### COMPREHENSIVE TECHNICAL EXHIBIT

# **DISCUSSION**

Applicant seeks modification of its current license to relocate full-service KKSE-FM Broomfield, CO, FID # 59972, to a different tower location with a corresponding change in the RCAMSL, ERP, antenna pattern and a Class change from C1 to C2.

# **ALLOCATION STUDY**

A theoretical allotment site for the downgrade to Class C2 has been identified. It is located at 40 01 19.53N by 104 54 18.32W and is fully spaced under 47 CFR 73.207 (see **Figure 1**).

C2 Allocation Study Kse Radio Ventures, LLC

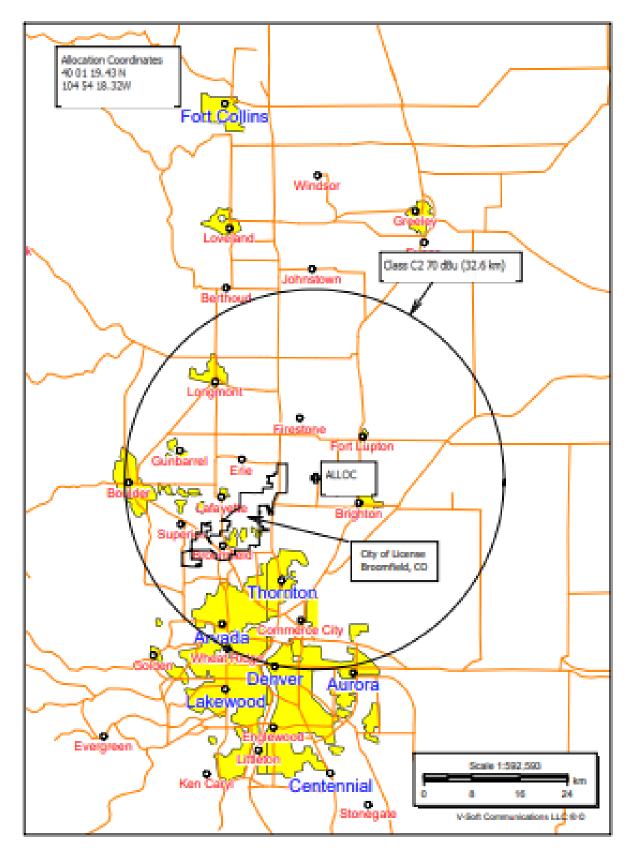
REFERENCE		DISPLAY DATES
40 01 19.53 N.	CLASS = C2	DATA 10-05-23
104 54 18.32 W.	Current Spacings to 3 <sup>rd</sup> Adj.	SEARCH 10-05-23
	Channel 223 - 92.5 MHz	
	Chamier 225 3213 Phi2	

Call	C	hannel	Location		Azi	Dist	FCC	Margin
KJMN KYOY KKCH KKPK NEW/KFII DKKHG KRJN 766816 KRJN AL9324 KUWR KPAW KFWA KVRH-FM NEW/KBWB	LIC-N LIC-N LIC-N LIC CP VAC STA CP -N LIC RSV-A LIC LIC LIC	nanne I 221C2 222C3 224C 225C 222A 226C3 226C3 224C1 220C0 225C2 276C3 224C1	Location	CO WY CO CO CO CO CO CO CO WY WY CO CO	AZ1 189.9 15.1 253.1 178.5 124.4 133.6 74.6 74.6 74.9 110.7 342.2 348.0 73.1 209.1 108.8	71.76 141.23 221.63 141.77 145.63 146.69 97.52 97.52 111.14 216.65 150.39 119.76 87.11 198.92 240.87	57.5 116.5 187.5 104.5 105.5 105.5 55.5 54.5 55.5 157.5 88.5 57.5 16.5 116.5	Margin  14.3 24.7 34.1 37.3 40.1 41.2 42.0 43.0 55.6 59.2 61.9 62.3 70.6 82.4 83.4
1501452 KSTH	VAC CP	226A 222C2	walden Holyoke	CO CO	302.3 73.4	147.63 228.31	54.5 129.5	93.1 98.8

# FIGURE 1

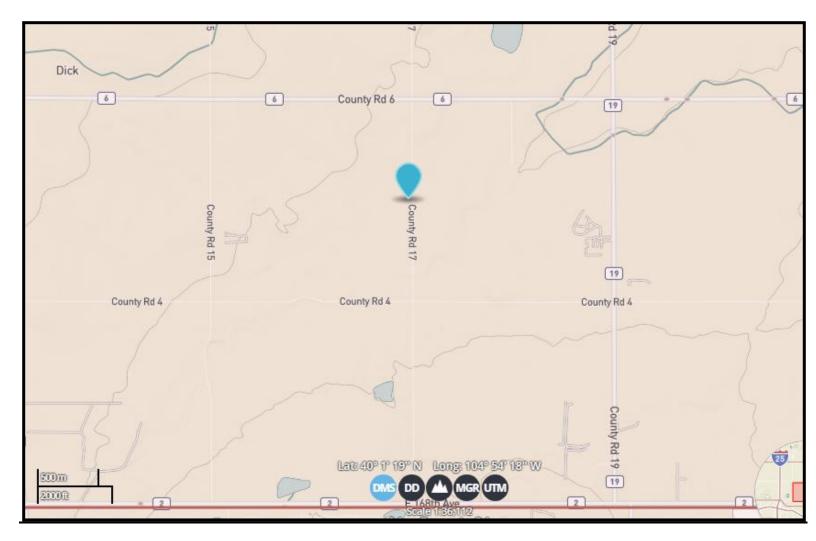
RSV-R = reserved - needs protection, RSV-A = allocation. All separation margins include rounding

Figure 2 shows the city of license coverage map for the theoretical site (32.6 km).



# FIGURE 2

Figure 3 is a topographical map showing the location of the theoretical allotment site.



# FIGURE 3

# Compliance with 47 CFR 73.207 (Requesting 73.215 processing)

The proposed facility meets all minimum distance separation requirements with regard to co-channel, first, second, and third adjacent channel stations, and those separated by 53/54 channels, except for KKCH, Glenwood Springs, CO. The proposed facility is short-spaced 1.5 kilometers to KKCH, a 1<sup>st</sup> adjacent Class C facility (see **Figure 4**).

This application proposes contour protection for KKCH according to the guidelines of 47 CFR 73.215 which states that the minimum separation requirement between a Class C2 and a 1<sup>st</sup> adjacent Class C facility is <u>176 kilometers</u>. Figure 4 shows that the proposed facility is separated from KKCH by <u>185.97 kilometers</u>.

Therefore, the proposed facility is permitted to use contour protection toward the short-spaced facility. (See Figures 5 & 6)

# KKSE-FM Proposed Channel Study (73.207)

Kse Radio Ventures, LLC

39 54 48.00 N. 105 17 35.00 W.		CLASS = C2 Current Spacings to 3rd Adj. Channel 223 - 92.5 MHz						
Call	Cł	nannel	Location		Azi	Dist	FCC	Margin
KKCH L KJMN L KKPK L KYOY L KVRH-FM L DKKHG V NEW/KFII C KPAW L	IC-N IC-N IC IC-N IC/AC	223C1 224C 221C2 225C 222C3 222C3 222A 222A 225C2 224C1	Broomfield Glenwood Springs Castle Rock Colorado Springs Hillsdale Salida Hugo Hugo Warren Afb Stratton	CO CO CO WY CO CO WY	58.5 253.5 160.3 163.9 25.0 201.3 122.4 114.4 3.3 105.1	39.05 185.97 62.33 135.01 164.15 173.95 165.27 168.39 129.52 243.95	105.5 105.5	-184.5 -1.5 4.8 30.5 47.7 57.5 59.8 62.9 72.0 86.5

RSV-R = reserved - needs protection, RSV-A = allocation.
All separation margins include rounding

#### Facility being modified

DEEEDENCE

Short-spaced, 73.215 processing requested

### FIGURE 4

DICH AV DATES

# KKSE-FM Proposed Site Channel Study (73.215)

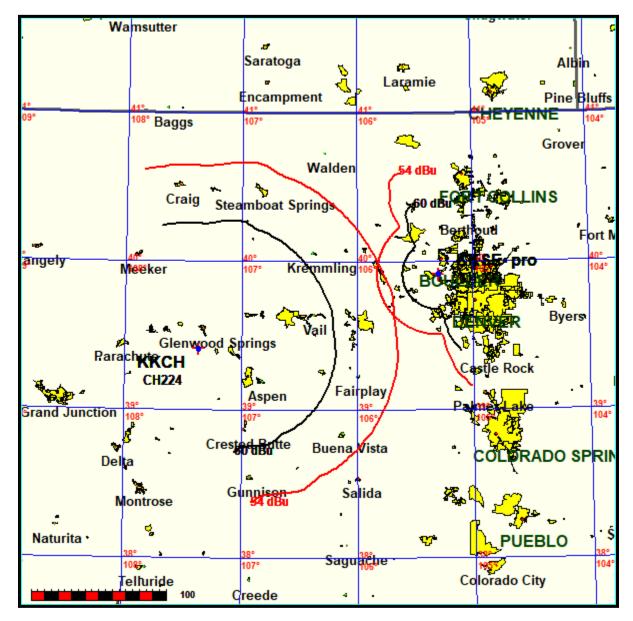
REFERENCE 39 54 48.0 N. DATA 10-06-23 105 17 35.0 w. SEARCH 10-06-23 Standard Directional \*IN\* \*OUT\* TYPF ANT AZI. DIST Pwr(kw) INT(km) PRO(km) CH CALL I AT. HAAT(M) COR(M) LICENSEE (Overlap in km) <--FILE # CITY STATE LNG. 58.5 39.11 40 05 46.90 57.000 ---Reference---223C1 KKSE-FM! LIC DEN 238.7 BLH20010501AAA Broomfield 104 54 05.90 377 1895 Kse Radio Ventures, LLC 39 23 06.90 42.000 57.5R 160.3 62.28 71.4 221C2 KJMN« LIC NCN 9.1 4.8M 340.4 BLH20050603AAV 105 02 53.90 163 Castle Rock 2226 Entravision Holdings, LLC CO 224C KKCH LIC NCN 253.5 185.97 39 25 06.90 56.000 147.1 102.2 11.8 72.1 BMLH20031125AEC Glenwood Springs CO 107 22 08.20 763 3212 Alwaysmountaintime, LLC \*\*OF NOTE: A 73.215 station\*\* 225С ККРК« 38 44 44.00 79.000 97.0 104.5R LIC CN 163.9 134.86 30.4M Colorado Springs 344.2 BLH19990311KE 104 51 43.90 670 2922 Radio License Holding Cbc, 41 14 54.90 12.000 104 27 47.80 44 222C3 KYOY« LIC NCN 25.0 164.07 19.0 116.5R 47.6M WY 205.5 BLH20111005AJF 1772 Proshop Radio Broadcasting Hillsdale 222C3 KVRH-FM« LIC CN 201.3 173.79 38 27 10.90 0.220 62.4 44.3 116.5R 57.3M Salida 20.8 BLH20090917ABD 106 01 04.00 895 3578 Three Eagles Communication CO 222A DKKHG« VAC 122.4 165.51 39 06 19.97 6.000 25.5 16.1 105.5R 60.0M 103 40 31.83 100 1776 From CDBS CO 303.4 Hugo 39 16 30.00 3.500 103 30 37.72 73 222A NEW/KFII« 114.4 168.72 13.7 105.5R CP CN20.4 63.2M 295.5 0000161479 1735 Scarboroughradio, LLC Hugo CO 225C2 KPAW« 41 04 34.90 33.000 105 12 11.90 185 57.5R 3.3 129.36 53.9 71.9M LIC CN 6.1 183.4 BLH20070131ABW 2404 Ihm Licenses, LLC Warren Afb WY 39 18 33.98 100.000 102.8 102 33 17.03 299 1622 224C1 AL9324« 105.1 244.53 70 5 157.5R 87.0M RSV-A Stratton CO 286.8 1622 From CDBS

Terrain database is GLOBE 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= - ZN2, 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) "\*"affixed to 'IN' or 'OUT' values = site inside restricted contour.

« = Station meets FCC minimum distance spacing for its class.

### FIGURE 5

<sup>\*73.215</sup> Contour Protection proposed



Contour Relationships - KKSE-FM proposed vs KKCH

**FIGURE 6** 

# PROPOSED ANTENNA SITE CITY GRADE COVERAGE

Figure 7 below reveals 100% 70 dBu city-grade coverage of the City of License (Broomfield, CO).

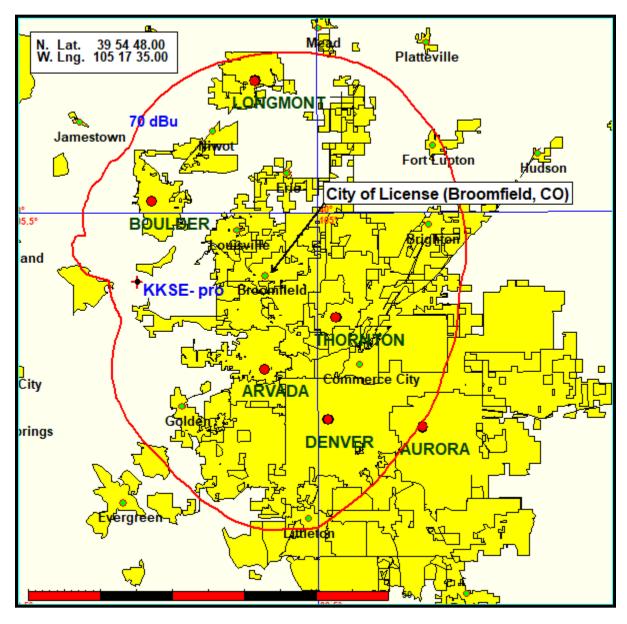


FIGURE 7

# **ENVIRONMENTAL COMPLIANCE:**

There will be no new construction. Applicant proposes use of a one bay AAT Panel antenna (AAT FM-P-CP-1), mounted on a registered tower (ASR # 1033692) with RCAGL at 28 meters, radiating 5.6 kW H&V ERP.

Due to the fact that several existing and proposed emitters are located at or near the site, the applicant agrees to conduct a Radiofrequency Electromagnetic Field survey at the site upon construction of the proposed facility to ensure that any areas at ground level that exceed the Commission's exposure guideline values are appropriately marked and fenced. The results of the survey will be provided with the application for license. Even though the site will fully comply with the Uncontrolled Site Standards, access to the transmitting site will be restricted and appropriately marked with warning signs. When it becomes necessary for workers to ascend the tower, appropriate measures, such as reduction or shut down of power if necessary, shall be taken to ensure that the human exposure to radiofrequency radiation will not exceed the FCC guidelines.

# **Existing Tower:**

The proposed facility is exempt from environmental processing because the facility is not located at a location specified in Section 1.1307(a) (1)-(8) of the Commission's Rules and since the tower in question already exists.