

TFT MODEL EAS911D

EAS Decoder

FCC Part 11

Compliance Tests

TFT, Inc.

Santa Clara, California

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Edition 5

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1. GENERAL INFORMATION

1.1 Product Description

The EAS DECODER is a combined Emergency Alert System (EAS) Decoder and Receivers in single unit that permits broadcasters, cablecasters and emergency managers to receive, store, forward Emergency Alert Messages prescribed by the FCC's EAS Rules. By using the EAS digital protocol, the Decoder responds only to the user pre-selected messages and forwards only certain messages automatically with no operator intervention.

2. TEST FACILITIES

2.1 List of Specific Test Equipment

All equipment maintained by regularly scheduled calibration to meet manufacturer's equipment specifications using manufacturer approved calibration lab practices.

TEST EQUIPMENT			
EQUIPMENT TYPE	MANUFACTURER	MODEL NUMBER	FREQ. RANGE
Spectrum Analyzer	Hewlett Packard	3589A	10 Hz - 150 MHz
Oscilloscope	Hewlett Packard	54602B	0 Hz - 150 MHz
Plotter	Hewlett Packard	7470A	
Multimeter	Micronta	22-185	
Temperature Chamber	Jade	-	
Digital Thermometer	Edmund Cat. # S39,228		
Humidity Gauge	Edmund Cat. # S39,228		
AM Field Str. Meter	Potomac Instruments	FIM-21	.54 MHz - 1.6 MHz
FM Field Str. Meter	Potomac Instruments	FIM-71	88 MHz - 108 MHz
Camera	Pentax	IQZoom 120	
Variaac	Technipower	W5MT3A	50 HZ - 60 HZ

2.2 Lab Test Facility

The laboratory test site collecting data for all tests except field susceptibility is located at:

TET, Inc. TEL: (408) 727-7272
 3090 Oakmead Village Drive FAX: (408) 727-5942
 Santa Clara, CA 95051

All testing performed with 120 VAC, 60 Hz wall outlet unfiltered power facilities with ground traceable to central building earth ground.

2.3 Field Test Facilities

AM field testing performed at antenna site of:
 KVTO/AM
 Berkeley, CA

FM field testing performed at antenna site of:
 KBLX/FM
 San Francisco, CA

3. EAS ENCODER COMPLIANCE TESTS

3.1 EAS Encoder Protocol Verification

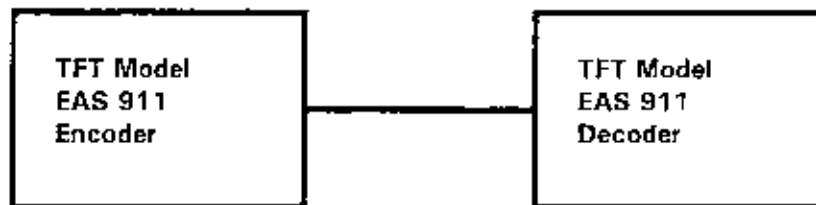
3.1.1 Test Objective

The objective of this test is to verify encoding the EAS protocol as described in §11.31 as required in §11.32(a):

§11.32(a):

EAS Encoders must at a minimum be capable of encoding the EAS protocol described in §11.31 and providing the EAS code transmission requirements described in §11.51.

3.1.2 Test Block Diagram



3.1.3 Test Methodology

This test consists of encoding the 13 example FCC EAS messages by following the encoder procedure in the installation and operation manual. Verification employs the TFT Model EAS 911 for confirmation.

Paper tape print outs of both the encoder and decoder are attached to the data sheets.

1. Verification of decode of EAN (Emergency Action Notification) event from EAN originator.

STIMULUS	EXPECTED RESPONSE	OBSERVED RESPONSE
Channel 1: (PREAMBLE) ZCZC-EAN-EAN-026000- 026111 +0015-0101700- WAAA/FM - (repeated two more times with 1 second pauses) 8 second two tone Channel 2: (idle)	Channel 1 LED: ON while FSK transmitting. Channel 2 LED: OFF. Speaker: Open squelch to pass channel 1 after 2nd packet received and verified. LCD, Printer: THE EMERGENCY ACTION NOTIFICATION NETWORK HAS ISSUED AN EMERGENCY ACTION NOTIFICATION FOR THE USA ON JANUARY 10, 1995 AT 12:00 PM EFFECTIVE UNTIL 12:15 PM. MESSAGE RECEIVED ON JANUARY 10, 1995 AT 12:01 PM FROM WAAA/FM. CHANNEL 1 EAS PROTOCOL TEXT: ZCZC-EAN-EAN-026000-026111 +0015-0101700-WAAA/FM - MSG WAITING LED: Flashing. MESSAGE ALERT Relay: Activated after 2nd packet received and verified. ON-AIR Relay: Activated after 2nd packet received and verified. XLR Audio Output: One second of silence after ON-AIR Relay activates, followed by: (PREAMBLE) ZCZC-EAN-EAN-026000-026111 +0015-0101700-KAAA/AM - (repeated two more times with 1 second pauses) 8 second two tone. Followed by patch through of CH1 audio.	Channel 1 LED: ✓ Channel 2 LED: ✓ Speaker: ✓ LCD, Printer: ✓ <i>SEE PRINTED TAPES</i> MSG WAITING LED: ✓ MESSAGE ALERT Relay: ✓ ON-AIR Relay: ✓ XLR Audio Output: ✓
Channel 1: (PREAMBLE)NNNNN (repeated two more times with 1 second pauses) Channel 2: (idle)	Channel 1 LED: ON while FSK transmitting. Channel 2 LED: OFF. Speaker: Squelched OFF after first packet decoded. LCD Display: Message scrolls until MSG WAITING push button is pressed. Printer: No action. MSG WAITING LED: Remains flashing until MSG WAITING push button is pressed. MESSAGE ALERT Relay: Deactivates after sending EOM. ON-AIR Relay: Deactivates after sending EOM. XLR Audio Output: Goes silent after sending EOM on first EOM packet received.	Channel 1 LED: ✓ Channel 2 LED: ✓ Speaker: ✓ LCD Display: ✓ Printer: ✓ <i>SEE TAPES</i> MSG WAITING LED: ✓ MESSAGE ALERT Relay: ✓ ON-AIR Relay: ✓ XLR Audio Output: ✓

Note: 1. Local time is Eastern Standard 2. Local station is KAAA/AM.

TESTED BY: SA, 71 DATE: 10/30/95

CERTIFIED REPORT OF MEASUREMENT FOR TFT, INC.
FCC PART II TESTING
TFT MODEL EAS911D
EMERGENCY ALERT SYSTEM ENCODER/DECODER
FCC ID: BIOEAS911D

COMPLIANCE TEST NUMBER 3.1 & 4.1

COMPLIANCE TEST RESULTS

Encoder

Decoder

ENCODER TRANSMIT LOG:

THE EMERGENCY ACTION
NOTIFICATION NETWORK HAS
ISSUED AN EMERGENCY
ACTION NOTIFICATION FOR
THE USA ON OCTOBER 30,
1995 AT 4:04 PM
EFFECTIVE UNTIL 4:19 PM.
MESSAGE TRANSMITTED ON
OCTOBER 30, 1995 AT 4:04
PM FROM WAAA/FM.

EAS PROTOCOL TEXT:
ZCZC-EAN-EAN-026000-0261
11+0015-3032104-WAAA/FM
-

PRINTED ON MONDAY
OCTOBER 30, 1995 AT
16:04.

DECODER RECEIVE LOG:

THE EMERGENCY ACTION
NOTIFICATION NETWORK HAS
ISSUED AN EMERGENCY
ACTION NOTIFICATION FOR
THE USA ON OCTOBER 30,
1995 AT 4:04 PM
EFFECTIVE UNTIL 4:19 PM.
MESSAGE RECEIVED ON
OCTOBER 30, 1995 AT 4:04
PM FROM WAAA/FM.

CHANNEL 1 EAS PROTOCOL
TEXT:
ZCZC-EAN-EAN-026000-0261
11+0015-3032104-WAAA/FM
-

PRINTED ON MONDAY
OCTOBER 30, 1995 AT
16:04.

ENCODER TRANSMIT LOG:

THE EMERGENCY ACTION
NOTIFICATION NETWORK HAS
ISSUED AN EMERGENCY
ACTION NOTIFICATION FOR
THE USA ON OCTOBER 30,
1995 AT 4:04 PM
EFFECTIVE UNTIL 4:19 PM.
MESSAGE TRANSMITTED ON
OCTOBER 30, 1995 AT 4:04
PM FROM KAAA/AM.

EAS PROTOCOL TEXT:
ZCZC-EAN-EAN-026000-0261
11+0015-3032104-KAAA/AM
-

PRINTED ON MONDAY
OCTOBER 30, 1995 AT
16:04.

TESTED BY ETH VI ^{cc} DATE 10-30-95

4. Verification of decode of LAN (Emergency Action Notification) event from PLP originator.

STIMULUS	EXPECTED RESPONSE	OBSERVED RESPONSE
Channel 1: PREAMBLE ZCZC PTP LAN 026000 026111 +0015-0107 Jint- WAAA.FM Repeated two more times with 1 second pause 8 second two tone Channel 2: idle	Channel 1 LED: ON while FSK transmitting. Channel 2 LED: OFF. Speaker: Open squelch on pass channel 1 after 2nd packet received and verified. LCD, Printer: A PRIMARY ENTRY POINT STATION HAS ISSUED AN EMERGENCY ACTION NOTIFICATION FOR THE JSA ON LANLADY 10, 1995 AT 12 00 PM EFFECTIVE UNTIL 12:15 PM MESSAGE RECEIVED ON JANUARY 10, 1995 AT 12 01 PM FROM WAAA.FM. CHANNEL 1 HAS PROTOCOL TEXT. ZCZC-PEP-EAN-026000-026111+0015-010700 WAAA.FM MSG WAITING LED: Flashing. MESSAGE ALERT Relay: Activated after 2nd packet received and verified. ON AIR Relay: Activated after 2nd packet received and verified. XLR Audio Output: One second of silence after ON AIR Relay activates, followed by: (PREAMBLE) ZCZC-PEP-EAN-026000-026111+0015-010700-KAAA.FM Repeated two more times with 1 second pause 8 second two tone Followed by patch through of CH1 audio	Channel 1 LED: ✓ Channel 2 LED: ✓ Speaker: ✓ LCD, Printer: ✓ MSG WAITING LED: ✓ MESSAGE ALERT Relay: ✓ ON-AIR Relay: ✓ XLR Audio Output: ✓ SEE PROTECTED TAPES
Channel 1: PREAMBLE FINNNN Repeated two more times with 1 second pause Channel 2: idle	Channel 1 LED: ON while FSK transmitting. Channel 2 LED: OFF. Speaker: Squelched OFF after first packet decoded. LCD Display: Message scrolls until MSG WAITING plus mirror is pressed. Printer: No action MSG WAITING LED: Remains flashing until MSG WAITING push button is pressed. MESSAGE ALERT Relay: Deactivates after sending FOM ON-AIR Relay: Deactivates after sending FOM XLR Audio Output: Goes silent after sending EOM on first DCIA packet received.	Channel 1 LED: ✓ Channel 2 LED: ✓ Speaker: ✓ LCD Display: ✓ Printer: ✓ SEE TAPES MSG WAITING LED: ✓ MESSAGE ALERT Relay: ✓ ON-AIR Relay: ✓ XLR Audio Output: ✓

Note: 1 Local time is Eastern Standard 2. Local station is KAAA.FM.

TESTED BY: SA, N DATE: 01/24/95

CERTIFIED REPORT OF MEASUREMENT FOR TFT, INC.
FCC PART II TESTING
TFT MODEL EAS911D
EMERGENCY ALERT SYSTEM ENCODER/DECODER
FCC ID: BIOEAS911D

COMPLIANCE TEST NUMBER 3.i & 4.i

COMPLIANCE TEST RESULTS

Encoder

Decoder

ENCODER TRANSMIT LOG:

PRIMARY ENTRY POINT
S ISSUED AN EMERGENCY
TION NOTIFICATION FOR
E USA ON OCTOBER 30,
95 AT 4:16 PM
EFFECTIVE UNTIL 4:31 PM.
SSAGE TRANSMITTED ON
TOBER 30, 1995 AT 4:16
PM FROM WAAA/FM.

3. PROTOCOL TEXT:
ZCZC-PEP-EAN-026000-0261
11+0015-3032116-WAAA/FM

PRINTED ON MONDAY
OCTOBER 30, 1995 AT
16:16.

DECODER RECEIVE LOG:

A PRIMARY ENTRY POINT
HAS ISSUED AN EMERGENCY
ACTION NOTIFICATION FOR
THE USA ON OCTOBER 30,
1995 AT 4:16 PM
EFFECTIVE UNTIL 4:31 PM.
MESSAGE RECEIVED ON
OCTOBER 30, 1995 AT 4:16
PM FROM WAAA/FM.

CHANNEL 1 EAS PROTOCOL
TEXT:
ZCZC-PEP-EAN-026000-0261
11+0015-3032116-WAAA/FM

PRINTED ON MONDAY
OCTOBER 30, 1995 AT
16:16.

ENCODER TRANSMIT LOG:

A PRIMARY ENTRY POINT
HAS ISSUED AN EMERGENCY
ACTION NOTIFICATION FOR
THE USA ON OCTOBER 30,
1995 AT 4:16 PM
EFFECTIVE UNTIL 4:31 PM.
MESSAGE TRANSMITTED ON
OCTOBER 30, 1995 AT 4:16
PM FROM KAAA/AM.

EAS PROTOCOL TEXT:
ZCZC-PEP-EAN-026000-0261
11+0015-3032116-KAAA/AM

PRINTED ON MONDAY
OCTOBER 30, 1995 AT
16:16.

TESTED BY Sh, M ^{Li} DATE 10-30-95

3. Verification of decode of EAT (Emergency Action Termination) event from EAN originator.

STIMULUS	EXPECTED RESPONSE	OBSERVED RESPONSE
Channel 1: [PREAMBLE] ZCZC-EAN-EAT-026000-026111+0015-0101700-WAAA/FM - (repeated two more times with 1 second pauses) 8 second two tone Channel 2: (idle)	Channel 1 LED: ON while FSK transmitting. Channel 2 LED: OFF. Speaker: Open squelch to pass channel 1 after 2nd packet received and verified. LCD, Printer: THE EMERGENCY ACTION NOTIFICATION NETWORK HAS ISSUED AN EMERGENCY ACTION TERMINATION FOR THE USA ON JANUARY 10, 1995 AT 12:00 PM EFFECTIVE UNTIL 12:15 PM. MESSAGE RECEIVED ON JANUARY 10, 1995 AT 12:01 PM FROM WAAA/FM. CHANNEL 1 EAS PROTOCOL TEXT: ZCZC-EAN-EAT-026000-026111+0015-0101700-WAAA/FM - MSG WAITING LED: Flashing. MESSAGE ALERT Relay: Activated after 2nd packet received and verified. ON-AIR Relay: Activated after 2nd packet received and verified. XLR Audio Output: One second of silence after ON-AIR Relay activates, followed by: [PREAMBLE] ZCZC-EAN-EAT-026000-026111+0015-0101700-KAAA/AM - (repeated two more times with 1 second pauses) 8 second two tone. Followed by patch through of CH1 audio.	Channel 1 LED: ✓ Channel 2 LED: ✓ Speaker: ✓ LCD, Printer: ✓ <i>SEE TAPES</i> MSG WAITING LED: ✓ MESSAGE ALERT Relay: ✓ ON-AIR Relay: ✓ XLR Audio Output: ✓
Channel 1: [PREAMBLE]NNNN (repeated two more times with 1 second pauses) Channel 2: (idle)	Channel 1 LED: ON while FSK transmitting. Channel 2 LED: OFF. Speaker: Squelched OFF after first packet decoded. LCD Display: Message scrolls until MSG WAITING push button is pressed. Printer: No action. MSG WAITING LED: Remains flashing until MSG WAITING push button is pressed. MESSAGE ALERT Relay: Deactivates after sending EOM. ON-AIR Relay: Deactivates after sending EOM. XLR Audio Output: Goes silent after sending EOM on first EOM packet received.	Channel 1 LED: ✓ Channel 2 LED: ✓ Speaker: ✓ LCD Display: ✓ Printer: ✓ <i>SEE TAPES</i> MSG WAITING LED: ✓ MESSAGE ALERT Relay: ✓ ON-AIR Relay: ✓ XLR Audio Output: ✓

Note: 1. Local time is Eastern Standard 2. Local station is KAAA/AM.

TESTED BY: EHJ DATE: 10/30/95

CERTIFIED REPORT OF MEASUREMENT FOR TFT, INC.
FCC PART 11 TESTING
TFT MODEL EAS911D
EMERGENCY ALERT SYSTEM ENCODER/DECODER
FCC ID: BIOEAS911D

COMPLIANCE TEST NUMBER 3.1+4.i

COMPLIANCE TEST RESULTS

Encoder

Decoder

ENCODER TRANSMIT LOG:

THE EMERGENCY ACTION
NOTIFICATION NETWORK HAS
ISSUED AN EMERGENCY
ACTION TERMINATION FOR
THE USA ON OCTOBER 30,
1995 AT 4:22 PM
EFFECTIVE UNTIL 4:37 PM.
MESSAGE TRANSMITTED ON
OCTOBER 30, 1995 AT 4:22
PM FROM WAAA/FM.

EAS PROTOCOL TEXT:
ZCZC-EAN-EAT-026000-0261
11+0015-3032122-WAAA/FM

PRINTED ON MONDAY
OCTOBER 30, 1995 AT
16:22.

DECODER RECEIVE LOG:

THE EMERGENCY ACTION
NOTIFICATION NETWORK HAS
ISSUED AN EMERGENCY
ACTION TERMINATION FOR
THE USA ON OCTOBER 30,
1995 AT 4:22 PM
EFFECTIVE UNTIL 4:37 PM.
MESSAGE RECEIVED ON
OCTOBER 30, 1995 AT 4:22
PM FROM WAAA/FM.

CHANNEL 1 EAS PROTOCOL
TEXT:
ZCZC-EAN-EAT-026000-0261
11+0015-3032122-WAAA/FM

PRINTED ON MONDAY
OCTOBER 30, 1995 AT
16:22.

ENCODER TRANSMIT LOG:

THE EMERGENCY ACTION
NOTIFICATION NETWORK HAS
ISSUED AN EMERGENCY
ACTION TERMINATION FOR
THE USA ON OCTOBER 30,
1995 AT 4:22 PM
EFFECTIVE UNTIL 4:37 PM.
MESSAGE TRANSMITTED ON
OCTOBER 30, 1995 AT 4:22
PM FROM KAAA/AM.

EAS PROTOCOL TEXT:
ZCZC-EAN-EAT-026000-0261
11+0015-3032122-KAAA/AM

PRINTED ON MONDAY
OCTOBER 30, 1995 AT
16:22.

TESTED BY AT, N ^{ac} DATE 10-30-95

4. Verification of decode of EAT (Emergency Action Termination) event from PEP originator.

STIMULUS	EXPECTED RESPONSE	OBSERVED RESPONSE
Channel 1: [PREAMBLE] ZCZC-PEP-EAT-026000- 026111+0015-0101700- WAAA/FM - (repeated two more times with 1 second pauses) B second two tone Channel 2: (idle)	Channel 1 LED: ON while FSK transmitting. Channel 2 LED: OFF. Speaker: Open squelch to pass channel 1 after 2nd packet received and verified. LCD, Printer: A PRIMARY ENTRY POINT STATION HAS ISSUED A 1/2 EMERGENCY ACTION TERMINATION FOR THE USA ON JANUARY 10, 1995 AT 12:00 PM EFFECTIVE UNTIL 12:15 PM. MESSAGE RECEIVED ON JANUARY 10, 1995 AT 12:01 PM FROM WAAA/FM CHANNEL 1 EAS PROTOCOL TEXT: ZCZC PEP-EAT 026000-026111+0015-0101700 WAAA/FM - MSG WAITING LED: Flashing. MESSAGE ALERT Relay: Activated after 2nd packet received and verified. ON-AIR Relay: Activated after 2nd packet received and verified. XLR Audio Output: One second of silence after ON-AIR Relay activates, followed by: [PREAMBLE] ZCZC-PEP-EAT-026000-026111+0015-0101700-KAAA/AM (repeated two more times with 1 second pauses) B second two tone. Followed by patch through of CH1 audio.	Channel 1 LED: ✓ Channel 2 LED: ✓ Speaker: ✓ LCD, Printer: ✓ SEE TAPES MSG WAITING LED: ✓ MESSAGE ALERT Relay: ✓ ON-AIR Relay: ✓ XLR Audio Output: ✓
Channel 1: [PREAMBLE]NNNN (repeated two more times with 1 second pauses) Channel 2: (idle)	Channel 1 LED: ON while FSK transmitting. Channel 2 LED: OFF. Speaker: Squelched OFF after first packet decoded. LCD Display: Message scrolls until MSG WAITING push button is pressed. Printer: No action. MSG WAITING LED: Remains flashing until MSG WAITING push button is pressed. MESSAGE ALERT Relay: Deactivates after sending EOM. ON-AIR Relay: Deactivates after sending EOM. XLR Audio Output: Goes silent after sending EOM on first EOM packet received.	Channel 1 LED: ✓ Channel 2 LED: ✓ Speaker: ✓ LCD Display: ✓ Printer: ✓ SEE TAPES MSG WAITING LED: ✓ MESSAGE ALERT Relay: ✓ ON-AIR Relay: ✓ XLR Audio Output: ✓

Note: 1. Local time is Eastern Standard 2. Local station is KAAA/AM.

TESTED BY: 3471 DATE: 10/30/95

**CERTIFIED REPORT OF MEASUREMENT FOR TFT, INC.
FCC PART II TESTING
TFT MODEL EAS911D
EMERGENCY ALERT SYSTEM ENCODER/DECODER
FCC ID: BIOEAS911D**

COMPLIANCE TEST NUMBER 3.1 & 4.1

COMPLIANCE TEST RESULTS

Encoder

Decoder

ENCODER TRANSMIT LOG:

A PRIMARY ENTRY POINT
HAS ISSUED AN EMERGENCY
ACTION TERMINATION FOR
THE USA ON OCTOBER 30,
1995 AT 4:27 PM.
EFFECTIVE UNTIL 4:42 PM.
MESSAGE TRANSMITTED ON
OCTOBER 30, 1995 AT 4:27
PM FROM WAAA/FM.

EAS PROTOCOL TEXT:
ZCZC-PEP-EAT-026000-0261
11+0015-3032127-WAAA/FM

PRINTED ON MONDAY
OCTOBER 30, 1995 AT
16:27.

DECODER RECEIVE LOG:

A PRIMARY ENTRY POINT
HAS ISSUED AN EMERGENCY
ACTION TERMINATION FOR
THE USA ON OCTOBER 30,
1995 AT 4:27 PM.
EFFECTIVE UNTIL 4:42 PM.
MESSAGE RECEIVED ON
OCTOBER 30, 1995 AT 4:27
PM FROM WAAA/FM.

CHANNEL 1 EAS PROTOCOL
TEXT:
ZCZC-PEP-EAT-026000-0261
11+0015-3032127-WAAA/FM

PRINTED ON MONDAY
OCTOBER 30, 1995 AT
16:27.

ENCODER TRANSMIT LOG:

A PRIMARY ENTRY POINT
HAS ISSUED AN EMERGENCY
ACTION TERMINATION FOR
THE USA ON OCTOBER 30,
1995 AT 4:27 PM.
EFFECTIVE UNTIL 4:42 PM.
MESSAGE TRANSMITTED ON
OCTOBER 30, 1995 AT 4:27
PM FROM KAAA/AM.

EAS PROTOCOL TEXT:
ZCZC-PEP-EAT-026000-0261
11+0015-3032127-KAAA/AM

PRINTED ON MONDAY
OCTOBER 30, 1995 AT
16:27.

TESTED BY SH, VI

ac
DATE 10-30-95

9. Verification of decode of RMT (Required Monthly Test) event from EAS originator.

STIMULUS	EXPECTED RESPONSE	OBSERVED RESPONSE
Channel 1: (PREAMBLE) ZCZC-EAS-RMT-026000-026111 + 0015 0101700 WAAA/FM - (repeated two more times with 1 second pause) R second two tone Channel 2: (idle)	Channel 1 LED: ON while FSK transmitting. Channel 2 LED: OFF. Speaker: Open squelch to pass channel 1 after 2nd packet received and verified. LCD, Printer: A BROADCAST STATION OR CABLE SYSTEM HAS ISSUED A REQUIRED MONTHLY TEST FOR THE FOLLOWING COUNTRIES/AREAS: MIDLAND ON JANUARY 10, 1995 AT 12:00 PM EFFECTIVE UNTIL 12:15 PM. MESSAGE RECEIVED ON JANUARY 10, 1995 AT 12:01 PM FROM WAAA/FM. CHANNEL 1 EAS PROTOCOL TEXT: ZCZC-EAS-RMT-026000-026111 + 0015-0101700-WAAA/FM - MSG WAITING LED: Flashing. MESSAGE ALERT Relay: Activated after 2nd packet received and verified. ON-AIR Relay: No response. XLR Audio Output: No audio.	Channel 1 LED: ✓ Channel 2 LED: ✓ Speaker: ✓ LCD, Printer: ✓ MSG WAITING LED: ✓ MESSAGE ALERT Relay: ✓ ON-AIR Relay: ✓ XLR Audio Output: ✓ SEE TAPES
Channel 1: (PREAMBLE)NNNN (repeated two more times with 1 second pause) Channel 2: (idle)	Channel 1 LED: ON while FSK transmitting. Channel 2 LED: OFF. Speaker: Squelched OFF after first packet decoded. LCD Display: Message scrolls until MSG WAITING push button is pressed. Printer: No action. MSG WAITING LED: Remains flashing until MSG WAITING push button is pressed. MESSAGE ALERT Relay: Deactivates on first EDM packet received. ON-AIR Relay: No response XLR Audio Output: No audio.	Channel 1 LED: ✓ Channel 2 LED: ✓ Speaker: ✓ LCD Display: ✓ Printer: ✓ MSG WAITING LED: ✓ MESSAGE ALERT Relay: ✓ ON-AIR Relay: ✓ XLR Audio Output: ✓

Note: 1. Local time is Eastern Standard 2. Local station is KAAA/AM.

TESTED BY: 241 M

DATE: 10/30/95

CERTIFIED REPORT OF MEASUREMENT FOR TFT, INC.
FCC PART 11 TESTING
TFT MODEL EAS911D
EMERGENCY ALERT SYSTEM ENCODER/DECODER
FCC ID: BIOEAS911D

COMPLIANCE TEST NUMBER 3-1 & 4-1

COMPLIANCE TEST RESULTS

Encoder

ENCODER TRANSMIT LOG:

A BROADCAST STATION OR
CABLE SYSTEM HAS ISSUED
A REQUIRED MONTHLY TEST
FOR THE FOLLOWING
COUNTIES/AREAS: MIDLAND
ON OCTOBER 30, 1995 AT
4:33 PM EFFECTIVE UNTIL
4:48 PM. MESSAGE
TRANSMITTED ON OCTOBER
30, 1995 AT 4:33 PM FROM
WAAA/FM.

EAS PROTOCOL TEXT:
ZCZC-EAS-RMT-026000-0261
11+0015-3032133-WAAA/FM
-

PRINTED ON MONDAY
OCTOBER 30, 1995 AT
16:33.
.....

Decoder

DECODER RECEIVE LOG:

A BROADCAST STATION OR
CABLE SYSTEM HAS ISSUED
A REQUIRED MONTHLY TEST
FOR THE FOLLOWING
COUNTIES/AREAS: MIDLAND
ON OCTOBER 30, 1995 AT
4:33 PM EFFECTIVE UNTIL
4:48 PM. MESSAGE
RECEIVED ON OCTOBER 30,
1995 AT 4:33 PM FROM
WAAA/FM.

CHANNEL 1 EAS PROTOCOL
TEXT:
ZCZC-EAS-RMT-026000-0261
11+0015-3032133-WAAA/FM
-

PRINTED ON MONDAY
OCTOBER 30, 1995 AT
16:33.
.....

TESTED BY SH, V ^{al} DATE 10-30-95

6. Verification of decode of RMT (Required Monthly Test) event from CIV originator.

STIMULUS	EXPECTED RESPONSE	OBSERVED RESPONSE
Channel 1: [PREAMBLE] ZCZC CIV RMT-026000- 026111+0015-0101700. WAAA:HM - repeated two more times with 1 second pauses) Channel 2: (idle)	Channel 1 LED: ON while FSK transmitting. Channel 2 LED: OFF. Speaker: Open squelch to pass channel 1 after 2nd packet received and verified. LCD, Printer: A CIVIL AUTHORITY HAS ISSUED A REQUIRED MONTHLY TEST FOR THE FOLLOWING COUNTIES/AREAS: MIDLAND ON JANUARY 10, 1995 AT 12:00 PM EFFECTIVE UNTIL 12:15 PM. MESSAGE RECEIVED ON JANUARY 10, 1995 AT 12:01 PM FROM WAAA/FM, CHANNEL 1 EAS PROTOCOL TEXT: ZCZC-CIV-RMT 026000-026111+0015 0101700-WAAA/FM - MSG WAITING LED: Flashing. MESSAGE ALERT Relay: Activated after 2nd packet received and verified. ON-AIR Relay: No response. XLR Audio Output: No audio.	Channel 1 LED: ✓ Channel 2 LED: ✓ Speaker: ✓ LCD, Printer: ✓ MSG WAITING LED: ✓ MESSAGE ALERT Relay: ✓ ON-AIR Relay: ✓ XLR Audio Output: ✓ <i>SEE TAPES</i>
Channel 1: [PREAMBLE]NNNN repeated two more times with 1 second pauses) Channel 2: (idle)	Channel 1 LED: ON while FSK transmitting. Channel 2 LED: OFF. Speaker: Squelched OFF after first packet decoded. LCD Display: Message scrolls until MSG WAITING push button is pressed. Printer: No action. MSG WAITING LED: Remains flashing until MSG WAITING push button is pressed. MESSAGE ALERT Relay: Deactivates on first EDM packet received. ON-AIR Relay: No response. XLR Audio Output: No audio.	Channel 1 LED: ✓ Channel 2 LED: ✓ Speaker: ✓ LCD Display: ✓ Printer: ✓ MSG WAITING LED: ✓ MESSAGE ALERT Relay: ✓ ON-AIR Relay: ✓ XLR Audio Output: ✓

Note: 1. Local time is Eastern Standard 2. Local station is KAAA/AM.

TESTED BY: SAJ/V

DATE: 03/30/95

CERTIFIED REPORT OF MEASUREMENT FOR TFT, INC.
FCC PART II TESTING
TFT MODEL EAS911D
EMERGENCY ALERT SYSTEM ENCODER/DECODER
FCC ID: BIOEAS911D

COMPLIANCE TEST NUMBER 3.1 + 4.1

COMPLIANCE TEST RESULTS

Encoder

Decoder

ENCODER TRANSMIT LOG:

A CIVIL AUTHORITY HAS
ISSUED A REQUIRED
MONTHLY TEST FOR THE
FOLLOWING
COUNTIES/AREAS: MIDLAND
ON OCTOBER 30, 1995 AT
4:35 PM EFFECTIVE UNTIL
4:50 PM. MESSAGE
TRANSMITTED ON OCTOBER
30, 1995 AT 4:35 PM FROM
WAAA/FM.

EAS PROTOCOL TEXT:
ZCZC-CIV-RMT-026000-0261
11+0015-3032135-WAAA/FM

PRINTED ON MONDAY
OCTOBER 30, 1995 AT
16:35.

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DECODER RECEIVE LOG:

A CIVIL AUTHORITY HAS
ISSUED A REQUIRED
MONTHLY TEST FOR THE
FOLLOWING
COUNTIES/AREAS: MIDLAND
ON OCTOBER 30, 1995 AT
4:35 PM EFFECTIVE UNTIL
4:50 PM. MESSAGE
RECEIVED ON OCTOBER 30,
1995 AT 4:35 PM FROM
WAAA/FM.

CHANNEL 1 EAS PROTOCOL
TEXT:
ZCZC-CIV-RMT-026000-0261
11+0015-3032135-WAAA/FM

PRINTED ON MONDAY
OCTOBER 30, 1995 AT
16:35.

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TESTED BY EH, N

ac
DATE 10-30-95

7. Verification of decode of RWT (Required Weekly Test) event from EAS originator.

STIMULUS	EXPECTED RESPONSE	OBSERVED RESPONSE
Channel 1: [PREAMBLE: ZCZC-EAS-RWT 026000- 026111 + 0015-0101700- WAAA/AM - (repeated two more times with 1 second pauses) (no attention signal, audio, or text)] Channel 2: [idle]	Channel 1 LED: ON while FSK transmitting. Channel 2 LED: OFF. Speaker: Open squelch to pass channel 1 after 2nd packet received and verified. LCD, Printer: A BROADCAST STATION OR CABLE SYSTEM HAS ISSUED A REQUIRED WEEKLY TEST FOR THE FOLLOWING COUNTIES:AREAS: MIDLAND ON JANUARY 10, 1995 AT 12:00 PM EFFECTIVE UNTIL 12:15 PM. MESSAGE RECEIVED ON JANUARY 10, 1995 AT 12:01 PM FROM WAAA/FM. CHANNEL 1 EAS PROTOCOL TEXT: ZCZC-EAS-RWT 026000-026111 + 0015-0101700 WAAA/AM - MSG WAITING LED: Flashing. MESSAGE ALERT Relay: Activated after 2nd packet received and verified. ON-AIR Relay: No response. XLR Audio Output: No audio.	Channel 1 LED: ✓ Channel 2 LED: ✓ Speaker: ✓ LCD, Printer: ✓ MSG WAITING LED: ✓ MESSAGE ALERT Relay: ✓ ON-AIR Relay: ✓ XLR Audio Output: ✓ SEE TAPES
Channel 1: [PREAMBLE:NNNN (repeated two more times with 1 second pauses)] Channel 2: [idle]	Channel 1 LED: ON while FSK transmitting. Channel 2 LED: OFF. Speaker: Squelched OFF after first packet decoded. LCD Display: Message scrolls until MSG WAITING push button is pressed. Printer: No action. MSG WAITING LED: Remains flashing until MSG WAITING push button is pressed. MESSAGE ALERT Relay: Deactivates on first EOM packet received. ON-AIR Relay: No response. XLR Audio Output: No audio.	Channel 1 LED: ✓ Channel 2 LED: ✓ Speaker: ✓ LCD Display: ✓ Printer: ✓ MSG WAITING LED: ✓ MESSAGE ALERT Relay: ✓ ON-AIR Relay: ✓ XLR Audio Output: ✓

Note: 1. Local time is Eastern Standard 2. Local station is KAAA/AM.

TESTED BY: *SH-21*

DATE: 10/30/95

**CERTIFIED REPORT OF MEASUREMENT FOR TFT, INC.
FCC PART 11 TESTING
TFT MODEL EAS911D
EMERGENCY ALERT SYSTEM ENCODER/DECODER
FCC ID: BIOEAS911D**

COMPLIANCE TEST NUMBER 3.1 & 4.1

COMPLIANCE TEST RESULTS

Encoder

Decoder

ENCODER TRANSMIT LOG:

A BROADCAST STATION OR
CABLE SYSTEM HAS ISSUED
A REQUIRED WEEKLY TEST
FOR THE FOLLOWING
COUNTIES/AREAS: MIDLAND
ON OCTOBER 30, 1995 AT
4:41 PM EFFECTIVE UNTIL
4:56 PM. MESSAGE
TRANSMITTED ON OCTOBER
30, 1995 AT 4:41 PM FROM
WAAA/FM.

EAS PROTOCOL TEXT:
ZCZC-EAS-RNT-026000-0261
11+0015-3032141-WAAA/FM

PRINTED ON MONDAY
OCTOBER 30, 1995 AT
16:41.

DECODER RECEIVE LOG:

A BROADCAST STATION OR
CABLE SYSTEM HAS ISSUED
A REQUIRED WEEKLY TEST
FOR THE FOLLOWING
COUNTIES/AREAS: MIDLAND
ON OCTOBER 30, 1995 AT
4:41 PM EFFECTIVE UNTIL
4:56 PM. MESSAGE
RECEIVED ON OCTOBER 30,
1995 AT 4:41 PM FROM
WAAA/FM.

CHANNEL 1 EAS PROTOCOL
TEXT:
ZCZC-EAS-RNT-026000-0261
11+0015-3032141-WAAA/FM

PRINTED ON MONDAY
OCTOBER 30, 1995 AT
16:41.

TESTED BY *Jim M*

RC
DATE *10-30-95*

8. Verification of decode of RWT (Required Weekly Test) event from CIV originator.

STIMULUS	EXPECTED RESPONSE	OBSERVED RESPONSE
Channel 1: [PREAMBLE] ZCZC-CIV-RWT-026000-026111 + 0015-0101700- WAAA/FM - (repeated two more times with 1 second pauses) (no attention signal, audio, or text) Channel 2: (idle)	Channel 1 LED: ON while FSK transmitting. Channel 2 LED: OFF. Speaker: Open squelch to pass channel 1 after 2nd packet received and verified. LCD, Printer: A CIVIL AUTHORITY HAS ISSUED A REQUIRED WEEKLY TEST FOR THE FOLLOWING COUNTIES/AREAS: MIDLAND ON JANUARY 10, 1995 AT 12:00 PM EFFECTIVE UNTIL 12:15 PM. MESSAGE RECEIVED ON JANUARY 10, 1995 AT 12:01 PM FROM WAAA/FM. CHANNEL 1 EAS PROTOCOL TEXT: ZCZC-CIV-RWT-026000-026111 + 0015-0101700-WAAA/FM - MSG WAITING LED: Flashing. MESSAGE ALERT Relay: Activated after 2nd packet received and verified. ON-AIR Relay: No response. XLR Audio Output: No audio.	Channel 1 LED: ✓ Channel 2 LED: ✓ Speaker: ✓ LCD, Printer: ✓ MSG WAITING LED: ✓ MESSAGE ALERT Relay: ✓ ON-AIR Relay: ✓ XLR Audio Output: ✓ SECRETAPES
Channel 1: [PREAMBLE]NNNN (repeated two more times with 1 second pauses) Channel 2: (idle)	Channel 1 LED: ON while FSK transmitting. Channel 2 LED: OFF. Speaker: Squelched OFF after first packet decoded. LCD Display: Message scrolls until MSG WAITING push button is pressed. Printer: No action. MSG WAITING LED: Remains flashing until MSG WAITING push button is pressed. MESSAGE ALERT Relay: Deactivates on first EOM packet received. ON-AIR Relay: No response. XLR Audio Output: No audio.	Channel 1 LED: ✓ Channel 2 LED: ✓ Speaker: ✓ LCD Display: ✓ Printer: ✓ MSG WAITING LED: ✓ MESSAGE ALERT Relay: ✓ ON-AIR Relay: ✓ XLR Audio Output: ✓

Note: 1. Local time is Eastern Standard 2. Local station is KAAA/AM.

TESTED BY: SN, VN OK DATE: 10/30/95

CERTIFIED REPORT OF MEASUREMENT FOR TFT, INC.
FCC PART 11 TESTING
TFT MODEL EAS911D
EMERGENCY ALERT SYSTEM ENCODER/DECODER
FCC ID: BIOEAS911D

COMPLIANCE TEST NUMBER 3.1 + 4.1

COMPLIANCE TEST RESULTS

Encoder

Decoder

ENCODER TRANSMIT LOG:

A CIVIL AUTHORITY HAS
ISSUED A REQUIRED WEEKLY
TEST FOR THE FOLLOWING
COUNTIES/AREAS: MIDLAND
ON OCTOBER 30, 1995 AT
4:43 PM EFFECTIVE UNTIL
4:58 PM. MESSAGE
TRANSMITTED ON OCTOBER
30, 1995 AT 4:43 PM FROM
WAAA/FM.

EAS PROTOCOL TEXT:
ZCZC-CIU-RWT-026000-0261
11+0015-3032143-WAAA/FM
-

PRINTED ON MONDAY
OCTOBER 30, 1995 AT
16:43.

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DECODER RECEIVE LOG:

A CIVIL AUTHORITY HAS
ISSUED A REQUIRED WEEKLY
TEST FOR THE FOLLOWING
COUNTIES/AREAS: MIDLAND
ON OCTOBER 30, 1995 AT
4:43 PM EFFECTIVE UNTIL
4:58 PM. MESSAGE
RECEIVED ON OCTOBER 30,
1995 AT 4:43 PM FROM
WAAA/FM.

CHANNEL 1 EAS PROTOCOL
TEXT:
ZCZC-CIU-RWT-026000-0261
11+0015-3032143-WAAA/FM
-

PRINTED ON MONDAY
OCTOBER 30, 1995 AT
16:43.

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TESTED BY SA, VI ^{ae} DATE 10-30-95

9. Verification of decode of RMT (Required Monthly Test) event from EAS originator.

STIMULUS	EXPECTED RESPONSE	OBSERVED RESPONSE
Channel 1: (PREAMBLE) ZCZC-EAS-RMT-006000- 006101 + 0015-2751700- WAAA/FM - (repeated two more times with 1 second pauses) 3 second two tone Channel 2: (idle)	Channel 1 LED: ON while FSK transmitting. Channel 2 LED: OFF. Speaker: Open squelch to pass channel 1 after 2nd packet received and verified. LCD, Printer: A BROADCAST STATION OR CABLE SYSTEM HAS ISSUED A REQUIRED MONTHLY TEST FOR THE FOLLOWING COUNTIES/AREAS: SUTTER ON OCTOBER 2, 1995 AT 10:00 AM EFFECTIVE UNTIL 10:15 AM. MESSAGE RECEIVED ON OCTOBER 2, 1995 AT 10:01 AM FROM WAAA/FM. CHANNEL 1 EAS PROTOCOL TEXT: ZCZC-EAS-RMT-006000-006101 + 0015-2751700-WAAA/FM - MSG WAITING LED: Flashing. MESSAGE ALERT Relay: Activated after 2nd packet received and verified. ON-AIR Relay: No response. XLR Audio Output: No audio.	Channel 1 LED: ✓ Channel 2 LED: ✓ Speaker: ✓ LCD, Printer: ✓ SEE TAPES MSG WAITING LED: ✓ MESSAGE ALERT Relay: ✓ ON-AIR Relay: ✓ XLR Audio Output: ✓
Channel 1: (PREAMBLE)NNNN (repeated two more times with 1 second pauses) Channel 2: (idle)	Channel 1 LED: ON while FSK transmitting. Channel 2 LED: OFF. Speaker: Squelched OFF after first packet decoded. LCD Display: Message scrolls until MSG WAITING push button is pressed. Printer: No action. MSG WAITING LED: Remains flashing until MSG WAITING push button is pressed. MESSAGE ALERT Relay: Deactivates on first EOM packet received. ON-AIR Relay: No response. XLR Audio Output: No audio.	Channel 1 LED: ✓ Channel 2 LED: ✓ Speaker: ✓ LCD Display: ✓ Printer: ✓ MSG WAITING LED: ✓ MESSAGE ALERT Relay: ✓ ON-AIR Relay: ✓ XLR Audio Output: ✓

Note: 1. Local time is Pacific Daylight 2. Local station is KAAA/AM.

TESTED BY: 24/71 DATE: 10/30/95

CERTIFIED REPORT OF MEASUREMENT FOR TFT, INC.
FCC PART 11 TESTING
TFT MODEL EAS911D
EMERGENCY ALERT SYSTEM ENCODER/DECODER
FCC ID: BIOEAS911D

COMPLIANCE TEST NUMBER 3.1 & 4.1

COMPLIANCE TEST RESULTS

Encoder

Decoder

ENCODER TRANSMIT LOG:

A BROADCAST STATION OR
CABLE SYSTEM HAS ISSUED
A REQUIRED MONTHLY TEST
FOR THE FOLLOWING
COUNTIES/AREAS: SUTTER
ON OCTOBER 30, 1995 AT
4:47 PM EFFECTIVE UNTIL
5:02 PM. MESSAGE
TRANSMITTED ON OCTOBER
30, 1995 AT 4:47 PM FROM
WAAA/FM.

EAS PROTOCOL TEXT:
ZCZC-EAS-RMT-006000-0061
01+0015-3032147-WAAA/FM
-

PRINTED ON MONDAY
OCTOBER 30, 1995 AT
16:47.

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DECODER RECEIVE LOG:

A BROADCAST STATION OR
CABLE SYSTEM HAS ISSUED
A REQUIRED MONTHLY TEST
FOR THE FOLLOWING
COUNTIES/AREAS: SUTTER
ON OCTOBER 30, 1995 AT
4:47 PM EFFECTIVE UNTIL
5:02 PM. MESSAGE
RECEIVED ON OCTOBER 30,
1995 AT 4:47 PM FROM
WAAA/FM.

CHANNEL 1 EAS PROTOCOL
TEXT:
ZCZC-EAS-RMT-006000-0061
01+0015-3032147-WAAA/FM
-

PRINTED ON MONDAY
OCTOBER 30, 1995 AT
16:47.

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TESTED BY zh, m ^{al} DATE 10-30-95

10. Verification of decode of TOR (Tornado Warning) event from WXR originator.

STIMULUS	EXPECTED RESPONSE	OBSERVED RESPONSE
Channel 1: [PREAMBLE] CZCZ-WXR-TOR-039173-039051- 039069+0030-2051315- WAAA/FM - (repeated two more times with 1 second pauses) Channel 2: (idle)	Channel 1 LED: ON while FSK transmitting. Channel 2 LED: OFF. Speaker: Open squelch to pass channel 1 after 2nd packet received and verified. LCD, Printer: THE NATIONAL WEATHER SERVICE HAS ISSUED A TORNADO WARNING FOR THE FOLLOWING COUNTIES/AREAS: WOOD, FULTON, AND HENRY ON OCTOBER 2, 1995 AT 9:15 AM EFFECTIVE UNTIL 9:45 AM. MESSAGE RECEIVED ON OCTOBER 2, 1995 AT 9:16 AM FROM WAAA/FM. CHANNEL 1 EAS PROTOCOL TEXT: CZCZ-WXR-TOR-039173-039051-039069+0030-2051315-WAAA/FM - MSG WAITING LED: Flashing. MESSAGE ALERT Relay: Activated after 2nd packet received and verified. ON-AIR Relay: No response. XLR Audio Output: No audio.	Channel 1 LED: ☒ Channel 2 LED: ☒ Speaker: ☒ LCD, Printer: ☒ MSG WAITING LED: ☒ MESSAGE ALERT Relay: ☒ ON-AIR Relay: ☒ XLR Audio Output: ☒ <i>SEE TAPES</i>
Channel 1: [PREAMBLE]NNNN (repeated two more times with 1 second pauses) Channel 2: (idle)	Channel 1 LED: ON while FSK transmitting. Channel 2 LED: OFF. Speaker: Squelched OFF after first packet decoded. LCD Display: Message scrolls until MSG WAITING push button is pressed. Printer: No action. MSG WAITING LED: Remains flashing until MSG WAITING push button is pressed. MESSAGE ALERT Relay: Deactivates on first EOM packet received. ON-AIR Relay: No response. XLR Audio Output: No audio.	Channel 1 LED: ☒ Channel 2 LED: ☒ Speaker: ☒ LCD Display: ☒ Printer: ☒ MSG WAITING LED: ☒ MESSAGE ALERT Relay: ☒ ON-AIR Relay: ☒ XLR Audio Output: ☒

Note: 1. Local time is Eastern Daylight 2. Local station is KAAA/AM.

TESTED BY: SH, M DATE: 10/30/95