

CERTIFIED REPORT OF MEASUREMENT FOR TFT, INC.
FCC PART 11 TESTING
TFT MODEL EAS911D
EMERGENCY ALERT SYSTEM ENCODER/DECODER
FCC ID: B10EAS911D

COMPLIANCE TEST NUMBER 4.11

TEST DESCRIPTION DUPPLICATE MESSAGES NOT FORWARDED

DATE/TIME 10/31/95 11:45

PERSON(S) PERFORMING TEST ERIC HILF & TONY TAM

TEST SITE TFT INC SANTA CLARA CA

TEST EQUIPMENT

TEST METHODOLOGY SEE DATA FOR 4.4, ESPECIALLY TEST
METHODOLOGY AS DESCRIBED IN 4.4.3

EH, TT

ce

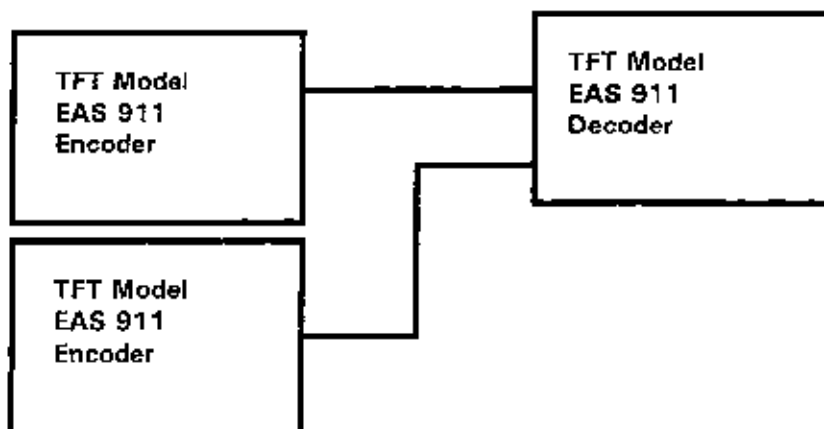
4.12.1 Test Objective

The objective of this test is to verify that EAN event override:

§11.33(a)(11)

A header code with the EAN Event code specified in §11.31(c) of this part that is received through either of the two audio inputs must override all other EAS messages.

4.12.2 Test Block Diagram



4.12.3 Test Methodology

The test message ZCZC-EAN-EAN-026000-026111+0015-0101700-WAAA/FM - is sent on channel 1 three seconds after a non-EAN message is sent on channel 2. It is confirmed that the channel 2 message is pre-empted and the EAN overrides and automatically engages forwarding. The channel 2 message is buffered and printed after the EAN has terminated with an EOM.

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 4.12

COMPLIANCE TEST RESULTS

ENCODER TRANSMIT LOG:

THE EMERGENCY ACTION
NOTIFICATION NETWORK HAS
ISSUED AN EMERGENCY
ACTION NOTIFICATION FOR
THE USA ON OCTOBER 31,
1995 AT 11:53 AM
EFFECTIVE UNTIL 12:00
PM. MESSAGE TRANSMITTED
ON OCTOBER 31, 1995 AT
11:53 AM FROM WAAA(FM).

EAS PROTOCOL TEXT:
ZCZC-EAN-EAN-026000-0261
11+0015-3041653-WAAA(FM)
-

PRINTED ON TUESDAY
OCTOBER 31, 1995 AT
11:53.

ENCODER TRANSMIT LOG:

THE NATIONAL WEATHER
SERVICE HAS ISSUED A
TORNADO WATCH FOR THE
FOLLOWING
COUNTIES/AREAS:
BALTIMORE ON OCTOBER 31,
1995 AT 11:53 AM
EFFECTIVE UNTIL 12:00
PM. MESSAGE TRANSMITTED
ON OCTOBER 31, 1995 AT
11:53 AM FROM WBBB/FM.

EAS PROTOCOL TEXT:
ZCZC-WXR-TDA-024005+0015
-3041653-WBBB/FM -

PRINTED ON TUESDAY
OCTOBER 31, 1995 AT
11:53.

DECODER RECEIVE LOG:

THE EMERGENCY ACTION
NOTIFICATION NETWORK HAS
ISSUED AN EMERGENCY
ACTION NOTIFICATION FOR
THE USA ON OCTOBER 31,
1995 AT 11:53 AM
EFFECTIVE UNTIL 12:00
PM. MESSAGE RECEIVED ON
OCTOBER 31, 1995 AT
11:53 AM FROM WAAA(FM).

CHANNEL 1 EAS PROTOCOL
TEXT:
ZCZC-EAN-EAN-026000-0261
11+0015-3041653-WAAA(FM)
-

PRINTED ON TUESDAY
OCTOBER 31, 1995 AT
11:54.

ENCODER TRANSMIT LOG:

THE EMERGENCY ACTION
NOTIFICATION NETWORK HAS
ISSUED AN EMERGENCY
ACTION NOTIFICATION FOR
THE USA ON OCTOBER 31,
1995 AT 11:53 AM
EFFECTIVE UNTIL 12:00
PM. MESSAGE TRANSMITTED
ON OCTOBER 31, 1995 AT
11:54 AM FROM KAAA/AM.

EAS PROTOCOL TEXT:
ZCZC-EAN-EAN-026000-0261
11+0015-3041653-KAAA/AM
-

PRINTED ON TUESDAY
OCTOBER 31, 1995 AT
11:54.

DECODER RECEIVE LOG:

THE NATIONAL WEATHER
SERVICE HAS ISSUED A
TORNADO WATCH FOR THE
FOLLOWING
COUNTIES/AREAS:
BALTIMORE ON OCTOBER 31,
1995 AT 11:53 AM
EFFECTIVE UNTIL 12:00
PM. MESSAGE RECEIVED ON
OCTOBER 31, 1995 AT
11:53 AM FROM WBBB/FM.

CHANNEL 2 EAS PROTOCOL
TEXT:
ZCZC-WXR-TDA-024005+0015
-3041653-WBBB/FM -

PRINTED ON TUESDAY
OCTOBER 31, 1995 AT
11:53.

TESTED BY Shal DATE 10/31/95

5.1 Encoder Operating Temperature and Humidity Verification

5.1.1 Test Objective

The objective of this test is to verify that both the encoder and decoder meet operating temperature and humidity requirements:

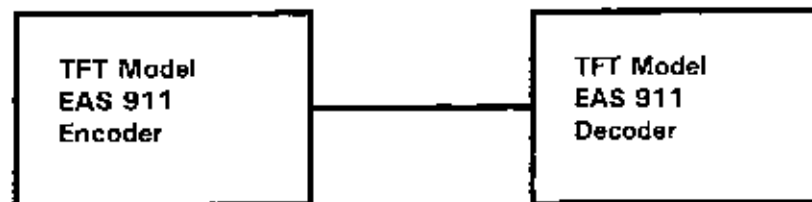
§11.32(b)

Operating Temperature and Humidity. Encoders shall have the ability to operate with the above specifications within an ambient temperature range of 0 to +50 degrees C and a range of relative humidity of up to 95%.

§11.33(b)

Decoders shall be capable of operation within the tolerances specified in this section as well as those in §§ 11.32(b), (c), and (d).

5.1.2 Test Block Diagram



5.1.3 Test Methodology

The test message ZCZC-EAN-EAN-026000-026111+0015-0101700-WAAA/TM - is sent through from the encoder to decoder through audio channel 1. Successful decode and encode is verified at 0 and 50 degrees C. Each test temperature is stabilized for 1 hour prior to running message transfer. Humidity is then increased to 95% at 50 degree C, and successful decode and encode is again verified.

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 5.1

COMPLIANCE TEST RESULTS DECODE @ 0°C

ENCODER TRANSMIT LOG:

THE EMERGENCY ACTION
NOTIFICATION NETWORK HAS
ISSUED AN EMERGENCY
ACTION NOTIFICATION FOR
THE USA ON NOVEMBER 2,
1995 AT 2:33 PM
EFFECTIVE UNTIL 2:48 PM.
MESSAGE TRANSMITTED ON
NOVEMBER 2, 1995 AT 2:33
PM FROM KAAA/AM.

EAS PROTOCOL TEXT:
ZCZC-EAN-EAN-026000-0261
11+0015-3061933-KAAA/AM
-

PRINTED ON THURSDAY
NOVEMBER 02, 1995 AT
14:33:
.....

DECODER RECEIVE LOG:

THE EMERGENCY ACTION
NOTIFICATION NETWORK HAS
ISSUED AN EMERGENCY
ACTION NOTIFICATION FOR
THE USA ON NOVEMBER 2,
1995 AT 2:33 PM
EFFECTIVE UNTIL 2:48 PM.
MESSAGE RECEIVED ON
NOVEMBER 2, 1995 AT 2:33
PM FROM KAAA/AM.

CHANNEL 1 EAS PROTOCOL
TEXT:
ZCZC-EAN-EAN-026000-0261
11+0015-3061933-KAAA/AM
-

PRINTED ON THURSDAY
NOVEMBER 02, 1995 AT
14:33.

ENCODER TRANSMIT LOG:

THE EMERGENCY ACTION
NOTIFICATION NETWORK HAS
ISSUED AN EMERGENCY
ACTION NOTIFICATION FOR
THE USA ON NOVEMBER 2,
1995 AT 2:33 PM
EFFECTIVE UNTIL 2:48 PM.
MESSAGE TRANSMITTED ON
NOVEMBER 2, 1995 AT 2:33
PM FROM WAAA/FM.

EAS PROTOCOL TEXT:
ZCZC-EAN-EAN-026000-0261
11+0015-3061933-WAAA/FM
-

PRINTED ON THURSDAY
NOVEMBER 02, 1995 AT
14:33.

TESTED BY EH DATE 11/2/95
ac

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 5.1

COMPLIANCE TEST RESULTS ENCODE @ 0°C

ENCODER TRANSMIT LOG:

THE EMERGENCY ACTION
NOTIFICATION NETWORK HAS
ISSUED AN EMERGENCY
ACTION NOTIFICATION FOR
THE USA ON NOVEMBER 2,
1995 AT 2:45 PM
EFFECTIVE UNTIL 3:00 PM.
MESSAGE TRANSMITTED ON
NOVEMBER 2, 1995 AT 2:45
PM FROM WAAA/FM.

EAS PROTOCOL TEXT:
ZCZC-EAN-EAN-026000-0261
11+0015-3061945-WAAA/FM
-

PRINTED ON THURSDAY
NOVEMBER 02, 1995 AT
14:45.

.....

DECODER RECEIVE LOG:

THE EMERGENCY ACTION
NOTIFICATION NETWORK HAS
ISSUED AN EMERGENCY
ACTION NOTIFICATION FOR
THE USA ON NOVEMBER 2,
1995 AT 2:45 PM
EFFECTIVE UNTIL 3:00 PM.
MESSAGE RECEIVED ON
NOVEMBER 2, 1995 AT 2:45
PM FROM WAAA/FM.

CHANNEL 1 EAS PROTOCOL
TEXT:
ZCZC-EAN-EAN-026000-0261
11+0015-3061945-WAAA/FM
-

PRINTED ON THURSDAY
NOVEMBER 02, 1995 AT
14:45.

ENCODER TRANSMIT LOG:

THE EMERGENCY ACTION
NOTIFICATION NETWORK HAS
ISSUED AN EMERGENCY
ACTION NOTIFICATION FOR
THE USA ON NOVEMBER 2,
1995 AT 2:45 PM
EFFECTIVE UNTIL 3:00 PM.
MESSAGE TRANSMITTED ON
NOVEMBER 2, 1995 AT 2:45
PM FROM KAAA/AM.

EAS PROTOCOL TEXT:
ZCZC-EAN-EAN-026000-0261
11+0015-3061945-KAAA/AM
-

PRINTED ON THURSDAY
NOVEMBER 02, 1995 AT
14:45.

TESTED BY EH DATE 11/2/95

al

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 5.1

ENCODE @ 50°C

COMPLIANCE TEST RESULTS

DECODE @ 50°C

DECODER RECEIVE LOG:

THE NATIONAL WEATHER
SERVICE HAS ISSUED A
TORNADO WARNING FOR THE
FOLLOWING
COUNTIES/AREAS:
BALTIMORE ON OCTOBER 31,
1995 AT 5:07 PM
EFFECTIVE UNTIL 5:22 PM.
MESSAGE RECEIVED ON
OCTOBER 31, 1995 AT 5:07
PM FROM WAAA(FM).

CHANNEL 1 EAS PROTOCOL
TEXT:
ZCZC-WXR-TOR-024005+0015
-3042207-WAAA(FM)-

PRINTED ON TUESDAY
OCTOBER 31, 1995 AT
17:07.

ENCODER TRANSMIT LOG:

THE NATIONAL WEATHER
SERVICE HAS ISSUED A
TORNADO WARNING FOR THE
FOLLOWING
COUNTIES/AREAS:
BALTIMORE ON OCTOBER 31,
1995 AT 5:07 PM
EFFECTIVE UNTIL 5:22 PM.
MESSAGE TRANSMITTED ON
OCTOBER 31, 1995 AT 5:07
PM FROM WAAA(FM).

EAS PROTOCOL TEXT:
ZCZC-WXR-TOR-024005+0015
-3042207-WAAA(FM)-

PRINTED ON TUESDAY
OCTOBER 31, 1995 AT
17:07.

ENCODER TRANSMIT LOG:

THE EMERGENCY ACTION
NOTIFICATION NETWORK HAS
ISSUED AN EMERGENCY
ACTION NOTIFICATION FOR
THE USA ON OCTOBER 31,
1995 AT 5:13 PM
EFFECTIVE UNTIL 5:28 PM.
MESSAGE TRANSMITTED ON
OCTOBER 31, 1995 AT 5:13
PM FROM KAAA/AM.

EAS PROTOCOL TEXT:
ZCZC-EAN-EAN-026000-0261
11+0015-3042213-KAAA/AM
-

PRINTED ON TUESDAY
OCTOBER 31, 1995 AT
17:13.

DECODER RECEIVE LOG:

THE EMERGENCY ACTION
NOTIFICATION NETWORK HAS
ISSUED AN EMERGENCY
ACTION NOTIFICATION FOR
THE USA ON OCTOBER 31,
1995 AT 5:13 PM
EFFECTIVE UNTIL 5:28 PM.
MESSAGE RECEIVED ON
OCTOBER 31, 1995 AT 5:13
PM FROM KAAA/AM.

CHANNEL 1 EAS PROTOCOL
TEXT:
ZCZC-EAN-EAN-026000-0261
11+0015-3042213-KAAA/AM
-

PRINTED ON TUESDAY
OCTOBER 31, 1995 AT
17:13.

ENCODER TRANSMIT LOG:

THE EMERGENCY ACTION
NOTIFICATION NETWORK HAS
ISSUED AN EMERGENCY
ACTION NOTIFICATION FOR
THE USA ON OCTOBER 31,
1995 AT 5:13 PM
EFFECTIVE UNTIL 5:28 PM.
MESSAGE TRANSMITTED ON
OCTOBER 31, 1995 AT 5:13
PM FROM WAAA(FM).

EAS PROTOCOL TEXT:
ZCZC-EAN-EAN-026000-0261
11+0015-3042213-WAAA(FM)
-

PRINTED ON TUESDAY
OCTOBER 31, 1995 AT
17:13.

TESTED BY SH DATE 10/31/95

ac

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 5.i

COMPLIANCE TEST RESULTS

ENCODE @50°C, 95% RH

ENCODER TRANSMIT LOG:

THE EMERGENCY ACTION
NOTIFICATION NETWORK HAS
ISSUED AN EMERGENCY
ACTION NOTIFICATION FOR
THE USA ON NOVEMBER 7,
1995 AT 5:46 PM
EFFECTIVE UNTIL 6:01 PM.
MESSAGE TRANSMITTED ON
NOVEMBER 7, 1995 AT 5:46
PM FROM WAAA/FM.

EAS PROTOCOL TEXT:
ZCZC-EAN-EAN-026000-0261
11+0015-3112246-WAAA/FM
-

PRINTED ON TUESDAY
NOVEMBER 07, 1995 AT
17:46.

DECODER RECEIVE LOG:

THE EMERGENCY ACTION
NOTIFICATION NETWORK HAS
ISSUED AN EMERGENCY
ACTION NOTIFICATION FOR
THE USA ON NOVEMBER 7,
1995 AT 5:46 PM
EFFECTIVE UNTIL 6:01 PM.
MESSAGE RECEIVED ON
NOVEMBER 7, 1995 AT 5:46
PM FROM WAAA/FM.

CHANNEL 1 EAS PROTOCOL
TEXT:
ZCZC-EAN-EAN-026000-0261
11+0015-3112246-WAAA/FM
-

PRINTED ON TUESDAY
NOVEMBER 07, 1995 AT
17:46.

ENCODER TRANSMIT LOG:

THE EMERGENCY ACTION
NOTIFICATION NETWORK HAS
ISSUED AN EMERGENCY
ACTION NOTIFICATION FOR
THE USA ON NOVEMBER 7,
1995 AT 5:46 PM
EFFECTIVE UNTIL 6:01 PM.
MESSAGE TRANSMITTED ON
NOVEMBER 7, 1995 AT 5:46
PM FROM KAAA/AM.

EAS PROTOCOL TEXT:
ZCZC-EAN-EAN-026000-0261
11+0015-3112246-KAAA/AM
-

PRINTED ON TUESDAY
NOVEMBER 07, 1995 AT
17:46.

TESTED BY 36, 21 DATE 11/7/95

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 5.i

DECODE @ 50°C, 95% RH

COMPLIANCE TEST RESULTS

ENCODER TRANSMIT LOG:

THE EMERGENCY ACTION
NOTIFICATION NETWORK HAS
ISSUED AN EMERGENCY
ACTION NOTIFICATION FOR
THE USA ON NOVEMBER 7,
1995 AT 4:48 PM
EFFECTIVE UNTIL 5:03 PM.
MESSAGE TRANSMITTED ON
NOVEMBER 7, 1995 AT 4:48
PM FROM KAAA/AM.

EAS PROTOCOL TEXT:
ZCZC-EAN-EAN-026000-0261
11+0015-3112148-KAAA/AM

PRINTED ON TUESDAY
NOVEMBER 07, 1995 AT
16:48.

DECODER RECEIVE LOG:

THE EMERGENCY ACTION
NOTIFICATION NETWORK HAS
ISSUED AN EMERGENCY
ACTION NOTIFICATION FOR
THE USA ON NOVEMBER 7,
1995 AT 4:48 PM
EFFECTIVE UNTIL 5:03 PM.
MESSAGE RECEIVED ON
NOVEMBER 7, 1995 AT 4:48
PM FROM KAAA/AM.

CHANNEL 1 EAS PROTOCOL
TEXT:
ZCZC-EAN-EAN-026000-0261
11+0015-3112148-KAAA/AM

PRINTED ON TUESDAY
NOVEMBER 07, 1995 AT
16:48.

ENCODER TRANSMIT LOG:

THE EMERGENCY ACTION
NOTIFICATION NETWORK HAS
ISSUED AN EMERGENCY
ACTION NOTIFICATION FOR
THE USA ON NOVEMBER 7,
1995 AT 4:48 PM
EFFECTIVE UNTIL 5:03 PM.
MESSAGE TRANSMITTED ON
NOVEMBER 7, 1995 AT 4:48
PM FROM WAAA/FM.

EAS PROTOCOL TEXT:
ZCZC-EAN-EAN-026000-0261
11+0015-3112148-WAAA/FM

PRINTED ON TUESDAY
NOVEMBER 07, 1995 AT
16:48.

TESTED BY 26 DATE 11/7/95