ST 2	NAT 3 LCL 2 WEA 2 ST 2	ST 1 NAT 2

GHEMA MONITORING RECOMMENDATIONS:

INPUTS	1	2	3	4	5	6
SOURCE	LRN	NWS	KSWW	KDUX	KXXO	SRN
FREQ.	453.675	162.40	102.1 FM	104.7 FM	96.1	155.475
LOCATION	South Montesano	Capital Peak	South Montesano	Aberdeen	Olympia	Naselle
EAS LEVEL	LOCAL 1	WEA 1 NAT 2	NAT 3 LCL 2 WEA 2 ST 2	NAT 3 LCL 2 WEA 2 ST 2	NAT 3 LCL 2 WEA 2 ST 2	ST 1 NAT 2

E. EVENT CODES

An Event Code defines the type of alert message being sent. Each type of emergency requires a unique event code. The FCC has defined numerous event codes for use by the EAS. A list of codes valid to the Grays Harbor and Pacific Counties Emergency Management Agencies is included in Tab 3 of this plan. New event codes must be approved by the Washington State Emergency Communications Committee (SECC) and the FCC.

F. LOCATION CODES

A location code defines the geographic area affected by the emergency. EAS location codes are based on the Federal Information Processing Systems (FIPS) codes. In the FIPS code system each state is defined by a two-digit number and each county in each state has been assigned a three-digit number. The combination of state number and the county number gives each county in the entire country a unique five-digit identification number.

Grays Harbor County	053027
Pacific County	053049
All State of Washington	053000

G. DURATION CODES

TTTT = Duration of the event. This code defines how long the alert is expected to be in effect. The duration must be determined by the alert originator each time an alert is sent.

A valid duration can be entered in 15 minute segments up to one hour and then in 30 minute segments beyond one hour. For example:

0015 = 15 minutes
0030 = 30 minutes
0045 = 45 minutes
0100 = 1 hour
0230 = 2 hours 30 minutes
0400 = 4 hours

H. PROCEDURES

1. General Protocol

The EAS uses a specific protocol described in detail in the FCC Rules and Regulations and in the State EAS Plan. EAS encode/decode devices and software allow operators to input information in plain English, then automatically convert that information into digital data and outputs it as an audio signal, just like a computer modem. The encoder formats the information to match the EAS protocol.

EAS activations (tests or alerts) will consist of up to four elements:

- a. A header code
- b. An attention signal
- c. An aural message
- d. An end of message code

All EAS activations will include a header code data burst. The header code will be sent three times, with a one-second pause after each transmission, to ensure proper reception by EAS decoders. The header code contains the basic EAS message in digital form.

Following the header code, a two-tone attention signal may be used to alert listeners and viewers that an EAS activation has occurred and that a voice message will

follow. The attention signal should be used if, and only if, a voice message will be included as part of the alert.

A voice message will follow the attention signal. Use of the two-tone attention signal and a voice message will be determined by the originator of the alert; they are not required, but if one is used the other must accompany it.

All EAS activations will conclude with an end-of-message code data burst. The end-of-message code will be sent three times, with a one-second pause after each transmission, to ensure proper reception by EAS decoders.

2. Message Composition

It is recognized that emergency situations which require the use of EAS are time-critical and warning of the public must be done immediately; however, the EAS message must be clear and provide direction. Messages may include the following information:

- a. The requesting jurisdiction.
- b. What will happen.
- c. When it will happen.
- d. Where it will happen.
- e. Geographic area affected (if multiple jurisdictions affected, include all).
- f. Emergency protection measures for the public.
- g. If evacuation is required, identity of the hazard area and specific desirable transportation routes or direction of travel for evacuees.
- h. Reassurance that officials are addressing the incident.
- i. A statement encouraging people to avoid using telephone systems for the first few hours except for life threatening emergencies.
- j. Advise the public to listen to their local radio station for more emergency information.
- k. Advise the public to only call 911 for life threatening emergencies.

3. Public Information Officer

Personnel at the issuing jurisdiction will identify a Public Information Officer who is currently available for questions from the media. Issuing jurisdiction personnel will also be available to handle inquiries from the public or other agencies. It may be appropriate to establish an Information Center for media inquiries and a citizen hotline to address inquiries from the public.

4. Request For Activation

When the incident commander or highest ranking official at the scene of an incident determines that an EAS message must be initiated to save lives, they will contact the authorized individual who has authority to request activation of the EAS. If none of the local EAS activation authorities can be contacted, EAS activation may be requested through Washington State Emergency Management.

It is the responsibility of the Emergency Management Agency to draft or review the message, confirm the incident with a reliable source (dispatch center or incident commander), and approve the message prior to broadcast. Broadcast stations will automatically air the required EAS messages and have no mechanism to confirm or edit information. It is critical that the agency sending the alert authenticate the information prior to transmission to broadcasters.

5. Authentication

Emergency messages must be verified PRIOR TO TRANSMISSION to the Local Relay Network. It is understood that some or all of the EAS stations will, at various times, be in an unattended mode, and that there will be no method to authenticate a transmission at the broadcast or cable level.

6. Notification of Affected Agencies

Notification of affected jurisdictions and government officials will be made by the Emergency Management Agency simultaneously with the sending of the EAS message whenever possible. There will be times when warning the public is time critical and the EAS message will be sent before other notifications are made. In addition to affected jurisdictions, notification includes Washington State Emergency Management. As necessary, a request will be made for Washington State Emergency Management to notify other counties to advise of the activation of EAS. The method of notification may include but is not limited to telephones, radios, computers, ACCESS, and NAWAS.

The activation of EAS for any purpose will generate calls from the public, government officials and the media. Whenever possible, affected jurisdictions should be contacted at the same time the EAS message is being generated.

V. RESPONSIBILITIES

A. TRAINING

Training of all operators is critical to the success of the EAS. The Emergency Management Agency and E911 Communications will establish procedures and a suggested training plan that includes detailed instruction and hands on use of the ENDEC and/or the MyStateUSA software by authorized personnel.

Training should also include familiarity with event codes and their application to various emergencies and the FEMA guidelines for preparing voice messages. This training would be useful in understanding alerts originated by other agencies and relayed via the repeater.

B. TESTING

E911 Communications will originate tests of the EAS on behalf of the Grays Harbor and Pacific Counties Emergency Management Agencies according to FCC rules and the State EAS Plan testing schedule as outlined in TAB 4 of this plan. Required Weekly Tests (RWT) will be initiated by broadcasters. The Required Monthly Test (RMT) is a coordinated test that contains all the elements of an actual EAS alert.

Standards should be applied when conducting the RMT. Use the settings described in TAB 6 to initiate an RMT.

VI. CHANGES TO THE PLAN

Changes to this plan may be suggested at any time and will be considered during the annual review of the LECC unless circumstances require a special meeting at an earlier date. All proposed changes must be submitted in writing to the LECC chairperson. Following approval by the LECC, all changes must be submitted to the SECC for final approval.

VII. REFERENCES

- Title 47 U.S.C. 151, 154 (i) & (o), 303 (r), 524 (g) & 606
- 47 C.F.R. Part 11, FCC Rules & Regulations, Emergency Alert System
- Washington State EAS Plan

TAB 1 CHECKLIST FOR INITIATING AN EAS MESSAGE

- ρ Verify the emergency and be certain that it meets the following criteria:
 - 1. Lives must be in danger.
 - 2. Direction provided via EAS has the potential to save lives.

- ρ Identify the corresponding event code.

- ρ Identify the duration of the event (15 minutes to 4 hours)

- ρ Determine the need for a voice message.

- ρ Follow the device specific instructions in Tab 6.

- ρ If applicable, enter the voice message including the following information:
 - 1. The requesting jurisdiction
 - 2. What will happen
 - 3. When it will happen
 - 4. Where it will happen
 - 5. Geographic area affected
 - 6. Emergency protection measures for the public
 - 7. If evacuation is required, the hazard area and desirable transportation routes and direction of travel for the evacuees
 - 8. Reassurance that officials are addressing the incident
 - 9. A statement encouraging people to avoid using telephone systems for the first few hours except for life-threatening emergencies
 - 10. Advise the public to listen to their local radio station for more emergency information.
 - 11. Verify that the Local Relay Network radio channel is not in use and no corresponding EAS messages have been received from any other agency.
 - 12. Advise the public to only call 911 for life threatening emergencies.

- ρ Transmit the message to the Local Relay Network.

- ρ Verify that the message was transmitted.

- ρ Keep a record of all transmissions.

**TAB 2 CONFIDENTIAL ROSTER OF INDIVIDUALS AUTHORIZED TO ACTIVATE EAS
WITH AUTHENTICATOR CODES**

Grays Harbor County:

DEM Director	Charles Wallace
Sheriff	Rick Scott
Undersheriff	Dave Pimentel
Chief Criminal Deputy	Steve Schumate

Pacific County:

EMA Director	Stephanie Fritts	04-07
Pacific County Sheriff's Office Chief Deputy	Denise Rowlett	11-24
EMA Deputy Director	Scott McDougall	05-18

National Weather Service

Washington State Emergency Management

TAB 3 EVENT CODES

These are the event codes available:

ADR	Administrative Message
AVA	Avalanche Watch
AVE	Avalanche Warning
BZW	Blizzard Warning
CAE	Child Abduction Emergency
CDW	Civil Danger Warning
CEM	Civil Emergency Message
CFA	Coastal Flood Watch
CFW	Coastal Flood Warning
DMO	Practice/Demo Warning
DSW	Dust Storm Warning
EAN	Emergency Action Notification
EAT	Emergency Action Termination
EQW	Earthquake Warning
EVI	Evacuation Immediate
FFA	Flash Flood Watch
FFS	Flash Flood Statement
FFW	Flash Flood Warning
FLA	Flood Watch
FLS	Flood Statement
FLW	Flood Warning
FRW	Fire Warning
HMW	Hazardous Materials Warning
HWA	High Wind Watch
HWW	High Wind Warning
LAE	Local Area Emergency
LEW	Law Enforcement Warning
NIC	National Information Center
NMN	Network Message Notification
NPT	National Periodic Test
NUW	Nuclear Power Plant Warning
RHW	Radiological Hazard Warning
RMT	Required Monthly Test
RWT	Required Weekly Test
SPW	Shelter in Place Warning
SMW	Special Marine Warning
SVA	Severe Thunderstorm Watch
SVR	Severe Thunderstorm Warning
SVS	Severe Thunderstorm Statement
TOA	Tornado Watch

TOE	911 Telephone Outage Emergency
TOR	Tornado Warning
TRA	Tropical Storm Watch
TRW	Tropical Storm Warning
TSA	Tsunami Watch
TSW	Tsunami Warning
VOW	Volcano Warning
WSA	Winter Storm Watch
WSW	Winter Storm Warning

TAB 4 REQUIRED MONTHLY TEST SCHEDULE

WASHINGTON STATE 2014 RMT SCHEDULE
Approved 9/13/13

	JAN	FEB	MAR	APR	MAY (1)	JUN	JUL	AUG	SEP (2)	OCT (3)	NOV	DEC
CENTRAL PUGET SOUND Phil Johnson (206) 930-9369	Fr 10 2:30 PM Knap Co. DEM	Mo 3 7:25 AM STATE DEM	Mo 3 12:30 PM NORCOM	Sa 12 8:00 AM STATE DEM	Tu 8 10:00 AM Pierce Co. DEM	Th 5 8:05 AM ESCA	Fr 11 10:50 AM STATE DEM	Mo 4 7:45 AM Inland Co. DEM	We 10 8:30 AM SnoPac	Th 16 10:16 AM NWS	Th 5 12:35 PM Jefferson Co. DEM	Sa 13 4:50 PM King Co. DEM
CLALLAM COUNTY Todd Orloff (360) 457-1450	Fr 10 8:45 AM Clallam	Mo 3 7:25 AM STATE DEM	Sa 8 1:00 PM Clallam	Sa 12 8:00 AM STATE DEM	Th 8 1:00 PM Clallam	Th 4 7:20 AM Clallam	Fr 11 10:50 AM STATE DEM	We 8 8:50 AM Clallam	Th 11 8:45 PM Clallam	Th 16 10:16 AM NWS	Sa 8 2:10 PM Clallam	Mo 8 5:20 PM Clallam
COASTAL Paul Anderson (360) 535-1329	Mo 8 8:45 AM Pacific County	Mo 3 7:25 AM STATE DEM	We 5 11:50 AM Grays Harbor County	Sa 12 8:00 AM STATE DEM	Th 8 10:15 AM Pacific County	Tu 3 9:50 PM Grays Harbor County	Fr 11 10:50 AM STATE DEM	Mo 4 8:15 AM Grays Harbor County	Sa 13 8:45 PM Pacific County	Th 16 10:16 AM NWS	Sa 3 2:45 PM Pacific County	We 10 10:50 PM Grays Harbor County
COLUMBIA BASIN Sean Davis (509) 546-5846	Tu 7 12:50 PM FCEM	Mo 3 7:25 AM STATE DEM	We 5 5:25 PM BCEM	Sa 12 8:00 AM STATE DEM	Fr 9 11:15 AM WHEM	Th 5 8:05 AM OCEM	Fr 11 10:50 AM STATE DEM	Th 7 8:15 AM BCEM	We 10 7:45 PM FCEM	Th 16 10:16 AM NWS	Th 4 10:25 AM WHEM	We 10 4:50 PM OCEM
COWLITZ/MAKIAKUM Beau Renfro (360) 795-3242	Mo 8 9:00 AM Cowlitz DEM	Mo 3 7:25 AM STATE DEM	Tu 4 1:30 PM Wahakum County	Sa 12 8:00 AM STATE DEM	Th 8 9:00 AM Cowlitz DEM	Fr 6 7:30 AM Wahakum County	Fr 11 10:50 AM STATE DEM	We 8 7:50 AM Cowlitz DEM	Tu 9 7:30 AM Wahakum County	Th 16 10:16 AM NWS	Fr 7 1:00 PM Cowlitz DEM	Mo 8 4:45 PM Wahakum County
INLAND NORTHWEST Marlin Jackson (509) 329-4908	We 8 11:00 AM Spokane Co. Dispatch	Mo 3 7:25 AM STATE DEM	Fr 7 11:45 AM Koot DEM	Sa 12 8:00 AM STATE DEM	Sa 10 2:00 PM NWS	Mo 8 8:30 AM Montana DEM	Fr 11 10:50 AM STATE DEM	Th 7 7:10 AM Spokane Co. Dispatch	Tu 9 1:30 PM Idaho DEM	Th 16 10:16 AM NWS	Mo 3 10:55 AM Koot DEM	Tu 9 8:10 AM NWS
KITTITAS COUNTY Bob Johnson (509) 625-8537	Sa 11 11:00 AM KITTCOM	Mo 3 7:25 AM STATE DEM	Tu 4 1:00 PM KITTCOM	Sa 12 8:00 AM STATE DEM	Fr 9 1:00 PM KITTCOM	Fr 6 8:30 AM KITTCOM	Fr 11 10:50 AM STATE DEM	Mo 4 8:50 AM KITTCOM	Mo 8 8:45 PM KITTCOM	Th 16 10:16 AM NWS	Tu 4 2:10 PM KITTCOM	We 10 7:50 AM KITTCOM
LEWIS COUNTY Sgt Ross McDowell (360) 740-1151	Tu 7 2:50 PM Lewis County E-911	Mo 3 7:25 AM STATE DEM	Fr 7 1:50 PM Lewis County E-911	Sa 12 8:00 AM STATE DEM	Mo 5 3:05 PM Lewis County E-911	Sa 7 7:50 AM Lewis County E-911	Fr 11 10:50 AM STATE DEM	Fr 8 7:50 AM Lewis County E-911	Tu 9 7:50 AM Lewis County E-911	Th 16 10:16 AM NWS	We 5 10:25 AM Lewis County E-911	Tu 9 7:50 AM Lewis County E-911
MASON/THURSTON Ruth Brownstein (360) 867-6897	Th 9 2:40 PM Mason County EOC	Mo 3 7:25 AM STATE DEM	We 5 1:40 PM Thurston County EOC	Sa 12 8:00 AM STATE DEM	Tu 8 11:20 AM Mason County EOC	Sa 7 8:20 AM Thurston County EOC	Fr 11 10:50 AM STATE DEM	Tu 5 8:50 AM Mason County EOC	Th 11 7:20 AM Thurston County EOC	Th 16 10:16 AM NWS	Sa 8 10:25 AM Mason County EOC	Th 11 7:40 PM Thurston County EOC
NORTH CENTRAL Don Eckis (509) 682-6996	Fr 10 11:00 AM Rivercom Dispatch	Mo 3 7:25 AM STATE DEM	Fr 3 1:50 PM Rivercom Dispatch	Sa 12 8:00 AM STATE DEM	Sa 10 10:00 AM Rivercom Dispatch	Tu 3 7:20 AM Rivercom Dispatch	Fr 11 10:50 AM STATE DEM	Sa 9 7:50 AM Rivercom Dispatch	Fr 12 7:50 AM Rivercom Dispatch	Th 16 10:16 AM NWS	Tu 4 9:25 AM Rivercom Dispatch	Th 11 4:50 PM Rivercom Dispatch
NORTH PUGET SOUND Dillon Hancock (360) 734-9790	Sa 11 2:50 PM Whatcom EOC	Mo 3 7:25 AM STATE DEM	Th 8 12:05 PM San Juan EOC	Sa 12 8:00 AM STATE DEM	Mo 5 1:00 PM Skagit EOC	We 4 8:00 AM Whatcom EOC	Fr 11 10:50 AM STATE DEM	Tu 5 7:50 AM San Juan EOC	We 10 8:50 AM Skagit EOC	Th 16 10:16 AM NWS	We 5 2:10 PM Whatcom EOC	Fr 12 7:20 PM San Juan EOC
OKANOGAN John Andriol (509) 826-0300	We 8 2:50 PM Okanogan EOC	Mo 3 7:25 AM STATE DEM	Fr 7 1:00 PM Okanogan EOC	Sa 12 8:00 AM STATE DEM	We 7 10:00 AM Okanogan EOC	Sa 7 7:20 AM Okanogan EOC	Fr 11 10:50 AM STATE DEM	Th 7 8:50 AM Okanogan EOC	Tu 9 8:45 PM Okanogan EOC	Th 16 10:16 AM NWS	Fr 7 10:25 AM Okanogan EOC	Th 11 7:20 AM Okanogan EOC
YAKIMA VALLEY Wayne Wentland (509) 575-6048	Tu 7 10:00 AM Yakima Valley 911	Mo 3 7:25 AM STATE DEM	Sa 3 1:50 PM Yakima Valley 911	Sa 12 8:00 AM STATE DEM	Fr 9 10:00 AM Yakima Valley 911	Mo 2 9:50 PM Yakima Valley 911	Fr 11 10:50 AM STATE DEM	Fr 8 8:50 AM Yakima Valley 911	Sa 13 7:50 AM Yakima Valley 911	Th 16 10:16 AM NWS	Th 5 2:10 PM Yakima Valley 911	Fr 12 7:20 AM Yakima Valley 911
COLUMBIA GORGE	Columbia Gorge follows the Oregon State RMT test schedule (see www.sba124.org).											

One originator for the entire state in February, April, July, and October.

TAB 5 DEFINITIONS

The following definitions apply to EAS terms, which have been used in the development of this local area plan. For a more comprehensive list of terms refer to the Washington State EAS Plan.

NAME	DESCRIPTION
Activation	The initiation of the EAS by transmission of EAS codes.
AMBER	Abducted Minor Broadcast Emergency Response.
Attention Signal	Eight to twenty five second of two tones (835Hz and 960Hz) used as an audio alert.
EMD	Emergency Management Division.
EAN	Emergency Action Notification. A national level EAS alert.
EAN Network	The interconnection of the federal government with national networks and program suppliers used to disseminate the EAN message.
EAS	Emergency Alert System.
EAS Alert	An EAS activation in an actual emergency.
EAS Decoder	A device, which monitors sources and decodes incoming EAS messages. A decoder accepts digital bursts and translates them into an audio and/or printed message.
EAS Encoder	A device used by EAS participants to originate EAS alerts by creating the EAS codes for transmission to other participants and the public. The encoder generates messages that may be preset for quick release to other participants and the public.
EAS Test	EAS activation for testing purposes.
Emergency Action Notification	(EAN): National level alert.
Emergency Alert System	(EAS): The national alerting system composed of broadcast networks; cable networks and program suppliers; AM, FM, and TV broadcast stations; low power television (LPTV) stations; cable systems; and other entities and industries operating in an organized basis during emergencies at the national, state, or local levels. It requires that at a minimum all participants use a common EAS protocol, as defined in FCC Rules Part 11.31, to send and receive emergency alerts.
End of Message Code	ASCII data string that signifies the end of an EAS message.
ENDEC	Encoder/Decoder
Event Code	A three-character ASCII code in the EAS header that denotes the type of event for which an EAS test or alert is issued.
FCC	Federal Communications Commission. One of three federal agencies that participate in EAS.
FIPS Codes	Federal Information Processing System number assigned to states and counties defining geographic areas.
Header Codes	A single string of intelligent ASCII data that includes the originator, event, location, time period, and other basic information concerning an EAS test or alert.
LECC	Local Emergency Communications Committee.
Local Area Plan	The plan developed by a committee in each local operational area that outlines the EAS system and procedures for that particular area. The local area plan for the appropriate operational area is included in the state plan.
Local Emergency Communications Committee	(LECC): A committee made up of representatives from broadcast radio and television stations, cable systems, county/city government and emergency management. It is a subcommittee of the Washington State Emergency Communications Committee and is responsible for approving and administering the plan.

NAME	DESCRIPTION
Local Operational Area	An operational subdivision of the state.
Location Code	A six-digit ASCII code in the EAS header that specifies the location of an emergency utilizing the five-character FIPS code of a state and county.
LP	Local Primary. The LP is the primary source of EAS programming for the local area. A local area may have more than one LP, in which case the stations are designated LP-1, LP-2, etc.
LPTV	Low-power television station.
LRN	Local Relay Network. A system of facilities used to distribute local EAS activation and programming throughout a local area.
National Alert	EAS alert of national origin.
NN	Non-participating National. Broadcasters which elect not to participate in national level EAS. These stations must sign off the air during national alerts, but may elect to participate in local EAS.
NOAA	National Oceanic and Atmospheric Administration. One of three federal agencies that participate in EAS.
NOAA Weather Radio	(NWR) a service of the National Weather Service that provides continuous broadcasts of the latest weather information and any weather-related emergency warnings to a local area. NWR uses seven VHF radio frequencies.
Nuclear Plan/Industrial Plant	Nuclear and other industrial plants with a potential for dangerous conditions may have their own specific EAS plans, which must conform to EAS standards and be approved by the LECC.
NWR	NOAA Weather Radio
NWS	National Weather Service. NWS is 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.
Originator	The entity that originates an EAS alert.
Originator Code	A three-character ASCII code in the EAS header that identifies the entity that originates an EAS test or alert.
PEP	Primary Entry Point. A broadcast station, that can serve as an entry point for national EAS information in the event that the primary national alerting methods are inoperable.
PN	Participating National. Broadcast stations and cable systems, which deliver all levels of EAS to the general public, including local information.
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 codes, and the modulation technique used for radio transmission.
RMT	Required Monthly Test. A coordinated monthly test of EAS operations involving the full receiving and transmission of EAS codes, attention signal, EAS test programming, and EAS end-of-message codes.
RWT	Required Weekly Test. An independent weekly test of EAS equipment only involving the decoding and encoding of EAS header codes and end-of-message codes.
SECC	State Emergency Communications Committee.
SRN	State Relay Network. A system of facilities used to distribute state EAS activations and programming across the state.
State EAS Plan	A document that outlines the organization and implementation of EAS in Washington State. It includes monitoring assignments, actions to be taken in emergency activations, and other guidelines for broadcasters and cable personnel in use of the EAS.
State Emergency Communications Committee	(SECC): The state committee who administers the EAS plan at the state level

NAME	DESCRIPTION
(Washington)	
Time-Duration Code	A four-digit ASCII code in the EAS header that defines how long the EAS activation is valid.

TAB 6 DEVICE SPECIFIC INSTRUCTIONS FOR THE ENDEC MODEL 1822

The ENDEC device works through a series of menus accessed by scrolling and entering. The default display indicates "MENU," "WEEK," and "MSG." Many of the menu selections relate to programming, configuration, computer compatibility, and television and cable settings. In the interest of simplicity these instructions will relate only to the origination of Required Monthly Tests (RMT) and alerts.

Prior to sending an EAS message you must:

- ρ Verify the emergency
- ρ Determine the need for a voice message
- ρ Verify the availability of the LRN and that no duplicate message has been received from another participant in the Coastal Operational Area

⇒ **To access the menu system, simply begin by pushing the "enter" button under the word "menu."** You may scroll through the menu by pushing the up or down arrow keys. An arrow similar to the one at the beginning of this paragraph will indicate the "highlighted" selection. If you scroll past or choose the wrong selection you may either scroll in the opposite direction or simply select the "go back" option.

In order to send a message you will be utilizing the "Alerts" menu, which includes, among others, the following commands: Originate, Send Pending, Record Audio, and Preview Audio.

Regarding Audio: The audio recorded on the ENDEC is stored in RAM, which means that it is volatile. Stored audio will be lost if the power is turned off on the unit or if there is a general power failure. For this reason audio needs to be recorded in advance of each test or emergency message. Directions for recording audio are included in the device and alert specific checklists that follow.

PROCEDURE FOR THE REQUIRED MONTHLY TESTS (RMT)

Note: Prior to initiating a Required Monthly Test (RMT) please telephone the radio station and let the station manager know in advance. This allows them to monitor the RMT and delay re-transmitting until there is a break in the programming.

KJET: 360-533-3000

KDUX: 360-533-1320

- ρ Push the “enter” key and go to the “alerts” menu.
- ρ Push the “enter” key again.
- ρ The display will now show “go back,” “originate alerts,” and “send pending.” Scroll down until the arrow highlights the “record audio” selection and press the “enter” key.
- ρ The ENDEC now prompts for a password. Push the “enter” key four times to enter the password.
- ρ The display now prompts for a source, press the “enter” key.
- ρ The ENDEC now displays “Microphone, Use MIC PTT” or “Start Abort Erase.”
- ρ Place the microphone in your hand and be ready to read the message below.
- ρ Push the “enter key” and the recording begins.
- ρ Key the microphone, hesitate 1 - 2 seconds, and record the audio portion of this message:

“This is a test of the Emergency Alert System. In the event of an actual emergency this system would bring you important information. This test is now concluded.”

- ρ Push the key under “end” immediately following the conclusion of your message.
- ρ Push the “enter” key and go to the “alerts” menu.
- ρ Push the “enter” key again to go to “originate alert.”
- ρ The ENDEC now asks you if the alert is from new data or a template.
- ρ Select “template.”
- ρ The display now lists the templates. Scroll up until you read “monthly test.”
- ρ Push the “enter” key.
- ρ ENDEC now asks if you wish to alter the template. Choose “no” by pushing the “scroll-up” key.
- ρ The display asks the duration. The standard duration for an RMT is 30 minutes. Push the “less” key until the display reads “00:30.”
- ρ Push the key to indicate “done.”
- ρ Lastly, the ENDEC reads “MONTHLY TEST,” proceed abort.
- ρ Push the “enter” key to proceed.
- ρ The ENDEC will produce a printed tape documenting the RMT.
- ρ Push the “menu” key and scroll to printer feed.
- ρ Select printer feed and enter the password (1111).
- ρ The printer should feed immediately following password entry.
- ρ Tear off the tape and archive for Emergency Management.

Emergency Management is required by the FCC to keep a log of all broadcasts. It is important that the tapes of RMTs get to Emergency Management for inclusion in an activity log. Your assistance is appreciated.

PROCEDURE FOR ALL OTHER EMERGENCY ALERT SYSTEM (EAS) MESSAGES

No audio messages are pre-recorded for other types of situations. You or someone else with authorization must prepare and record a message of no longer than two minutes. The audio script should be complete before proceeding further.

Information that must be included in an emergency message includes the following. Obtain the duration from 15 minutes to 4 hours from the authorized person (default is one hour).

1. The name and title of the person delivering the message.
2. What will happen.
3. When it will happen.
4. Where it will happen.
5. Geographic area affected.
6. Emergency protection measures for the public.
7. If evacuation is required, the hazard area and desirable transportation routes and direction of travel for the evacuees.
8. Reassurance that officials are addressing the incident.
9. A statement encouraging people to avoid using telephone systems for the first few hours except for life-threatening emergencies.
10. Advise the public to listen to their local radio station for more emergency information.
11. Verify that the Local Relay Network radio channel is not in use and no corresponding EAS messages have been received from any other agency.

- ρ Push the “enter” key and go to the “alerts” menu.
- ρ Push the “enter” key again.
- ρ The display will now show “go back,” “originate alerts,” and “send pending.” Scroll down until the arrow highlights the “record audio” selection and press the “enter” key.
- ρ The ENDEC now prompts for a password. Push the “enter” key four times to enter the password.
- ρ The display now prompts for a source. Press the “enter” key.
- ρ The ENDEC now displays “Microphone, Use MIC PTT” or “Start Abort Erase.”
- ρ Place the microphone in your hand and be ready to read the message.
- ρ Push the “enter” key and the recording begins.
- ρ Key the microphone, hesitate 1 - 2 seconds, and record the audio portion of the message.
- ρ Push the key under “end” immediately following the conclusion of your message.
- ρ Scroll up to “originate alert,” push “enter.”
- ρ The ENDEC now asks if the alert is from new data or a template.
- ρ Push the “enter” key indicating new.”
- ρ The prompt asks for an originator. We are “civil authorities.”
- ρ Push the “enter” key.
- ρ The prompt now asks for an event. Scroll up and down the list to find an appropriate event code. The choices are included in Tab 3.
- ρ Choose one selection from the list and push the “enter” key.
- ρ The prompt now asks for the attention duration. Scroll up to eight and push “enter.”
- ρ The prompt now asks you to select the audio. Scroll up and select “stored audio” by pressing the “enter” key.
- ρ The display now changes to “Adding locations.”
- ρ Select “new.”
- ρ Scroll up to “Washington” and push “enter.”

- ρ The display now changes to “All of Washington.” Scroll up to “Grays Harbor and Pacific Counties” and push “enter.”
- ρ The display should read “Done, Delete, Division.”
- ρ Scroll through the options and push “enter” to select “All.”
- ρ The display now reads “Updating locations.”
- ρ Push enter indicating “Done.”

PROCEDURE FOR ALL OTHER EAS MESSAGES (continued)

- ρ The display now asks if there is an “NV lead-in.” Select no.
- ρ The display now prompts for the duration. This is subjective and the information should come from the Incident Commander on the scene.
- ρ Push the appropriate key to indicate that you are “done.”
- ρ The display will now read “new, proceed, abort.”
- ρ Push “enter” to proceed.
- ρ The process is complete. Archive the record of the transmission for Emergency Management to include in the activity log.

TAB 7 FILTERS AND TEMPLATES

The ENDEC unit is capable of storing pre-programmed information for outgoing messages and incoming messages. “Filters” are set up to tell the unit what to do with each incoming message. “Templates” are designed to make preparing an outgoing message easier.

The Grays Harbor and Pacific County Emergency Management Agencies have chosen to not use these to a great degree, because in most cases we will be the originator of the message, or we will choose to edit a message we receive prior to passing it on.

The filters and templates programmed into the Grays Harbor ENDEC, along with the preset programming for each, are charted on the following pages:

Incoming Filters (menu.presets.incoming)								
Filter name	Originator	Event	Location	Priority	Action	Attn. Duration	Hold Time	NV Lead
Required EAN	Primary Entry Point (President)	EAN	All FIPS	63	Auto Relay	8	0	No
RMT	Civil Authorities	RMT	All FIPS	62	Auto Relay	8	1	No
RWT	All Originators	RWT	All FIPS	50	Log Only	0	0	No

Outgoing Templates (menu.presets.outgoing)							
Template name	Originator	Event	Attn. Duration	Audio Source	Location	NV Lead	Key
Emergency Message	Civil Authorities	CEM	8	Microphone	All County	No	No
Practice	Civil Authorities	DMO	0	No Audio	All County	No	No
Monthly Test	Civil Authorities	RMT	8	Microphone	All County	No	No
Weekly Test	Civil Authorities	RWT	8	Microphone	All County	No	No

TAB 8 EAS PLAN DISTRIBUTION LIST

Grays Harbor County

Issued		Plan Agency	Staff Name	Date Issued
Book	CD			
1.		Board of County Commissioners	Clerk of the Board	
2.		GHC EMD	Director	
3.		GHC EMD	Manager	
4.		GHC EMD	Office	
5.		WA ST EMD	Telecommunications	
6.		Grays Harbor County Sheriff's Office	Sheriff	
7.		City of McCleary	EM Liaison	
8.		City of Elma	EM Liaison	
9.		City of Oakville	EM Liaison	
10.		City of Montesano	EM Liaison	
11.		City of Aberdeen	EM Liaison	
12.		City of Cosmopolis	EM Liaison	
13.		City of Westport	EM Liaison	
14.		City of Ocean Shores	EM Liaison	
15.		City of Hoquiam	EM Liaison	
16.		Grays Harbor County Public Works	County Engineer	
17.		Grays Harbor Communications E9-1-1	Director	
18.		ARES/RACES	Coordinator	
19.		Summit Pacific Hospital	Administrator	
20.		Grays Harbor Community Hospital	Director	
21.		Washington State Patrol	Sergeant	
22.		GHC ER&R Communications	Supervisor	
23.		LECC	Chairman	
24.		LECC	All Other Members	
25.		Quinault Indian Nation		
26.		Confederated Tribes of the Chehalis Reservation		

Pacific County

Issued		Plan Agency	Staff Name	Date Issued
Book	CD			
1.		Board of County Commissioners	Clerk of the Board	
2.		Pacific County Sheriff's Office	Sheriff	
3.		City of Ilwaco	Mayor	
4.		City of Long Beach	Mayor	
5.		City of Raymond	Mayor	
6.		City of South Bend	Mayor	
7.		Pacific County Communications	Director	
8.		WSP	Sergeant	
9.		SECC	Chair	
10.		Pacific County Telecommunications	Engineer	
11.				
12.				
13.		Shoalwater Bay Tribe	Chair	
14.		PCEMA	Director	

TAB 9 LECC MEMBERSHIP ROSTER

NAME & TITLE	ADDRESS	PHONE/FAX/EMAIL
Pat Anderson, Operations Mgr. Grays Harbor Radio Group KXRO KDUX KXXK KWOK	1308 Coolidge Aberdeen, WA 98520	360-533-1320 360-532-0935 fax 360-590-0830 pat@kdux.com
Peggy Fouts, Director Grays Harbor Communications E9-1-1	PO Box 1845 Aberdeen, WA 98520	360-533-7885 360-532-7902 fax 360-533-8765 dispatch pfouts@gh911.org
Stephanie Fritts, Director Pacific County Communications (PACCOM)	PO Box 27 South Bend, WA 98586	360-875-9340 360-875-9342 fax 360-875-9397 dispatch sfritts@co.pacific.wa.us
James Kost, Supervisor GHC ER&R Communications	100 W Broadway Suite 31 Montesano, WA 98563	360-249-4222 X522 360-249-3203 fax 360-249-4072 jkost@co.grays-harbor.wa.us
Charles Wallace, Deputy Director GHC Emergency Management	310 W Spruce Suite 212 Montesano, WA 98563	360-249-3911 360-249-3805 fax 360-580-2281 cell cwallace@co.grays-harbor.wa.us
Bill Wolfenbarger, President Jodesha Broadcasting Inc. KSWW, KJET, KBKW	PO Box 1198 Aberdeen, WA 98520	360-533-3000 360-581-3638 cell 360-532-1456 fax Wolfenbarger@techline.com

TAB 10 SAMPLE MESSAGE

MESSAGE

This is the (state: name of jurisdiction requesting EAS message) ... **the following is not a test; I repeat the following is not a test.** A (state: situation along with location and affected areas).

This (state: situation) **has the potential to** (describe: the potential for damage to life and property). **People in and around** (state: location) **are threatened.**

If you are in the area(s) of (state: location and evacuation/safety instructions to public). **Do not delay. Do not call 911.** (State: evacuation/safety instructions to public).

REPEAT MESSAGE

I repeat this is not a test. (State: situation along with location and affected areas.)

This (state: situation) **has the potential to** (describe: the potential for damage to life and property). **People in and around** (state: location) **are threatened.**

If you are in the area(s) of (state: location and evacuation/safety instructions to public). **Do not delay. Do not call 911.** (State: evacuation/safety instructions to public again.)

Stay tuned to your local radio station for further details. This is an emergency message from (state: name of person and entity delivering the message).

MESSAGE

This is **the Lewis County Sheriff's Office**, the following is not a test; I repeat the following is not a test. **A hazardous materials accident has occurred on I-5 near exit 72 Napavine.**

This **hazardous materials accident involves a large spill of unknown chemical substance** that has the potential **to cause serious injury and or loss of life to those in and around the area who are unprotected.** People in and around **the area of I-5 near exit 72, Napavine** are threatened.

If you are in the area(s) of **I-5 exit 72, Napavine**, you should **immediately evacuate the area, or shelter in place.** Do not delay. Do not call 911. **Immediately evacuate the area or shelter in place.**

REPEAT MESSAGE

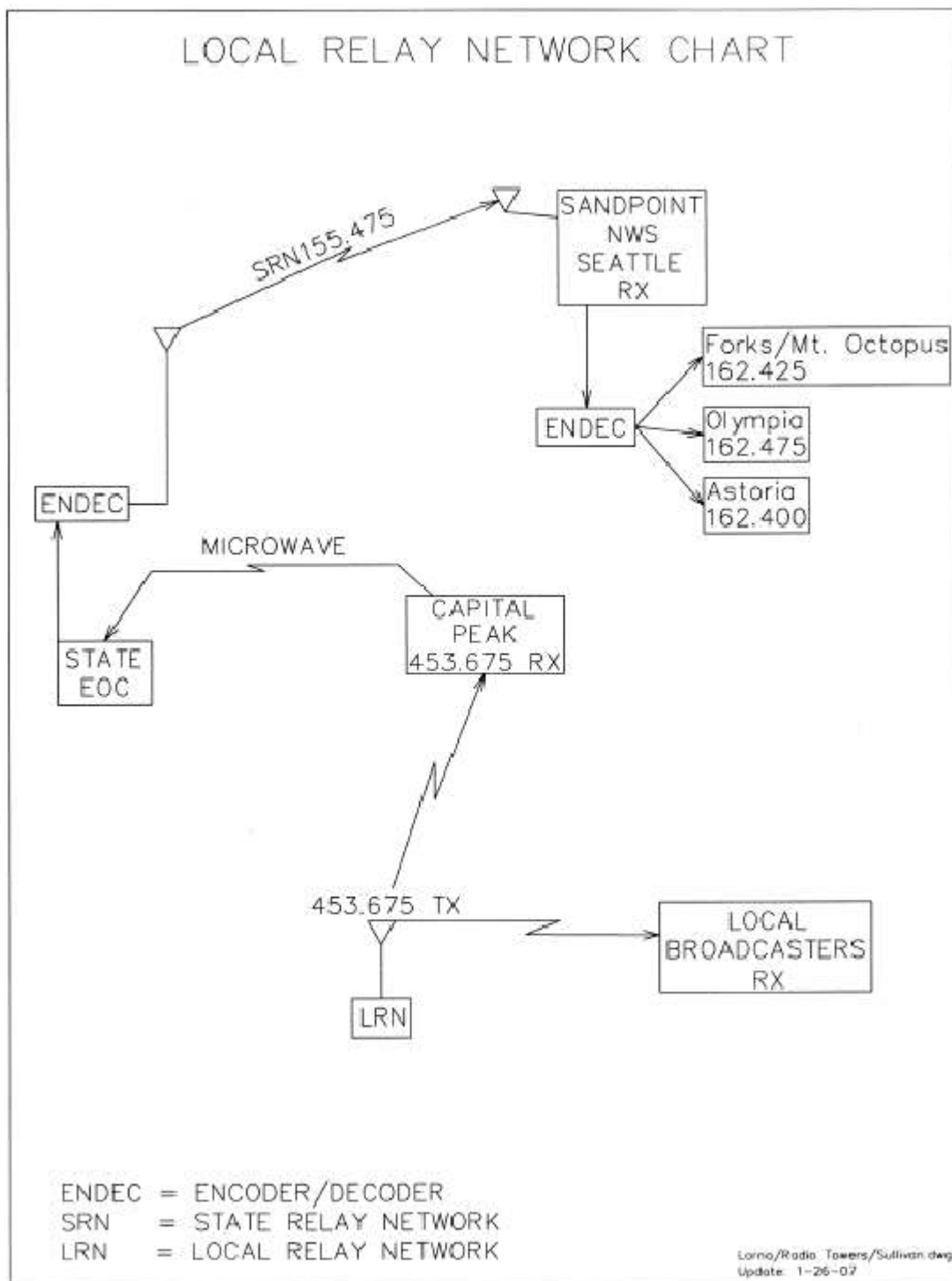
I repeat this is not a test. **A hazardous materials accident has occurred on I-5 near exit 72, Napavine.**

This hazardous materials accident involves a large spill of an unknown chemical substance that has the potential **to cause serious injury and or loss of life to those in and around the area who are unprotected.** People in and around **the area of I-5 near exit 72, Napavine** are threatened.

If you are in the area(s) of **I-5 exit 72, Napavine**, you should **immediately evacuate the area or shelter in place.** Do not delay. Do not call 911. **Immediately evacuate the area or shelter in place.**

Stay tuned to your local radio station for further details. This is an emergency message from **the Lewis County Sheriff's Office.**

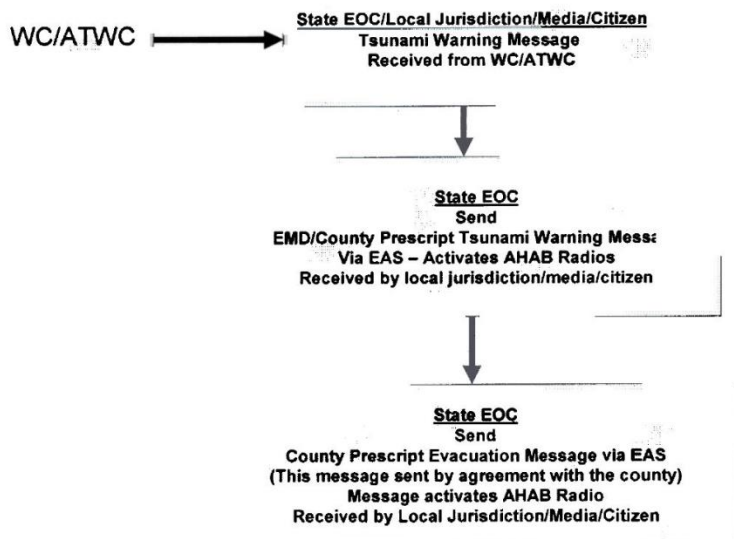
TAB 11 LOCAL RELAY NETWORK (LRN) CHART



TAB 12 INTERGOVERNMENTAL AGREEMENT – ACTIVATION OF THE EAS

APPENDIX A

Tsunami Message Flow Chart



It is agreed that upon receipt of a tsunami warning message from National Tsunami Warning Center the Washington State Military Department will immediately activate coastal All Hazard Alert and Broadcast sirens and send the following EAS message¹:

EAS MESSAGE FOR COASTAL AREA IMMEDIATE EVACUATIONS

A tsunami warning is in effect for the coastal areas of Washington. Move to higher ground and/or inland now. If you are in or near a coastal area you are at risk and must move to higher ground and/or inland now. Do not return until directed to do so. Closely monitor local radio stations for additional information. A tsunami warning is in effect for the coastal areas of Washington. Move to higher ground and/or inland now.

EAS Event Code: EVI (Evacuate Immediately)

Location codes: Grays Harbor County (053027)
City of Aberdeen (053861)
City of Westport (053862)
City of Ocean Shores (053860)
Pacific County (053049)

¹ January 22, 2014 State and Local Tsunami Workgroup meeting, Camp Murray, Washington