

United States of America

FEDERAL COMMUNICATIONS COMMISSION AM BROADCAST STATION CONSTRUCTION PERMIT

Authorizing Official:

Official Mailing Address:

NRG LICENSE SUB, LLC
2875 MT. VERNON ROAD SE
CEDAR RAPIDS IA 52403

Facility Id: 35950

Call Sign: KXEL

Permit File Number: BP-20030714AFT

Son Nguyen

Supervisory Engineer Audio Division

Media Bureau

Grant Date: October 08, 2003

This permit expires 3:00 a.m. local time, 36 months after the grant date specified above.

This authorization re-issued August 26, 2004, to reflect correction of directional antenna parameters.

Subject to the provisions of the Communications Act of 1934, as amended, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this permit, the permittee is hereby authorized to construct the radio transmitting apparatus herein described. Installation and adjustment of equipment not specifically set forth herein shall be in accordance with representations contained in the permittee's application for construction permit except for such modifications as are presently permitted, without application, by the Commission's Rules.

Commission rules which became effective on February 16, 1999, have a bearing on this construction permit. See Report & Order, Streamlining of Mass Media Applications, MM Docket No. 98-43, 13 FCC RCD 23056, Para. 77-90 (November 25, 1998); 63 Fed. Reg. 70039 (December 18, 1998). Pursuant to these rules, this construction permit will be subject to automatic forfeiture unless construction is complete and an application for license to cover is filed prior to expiration. See Section 73.3598.

Equipment and program tests shall be conducted only pursuant to Sections 73.1610 and 73.1620 of the Commission's Rules.

Hours of Operation: Unlimited

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

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

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Name of Permittee: NRG LICENSE SUB, LLC

Station Location: WATERLOO, IA

Frequency (kHz): 1540

Station Class: A

Antenna Coordinates:

Day

Latitude: N 42 Deg 10 Min 47 Sec Longitude: W 92 Deg 18 Min 38 Sec

Night

Latitude: N 42 Deg 10 Min 48 Sec Longitude: W 92 Deg 18 Min 38 Sec

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

Nominal Power (kW): Day: 50.0 Night: 50.0

Antenna Mode: Day: ND Night: DA

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

Antenna Registration Number(s):

Day:

Tower No. ASRN Overall Height (m)

1 1045075

Night:

Tower No. ASRN Overall Height (m)

1 1045075
 2 1045074

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DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Night: 2735.88

Standard RMS (mV/m/km):

Augmented RMS (mV/m/km): Night:3060.44

Q Factor: Night:

Theoretical Parameters:

Night Directional Antenna:

	Tower Ref Switch *	Orientation (Deq.)	1 3		Field Ratio	Tower No.
	0	. , ,	`	76.000	1.1000	1
TL/S	0	5.500	125.0000	0.000	1.0000	2

* 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	В	С	D
1	155.0	35.00	.00	.00
2	155.0	35.00	.00	.00

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
1	0.0	84.0	4023.36
2	90.0	65.0	3419.86
3	122.5	23.0	1931.21
4	134.0	18.0	981.70
5	143.0	18.0	514.99
6	192.0	34.0	885.14
7	212.0	18.0	370.15
8	245.0	48.0	1577.16
9	270.0	50.0	3540.56
10	318.0	84.0	4377.42

Non-Directional Antenna: Day Radiator Height: 83.9 meters;

Top-Loaded/Sectionalized Tower Parameters: (See 47 CFR 73

Tower No. A B
1 155.0 35.00

Theoretical Efficiency: 354.06 mV/m/kw at 1km

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Special operating conditions or restrictions:

- The permittee/licensee must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC quidelines.
- 2 Ground System:

Ground system consists of 120 buried radials 106.7 meters long and 240 buried radials 7.7 meters long about each tower.

*** END OF AUTHORIZATION ***