



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

Authorizing Official:

Official Mailing Address:

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JACKSON TELECASTERS, INC.  
 C/O RUSSELL SCHWARTZ  
 ONE TELEVISION PLACE  
 CHARLOTTE NC 28205

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Son Nguyen  
 Supervisory Engineer  
 Audio Division  
 Media Bureau

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Facility Id: 57845

Call Sign: WDEF

License File Number: BML-20030716AEA

Grant Date: January 06, 2004

This license expires 3:00 a.m.  
 local time, August 01, 2004.

This license modifies BZ-19971030KA to correct site coordinates.

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: Unlimited

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

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

Callsign: WDEF

License No.: BML-20030716AEA

Name of Licensee: JACKSON TELECASTERS, INC.

Station Location: CHATTANOOGA, TN

Frequency (kHz): 1370

Station Class: B

Antenna Coordinates:

Day

Latitude: N 35 Deg 02 Min 26 Sec

Longitude: W 85 Deg 20 Min 22 Sec

Night

Latitude: N 35 Deg 02 Min 26 Sec

Longitude: W 85 Deg 20 Min 22 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: 5.0

Antenna Input Power (kW): Day: 5.0 Night: 5.4

Antenna Mode: Day: ND Night: DA

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

Current (amperes): Day: 7.04 Night: 10.4

Resistance (ohms): Day: 100.9 Night: 50

Non-Directional Antenna: Day

Radiator Height: 61 meters; 100.3 deg

Theoretical Efficiency: 312.21 mV/m/kw at 1km

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1051866	

Night:

Tower No.	ASRN	Overall Height (m)
1	1051864	
2	1051865	
3	1051866	
4	1051867	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Night: 638.91  
 Standard RMS (mV/m/km):  
 Augmented RMS (mV/m/km): Night: 733.36  
 Q Factor: Night:

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	1.0000	0.000	0.0000	0.000	0	100.3
2	2.5600	-155.000	90.0000	118.000	0	100.3
3	2.5600	49.200	180.0000	118.000	0	100.3
4	1.0000	-105.800	270.0000	118.000	0	100.3

\* Tower Reference Switch

- 0 = Spacing and orientation from reference tower
- 1 = Spacing and orientation from previous tower

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
1	9.0	12.0	48.28
2	15.0	12.0	54.72
3	24.0	18.0	112.65
4	37.0	24.0	96.56
5	49.0	24.0	185.07
6	88.0	60.0	1289.15
7	118.0	60.0	1688.19
8	148.0	34.0	1232.50
9	165.0	34.0	772.49
10	199.0	28.0	48.28
11	213.0	26.0	74.03
12	226.0	26.0	49.89
13	239.0	26.0	144.04
14	254.0	30.0	48.28
15	254.0	10.0	49.89
16	298.0	44.0	341.66
17	323.0	50.0	183.38
18	348.0	42.0	61.96

Night Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	150.5	0.338
2	0	1
3	-155.5	0.94
4	40.2	0.415

Antenna Monitor: POTOMAC INSTRUMENTS INC. TYPE 1900

Sampling System Approved Under Section 73.68 of the Rules.

Monitoring Points:

Night Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
9	4.97	4.05
49	5.59	7.25
199	2.01	13.8
254	1.82	16.2
348	9.25	0.96

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