

Daytime Allocation Study Stations Used In This Study

<u>Callsign</u>	<u>State</u>	<u>City</u>	<u>Freq</u>	<u>KW</u>	<u>Lat</u>	<u>Lon</u>	<u>Class</u>	<u>Status</u>	<u>Facility ID</u>
KVNR	CA	SANTA ANA	1480	5	33-45-06.0	117-54-38.0	B	LD	37223
KVNR	CA	SANTA ANA	1480	5	33-45-06.0	117-54-38.0	B	LN	37223
KSPE	CA	SANTA BARBARA	1490	1	34-25-07.0	119-41-10.0	C	LU	61712
KWIFCP	CA	CULVER CITY	1500	0.12	34-01-10.0	118-20-44.0	B	CD	161348
KWIF-D	CA	CULVER CITY	1500	0.40	33-59-11.0	118-23-19.0	B	AD	161348
KWIF-N	CA	CULVER CITY	1500	0.17	33-59-11.0	118-23-19.0	B	AN	161348
XEEBC	BN	ENSENADA	1500	0.5	31-51-10.0	116-38-09.0	B		103731
XEEBC	BN	ENSENADA	1500	1	31-51-10.0	116-38-09.0	B	XD	103731
KSPA	CA	ONTARIO	1510	10	34-05-41.0	117-36-46.0	B	LD	13899
KKZZ	CA	PORT HUENEME	1520	10	34-10-02.0	119-08-02.0	B	LD	25091

Ground Conductivity Measured Radials

Measurement data on the following stations is incorporated into the daytime allocation study.

Data for the proposed facility, KSPA and KSPE was filed with BNP- 20140715ABO which resulted in grant of that application, and is re-used here. The proposed site is 5.41 kilometers from the CP site which we recognize is 2.21 kilometers more distant than that usually accepted for measurement, but the bearings toward KSPA are almost identical (80.4° vs 82.9°) and the proposed site is 4.47 km farther away. This 2.21 kilometers is only 3% of the 72.64 kilometer distance to KSPA. As a practical matter, KSPA's site is no longer extant and the station has been silent since at least May 6, 2020. We respectfully suggest that the on-file data is sufficient to prove no overlap to this nonexistent site.

KWIF (BNP- 20140715ABO Site), Culver City, California (1500 KHz, Facility ID 161348)

59° 3 (10 km), 1.5 (24 km), 0.5 (32 km)
 79° 6 (20 km), 3 (39.8 km)
 99° 6 (20 km), 3 (40.5 km)
 119° 3 (4 km), 6 (20 km), 5 (30 km), 4 (40.7 km)
 130° 8 (20 km), 4 (36.85 km)
 284° 5 (13 km), 1.5 (20 km)

KSPA, Ontario, California (1510 KHz, Facility ID 13899)

220° 2 (47.5 km)
 240° 2 (28), 1 (34.7 km)
 260° 2.5 (41.3 km)
 280° 0.1 (31.9 km)

KSPE, Santa Barbara, California (1490 KHz, Facility ID 61712)

97° 6 (10 km), 20 (18 km), 5(57.8 km)
 117° 40 (70 km), 15 (90 km), 4 (91.9 km)

All other stations use FCC M-3 data.

KWIF-CP GROUND CONDUCTIVITY REPORT

Lat : 34-01-10 N

Lon : 118-20-44 W

Radius : 500 KM

* Includes measured conductivity data

Bearing	kilometers, mS/m		kilometers, mS/m		kilometers, mS/m	
0 deg:	8.04,	15.0	31.19,	8.0	39.53,	4.0
	46.02,	8.0	73.81,	4.0	116.43,	8.0
	227.61,	4.0	336.01,	2.0	500.00,	4.0
5 deg:	8.04,	15.0	27.61,	8.0	72.25,	4.0
	128.02,	8.0	232.25,	4.0	289.93,	2.0
	500.19,	4.0				
10 deg:	8.11,	15.0	25.97,	8.0	69.27,	4.0
	137.99,	8.0	499.69,	4.0		
15 deg:	8.25,	15.0	25.55,	8.0	68.78,	4.0
	152.34,	8.0	500.29,	4.0		
20 deg:	8.46,	15.0	25.35,	8.0	67.76,	4.0
	169.37,	8.0	500.24,	4.0		
25 deg:	8.73,	15.0	25.40,	8.0	68.10,	4.0
	190.14,	8.0	500.27,	4.0		
30 deg:	9.06,	15.0	26.49,	8.0	68.10,	4.0
	215.16,	8.0	323.49,	4.0	361.24,	8.0
	500.07,	4.0				
35 deg:	9.87,	15.0	26.53,	8.0	68.64,	4.0
	242.98,	8.0	298.35,	4.0	403.60,	8.0
	499.60,	4.0				
40 deg:	10.33,	15.0	26.46,	8.0	72.11,	4.0
	405.31,	8.0	499.67,	15.0		
45 deg:	11.36,	15.0	28.01,	8.0	74.20,	4.0
	389.43,	8.0	499.76,	15.0		
50 deg:	10.00,	3.0*	24.00,	1.5*	32.00,	0.5*
	79.18,	4.0	372.65,	8.0	499.81,	15.0
55 deg:	10.00,	3.0*	24.00,	1.5*	32.00,	0.5*
	85.38,	4.0	355.23,	8.0	500.37,	15.0
60 deg:	10.00,	3.0*	24.00,	1.5*	32.00,	0.5*
	34.21,	8.0	92.31,	4.0	345.02,	8.0
	481.17,	15.0	500.29,	8.0		
65 deg:	10.00,	3.0*	24.00,	1.5*	32.00,	0.5*
	36.75,	8.0	105.09,	4.0	342.56,	8.0
	461.00,	15.0	500.02,	8.0		
70 deg:	20.00,	6.0*	39.80,	3.0*	119.30,	4.0
	340.28,	8.0	452.44,	15.0	499.84,	8.0
75 deg:	20.00,	6.0*	39.80,	3.0*	48.10,	8.0
	143.63,	4.0	341.42,	8.0	452.22,	15.0
	500.16,	8.0				
80 deg:	20.00,	6.0*	39.80,	3.0*	59.52,	8.0
	169.90,	4.0	340.71,	8.0	456.87,	15.0
	499.90,	8.0				
85 deg:	20.00,	6.0*	39.80,	3.0*	72.78,	8.0
	166.60,	4.0	185.85,	2.0	343.99,	8.0
	484.23,	15.0	500.33,	8.0		

90 deg:	20.00,	20.0*	40.50,	3.0*	84.06,	8.0
	157.80,	4.0	208.50,	2.0	290.74,	8.0
	499.98,	15.0				
95 deg:	20.00,	20.0*	40.50,	3.0*	95.25,	8.0
	154.81,	4.0	232.21,	2.0	500.34,	15.0
100 deg:	20.00,	20.0*	40.50,	3.0*	104.31,	8.0
	166.14,	4.0	210.10,	2.0	499.71,	15.0
105 deg:	20.00,	20.0*	40.50,	3.0*	115.08,	8.0
	115.33,	4.0	116.07,	8.0	193.12,	4.0
	199.57,	2.0	454.77,	15.0	500.26,	8.0
110 deg:	4.00,	3.0*	20.00,	6.0*	30.00,	5.0*
	40.70,	4.0*	129.22,	8.0	214.48,	4.0
	398.60,	15.0	499.71,	8.0		
115 deg:	4.00,	3.0*	20.00,	6.0*	30.00,	5.0*
	40.70,	4.0*	48.78,	15.0	50.57,	8.0
	51.27,	15.0	141.81,	8.0	238.46,	4.0
	337.67,	15.0	365.39,	20.0	373.33,	15.0
	438.79,	8.0	440.18,	5.0	440.60,	8.0
	442.69,	5.0	443.12,	8.0	447.45,	5.0
	449.27,	8.0	489.13,	5.0	500.33,	15.0
120 deg:	4.00,	3.0*	20.00,	8.0*	20.00,	6.0*
	30.00,	5.0*	36.85,	4.0*	40.70,	4.0*
	73.17,	15.0	73.64,	8.0	74.97,	15.0
	159.65,	8.0	283.82,	4.0	297.67,	15.0
	394.31,	20.0	500.27,	15.0		
125 deg:	4.00,	3.0*	20.00,	8.0*	20.00,	6.0*
	30.00,	5.0*	36.85,	4.0*	40.70,	4.0*
	99.14,	15.0	102.64,	8.0	103.26,	15.0
	180.16,	8.0	180.71,	4.0	182.51,	8.0
	269.14,	4.0	407.01,	20.0	443.67,	15.0
	444.30,	5000.0	445.49,	15.0	446.12,	5000.0
	446.67,	15.0	447.30,	5000.0	448.49,	15.0
	449.12,	5000.0	450.31,	15.0	450.94,	5000.0
	452.13,	15.0	452.75,	5000.0	453.31,	15.0
	453.94,	5000.0	455.13,	15.0	455.76,	5000.0
	456.32,	15.0	458.77,	5000.0	459.33,	15.0
	499.70,	5000.0				
130 deg:	20.00,	8.0*	36.85,	4.0*	132.08,	15.0
	205.90,	8.0	207.10,	4.0	207.68,	8.0
	245.87,	4.0	399.19,	20.0	399.78,	3.0
	400.40,	20.0	425.02,	3.0	499.68,	5000.0
135 deg:	20.00,	8.0*	36.85,	4.0*	87.41,	15.0
	89.15,	5000.0	91.56,	15.0	92.10,	5000.0
	92.76,	15.0	93.30,	5000.0	93.96,	15.0
	96.25,	5000.0	98.11,	15.0	98.66,	5000.0
	99.32,	15.0	120.74,	5000.0	121.41,	15.0
	121.95,	5000.0	167.38,	15.0	168.05,	8.0
	168.59,	15.0	229.14,	8.0	324.19,	5.0
	465.69,	3.0	500.25,	5000.0		
140 deg:	20.00,	8.0*	36.85,	4.0*	49.85,	15.0
	50.34,	5000.0	51.05,	15.0	52.75,	5000.0
	54.67,	15.0	157.31,	5000.0	216.85,	15.0
	340.64,	5.0	500.27,	3.0		

145 deg:	34.26, 15.0	199.66, 5000.0	206.45, 15.0
	356.42, 5.0	499.99, 3.0	
150 deg:	32.21, 15.0	423.87, 5000.0	424.68, 3.0
	425.87, 5000.0	426.69, 3.0	427.88, 5000.0
	428.69, 3.0	429.08, 5000.0	430.70, 3.0
	431.09, 5000.0	437.11, 3.0	437.49, 5000.0
	440.31, 3.0	440.70, 5000.0	443.52, 3.0
	443.90, 5000.0	445.53, 3.0	445.91, 5000.0
	446.72, 3.0	447.92, 5000.0	448.73, 3.0
	449.12, 5000.0	449.93, 3.0	450.31, 5000.0
	451.12, 3.0	469.16, 5000.0	469.97, 3.0
	470.36, 5000.0	499.65, 3.0	
155 deg:	29.98, 15.0	499.74, 5000.0	
160 deg:	31.96, 15.0	499.71, 5000.0	
165 deg:	33.90, 15.0	500.13, 5000.0	
170 deg:	33.24, 15.0	500.41, 5000.0	
175 deg:	31.92, 15.0	499.68, 5000.0	
180 deg:	30.89, 15.0	499.69, 5000.0	
185 deg:	29.16, 15.0	124.90, 5000.0	133.27, 8.0
	499.62, 5000.0		
190 deg:	29.46, 15.0	115.96, 5000.0	119.74, 8.0
	500.41, 5000.0		
195 deg:	17.71, 15.0	26.16, 5000.0	29.04, 15.0
	500.15, 5000.0		
200 deg:	17.95, 15.0	499.73, 5000.0	
205 deg:	16.81, 15.0	499.76, 5000.0	
210 deg:	14.36, 15.0	499.67, 5000.0	
215 deg:	14.00, 15.0	500.02, 5000.0	
220 deg:	13.74, 15.0	500.30, 5000.0	
225 deg:	12.38, 15.0	500.29, 5000.0	
230 deg:	12.34, 15.0	133.90, 5000.0	137.48, 8.0
	499.72, 5000.0		
235 deg:	11.78, 15.0	499.74, 5000.0	
240 deg:	11.27, 15.0	500.32, 5000.0	
245 deg:	12.21, 15.0	499.68, 5000.0	
250 deg:	11.86, 15.0	499.76, 5000.0	
255 deg:	12.32, 15.0	499.56, 5000.0	
260 deg:	13.64, 15.0	499.76, 5000.0	
265 deg:	13.52, 15.0	500.39, 5000.0	
270 deg:	14.24, 15.0	500.03, 5000.0	
275 deg:	13.00, 5.0*	20.00, 1.5*	31.99, 5000.0
	50.50, 8.0	499.62, 5000.0	
280 deg:	13.00, 5.0*	20.00, 1.5*	23.08, 15.0
	25.35, 8.0	26.11, 5000.0	75.15, 8.0
	499.95, 5000.0		
285 deg:	13.00, 5.0*	20.00, 1.5*	22.76, 15.0
	85.35, 8.0	198.22, 5000.0	202.89, 8.0
	500.21, 5000.0		
290 deg:	13.00, 5.0*	20.00, 1.5*	96.38, 8.0
	97.41, 5000.0	98.13, 8.0	99.88, 5000.0
	100.60, 8.0	131.40, 5000.0	135.31, 4.0
	219.40, 8.0	499.89, 5000.0	

295 deg:	18.38,	15.0	100.89,	8.0	158.43,	4.0
	158.81,	8.0	159.51,	4.0	226.78,	8.0
	500.07,	5000.0				
300 deg:	15.67,	15.0	16.34,	8.0	17.46,	15.0
	88.78,	8.0	184.59,	4.0	185.04,	8.0
	186.37,	4.0	186.82,	8.0	187.48,	4.0
	241.23,	8.0	500.33,	5000.0		
305 deg:	13.75,	15.0	78.91,	8.0	211.74,	4.0
	281.28,	8.0	282.42,	5000.0	306.56,	8.0
	307.07,	5000.0	307.70,	8.0	500.42,	5000.0
310 deg:	11.95,	15.0	70.38,	8.0	213.22,	4.0
	381.41,	8.0	417.47,	15.0	499.85,	5000.0
315 deg:	11.40,	15.0	63.59,	8.0	176.32,	4.0
	178.05,	8.0	178.70,	4.0	180.43,	8.0
	181.08,	4.0	370.80,	8.0	436.61,	15.0
	473.18,	5000.0	494.56,	8.0	495.19,	5000.0
	495.74,	8.0	498.62,	5000.0	499.79,	8.0
320 deg:	10.36,	15.0	60.13,	8.0	140.27,	4.0
	499.71,	8.0				
325 deg:	9.90,	15.0	55.94,	8.0	125.40,	4.0
	176.50,	8.0	176.94,	15.0	177.70,	8.0
	178.14,	15.0	178.89,	8.0	179.33,	15.0
	180.08,	8.0	192.77,	15.0	193.52,	8.0
	193.96,	15.0	450.86,	8.0	499.63,	15.0
330 deg:	9.08,	15.0	53.08,	8.0	117.60,	4.0
	164.65,	8.0	230.56,	15.0	387.19,	8.0
	500.09,	15.0				
335 deg:	8.75,	15.0	51.78,	8.0	117.43,	4.0
	172.69,	8.0	259.12,	15.0	365.12,	8.0
	470.38,	15.0	500.30,	8.0		
340 deg:	8.48,	15.0	50.02,	8.0	121.90,	4.0
	228.83,	8.0	296.22,	15.0	346.46,	8.0
	357.30,	15.0	357.56,	8.0	358.43,	15.0
	500.26,	8.0				
345 deg:	8.26,	15.0	48.62,	8.0	137.95,	4.0
	254.22,	8.0	303.14,	15.0	317.53,	2.0
	376.14,	8.0	376.34,	2.0	377.23,	8.0
	500.31,	2.0				
350 deg:	8.12,	15.0	47.63,	8.0	86.23,	4.0
	96.67,	8.0	170.07,	4.0	170.98,	8.0
	173.85,	4.0	175.67,	8.0	178.54,	4.0
	180.37,	8.0	182.32,	4.0	184.15,	8.0
	222.73,	4.0	460.12,	2.0	499.70,	4.0
355 deg:	8.04,	15.0	47.13,	8.0	78.71,	4.0
	78.78,	8.0	79.70,	4.0	106.67,	8.0
	223.82,	4.0	382.02,	2.0	500.19,	4.0

KSPA GROUND CONDUCTIVITY REPORT

Lat : 34-05-41 N

Lon : 117-36-46 W

Radius : 60 KM

* Includes measured conductivity data

<u>Bearing</u>	<u>kilometers, mS/m</u>	<u>kilometers, mS/m</u>	<u>kilometers, mS/m</u>	<u>kilometers, mS/m</u>
0 deg:	41.35,	4.0	59.88,	8.0
5 deg:	39.65,	4.0	60.09,	8.0
10 deg:	40.17,	4.0	59.86,	8.0
15 deg:	39.94,	4.0	60.12,	8.0
20 deg:	39.97,	4.0	59.73,	8.0
25 deg:	40.57,	4.0	60.08,	8.0
30 deg:	42.34,	4.0	59.76,	8.0
35 deg:	43.61,	4.0	59.93,	8.0
40 deg:	46.88,	4.0	60.09,	8.0
45 deg:	47.58,	4.0	59.96,	8.0
50 deg:	51.46,	4.0	60.30,	8.0
55 deg:	55.76,	4.0	59.96,	8.0
60 deg:	59.92,	4.0		
65 deg:	60.49,	4.0		
70 deg:	59.82,	4.0		
75 deg:	59.92,	4.0		
80 deg:	60.27,	4.0		
85 deg:	59.70,	4.0		
90 deg:	60.26,	4.0		
95 deg:	59.71,	4.0		
100 deg:	59.69,	4.0		
105 deg:	60.19,	4.0		
110 deg:	60.16,	4.0		
115 deg:	2.32,	4.0	2.99,	8.0
	5.47,	8.0	6.57,	4.0
	9.04,	4.0	9.73,	8.0
120 deg:	2.32,	4.0	2.99,	8.0
	10.15,	8.0	11.28,	4.0
	13.08,	4.0	14.41,	8.0
	16.20,	8.0	16.66,	4.0
	22.05,	4.0	23.37,	8.0
	25.16,	8.0	26.29,	4.0
	27.43,	4.0	31.68,	8.0
125 deg:	1.73,	4.0	2.99,	8.0
	37.92,	8.0	38.46,	4.0
	59.86,	4.0		
130 deg:	1.73,	4.0	51.40,	8.0
	52.59,	8.0	59.70,	4.0
135 deg:	1.73,	4.0	60.57,	8.0
140 deg:	1.73,	4.0	59.53,	8.0
145 deg:	1.33,	4.0	60.15,	8.0
150 deg:	1.33,	4.0	60.05,	8.0
155 deg:	1.33,	4.0	59.59,	8.0
160 deg:	1.33,	4.0	60.41,	8.0
165 deg:	1.33,	4.0	59.90,	8.0
170 deg:	1.33,	4.0	59.63,	8.0

Schwab Multimedia LLC

KWIF (A M), 1500 KHz, Culver City, California
FCC Form 301 Section III-A #10a Supporting Exhibit 17
Daytime Allocation Study Data, October 2020

Mueller Broadcast Design

613 S. La Grange Road
La Grange, Illinois 60525
(708) 352-2166

175 deg:	1.33,	4.0	57.08,	8.0	59.85,	15.0
180 deg:	1.32,	4.0	50.37,	8.0	59.64,	15.0
185 deg:	1.32,	4.0	45.93,	8.0	59.84,	15.0
190 deg:	1.32,	4.0	42.66,	8.0	59.62,	15.0
195 deg:	1.32,	4.0	41.49,	8.0	59.89,	15.0
200 deg:	1.32,	4.0	39.74,	8.0	60.39,	15.0
205 deg:	1.32,	4.0	38.35,	8.0	59.57,	15.0
210 deg:	47.50,	2.0*	60.03,	15.0		
215 deg:	47.50,	2.0*	59.36,	15.0	60.12,	5000.0
220 deg:	47.50,	2.0*	59.49,	15.0	59.99,	5000.0
225 deg:	47.50,	2.0*	59.34,	15.0	60.54,	5000.0
230 deg:	28.00,	2.0*	41.30,	3.0*	47.50,	2.0*
	58.47,	15.0	59.66,	5000.0		
235 deg:	28.00,	2.0*	41.30,	3.0*	59.82,	15.0
240 deg:	28.00,	2.0*	41.30,	3.0*	59.89,	15.0
245 deg:	28.00,	2.0*	41.30,	3.0*	42.01,	8.0
	59.78,	15.0				
250 deg:	28.00,	2.0*	41.30,	3.0*	41.30,	3.0*
	43.05,	8.0	60.11,	15.0		
255 deg:	41.30,	3.0*	46.56,	8.0	60.14,	15.0
260 deg:	41.30,	3.0*	50.24,	8.0	59.64,	15.0
265 deg:	41.30,	3.0*	55.84,	8.0	59.66,	15.0
270 deg:	31.90,	0.1*	41.30,	3.0*	60.21,	8.0
275 deg:	31.90,	0.1*	59.65,	8.0		
280 deg:	31.90,	0.1*	33.15,	8.0	35.41,	4.0
	60.22,	8.0				
285 deg:	31.90,	0.1*	59.87,	4.0		
290 deg:	31.90,	0.1*	59.77,	4.0		
295 deg:	60.45,	4.0				
300 deg:	59.87,	4.0				
305 deg:	59.91,	4.0				
310 deg:	60.26,	4.0				
315 deg:	59.92,	4.0				
320 deg:	60.05,	4.0				
325 deg:	59.90,	4.0				
330 deg:	55.38,	4.0	59.74,	8.0		
335 deg:	51.72,	4.0	60.05,	8.0		
340 deg:	46.83,	4.0	47.09,	8.0	47.96,	4.0
	59.71,	8.0				
345 deg:	45.69,	4.0	60.10,	8.0		
350 deg:	43.81,	4.0	59.85,	8.0		
355 deg:	42.42,	4.0	60.09,	8.0		

KSPE GROUND CONDUCTIVITY REPORT

Lat : 34-25-07 N

Lon : 119-41-10 W

Radius : 100 KM

* Includes measured conductivity data

Bearing	kilometers, mS/m	kilometers, mS/m	kilometers, mS/m
0 deg:	0.75, 5000.0	78.54, 4.0	99.85, 8.0
5 deg:	0.75, 5000.0	74.18, 4.0	100.22, 8.0
10 deg:	0.75, 5000.0	73.12, 4.0	100.50, 8.0
15 deg:	0.75, 5000.0	70.81, 4.0	99.62, 8.0
	99.62, 15.0		
20 deg:	0.75, 5000.0	70.64, 4.0	100.39, 8.0
25 deg:	0.75, 5000.0	69.24, 4.0	100.20, 8.0
30 deg:	0.75, 5000.0	71.22, 4.0	100.47, 8.0
35 deg:	0.75, 5000.0	74.53, 4.0	99.49, 8.0
40 deg:	0.75, 5000.0	77.25, 4.0	100.00, 8.0
45 deg:	0.75, 5000.0	81.05, 4.0	99.89, 8.0
50 deg:	0.75, 5000.0	90.69, 4.0	94.21, 8.0
	100.08, 4.0		
55 deg:	0.75, 5000.0	100.44, 4.0	
60 deg:	0.75, 5000.0	100.38, 4.0	
65 deg:	1.24, 5000.0	100.01, 4.0	
70 deg:	1.24, 5000.0	100.07, 4.0	
75 deg:	1.24, 5000.0	99.79, 4.0	
80 deg:	1.92, 5000.0	4.89, 4.0	7.32, 5000.0
	8.81, 4.0	9.57, 5000.0	100.12, 4.0
85 deg:	3.39, 5000.0	4.89, 4.0	10.98, 5000.0
	99.90, 4.0		
90 deg:	10.00, 6.0*	18.00, 20.0*	57.80, 5.0*
	59.11, 4.0	100.38, 8.0	
95 deg:	10.00, 6.0*	18.00, 20.0*	57.80, 5.0*
	100.11, 8.0		
100 deg:	10.00, 6.0*	18.00, 20.0*	57.80, 5.0*
	99.78, 8.0		
105 deg:	10.00, 6.0*	18.00, 20.0*	57.80, 5.0*
	100.17, 8.0		
110 deg:	70.00, 40.0*	90.00, 15.0*	91.90, 4.0*
	99.82, 8.0		
115 deg:	70.00, 40.0*	90.00, 15.0*	91.90, 4.0*
	99.57, 8.0	100.26, 5000.0	
120 deg:	70.00, 40.0*	90.00, 15.0*	91.90, 4.0*
	99.68, 5000.0		
125 deg:	70.00, 40.0*	90.00, 15.0*	91.90, 4.0*
	99.85, 5000.0		
130 deg:	99.59, 5000.0		
135 deg:	99.49, 5000.0		
140 deg:	100.18, 5000.0		
145 deg:	99.69, 5000.0		
150 deg:	99.51, 5000.0		
155 deg:	100.12, 5000.0		
160 deg:	99.78, 5000.0		
165 deg:	99.91, 5000.0		
170 deg:	48.26, 5000.0	49.17, 8.0	99.91, 5000.0

Schwab Multimedia LLC

KWIF (A M), 1500 KHz, Culver City, California
FCC Form 301 Section III-A #10a Supporting Exhibit 17
Daytime Allocation Study Data, October 2020

Mueller Broadcast Design

613 S. La Grange Road
La Grange, Illinois 60525
(708) 352-2166

175 deg:	47.64, 5000.0	48.57, 8.0	99.73, 5000.0
180 deg:	47.47, 5000.0	49.32, 8.0	100.28, 5000.0
185 deg:	47.67, 5000.0	51.36, 8.0	99.76, 5000.0
190 deg:	48.17, 5000.0	51.95, 8.0	99.95, 5000.0
195 deg:	0.55, 5000.0	1.25, 4.0	49.16, 5000.0
	52.04, 8.0	99.98, 5000.0	
200 deg:	0.55, 5000.0	1.25, 4.0	50.55, 5000.0
	52.29, 8.0	99.87, 5000.0	
205 deg:	0.55, 5000.0	1.25, 4.0	100.23, 5000.0
210 deg:	0.55, 5000.0	1.25, 4.0	55.58, 5000.0
	55.96, 8.0	56.76, 5000.0	63.12, 8.0
	99.63, 5000.0		
215 deg:	0.55, 5000.0	1.25, 4.0	57.64, 5000.0
	71.15, 8.0	99.84, 5000.0	
220 deg:	0.55, 5000.0	1.25, 4.0	61.81, 5000.0
	71.44, 8.0	100.35, 5000.0	
225 deg:	0.55, 5000.0	1.25, 4.0	66.98, 5000.0
	69.37, 8.0	99.67, 5000.0	
230 deg:	0.55, 5000.0	1.71, 4.0	99.78, 5000.0
235 deg:	0.55, 5000.0	1.71, 4.0	100.06, 5000.0
240 deg:	0.55, 5000.0	1.71, 4.0	99.90, 5000.0
245 deg:	0.55, 5000.0	2.34, 4.0	99.80, 5000.0
250 deg:	0.55, 5000.0	2.34, 4.0	100.06, 5000.0
255 deg:	0.55, 5000.0	3.03, 4.0	99.67, 5000.0
260 deg:	0.55, 5000.0	2.81, 4.0	100.03, 5000.0
265 deg:	0.55, 5000.0	2.81, 4.0	100.37, 5000.0
270 deg:	0.55, 5000.0	2.81, 4.0	99.87, 5000.0
275 deg:	0.55, 5000.0	2.81, 4.0	2.89, 5000.0
	4.39, 4.0	19.68, 8.0	24.33, 5000.0
	25.86, 8.0	58.82, 5000.0	73.36, 8.0
	100.15, 5000.0		
280 deg:	0.55, 5000.0	4.39, 4.0	79.59, 8.0
	99.62, 5000.0		
285 deg:	0.55, 5000.0	4.39, 4.0	90.49, 8.0
	100.04, 5000.0		
290 deg:	0.55, 5000.0	5.35, 4.0	90.45, 8.0
	100.31, 5000.0		
295 deg:	0.55, 5000.0	6.40, 4.0	7.49, 8.0
	8.17, 4.0	95.32, 8.0	99.55, 5000.0
300 deg:	0.87, 5000.0	8.61, 4.0	96.38, 8.0
	99.94, 5000.0		
305 deg:	0.87, 5000.0	9.75, 4.0	100.02, 8.0
310 deg:	0.87, 5000.0	15.58, 4.0	99.69, 8.0
315 deg:	0.87, 5000.0	25.08, 4.0	25.73, 8.0
	26.27, 4.0	26.92, 8.0	27.46, 4.0
	28.12, 8.0	29.85, 4.0	100.07, 8.0
320 deg:	0.87, 5000.0	50.56, 4.0	52.96, 8.0
	53.45, 4.0	54.16, 8.0	55.85, 4.0
	100.16, 8.0		
325 deg:	0.87, 5000.0	87.38, 4.0	99.64, 8.0
330 deg:	0.87, 5000.0	97.05, 4.0	100.21, 8.0
335 deg:	0.87, 5000.0	99.99, 4.0	
340 deg:	0.87, 5000.0	100.48, 4.0	

345 deg:	0.87, 5000.0	97.70,	4.0	99.69,	8.0
350 deg:	0.75, 5000.0	90.11,	4.0	100.41,	8.0
355 deg:	0.75, 5000.0	83.49,	4.0	100.24,	8.0

KKZZ GROUND CONDUCTIVITY REPORT

Lat : 34-10-02 N

Lon : 119-08-02 W

Radius : 100 KM

<u>Bearing</u>	<u>kilometers, mS/m</u>	<u>kilometers, mS/m</u>	<u>kilometers, mS/m</u>
0 deg:	27.73, 8.0	86.10, 4.0	100.00, 8.0
5 deg:	27.83, 8.0	85.52, 4.0	100.36, 8.0
10 deg:	28.12, 8.0	87.45, 4.0	99.71, 8.0
15 deg:	28.78, 8.0	94.87, 4.0	99.74, 8.0
20 deg:	30.62, 8.0	99.63, 4.0	
25 deg:	31.50, 8.0	100.31, 4.0	
30 deg:	33.27, 8.0	99.77, 4.0	
35 deg:	34.92, 8.0	96.45, 4.0	99.60, 8.0
40 deg:	37.24, 8.0	89.82, 4.0	100.11, 8.0
45 deg:	40.33, 8.0	40.87, 4.0	41.52, 8.0
	90.57, 4.0	100.00, 8.0	
50 deg:	46.03, 8.0	91.38, 4.0	100.20, 8.0
55 deg:	51.49, 8.0	96.48, 4.0	99.94, 8.0
60 deg:	61.03, 8.0	100.51, 4.0	
65 deg:	71.90, 8.0	100.14, 4.0	
70 deg:	78.99, 8.0	99.88, 4.0	
75 deg:	73.63, 8.0	99.69, 4.0	
80 deg:	74.72, 8.0	100.24, 4.0	
85 deg:	83.90, 8.0	100.01, 4.0	
90 deg:	99.72, 8.0		
95 deg:	100.19, 8.0		
100 deg:	55.46, 8.0	91.20, 15.0	91.37, 8.0
	92.88, 15.0	99.84, 8.0	
105 deg:	49.36, 8.0	50.10, 5000.0	51.83, 8.0
	57.26, 5000.0	100.21, 15.0	
110 deg:	41.91, 8.0	67.85, 5000.0	99.84, 15.0
115 deg:	36.63, 8.0	72.84, 5000.0	100.25, 15.0
120 deg:	21.58, 8.0	22.91, 5000.0	23.37, 8.0
	26.49, 5000.0	26.96, 8.0	78.54, 5000.0
	95.38, 15.0	99.64, 5000.0	
125 deg:	11.34, 8.0	11.97, 5000.0	16.70, 8.0
	99.79, 5000.0		
130 deg:	9.55, 8.0	14.85, 5000.0	15.45, 8.0
	100.11, 5000.0		
135 deg:	9.01, 8.0	100.04, 5000.0	
140 deg:	8.50, 8.0	100.05, 5000.0	
145 deg:	8.03, 8.0	100.31, 5000.0	
150 deg:	7.61, 8.0	100.53, 5000.0	
155 deg:	7.25, 8.0	100.27, 5000.0	
160 deg:	5.84, 8.0	6.09, 5000.0	6.96, 8.0
	99.60, 5000.0		
165 deg:	5.84, 8.0	99.73, 5000.0	

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170 deg:	5.68,	8.0	99.73,	5000.0		
175 deg:	4.69,	8.0	4.76,	5000.0	5.68,	8.0
	99.56,	5000.0				
180 deg:	4.69,	8.0	100.12,	5000.0		
185 deg:	4.75,	8.0	99.55,	5000.0		
190 deg:	4.75,	8.0	99.71,	5000.0		
195 deg:	4.92,	8.0	99.70,	5000.0		
200 deg:	4.05,	8.0	99.57,	5000.0		
205 deg:	4.05,	8.0	100.23,	5000.0		
210 deg:	4.39,	8.0	100.48,	5000.0		
215 deg:	4.39,	8.0	100.25,	5000.0		
220 deg:	4.83,	8.0	99.99,	5000.0		
225 deg:	5.34,	8.0	100.51,	5000.0		
230 deg:	4.73,	8.0	100.03,	5000.0		
235 deg:	4.73,	8.0	99.71,	5000.0		
240 deg:	5.36,	8.0	99.55,	5000.0		
245 deg:	5.65,	8.0	46.45,	5000.0	47.54,	8.0
	48.93,	5000.0	49.33,	8.0	100.16,	5000.0
250 deg:	5.65,	8.0	55.66,	5000.0	66.32,	8.0
	99.74,	5000.0				
255 deg:	5.41,	8.0	81.10,	5000.0	100.11,	8.0
260 deg:	5.41,	8.0	99.74,	5000.0		
265 deg:	6.92,	8.0	100.09,	5000.0		
270 deg:	7.62,	8.0	100.38,	5000.0		
275 deg:	9.19,	8.0	99.90,	5000.0		
280 deg:	9.32,	8.0	100.14,	5000.0		
285 deg:	9.54,	8.0	99.59,	5000.0		
290 deg:	10.56,	8.0	99.79,	5000.0		
295 deg:	10.92,	8.0	67.56,	5000.0	100.04,	8.0
300 deg:	11.33,	8.0	57.37,	5000.0	67.63,	4.0
	68.09,	8.0	68.75,	4.0	100.42,	8.0
305 deg:	12.96,	8.0	14.12,	5000.0	14.75,	8.0
	52.04,	5000.0	88.12,	4.0	88.64,	8.0
	89.27,	4.0	100.48,	8.0		
310 deg:	15.86,	8.0	21.18,	5000.0	23.54,	8.0
	27.08,	5000.0	39.46,	8.0	100.12,	4.0
315 deg:	36.13,	8.0	99.93,	4.0		
320 deg:	33.57,	8.0	100.54,	4.0		
325 deg:	31.71,	8.0	99.98,	4.0		
330 deg:	29.66,	8.0	99.72,	4.0		
335 deg:	29.78,	8.0	100.27,	4.0		
340 deg:	29.45,	8.0	99.60,	4.0		
345 deg:	28.76,	8.0	95.94,	4.0	99.71,	8.0
350 deg:	28.10,	8.0	91.22,	4.0	99.69,	8.0
355 deg:	27.82,	8.0	89.20,	4.0	100.41,	8.0

XEEBC GROUND CONDUCTIVITY REPORT

Lat : 31-51-10 N

Lon : 116-38-09 W

Radius : 350 KM

Bearing	kilometers, mS/m		kilometers, mS/m		kilometers, mS/m	
0 deg:	78.44,	5.0	101.61,	8.0	216.49,	4.0
	240.58,	2.0	273.94,	4.0	399.94,	8.0
5 deg:	79.70,	5.0	199.65,	4.0	261.03,	2.0
	399.68,	8.0				
10 deg:	74.91,	5.0	81.57,	20.0	187.00,	4.0
	189.73,	15.0	248.18,	2.0	399.84,	8.0
15 deg:	71.76,	5.0	84.20,	20.0	169.68,	4.0
	216.53,	15.0	216.73,	2.0	217.63,	15.0
	239.60,	2.0	400.31,	8.0		
20 deg:	69.65,	5.0	87.46,	20.0	155.52,	4.0
	235.55,	15.0	235.82,	8.0	236.69,	15.0
	399.93,	8.0				
25 deg:	68.02,	5.0	91.62,	20.0	143.99,	4.0
	254.93,	15.0	389.80,	8.0	400.13,	15.0
30 deg:	66.08,	5.0	97.16,	20.0	138.97,	4.0
	275.66,	15.0	353.34,	8.0	400.03,	15.0
35 deg:	65.51,	5.0	103.87,	20.0	133.44,	4.0
	298.93,	15.0	323.23,	8.0	399.93,	15.0
40 deg:	66.20,	5.0	113.47,	20.0	129.72,	4.0
	399.91,	15.0				
45 deg:	64.91,	5.0	124.24,	20.0	128.42,	4.0
	399.64,	15.0				
50 deg:	64.08,	5.0	141.17,	20.0	400.09,	15.0
55 deg:	64.39,	5.0	163.42,	20.0	400.21,	15.0
60 deg:	65.72,	5.0	195.88,	20.0	400.42,	15.0
65 deg:	67.06,	5.0	188.25,	20.0	202.64,	15.0
	236.08,	8.0	400.14,	15.0		
70 deg:	69.66,	5.0	186.81,	20.0	191.55,	15.0
	199.10,	5.0	342.22,	8.0	400.17,	15.0
75 deg:	72.54,	5.0	186.82,	20.0	200.41,	15.0
	223.78,	5.0	345.24,	8.0	399.63,	15.0
80 deg:	75.24,	5.0	77.72,	3.0	182.71,	20.0
	212.10,	15.0	254.16,	5.0	254.93,	8.0
	255.71,	5.0	349.04,	8.0	399.66,	15.0
85 deg:	62.61,	5.0	102.03,	3.0	176.92,	20.0
	243.09,	15.0	263.53,	5.0	264.37,	15.0
	267.51,	5.0	302.89,	15.0	354.01,	8.0
	400.40,	15.0				
90 deg:	58.47,	5.0	111.20,	3.0	169.45,	20.0
	170.24,	5000.0	400.22,	15.0		
95 deg:	58.69,	5.0	126.74,	3.0	162.39,	20.0
	201.29,	5000.0	399.98,	15.0		
100 deg:	58.66,	5.0	166.10,	3.0	298.27,	5000.0
	400.32,	15.0				

105 deg:	59.68,	5.0	168.75,	3.0	342.98,	5000.0
	400.29,	15.0				
110 deg:	61.66,	5.0	172.24,	3.0	362.14,	5000.0
	400.22,	15.0				
115 deg:	61.30,	5.0	177.78,	3.0	400.21,	5000.0
120 deg:	62.06,	5.0	194.64,	3.0	399.88,	5000.0
125 deg:	62.54,	5.0	217.93,	3.0	400.16,	5000.0
130 deg:	64.04,	5.0	241.34,	3.0	397.24,	5000.0
	400.28,	3.0				
135 deg:	65.49,	5.0	274.55,	3.0	328.21,	5000.0
	400.26,	3.0				
140 deg:	68.03,	5.0	400.17,	3.0		
145 deg:	70.08,	5.0	399.87,	3.0		
150 deg:	73.10,	5.0	317.64,	3.0	318.03,	5000.0
	318.84,	3.0	400.48,	5000.0		
155 deg:	74.69,	5.0	280.78,	3.0	399.57,	5000.0
160 deg:	76.32,	5.0	98.79,	3.0	99.93,	5000.0
	101.67,	3.0	101.94,	5000.0	102.81,	3.0
	399.87,	5000.0				
165 deg:	66.40,	5.0	399.88,	5000.0		
170 deg:	52.04,	5.0	399.96,	5000.0		
175 deg:	42.14,	5.0	400.14,	5000.0		
180 deg:	34.59,	5.0	399.63,	5000.0		
185 deg:	29.18,	5.0	400.17,	5000.0		
190 deg:	23.90,	5.0	399.88,	5000.0		
195 deg:	22.45,	5.0	399.76,	5000.0		
200 deg:	19.18,	5.0	399.71,	5000.0		
205 deg:	17.78,	5.0	399.71,	5000.0		
210 deg:	16.52,	5.0	339.90,	5000.0	340.30,	8.0
	341.11,	5000.0	351.96,	8.0	400.24,	5000.0
215 deg:	15.41,	5.0	400.05,	5000.0		
220 deg:	15.18,	5.0	400.37,	5000.0		
225 deg:	14.50,	5.0	399.92,	5000.0		
230 deg:	13.82,	5.0	399.92,	5000.0		
235 deg:	13.91,	5.0	400.42,	5000.0		
240 deg:	13.42,	5.0	400.15,	5000.0		
245 deg:	13.68,	5.0	399.78,	5000.0		
250 deg:	13.31,	5.0	400.51,	5000.0		
255 deg:	13.50,	5.0	399.84,	5000.0		
260 deg:	14.10,	5.0	399.85,	5000.0		
265 deg:	14.77,	5.0	400.30,	5000.0		
270 deg:	14.72,	5.0	399.75,	5000.0		
275 deg:	15.58,	5.0	399.93,	5000.0		
280 deg:	16.47,	5.0	399.97,	5000.0		
285 deg:	17.61,	5.0	399.94,	5000.0		
290 deg:	18.90,	5.0	399.73,	5000.0		
295 deg:	21.39,	5.0	400.42,	5000.0		
300 deg:	24.06,	5.0	400.02,	5000.0		
305 deg:	27.35,	5.0	27.88,	5000.0	28.52,	5.0
	209.30,	5000.0	209.82,	8.0	211.11,	5000.0
	211.62,	8.0	212.27,	5000.0	221.82,	8.0
	399.83,	5000.0				

310 deg:	32.59, 5.0	371.95, 5000.0	377.87, 8.0
	400.33, 5000.0		
315 deg:	39.28, 5.0	39.93, 5000.0	40.49, 5.0
	399.86, 5000.0		
320 deg:	49.41, 5.0	50.12, 5000.0	50.63, 5.0
	321.41, 5000.0	323.12, 8.0	324.32, 5000.0
	375.79, 8.0	399.60, 4.0	
325 deg:	67.66, 5.0	258.86, 5000.0	305.86, 15.0
	351.60, 8.0	400.11, 4.0	
330 deg:	82.98, 5.0	90.94, 15.0	91.74, 5000.0
	92.94, 15.0	93.74, 5000.0	94.13, 15.0
	107.68, 5000.0	115.25, 15.0	220.64, 5000.0
	279.79, 15.0	318.64, 8.0	319.04, 4.0
	333.70, 8.0	400.19, 4.0	
335 deg:	80.54, 5.0	142.12, 15.0	143.79, 5000.0
	144.12, 15.0	168.54, 5000.0	229.19, 15.0
	281.43, 8.0	342.30, 4.0	386.44, 8.0
	399.93, 4.0		
340 deg:	78.67, 5.0	156.50, 15.0	156.77, 8.0
	158.50, 15.0	265.19, 8.0	313.88, 4.0
	398.90, 8.0	400.03, 4.0	
345 deg:	79.20, 5.0	79.40, 8.0	80.29, 15.0
	239.68, 8.0	297.35, 4.0	400.19, 8.0
350 deg:	76.79, 5.0	187.83, 8.0	187.96, 4.0
	189.79, 8.0	286.70, 4.0	399.76, 8.0
355 deg:	76.89, 5.0	141.05, 8.0	278.73, 4.0
	399.64, 8.0		