

EXHIBIT 16

Skywave Interference Considerations for Secondary Nighttime Operation

Statement

Station KRAE is presently licensed to operate during nighttime hours on a secondary basis utilizing the station's daytime nondirectional antenna, and this application requests authorization to continue such secondary operation at the proposed site. The proposed secondary nighttime operation of KRAE would not cause skywave interference to any existing Class B or Class C station operating during nighttime hours on 1480 kHz, 1470 kHz and 1490 kHz, as shown by the data presented in this Exhibit.

An analysis of the existing stations operating during nighttime hours on 1480 kHz, 1470 kHz and 1490 kHz shows that consideration of the Class B stations listed below in the determination of allowable values of radiation will result in adequate protection to all other stations operating on these frequencies during nighttime hours:

KAUS, Austin, Minnesota (1480 kHz)
KLMS, Lincoln, Nebraska (1480 kHz)
KPHX, Phoenix, Arizona (1480 kHz)
KQAM, Wichita, Kansas (1480 kHz)
KKTY, Douglas, Wyoming (1470 kHz)

Table A of this Exhibit contains data employed for the computation of the existing RSS nighttime limit of each of the Class B stations listed above. Table B of this Exhibit contains data for the computation of the values of allowable radiation from the proposed site toward the Class B facilities.

From the most restrictive protection requirement, in terms of horizontal plane radiation, imposed by any of the stations shown in Table B, it was determined that none of the stations would receive skywave interference from the proposed secondary nighttime operation of KRAE at an antenna input power of 72 watts.

As the proposed nighttime operation of KRAE is a secondary service that does not receive protection from other stations, the determination of the nighttime interference-free contour for the proposed operation has been omitted from this application, and the application does not include a map showing the proposed nighttime interference-free groundwave contour.

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Sierra Madre, California

EXHIBIT 16 (continued)

Skywave Interference Considerations
for Secondary Nighttime Operation

TABLE A

Existing Nighttime Interference-Free Limits

To	Station	Limit (mV/m)	
KAUS (1480 kHz)	WMBD (1470 kHz)	2.808	
	KLMS (1480 kHz)	2.099	
	WLMV (1480 kHz)	2.084	50% RSS = 4.078
	WSPY (1480 kHz)	1.982	
	WHBC (1480 kHz)	1.689	
	KAIR (1470 kHz)	1.616	
	WLFN (1490 kHz)	1.321	25% RSS = 5.270
KLMS (1480 kHz)	WPFR (1480 kHz)	2.633	
	KQAM (1480 kHz)	1.934	
	KCZZ (1480 kHz)	1.931	50% RSS = 3.795
	TGBH (1480 kHz)	1.531	
	WLMV (1480 kHz)	1.438	
	KAUS (1480 kHz)	1.421	
	KPHX (1480 kHz)	1.374	
	KNIT (1480 kHz)	1.337	
	KTOP (1490 kHz)	1.333	25% RSS = 5.126
KPHX (1480 kHz)	XE, Hermosillo, Sonora, Mexico (1480 kHz)	3.651	
	KQAM (1480 kHz)	3.060	
	KVNR (1480 kHz)	2.928	50% RSS = 5.592
	KYOS (1480 kHz)	2.560	
	XERCN (1470 kHz)	1.830	
	KGOE (1480 kHz)	1.760	
	TGBH (1480 kHz)	1.741	25% RSS = 6.878

EXHIBIT 16 (continued)

Skywave Interference Considerations
for Secondary Nighttime Service

TABLE A (continued)

Existing Nighttime Interference-Free Limits

To	Station	Limit (mV/m)	
KQAM (1480 kHz)	KLMS (1480 kHz)	3.015	
	WPFR (1480 kHz)	2.895	
	KCZZ (1480 kHz)	2.263	50% RSS = 4.753
	TGBH (1480 kHz)	2.006	
	KLVL (1480 kHz)	1.583	
	WSPY (1480 kHz)	1.564	25% RSS = 5.619
KPTY (1470 kHz)	XERCN (1470 kHz)	3.208	50% RSS = 3.208
	WMBD (1470 kHz)	1.485	
	KAIR (1470 kHz)	1.270	
	XESM (1470 kHz)	1.229	
	KWSL (1470 kHz)	1.217	
	KRJJ (1470 kHz)	1.156	
	KIID (1470 kHz)	1.130	
	KNFL (1470 kHz)	1.118	25% RSS = 4.579

EXHIBIT 16 (continued)

Skywave Interference Considerations
for Secondary Nighttime Operation

TABLE B

Allowable Nighttime Radiation from Proposed Site

Geographical coordinates of KRAE proposed site:

North Latitude 41° 07' 17"

West Longitude 104° 50' 22"

Station	Frequency	Geographical Coordinates	Distance (km)	True Azimuth	Vertical Angles	Allowable Limit (mV/m)	Allowable Radiation (mV/m)	Horizontal Radiation (mV/m)
KAUS	1480 kHz	N 43° 37' 20" W 92° 59' 26"	1011.2	70.1°	5.8° - 11.0°	1.316	186.1	187.8
KAUS near point	1480 kHz	N 43° 34' 45" W 93° 15' 25"	989.2	70.1°	6.0° - 11.3°	1.316	178.7	180.4
KLMS	1480 kHz	N 40° 47' 47" W 96° 34' 56"	694.0	90.3°	10.2° - 17.4°	1.280	91.4	93.9
KLMS near point	1480 kHz	N 40° 55' 10" W 97° 06' 15"	649.0	89.4°	11.0° - 18.7°	1.280	82.6	85.3
KPHX	1480 kHz	N 33° 24' 02" W 112° 06' 28"	1071.7	219.1°	5.2° - 10.1°	1.718	218.4	220.0
KQAM	1480 kHz	N 37° 44' 21" W 97° 16' 14"	750.5	117.6°	9.2° - 16.0°	1.403	108.6	111.0
KQAM near point	1480 kHz	N 37° 47' 35" W 97° 47' 10"	709.2	119.2°	9.9° - 17.0°	1.403	99.6	102.2
KKTY	1470 kHz	N 42° 45' 48" W 105° 23' 32"	188.2	346.1°	37.0° - 51.3°	1.117	182.9	261.6
KKTY near point	1470 kHz	N 42° 35' 20" W 105° 19' 59"	168.2	346.1°	40.2° - 54.5°	1.117	170.5	260.3