

MINOR CHANGE APPLICATION
AZALEA RADIO CORPORATION
KHCV (FM) RADIO STATION
CH 259A - 99.7 MHz - 0.78 kW - DA
CADDO VALLEY, ARKANSAS
July 2013

EXHIBIT B

Technical Statement for City Grade Coverage
Using Supplemental City Grade Analysis

The KHCV city grade contour does not provide the necessary level of signal to the community of Caddo Valley, Arkansas using the normal FCC predicted 70 dBu contour of the station. Azalea herein submits a study demonstrating that, using a supplemental analysis, the community of Caddo Valley is within the predicted Longley-Rice 70 dBu contour, in compliance with §73.315(a) of the rules.

The community of Caddo Valley is located approximately 20.8 kilometers on a bearing of 157.2 degrees True North of the proposed KHCV transmitter site. Using the Commission's standard method of predicting city grade coverage, as outlined in §73.313 of the Commission's rules, the predicted 3.16 mV/m contour does not reach the community of Caddo Valley. In this particular case, however, we find a supplemental method of depicting city grade coverage is appropriate, as noted in §73.313(e) of the Commission's rules.

The proposed KHCV facility will be located on a new tower at geographic coordinates North Latitude 34° 21' 09" and West Longitude 93° 09' 26" and operate with a maximum effective radiated power of 0.98 kilowatt with a center of radiation 418.8 meters above mean sea level. Caddo Valley is located on bearings between 146° and 164° True from the proposed KHCV site.

We have analyzed the terrain in 2.0° increments (30 second FCC terrain database) including a direct bearing to the city at 157.2°. A depiction of the terrain profile at 157.2° is attached as Exhibit B4.

We have determined the location of the 70 dBu contour, using the Longley-Rice prediction method first occurrence, as implemented in the V-Soft program Probe-4. This model is a more representative prediction of field strength than the FCC standard methodology.

On the pertinent bearings toward the proposed main studio, we tabulated the distance to the city grade contour, using the FCC method (Exhibit B2) and supplemental method to demonstrate the differences in the distances to the contour. We found the supplemental depiction distances are greater (in excess of 10%) than the distances using the Commission's standard methodology. Based on the Staff's policy, as the supplemental method exceeds the standard method by more than 10%, the supplemental showing is acceptable. Therefore, pursuant to §73.313(e) of the Commission's rules, a supplemental method of depicting the city grade coverage is warranted. It is noted that one of the reviewed radials extends beyond the 60 dBu FCC protected contour of KHCV. Where this occurred, the contour is terminated at the 60 dBu contour distance.

Using the supplemental method calculations, we find the city grade contour in the direction of the city extends out a minimum distance of 20.1 kilometers and a maximum of 29.8 kilometers, which is well beyond the far city boundary of Caddo Valley, as visually demonstrated in Exhibit B3.

Based on the supplemental depiction, we find the proposed KHCV facility adequately serves the community of Cado Valley and is in compliance with §73.315(a) of the Commission's rules.

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EXHIBIT B1

Predicted contour:

Azi.	AV EL	HAAT	ERP kW	dBk	Field	70-F5	60-F5
000	168.1	250.7	0.9800	-0.09	1.000	16.25	28.49
045	144.1	274.7	0.9800	-0.09	1.000	17.09	29.76
090	195.0	223.8	0.9800	-0.09	1.000	15.30	26.99
135	154.5	264.3	0.9800	-0.09	1.000	16.74	29.21
180	148.4	270.4	0.5323	-2.74	0.737	14.45	25.64
225	149.6	269.2	0.1048	-9.80	0.327	9.71	17.21
270	227.0	191.8	0.2165	-6.65	0.470	9.84	17.49
315	190.7	228.1	0.7780	-1.09	0.891	14.56	25.84

Additional Radials (Not Considered in Average):

146	144.5	274.3	0.9800	-0.09	1.000	17.08	29.74
148	144.9	273.9	0.9800	-0.09	1.000	17.07	29.72
150	145.2	273.6	0.9800	-0.09	1.000	17.06	29.70
152	146.0	272.8	0.9800	-0.09	1.000	17.03	29.66
154	146.9	271.9	0.9800	-0.09	1.000	17.00	29.61
156	147.4	271.4	0.9800	-0.09	1.000	16.98	29.58
157	147.7	271.1	0.9800	-0.09	1.000	16.97	29.57
158	147.7	271.1	0.9800	-0.09	1.000	16.97	29.57
160	145.2	273.6	0.9800	-0.09	1.000	17.06	29.70
162	138.3	280.5	0.9500	-0.22	0.985	17.15	29.84
164	135.7	283.1	0.9206	-0.36	0.969	17.09	29.76

Ave El= 172.17 M HAAT= 246.63 M AMSL= 418.8

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EXHIBIT B2

Tabulation of City Grade Contours in Arc
Toward Caddo Valley

Location of 70 dBu

Azi.	FCC Method (F)	Longley-Rice (LR)	% Change	Method Used
146	17.08	23.80	+39.3	LR
148	17.07	20.08	+17.6	LR
150	17.06	21.20	+24.3	LR
152	17.03	21.57	+26.7	LR
154	17.00	23.70	+39.4	LR
156	16.98	23.76	+39.9	LR
# 157	16.97	23.80	+40.2	LR
158	16.97	23.87	+40.7	LR
160	17.06	26.79	+57.0	LR
162	17.15	27.81	+62.2	LR
164	17.09	29.76 *	+74.1	LR

- City Radial

* - Distance to Contour Terminated at FCC 60 dBu 50/50 distance

KHCV - Caddo Valley, AR -
 Latitude: 34-21-09 N / Longitude: 093-09-26 W
 ERP: 0.98 kW / Channel: 259 / Freq: 99.7 MHz
 AMSL Height: 418.8 m

GRAHAM BROCK, INC.
 BROADCAST TECHNICAL CONSULTANTS

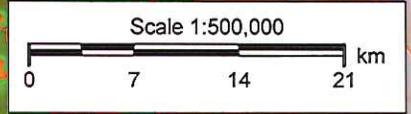


EXHIBIT B3
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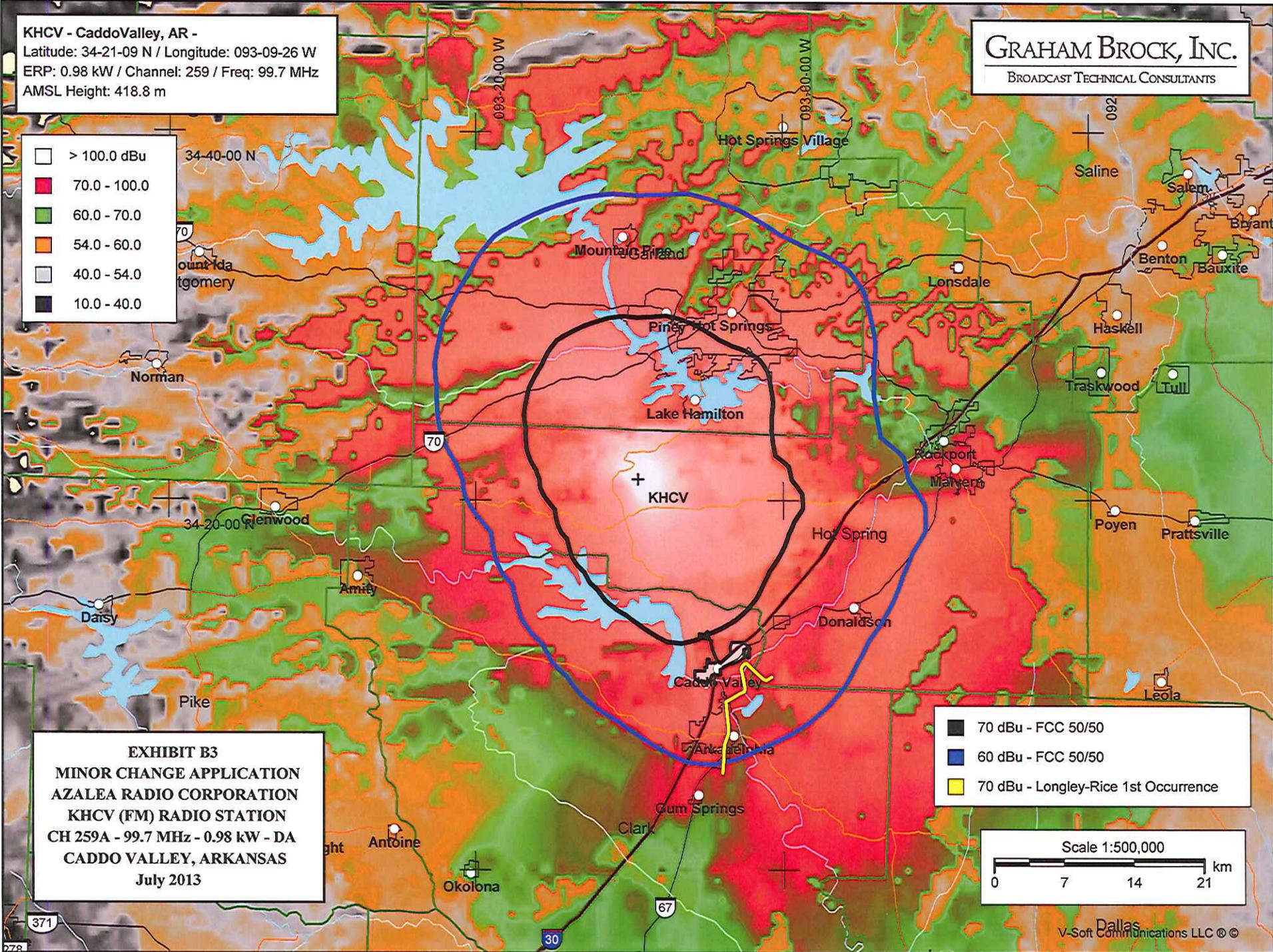
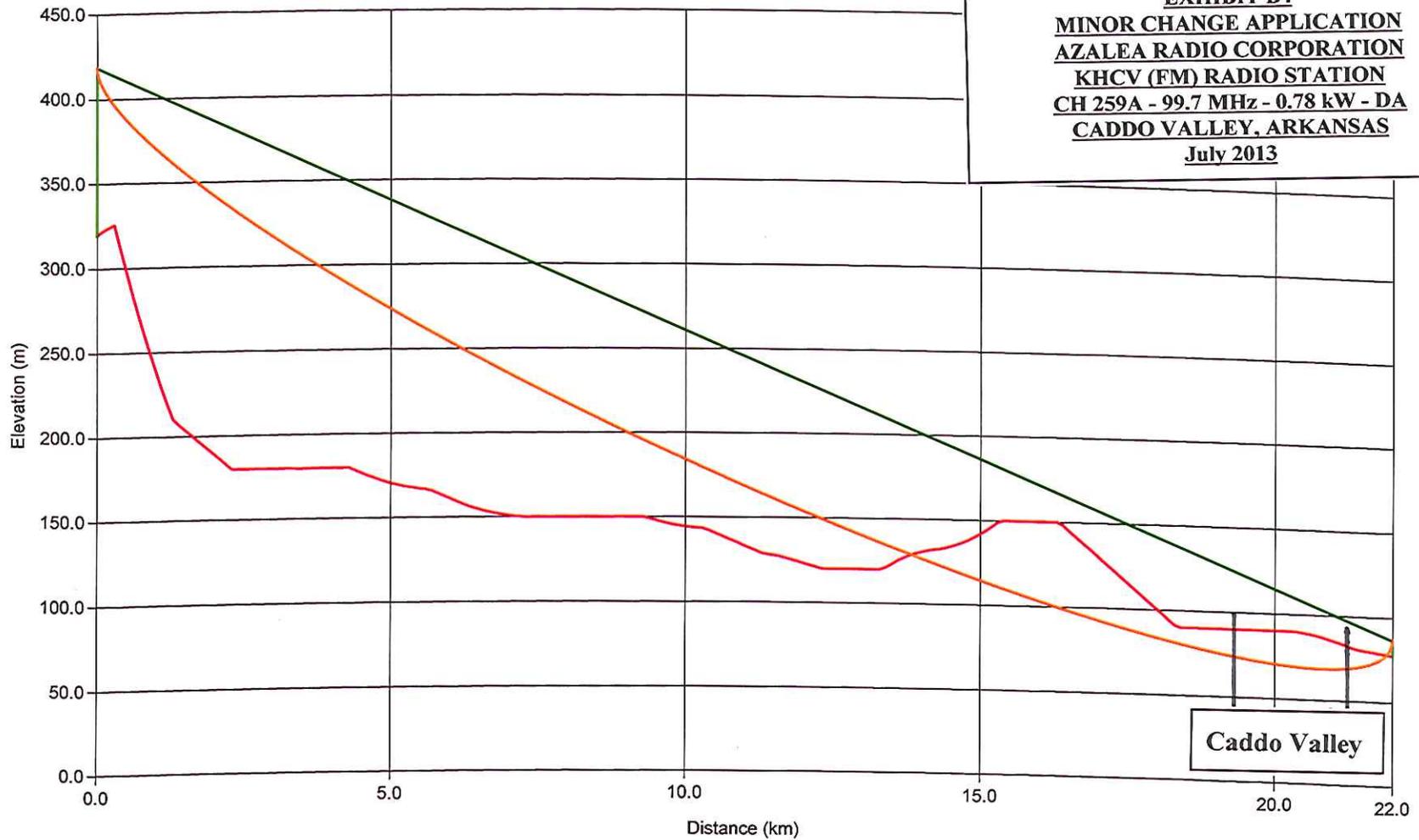


EXHIBIT B4
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Start Latitude: 34-21-09 N
 Start Longitude: 093-09-26 W

End Latitude: 34-10-10.66 N
 End Longitude: 093-03-53.13 W

Distance: 22.0 km
 Bearing: 157.2 deg

