

Application Purpose

The purpose of this modification to the KWRI license filing is to correct the licensed coordinates to match the ASR coordinates. No other changes are proposed.

Since the coordinates of the KWRI license and the Antenna Structure Registration (ASR 1240833) coordinates are separated at a distance of less than 3 seconds latitude and/or 3 seconds longitude, this corrective form can be filed. A Form 340 application for a construction permit is not necessary as stated in 47 C.F.R Section 73.1690(b)(2).

No physical changes have occurred. There is no change in site elevation, center of radiation, or overall tower height.

Exhibit 1 shows the coordinate spacing to all licensed and proposed facilities remains in compliance with 73.509 (contour protection) spacing requirements.

Exhibit 2 demonstrates continued coverage of the Community of License utilizing the measured pattern from the Antenna Proof of Performance.

Exhibit 3 - FCC Antenna Structure Registration Information for ASR 1240833

Exhibit 4 – Transmitter Power Output Calculation

Channel Study

REFERENCE		CH# 206C1- 89.1 MHz, Pwr= 100 kW DA, HAAT= 189.9 M, COR= 410 M								DISPLAY DATES	
36 42 11.1 N.		Average Protected F(50-50)= 62.8 km								DATA 07-17-20	
95 30 57.9 W.		Standard Directional								SEARCH 07-31-20	
CH CITY	CALL	TYPE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr (kW) HAAT (M)	INT (km) COR (M)	PRO (km) LICENSEE	*IN* (Overlap in km)	*OUT*
206C1	KWRI!	LIC D		0.0	0.06	36 42 13.30	100.000		---Reference---		
Bartlesville			OK	180.0	BLED20041021AEQ	95 30 57.90	191	410	Educational Media Foundati		
206C1	KMUW	LIC D		304.5	213.22	37 46 26.00	100.000	168.9	70.5	1.2	33.0
Wichita			KS	123.3	BMLED20100907AAZ	97 30 53.00	278	699	Wichita State University		
208C1	KWGS	LIC		190.7	77.17	36 01 15.40	50.000	8.7	66.7	3.4	1.9
Tulsa			OK	10.6	BMLED20101110AAU	95 40 32.90	325	519	The University Of Tulsa		
205A	KWXC	LIC D		98.4	79.50	36 35 42.30	6.000	45.7	29.7	1.9	2.3
Grove			OK	278.9	BLED20080313AAP	94 38 05.80	73	354	Grove Broadcasting Inc.		
204C2	KWTU	LIC		190.7	77.17	36 01 15.40	5.000	3.9	45.0	8.1	23.5
Tulsa			OK	10.6	BMLED20101110AAX	95 40 32.90	325	519	The University Of Tulsa		
206A	KXTH	LIC		214.0	198.81	35 12 53.30	2.600	76.1	24.6	57.6	10.5
Seminole			OK	33.3	BLED20101101ABQ	96 44 27.10	115	402	The Love Station, Inc.		
206C	KWFC	LIC D		75.6	235.25	37 12 06.20	100.000	180.4	77.3	13.3	57.9
Springfield			MO	257.1	BMLED20150318ABE	92 56 33.60	342	782	Radio Training Network, In		
203C2	KBQC	LIC		306.9	65.04	37 03 11.20	20.000	4.6	43.1	17.1	17.3
Independence			KS	126.6	BLED20050715AAD	96 06 07.90	145	405	American Family Associatio		
207C2	KAYH	LIC		114.0	140.49	36 10 48.30	25.000	62.4	42.5	39.0	45.4
Fayetteville			AR	294.9	BLED20120925AAD	94 05 09.70	112	502	Community Broadcasting, In		

Terrain database is FCC NGDC 30 Sec, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference Zone= - Zone 2, Co to 3rd adjacent.
All separation margins (if shown) include rounding. Call signs with exclamation marks need not be protected.
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E),
Beamtilt (Y,N,X)

Overlap Population Report
KWRI (206) / Bartlesville, OK (7/8)

Overlap Area Type: Intersection

Areas Included:

KWRI (206): FCC F(50-50) 60.00 dBu (FCC HAAT)

PGON: Bartlesville, OK (7/8)

Population Database: 2010 US Census (PL)

Total Population: 33,986

Overlap Area: 57.33 sq. km (Area determined using 0.03 km cells)

Area Description	Total Population	Total Area [sq. km]	Percent Population	Percent Area
KWRI (206): FCC F(50-50)	233,779	7,285	14.5 %	0.8 %
PGON: Bartlesville, OK	35,866	60.89	94.8 %	94.1 %

Exhibit 2 - Community of License Coverage

Note: 94.1% of the Area and 94.8% of the Population of Bartlesville, OK are contained within the 60dbu service contour.

Note: The 60dbu(F50-50) contour reflects the antenna proof pattern.

KWRI

BLED20041021AEQ

Latitude: 36-42-11.10 N

Longitude: 095-30-57.90 W

ERP: 100.00 kW

Channel: 206

Frequency: 89.1 MHz

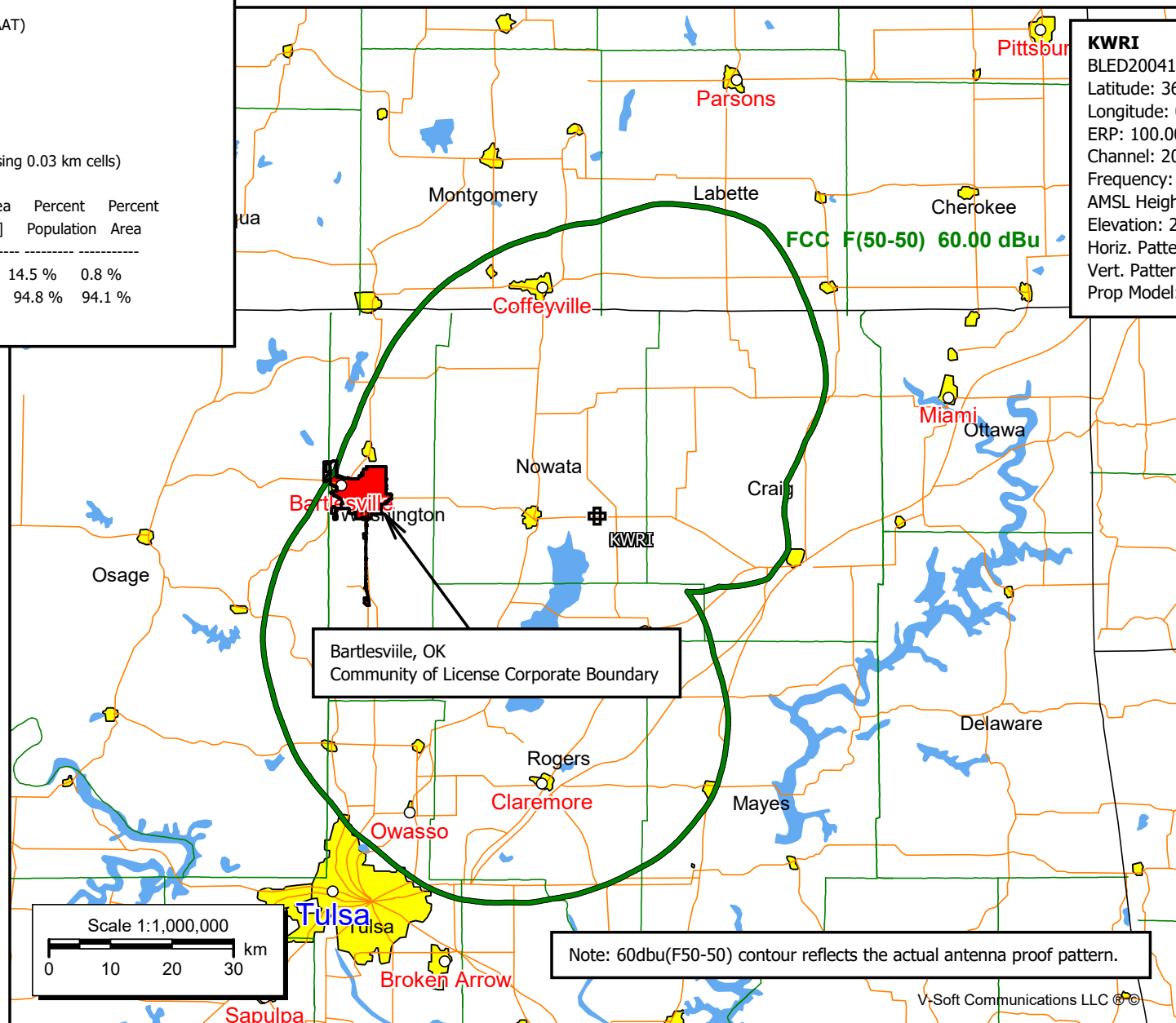
AMSL Height: 410.0 m

Elevation: 247.0 m

Horiz. Pattern: Directional

Vert. Pattern: No

Prop Model: None



[ASR Registration Search](#)**Registration 1240833** [Map Registration](#)**Registration Detail**

Reg Number	1240833	Status	Granted
File Number	A1171371	Constructed	09/27/2004
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

Structure Type GTOWER - Guyed Structure Used for Communication Purposes

Location (in NAD83 Coordinates)

Lat/Long	36-42-11.1 N 095-30-57.9 W	Address	Approximately 0.3 mi N of US Hwy 60 and 1.6 miles W of SH 28, E of Nowata OK
City, State	Nowata , OK		
Zip	74048	County	NOWATA
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
246.9	179.8
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
426.7	179.8

Painting and Lighting Specifications

FAA Chapters 3, 4, 5, 12

Paint and Light in Accordance with FAA Circular Number 70/7460-1K

FAA Notification

FAA Study	2020-ASW-5415-OE	FAA Issue Date	05/12/2020
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Owner & Contact Information

FRN	0004121000	Owner Entity Type	Corporation
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Owner

Educational Media Foundation
Attention To: Leasing Department
5700 West Oaks Boulevard
Rocklin , CA 95765

P: (916)251-1600
F:
E: efile@emfbroadcasting.com

Contact

Department , Leasing
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Last Action Status

Status	Granted	Received	07/30/2020
Purpose	Modification	Entered	07/30/2020
Mode	Interactive		

Related Applications

07/30/2020	A1171371 - Modification (MD)
10/13/2004	A0400082 - Notification (NT)
10/22/2003	A0351780 - New (NE)

Comments**Comments**

None

History**Date****Event**

07/31/2020	Registration Printed
07/30/2020	Modification Received
10/13/2004	Construction Notification Received

All History (5)

Automated Letters

07/31/2020	Authorization, Reference
10/22/2003	Authorization, Reference 308870

[CLOSE WINDOW](#)

Educational Media Foundation
5700 West Oaks Boulevard
Rocklin, CA 95765

Bartlesville, OK
KWRI

Transmitter Power Output Calculation

Transmitter Power Output

Authorized ERP: 100,000 watts
ERI P300-6B-DA Antenna Power Gain: 21.865
505' Andrew HJ8-50B 3" Air Coax Efficiency: .854
TPO: 5355.409 watts

Confirmation: $5355.409 \times 21.865 \times .854 = 99,999.992$ Watts

NOTE: TPO SHOWN AS 5.355KW RATHER THAN 5355.409 WATTS DUE TO ROUNDING AND RESOLUTION OF THE FORM.