



**United States of America**  
**FEDERAL COMMUNICATIONS COMMISSION**  
**AM BROADCAST STATION LICENSE**

Authorizing Official:

Official Mailing Address:

ALPHA 3E LICENSEE LLC  
 1211 SW 5TH AVENUE  
 SUITE 750  
 PORTLAND OR 97204

Son Nguyen  
 Supervisory Engineer  
 Audio Division  
 Media Bureau

Facility Id: 35891

Call Sign: KWMT

License File Number: BZ-20060908ADB

Grant Date: October 06, 2008

This license expires 3:00 a.m.  
 local time, February 01, 2013.

Subject to the provisions of the Communications Act of 1934, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this license, the licensee is hereby authorized to use and operate the radio transmitting apparatus herein described.

This license is issued on the licensee's representation that the statements contained in licensee's application are true and that the undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term of this license, render such broadcasting service as will serve the public interest, convenience, or necessity to the full extent of the privileges herein conferred.

This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequency designated in the license beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This license is subject to the right of use or control by the Government of the United States conferred by Section 606 of the Communications Act of 1934.

Hours of Operation: Daytime with Secondary nighttime

Average hours of sunrise and sunset:  
 Local Standard Time (Non-Advanced)

Jan.	7:45 AM	5:15 PM	Jul.	4:45 AM	8:00 PM
Feb.	7:15 AM	5:45 PM	Aug.	5:15 AM	7:15 PM
Mar.	6:30 AM	6:15 PM	Sep.	6:00 AM	6:30 PM
Apr.	5:30 AM	7:00 PM	Oct.	6:30 AM	5:30 PM
May	5:00 AM	7:30 PM	Nov.	7:00 AM	5:00 PM
Jun.	4:45 AM	8:00 PM	Dec.	7:45 AM	4:45 PM

Callsign: KWMT

License No.: BZ-20060908ADB

Name of Licensee: ALPHA 3E LICENSEE LLC

Station Location: FORT DODGE, IA

Frequency (kHz): 540

Station Class: D

Antenna Coordinates:

Day

Latitude: N 42 Deg 29 Min 45 Sec

Longitude: W 94 Deg 12 Min 33 Sec

Night

Latitude: N 42 Deg 29 Min 45 Sec

Longitude: W 94 Deg 12 Min 33 Sec

Transmitter(s): Type Accepted. See Sections 73.1660, 73.1665 and 73.1670 of the Commission's Rules.

Nominal Power (kW): Day: 5.0 Night: 0.17

Antenna Input Power (kW): Day: 5.4 Night: 0.184

Antenna Mode: Day: DA Night: DA

(DA=Directional Antenna, ND=Non-directional Antenna; CH=Critical Hours)

Current (amperes): Day: 10.3 Night: 1.9

Resistance (ohms): Day: 51 Night: 51

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1018119	
2	1018120	

Night:

Tower No.	ASRN	Overall Height (m)
1	1018119	
2	1018120	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 706.5 Night: 130.95

Standard RMS (mV/m/km):

Augmented RMS (mV/m/km): Day: 742.96 Night: 137.8

Q Factor: Day: 22.36 Night: 10

Theoretical Parameters:

Day Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.9000	-108.000	0.0000	0.000	0	124.9
2	1.0000	0.000	80.0000	2.000	0	TL/S

\* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Top-Loaded/Sectionalized Tower Parameters: (See 47 CFR 73.160)

Tower No.	A	B	C	D
2	63.2	19.80	.00	.00

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
1	27.0	30.0	96.56
2	53.0	52.0	241.40
3	310.5	51.0	236.57
4	336.0	30.0	96.56
5	351.0	22.0	93.34

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.9000	-108.000	0.0000	0.000	0	124.9
2	1.0000	0.000	80.0000	2.000	0	TL/S

\* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Top-Loaded/Sectionalized Tower Parameters: (See 47 CFR 73.160)

Tower No.	A	B	C	D
2	63.2	19.80	.00	.00

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
1	27.0	30.0	18.60
2	53.0	52.0	46.50
3	310.5	51.0	45.60
4	336.0	30.0	18.60
5	351.0	22.0	18.00

Day Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	0	1
2	-100	0.345

Night Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	0	1
2	-100	0.345

Antenna Monitor: POTOMAC INSTRUMENTS AM-19D

Sampling System Approved Under Section 73.68 of the Rules.

Monitoring Points:

Day Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
2	2.77	38
27	3.22	38
336	2.41	22

## Special operating conditions or restrictions:

## 1 DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

No. and Type of Elements: Two, guyed, series excited, steel radiators of uniform cross section. North tower is top loaded to an electrical height of approximately 83° with three upper guy wires, 100 ft in length, electrically connected to the top. An FM antenna is side mounted near top of the south tower.

Ground System consists of 120 equally spaced, buried, copper radials 456 feet in length except at point of intersection where they are bonded to a copper strap. Plus a 48' x 48' copper ground screen buried about the base of each tower and bonded to the radials.

## DESCRIPTION OF AND FIELD INTENSITY MEASURED AT MONITORING POINTS:

## Daytime:

Direction of 2? True North: From transmitter building, proceed north on Hwy 169 1.7 miles to intersection of Highway 169 and Highway 7. Turn east at intersection onto 3rd Ave. N. W. Proceed east 0.85 miles to junction of 5th St. N.W. Turn north onto 5th St. N.W. Proceed 0.4 mile to Exit Driveway of Fort Dodge Laboratories. Monitoring point is 100' to the north.

Direction of 27? True North: From transmitter building, proceed north on Highway 169 0.15 miles to Highway 7 eastbound exit. At turn to east, proceed approximately 0.8 miles to east end of Karl King Bridge. Continue east on 2nd Ave. South. At 0.5 miles, turn north on North 9th St. Proceed north 0.7 miles to Williams Drive. Continue north on Williams Drive 0.6 miles to 15th Ave. North. Turn west (left) on 15th Ave. North and proceed 0.2 miles to north 9th St. Proceed 100' south to driveway of 1512 North 9th St. Monitor point is on west side of street at driveway.

Direction of 336? True North: From transmitter building, proceed north on Highway 169 1.7 miles to intersection of Highway 169 and Highway 7. Turn east at intersection onto 3rd Ave. N.W. Proceed east 0.2 miles to junction of frontage road. Turn north onto Frontage road. Proceed 0.1 miles west to 30 feet east of mailboxes. Monitoring point is on south side of frontage road at edge of pavement opposite space between two buildings south of 3rd Ave. N.W and opposite east end of trailers on the north.

\*\*\* END OF AUTHORIZATION \*\*\*