K259CF
MINOR MODIFICATION

Allocation discussion:

All exhibits utilize the V-Soft provided Globe 30 second terrain database which is the default terrain database for the FCC web based HAAT tool.

E1	Channel study
E1A1	KIOO interference plot and FMOVER
W1A2	Muscatel, CA BNPFT-20030317HHA plot and FMOVER
E1B	KWDO analysis
E1C	Aerial view of interference area
E1D	DA tabulation
E2	Contours

K259CF is a non-fill in translator for FM station KYAF. A channel study is included demonstrating compliance with §74.1204. Analysis of 2nd adjacent channel stations KWDO is provided below.

§74.1235 compliance is demonstrated below:

N 36-47-56 W 119-47-24
FCC FM 2-10 MILES 51 points Method - GLOBE 30 SEC

Azi.	AV EL	HAAT	ERP kW	Field	60-F5	§74.1235(b(1) MAXIMUM MERP
000	106.7	21.3	0.0978	0.737	5.60	0.250
030	114.9	13.1	0.1455	0.899	6.19	0.250
060	114.4	13.6	0.1722	0.978	6.46	0.250
090	108.9	19.1	0.1800	1.000	6.53	0.250
120	102.2	25.8	0.1722	0.978	6.46	0.250
150	93.2	34.8	0.1455	0.899	6.61	0.170
180	87.9	40.1	0.0978	0.737	6.42	0.120
210	86.0	42.0	0.0413	0.479	5.34	0.120
240	85.4	42.6	0.0292	0.403	4.93	0.120
270	85.8	42.2	0.0289	0.401	4.90	0.120
300	94.0	34.0	0.0292	0.403	4.36	0.170
330	100.5	27.5	0.0413	0.479	4.47	0.250

Ave El= 98.32 M HAAT= 29.68 M AMSL= 128 M

KW DO analysis:

The proposed facility will be located inside the protected contour of 2nd adjacent channel stations KWDO on channel 257BI. Therefore, an interference analysis has been conducted based on the U/D ratio of +40 dB at the proposed site. The KWDO contour at the proposed site is 86.9 dBu and the (50,10) interference contour is 126.9 dBu. Exhibit E1B demonstrates that this interfering contour is at least 11.2 meters above ground while the building on which the tower is mounted is 6 meters (see E1C) .

Clearly, this interference contour will not reach any populated area or major highways. Based on this showing a waiver of Section 74.1204 is requested in accordance with *Living Way Ministries, Inc.* (FCC 08-242).

RF Exposure Calculation:

The proposed facility will use using a single bay Nicom BKG1/P antenna mounted at a 45 degree slant at 32 meters AGL and 24 meters above the building on which the tower is mounted. The RF contribution of the proposed translator was calculated to be 24.8 *u*Watts/cm^2 using the formula included below and a worst case vertical factor of 1.0. This is 12.4% of the maximum permissible 200 *u*Watts/cm^2 exposure for general population/uncontrolled exposure.

$$S\ (RF\ in\ uWatts/cm^2) = \frac{33.4\ (F^2\ Vertical\ Factor)\ X\ (H\ ERP + V\ ERP\ in\ Watts)}{R^2\ (distance\ to\ radiation\ center\ in\ meters - 2\ m)}$$

The proposed translator facility complies with Commission RF radiation limits.

Charles M. Anderson 1/16/2018

E1 CHANNEL STUDY

REFERENCE CH# 259D - 99.7 MHz, Pwr= 0.18 kW DA, HAAT= 29.7 M, COR= 128 M DISPLAY DATES
36 47 56.0 N. Average Protected F(50-50)= 6.53 km DATA 01-15-18
119 47 24.0 W. Standard Directional SEARCH 01-15-18

CH CALL / CITY	TYPE ANT / STATE	AZI / <--	DIST / FILE #	LAT / LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
259B KIOO	LIC _CX	138.3	102.67	36 06 26.0	25.000	136.7	70.1	-40.6*	0.7
Porterville	CA	318.7	BLH20130826AFC	119 01 45.0	214	385	Momentum Broadcasting Lp		
257B1 KWDO	LIC NCX	177.0	7.08	36 44 07.0	14.500	3.3	37.9	-2.7	-31.9*
Fresno	CA	357.0	BLH20040112ACI	119 47 09.0	105	185	John Edward Ostlund		

See E1B and E1C for disproval of interference to KWDO per *Living Way*.

259D K259CF	LIC _V_	188.4	5.41	36 45 02.4	0.125	19.8	6.0	-20.5*	-21.1*
South Fresno	CA	8.3	BLFT20170731AHF	119 47 55.8		110	Gary M. Cocola		
260B KCIV	LIC _CX	345.8	84.26	37 32 00.0	1.900	84.1	70.5	-5.2	2.6
Mount Bullion	CA	165.6	BLH20030228ABH	120 01 29.0	638	1337	Bott Communications, Inc.		
262D 1564460	APP _C_	253.8	5.76	36 47 04.0	0.055	0.5	4.8	0.2	0.6
Muscatel	CA	73.8	BNPFT20030317HHA	119 51 08.0	51	129	Juan Alberto Ayala		
261D 1551165	APP _C_	289.9	12.09	36 50 09.0	0.250	1.1	7.1	6.3	4.6
West Fresno	CA	109.8	BNPFT20030313ATO	119 55 04.0	44	122	Big Broadcasting, Inc.		
262A KMAK	LIC _CN	97.3	45.55	36 44 45.0	0.072	0.6	28.3	38.4	16.3
Orange Cove	CA	277.6	BLH19900911KB	119 16 58.0	632	1036	Kmak-fm, Llc		
261B KNGS	CP _CN	196.3	91.19	36 00 40.0	19.000	6.5	72.7	78.6	17.3
Coalinga	CA	16.1	BMPH19940217IB	120 04 26.0	242	457	William L. Zawila		
261D K261EH	LIC _C_	82.5	27.59	36 49 51.0	0.002	0.1	2.8	21.0	23.8
Clovis	CA	262.7	BLFT20170110AAG	119 28 57.0		178	Richard B. Smith		

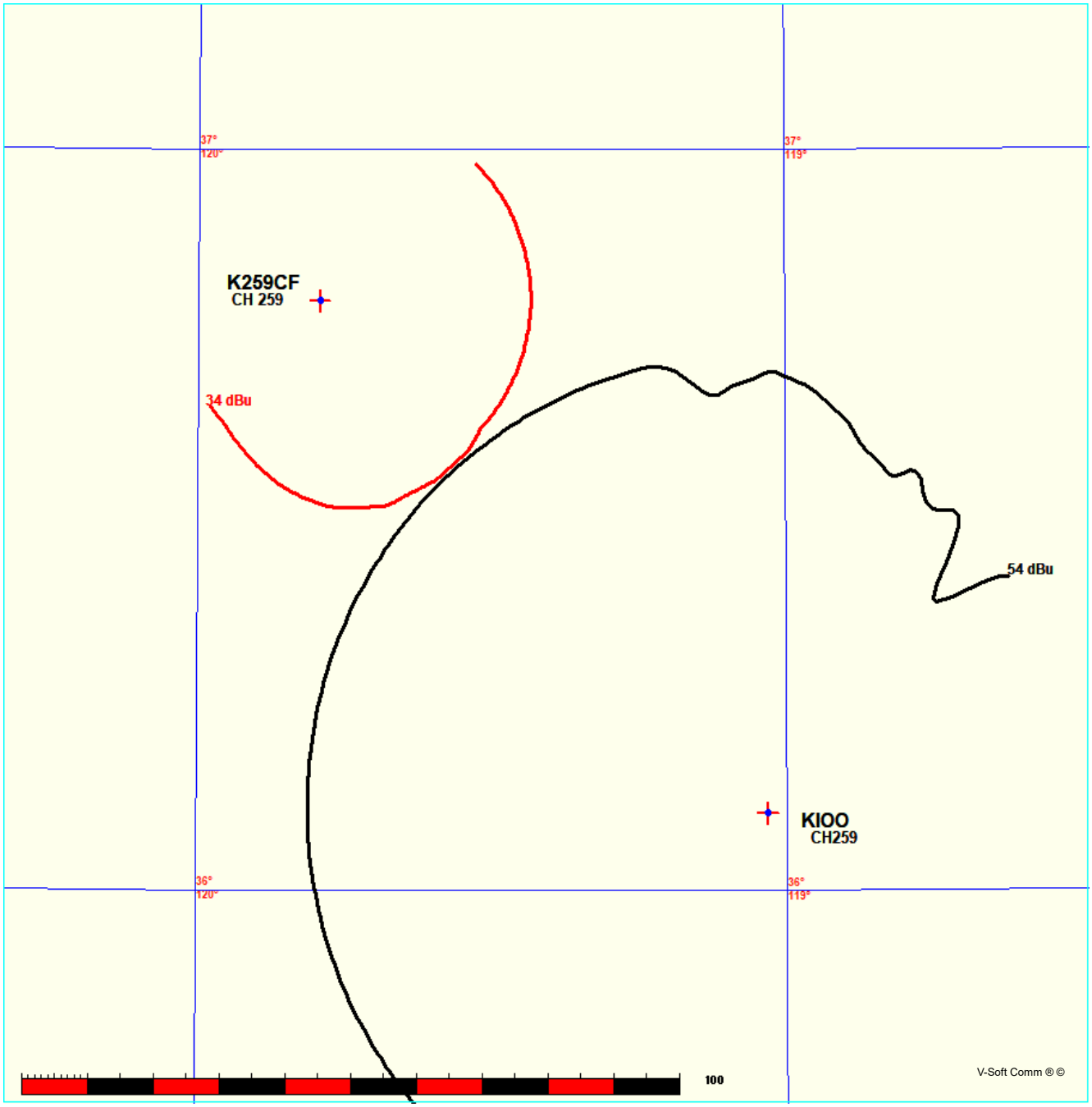
Terrain database is GLOBE 30 Sec , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference zone= East Zone 2A, Co to 3rd adjacent.
All separation margins (if shown) include rounding.
Ant Column: (D= DA Standard, 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.

E1A1 KIOO INTERFERENCE PLOT

FMCommander Single Allocation Study - 01-16-2018 - GLOBE 30 Sec
K259CF's Overlaps (In= -40.62 km, Out= 0.71 km)

K259CF CH 259 D DA
Lat= 36 47 56.0, Lng= 119 47 24.0
0.18 kW 29.7 m HAAT, 128 m COR
Prot.= 60 dBu, Intef.= 34 dBu

KIOO CH 259 B BLH20130826AFC
Lat= 36 06 26.0, Lng= 119 01 45.0
25.0 kW 214 m HAAT, 385 m COR
Prot.= 54 dBu, Intef.= 40 dBu



E1A1 KIOO FMOVER

01-16-2018 Terrain Data: GLOBE 30 Sec FMOver Analysis

KIOO BLH20130826AFC	K259CF
Channel = 259B	Channel = 259D
Max ERP = 25 kW	Max ERP = 0.18 kW
RCAMSL = 385 m	RCAMSL = 128 m
N. Lat. 36 06 26.0	N. Lat. 36 47 56.0
W. Lng. 119 01 45.0	W. Lng. 119 47 24.0
Protected	Interfering
54 dBu	34 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
305.0	025.0000	0276.0	070.4	164.2	000.1252	0038.2	038.2	31.80	
306.0	025.0000	0275.9	070.4	162.8	000.1275	0038.2	037.4	32.13	
307.0	025.0000	0275.7	070.4	161.2	000.1300	0037.8	036.7	32.39	
308.0	025.0000	0275.6	070.3	159.6	000.1325	0037.2	036.0	32.60	
309.0	025.0000	0275.4	070.3	157.9	000.1347	0036.6	035.4	32.78	
310.0	025.0000	0275.2	070.3	156.1	000.1371	0035.9	034.9	32.93	
311.0	025.0000	0275.0	070.3	154.2	000.1396	0035.5	034.3	33.11	
312.0	025.0000	0274.8	070.3	152.3	000.1423	0035.3	033.9	33.32	
313.0	025.0000	0274.6	070.3	150.3	000.1450	0034.8	033.5	33.46	
314.0	025.0000	0274.3	070.2	148.3	000.1477	0034.6	033.2	33.61	
315.0	025.0000	0274.0	070.2	146.2	000.1504	0034.3	032.9	33.72	
316.0	025.0000	0273.8	070.2	144.1	000.1532	0033.5	032.7	33.72	
317.0	025.0000	0273.5	070.2	142.0	000.1560	0032.9	032.6	33.70	
318.0	025.0000	0273.2	070.1	139.8	000.1588	0032.4	032.6	33.70	
319.0	025.0000	0272.9	070.1	137.7	000.1606	0032.2	032.6	33.69	
320.0	025.0000	0272.5	070.1	135.5	000.1624	0032.0	032.7	33.65	
321.0	025.0000	0272.2	070.1	133.4	000.1641	0031.3	032.8	33.51	
322.0	025.0000	0271.9	070.0	131.3	000.1658	0030.7	033.0	33.32	
323.0	025.0000	0271.6	070.0	129.2	000.1673	0029.8	033.3	33.11	
324.0	025.0000	0271.2	070.0	127.2	000.1684	0028.7	033.6	33.00	
325.0	025.0000	0270.8	069.9	125.3	000.1694	0027.5	034.0	32.88	
326.0	025.0000	0270.4	069.9	123.4	000.1704	0026.6	034.5	32.73	
327.0	025.0000	0270.1	069.9	121.6	000.1713	0026.0	035.0	32.57	
328.0	025.0000	0269.7	069.8	119.8	000.1722	0025.8	035.6	32.39	
329.0	025.0000	0269.3	069.8	118.1	000.1729	0025.7	036.2	32.18	
330.0	025.0000	0269.0	069.8	116.5	000.1735	0025.7	036.9	31.96	

E1A2 KIOO INTERFERENCE PLOT

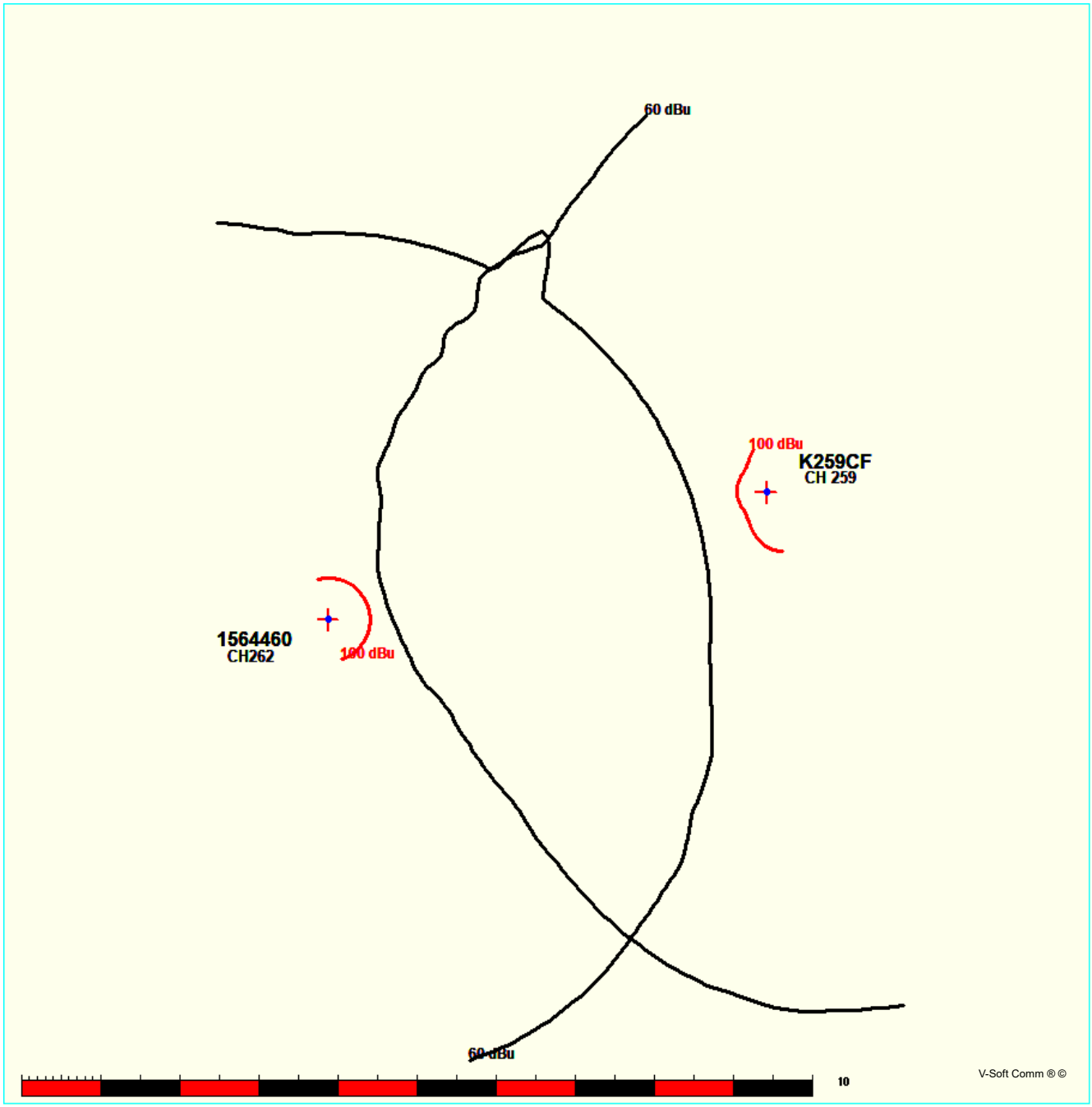
FMCommander Single Allocation Study - 01-16-2018 - GLOBE 30 Sec
K259CF's Overlaps (In= 0.24 km, Out= 0.56 km)

K259CF CH 259 D DA

Lat= 36 47 56.0, Lng= 119 47 24.0
0.18 kW 29.7 m HAAT, 128 m COR
Prot.= 60 dBu, Intef.= 100 dBu

CH 262 D BNPFT20030317HHA

Lat= 36 47 04.0, Lng= 119 51 08.0
0.055 kW 51.1 m HAAT, 129 m COR
Prot.= 60 dBu, Intef.= 100 dBu



E1A2 FMOVER ANALYSIS TO AND FROM BNPFT-20030317HHA

01-16-2018 Terrain Data: GLOBE 30 Sec FMOver Analysis

K259CF

Channel = 259D
Max ERP = 0.18 kW
RCAMSL = 128 m
N. Lat. 36 47 56.0
W. Lng. 119 47 24.0
Protected
60 dBu

BNPFT20030317HHA

Channel = 262D
Max ERP = 0.055 kW
RCAMSL = 129 m
N. Lat. 36 47 04.0
W. Lng. 119 51 08.0
Interfering
100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
247.0	000.0287	0043.6	005.0	109.4	000.0550	0033.8	001.0	94.15	
248.0	000.0287	0043.7	005.0	105.7	000.0550	0032.7	001.0	94.67	
249.0	000.0286	0043.8	005.0	101.4	000.0550	0031.3	000.9	95.16	
250.0	000.0285	0043.9	005.0	096.7	000.0550	0030.4	000.9	95.61	
251.0	000.0286	0044.1	005.0	091.5	000.0550	0029.3	000.8	96.08	
252.0	000.0287	0044.1	005.0	085.7	000.0550	0028.4	000.8	96.43	
253.0	000.0288	0044.1	005.0	079.4	000.0550	0027.0	000.8	96.65	
254.0	000.0289	0044.1	005.0	072.8	000.0550	0026.2	000.8	96.73	
255.0	000.0289	0044.1	005.0	066.2	000.0550	0024.5	000.8	96.66	
256.0	000.0290	0044.1	005.0	059.8	000.0550	0023.9	000.8	96.53	
257.0	000.0291	0044.1	005.0	053.6	000.0550	0022.7	000.8	96.26	
258.0	000.0292	0044.1	005.0	048.1	000.0550	0021.3	000.8	95.86	
259.0	000.0293	0044.0	005.0	043.4	000.0550	0020.8	000.9	95.33	
260.0	000.0294	0043.7	005.0	039.7	000.0550	0021.6	001.0	94.71	

BNFT20030317HHA

Channel = 262D
Max ERP = 0.055 kW
RCAMSL = 129 m
N. Lat. 36 47 04.0
W. Lng. 119 51 08.0
Protected
60 dBu

K259CF

Channel = 259D
Max ERP = 0.18 kW
RCAMSL = 128 m
N. Lat. 36 47 56.0
W. Lng. 119 47 24.0
Interfering
100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
072.0	000.0550	0026.0	004.8	263.1	000.0292	0042.7	001.0	92.00	
073.0	000.0550	0026.3	004.8	258.0	000.0292	0044.1	000.9	92.10	
074.0	000.0550	0026.5	004.8	252.9	000.0288	0044.1	000.9	92.06	
075.0	000.0550	0026.7	004.8	247.8	000.0287	0043.7	000.9	91.99	
076.0	000.0550	0026.8	004.8	242.8	000.0290	0043.3	001.0	91.91	
077.0	000.0550	0026.8	004.8	238.0	000.0291	0041.9	001.0	91.71	
078.0	000.0550	0026.9	004.8	233.5	000.0289	0042.2	001.0	91.40	
079.0	000.0550	0027.0	004.8	229.3	000.0289	0042.8	001.1	91.08	
080.0	000.0550	0027.1	004.8	225.5	000.0302	0042.6	001.1	90.92	

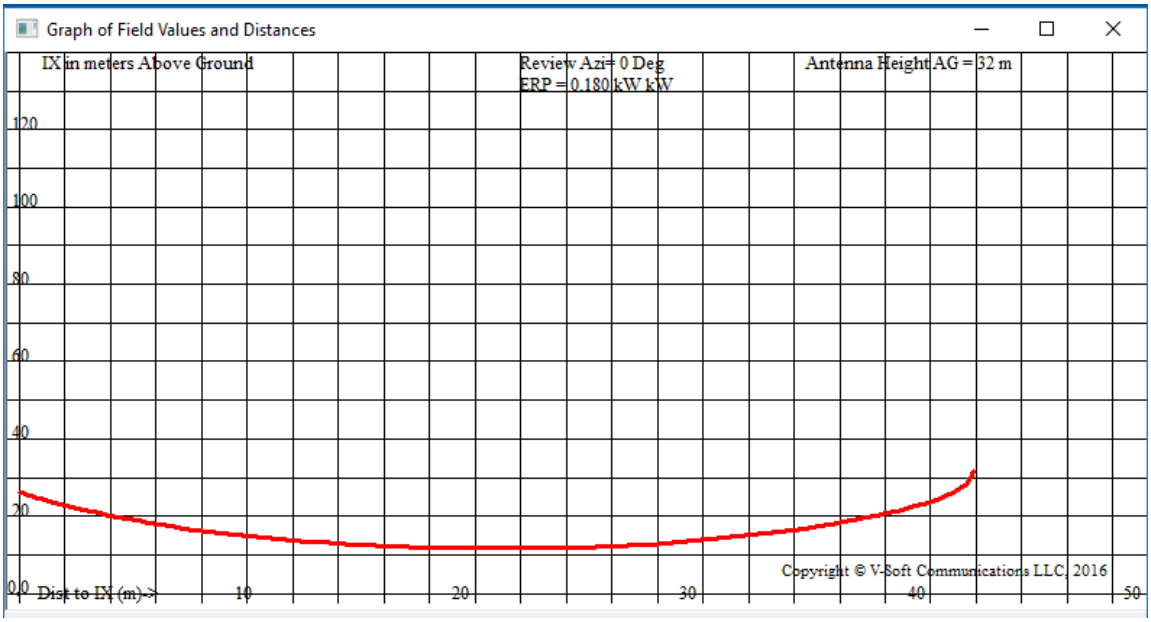
E1B KWDO 257B1 INTERFERENCE ANALYSIS

K259CF FRESNO, CA, Showing Protection to KWDO
74.1204(d) Study - Using GLOBE 30 SEC Terrain Database
Translator or LPFM Maximum Licensed ERP = 0.18
Translator or LPFM Antenna Height AG = 32 Meters
K259CF Antenna Model = NICOM-BKG1-1

Protected Station's Contour = 86.86175 dBu
Translator's or LPFM's full Interference contour 126.86175

Review Azimuth = 0 Degrees True
Relative Field on the horizon at Review Azimuth = 1.000
Translator/LPFM ERP on the horizon at Review Azimuth = 0.18 kW
Distance between stations = 7.1 km
Protected Station= KWDO, 14.5 kW, 185 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.000	1.0	0.1800	042.7119	042.7119	032.000
05.00	0.998	1.0	0.1793	042.6265	042.4643	028.285
10.00	0.987	1.0	0.1754	042.1566	041.5162	024.680
15.00	0.963	1.0	0.1669	041.1315	039.7300	021.354
20.00	0.931	1.0	0.1560	039.7648	037.3667	018.400
25.00	0.895	1.0	0.1442	038.2271	034.6456	015.845
30.00	0.853	1.0	0.1310	036.4332	031.5521	013.783
35.00	0.808	1.0	0.1175	034.5112	028.2699	012.205
40.00	0.755	1.0	0.1026	032.2475	024.7030	011.272
45.00	0.689	1.0	0.0854	029.4285	020.8091	011.191
50.00	0.621	1.0	0.0694	026.5241	017.0494	011.681
55.00	0.554	1.0	0.0552	023.6624	013.5722	012.617
60.00	0.483	1.0	0.0420	020.6298	010.3149	014.134
65.00	0.406	1.0	0.0297	017.3410	007.3286	016.284
70.00	0.332	1.0	0.0198	014.1803	004.8500	018.675
75.00	0.265	1.0	0.0126	011.3186	002.9295	021.067
80.00	0.215	1.0	0.0083	009.1831	001.5946	022.956
85.00	0.179	1.0	0.0058	007.6454	000.6663	024.384
90.00	0.149	1.0	0.0040	006.3641	000.0000	025.636

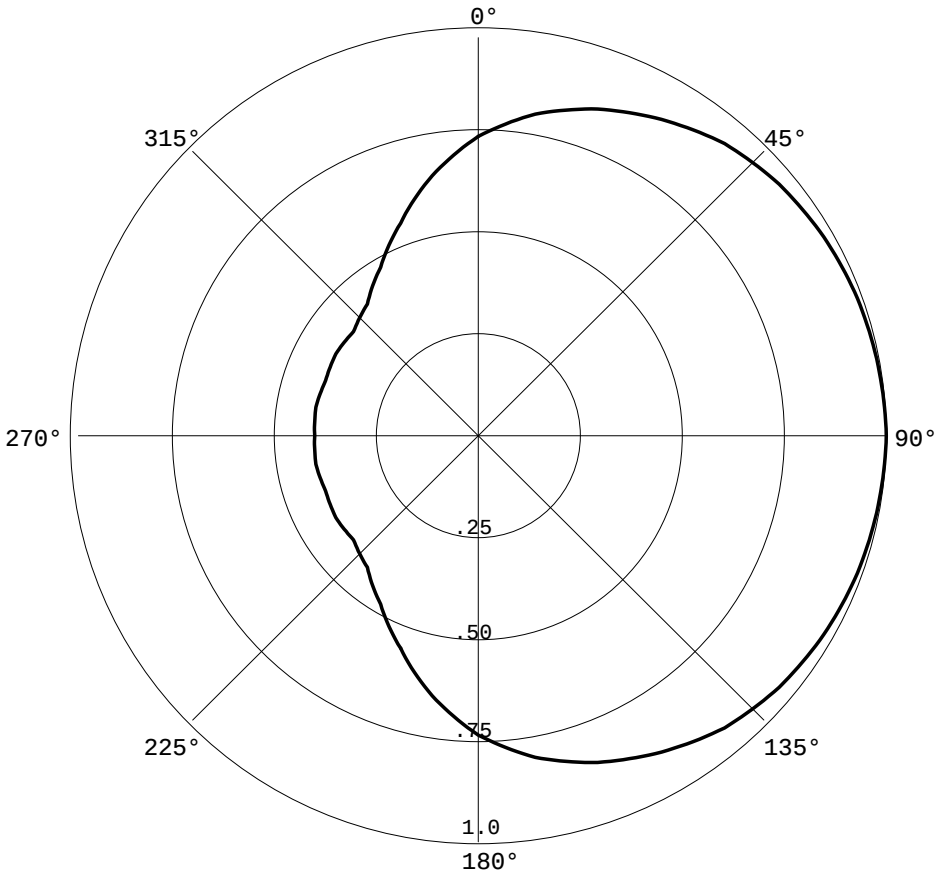


E1C AERIAL VIEW OF 126.9 DBU (50:10) INTERFERENCE CONTOUR

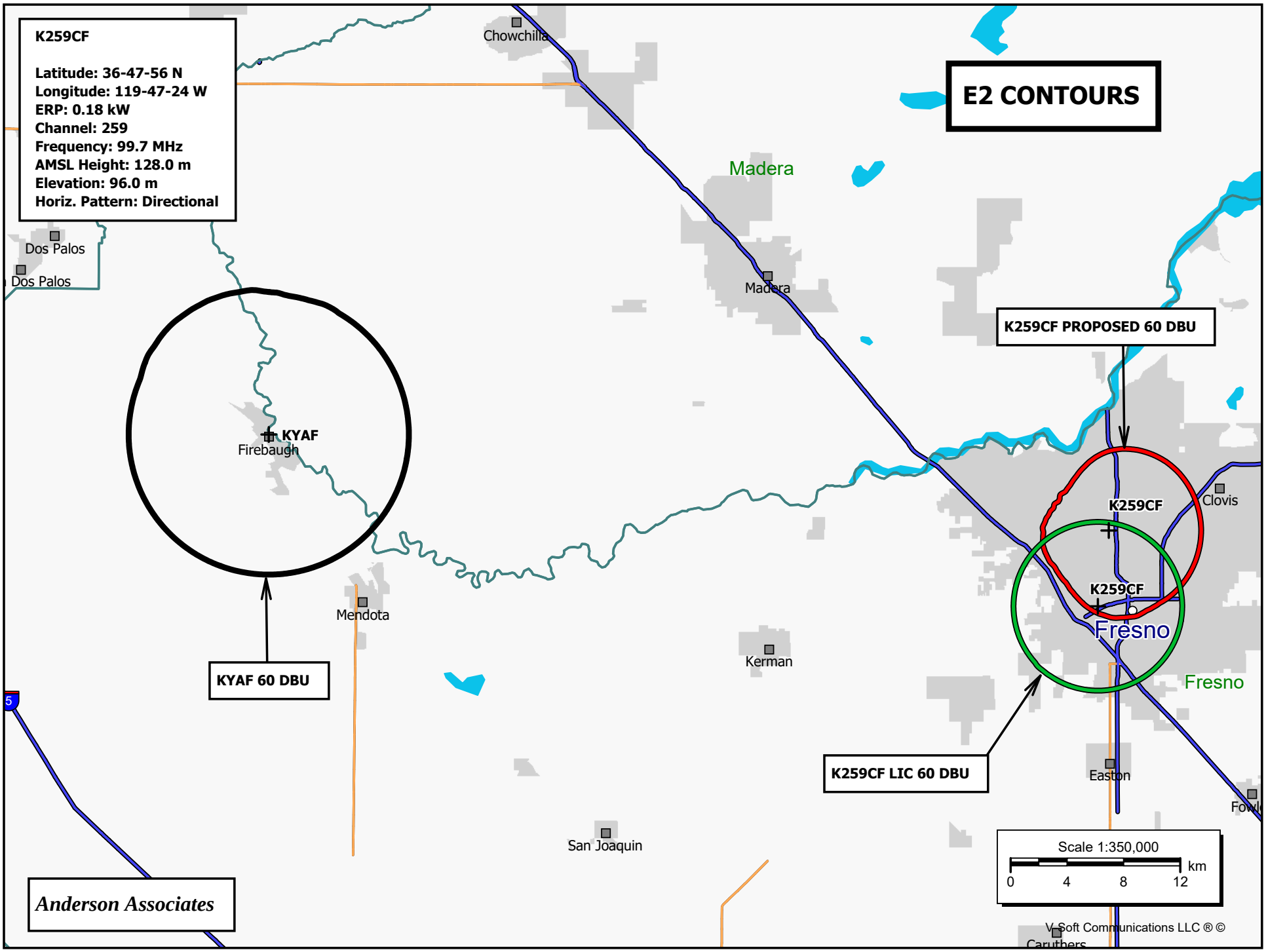
E1D DA TABULATION

01-16-2018 RMS(V)= .739 Graph is Relative Field

Azi	Field	dBk	kW
000	0.737	-10.098	0.098
010	0.804	-09.342	0.116
020	0.856	-08.798	0.132
030	0.899	-08.372	0.145
040	0.939	-07.994	0.159
050	0.963	-07.775	0.167
060	0.978	-07.640	0.172
070	0.989	-07.543	0.176
080	0.995	-07.491	0.178
090	1.000	-07.447	0.180
100	0.995	-07.491	0.178
110	0.989	-07.543	0.176
120	0.978	-07.640	0.172
130	0.963	-07.775	0.167
140	0.939	-07.994	0.159
150	0.899	-08.372	0.145
160	0.856	-08.798	0.132
170	0.804	-09.342	0.116
180	0.737	-10.098	0.098
190	0.650	-11.189	0.076
200	0.557	-12.530	0.056
210	0.479	-13.841	0.041
220	0.423	-14.920	0.032
230	0.399	-15.428	0.029
240	0.403	-15.341	0.029
250	0.398	-15.450	0.029
260	0.404	-15.320	0.029
270	0.401	-15.384	0.029
280	0.404	-15.320	0.029
290	0.398	-15.450	0.029
300	0.403	-15.341	0.029
310	0.399	-15.428	0.029
320	0.423	-14.920	0.032
330	0.479	-13.841	0.041
340	0.557	-12.530	0.056
350	0.650	-11.189	0.076



Nicom detailed specifications appended to report.


K259CF
Latitude: 36-47-56 N
Longitude: 119-47-24 W
ERP: 0.18 kW
Channel: 259
Frequency: 99.7 MHz
AMSL Height: 128.0 m
Elevation: 96.0 m
Horiz. Pattern: Directional
E2 CONTOURS
Chowchilla
Madera
Madera
Dos Palos
Dos Palos
K259CF PROPOSED 60 DBU
KYAF
Firebaugh
KYAF 60 DBU
Mendota
Kerman
K259CF
Clovis
K259CF
Fresno
Fresno
K259CF LIC 60 DBU
Easton
San Joaquin
Scale 1:350,000
km
0
4
8
12
Anderson Associates
V-Soft Communications LLC ® ©

TOWAIR Determination Results

A routine check of the coordinates, heights, and structure type you provided indicates that this structure does not require registration.

*** NOTICE ***

TOWAIR's findings are not definitive or binding, and we cannot guarantee that the data in TOWAIR are fully current and accurate. In some instances, TOWAIR may yield results that differ from application of the criteria set out in 47 C.F.R. Section 17.7 and 14 C.F.R. Section 77.13. A positive finding by TOWAIR recommending notification should be given considerable weight. On the other hand, a finding by TOWAIR recommending either for or against notification is not conclusive. It is the responsibility of each ASR participant to exercise due diligence to determine if it must coordinate its structure with the FAA. TOWAIR is only one tool designed to assist ASR participants in exercising this due diligence, and further investigation may be necessary to determine if FAA coordination is appropriate.

DETERMINATION Results

PASS SLOPE(100:1): NO FAA REQ-RWY MORE THAN 10499 MTRS & 7730.64 MTRS (7.73059 KM) AWAY

Type	C/R	Latitude	Longitude	Name	Address	Lowest Elevation (m)	Runway Length (m)
AIRP	R	36-44-6.00N	119-49-31.00W	FRESNO CHANDLER EXECUTIVE	FRESNO FRESNO, CA	84.8	1105.5

PASS SLOPE(100:1)NO FAA REQ - 5693.0 Meters (18677.5 Feet)away & below slope by 27.0 Meters (88.5799 Feet)

Type	C/R	Latitude	Longitude	Name	Address	Lowest Elevation (m)	Runway Length (m)
AIRP	R	36-47-2.00N	119-43-48.00W	FRESNO YOSEMITE INTL	FRESNO FRESNO, CA	100.6	2907.5

PASS SLOPE(100:1)NO FAA REQ - 5509.0 Meters (18073.9 Feet)away & below slope by 25.0 Meters (82.0199 Feet)

Type	C/R	Latitude	Longitude	Name	Address	Lowest Elevation (m)	Runway Length (m)
AIRP	R	36-46-59.00N	119-43-57.00W	FRESNO YOSEMITE INTL	FRESNO FRESNO, CA	100.6	2907.5

PASS SLOPE(50:1): NO FAA REQ-RWY 10499 MTRS OR LESS & 7987.89 MTRS (7.98789) KM AWAY

Type	C/R	Latitude	Longitude	Name	Address	Lowest Elevation (m)	Runway Length (m)
AIRP	R	36-50-16.00N	119-51-59.00W	SIERRA SKY PARK	FRESNO FRESNO, CA	96.6	753.79999999999995

Your Specifications

NAD83 Coordinates

Latitude	36-47-56.3 north
Longitude	119-47-27.5 west

Measurements (Meters)

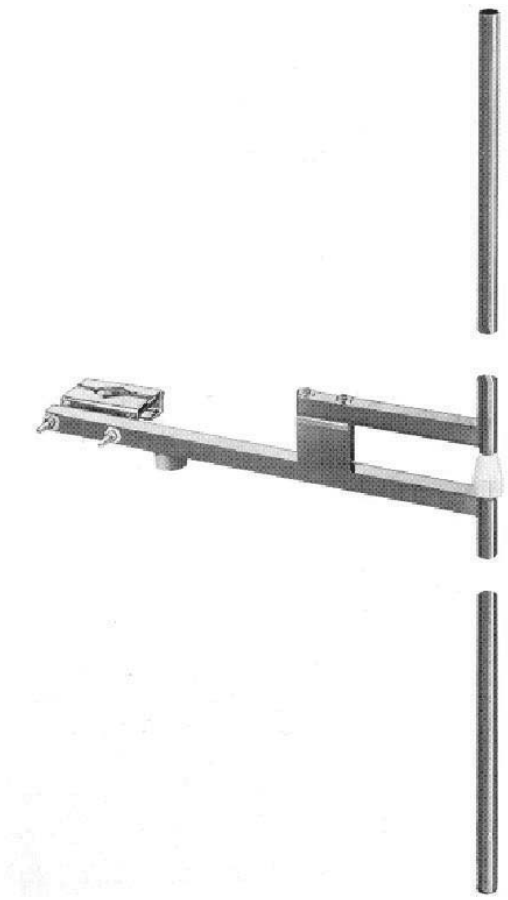
Overall Structure Height (AGL)	34
Support Structure Height (AGL)	0
Site Elevation (AMSL)	96

Structure Type

BANT - Building with Antenna on top

Tower Construction Notifications
Notify Tribes and Historic Preservation Officers of your plans to build a tower.

CLOSE WINDOW



BKG1/P
Low Power

Broadband FM Dipole
Dipolo de FM Banda Ancha

This antenna can be easily installed because of its lightness. Electrically grounded it gives excellent protection against lightning. Combined in arrays of more elements this dipole offers high gain over a wide angle.

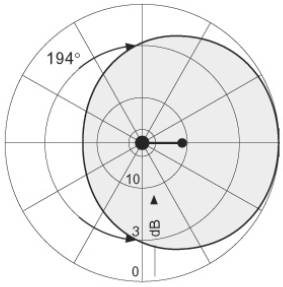
Esta antena puede ser facilmente armada debido a su ligereza. Es conectada por tierra lo cual ofrece óptima protección contra relámpagos. Combinada de arrays de varios elementos este dipolo puede ofrecer buena ganancia a través de un amplio ángulo.

TECHNICAL SPECIFICATIONS

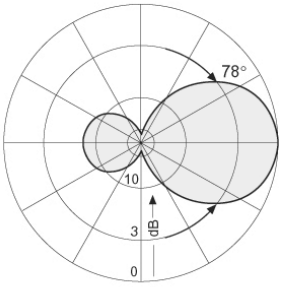
Antenna type	dipole
Frequency range	87.5 - 108 MHz
Bandwidth	20 MHz
Impedance	50 Ohms
Connectors	N type
Power rating	500 Watts max.
VSWR	< 1.3
Polarization	vertical
Gain	0 dBd (unity gain)
H plane	194 degrees
V plane	78 degrees

Front-to-back ratio	7 dB
Lightning protection	all parts grounded
Max wind velocity	119 mph (190 km/h)
Wind load	39.6 Lbs (18 kg)
Wind surface	1.2 ft^2 (0.11 m^2)
Materials (external)	anti-corrosive aluminum
Mounting	from 2" to 4"
Weight	8.8 Lbs (4 kg)
Dimensions	55"×33"×2" (1400×850×60 mm)
Packing	59"×36"×4" (1500×900×100 mm)

Radiation Patterns (at mid-band)



in H-plane
Horizontal Radiation Pattern



in E-plane
Vertical Radiation Pattern

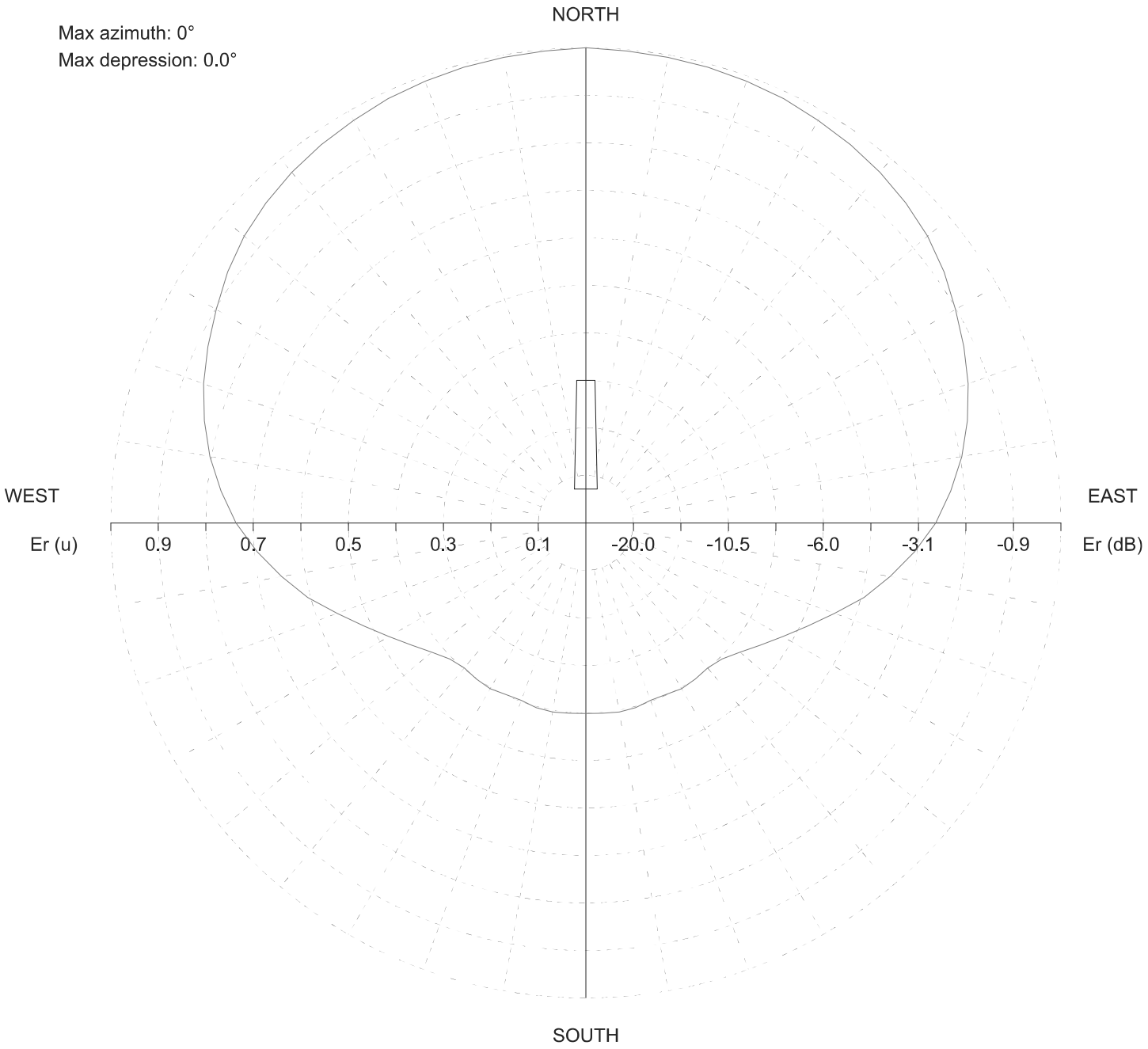
2626 Southport Way Ste B • National City, CA 91950 • Tel (619) 477-6298 • Fax (619) 477-6296 • http://www.NicomUSA.com

TX station: BKG1/P

Site name:

Frequency: 100.00 MHz

Horizontal diagram of Maxima



0.0° depres. (Total antenna), Gain (dBd): 0.00 ERP T.max (KW): 1. ERP E.max (KW): 0.776

NicomUsa, Inc

TX station: BKG1/P

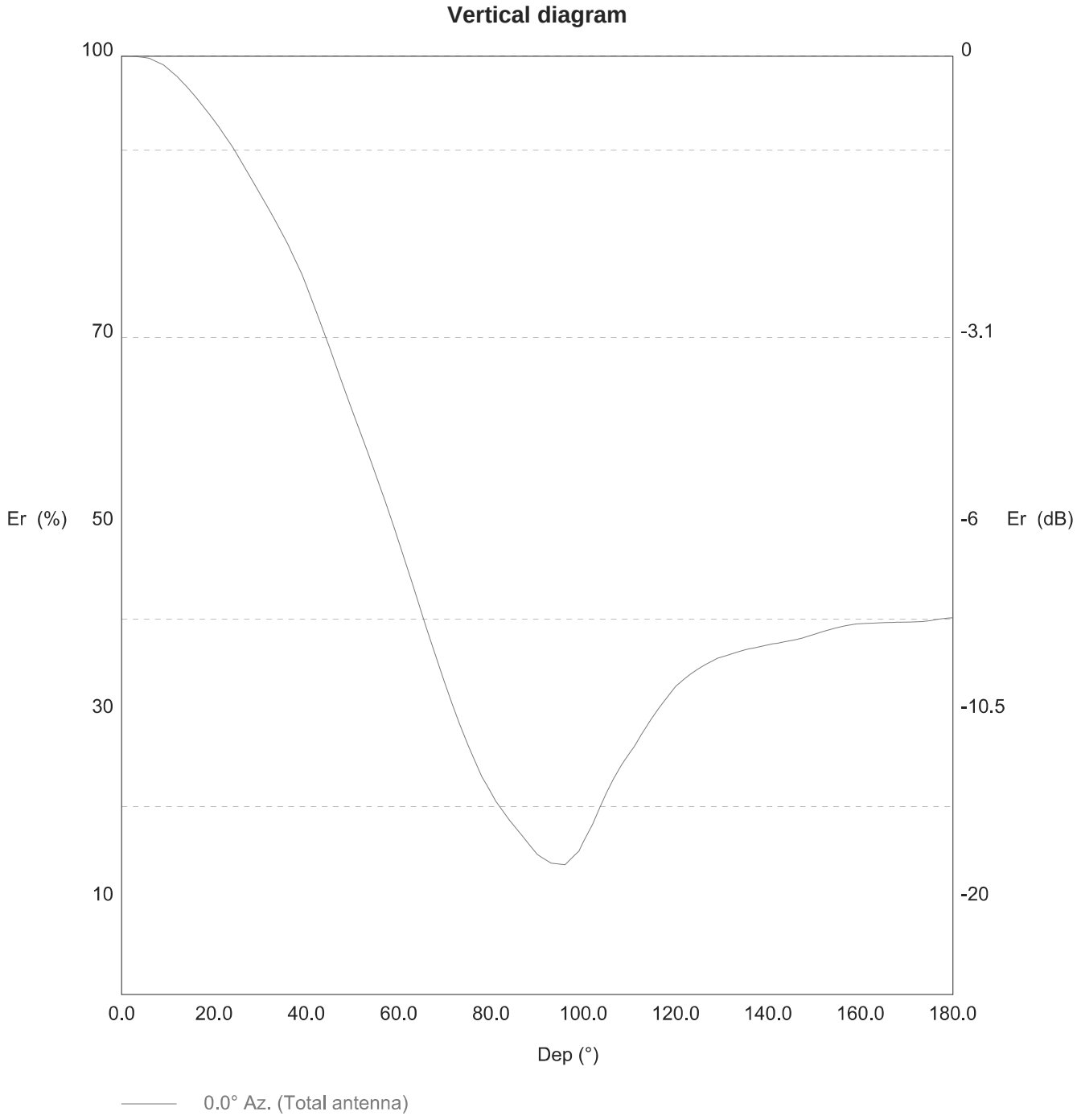
Frequency: 100.00 MHz

Horizontal pattern tabulation.

Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)
0.0	0.0	100.0	776.2	120.0	0.0	47.9	178.0	240.0	0.0	47.9	178.0
5.0	0.0	99.7	772.1	125.0	0.0	44.8	156.0	245.0	0.0	51.5	205.9
10.0	0.0	99.5	768.1	130.0	0.0	42.3	139.1	250.0	0.0	55.7	240.8
15.0	0.0	99.3	765.7	135.0	0.0	40.5	127.4	255.0	0.0	60.6	285.0
20.0	0.0	98.9	759.7	140.0	0.0	39.9	123.3	260.0	0.0	65.0	328.3
25.0	0.0	98.5	753.4	145.0	0.0	40.1	125.1	265.0	0.0	69.5	374.7
30.0	0.0	97.8	743.2	150.0	0.0	40.3	126.0	270.0	0.0	73.7	421.3
35.0	0.0	97.2	733.2	155.0	0.0	39.9	123.5	275.0	0.0	77.1	461.6
40.0	0.0	96.3	720.1	160.0	0.0	39.8	122.8	280.0	0.0	80.4	501.4
45.0	0.0	95.2	703.9	165.0	0.0	40.3	126.1	285.0	0.0	83.2	536.8
50.0	0.0	93.9	684.4	170.0	0.0	40.4	126.9	290.0	0.0	85.6	569.2
55.0	0.0	92.1	658.3	175.0	0.0	40.3	125.8	295.0	0.0	87.8	598.3
60.0	0.0	89.9	627.1	180.0	0.0	40.1	125.0	300.0	0.0	89.9	627.1
65.0	0.0	87.8	598.3	185.0	0.0	40.3	125.8	305.0	0.0	92.1	658.3
70.0	0.0	85.6	569.2	190.0	0.0	40.4	126.9	310.0	0.0	93.9	684.4
75.0	0.0	83.2	536.8	195.0	0.0	40.3	126.1	315.0	0.0	95.2	703.9
80.0	0.0	80.4	501.4	200.0	0.0	39.8	122.8	320.0	0.0	96.3	720.1
85.0	0.0	77.1	461.6	205.0	0.0	39.9	123.5	325.0	0.0	97.2	733.2
90.0	0.0	73.7	421.3	210.0	0.0	40.3	126.0	330.0	0.0	97.8	743.2
95.0	0.0	69.5	374.7	215.0	0.0	40.1	125.1	335.0	0.0	98.5	753.4
100.0	0.0	65.0	328.3	220.0	0.0	39.9	123.3	340.0	0.0	98.9	759.7
105.0	0.0	60.6	285.0	225.0	0.0	40.5	127.4	345.0	0.0	99.3	765.7
110.0	0.0	55.7	240.8	230.0	0.0	42.3	139.1	350.0	0.0	99.5	768.1
115.0	0.0	51.5	205.9	235.0	0.0	44.8	156.0	355.0	0.0	99.7	772.1

TX station: BKG1/P-

Frequency: 100.00 MHz



TX station: BKG1/P

Frequency: 100.00 MHz

Vertical diagram at an azimuth of 0° degrees

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
0.0	100.0	776.2	60.0	48.3	180.9	120.0	32.8	83.6
1.0	100.0	776.1	61.0	46.8	169.7	121.0	33.2	85.8
2.0	100.0	775.9	62.0	45.2	158.9	122.0	33.7	88.0
3.0	100.0	775.7	63.0	43.7	148.5	123.0	34.1	90.2
4.0	99.9	774.8	64.0	42.2	138.1	124.0	34.4	91.9
5.0	99.8	773.8	65.0	40.6	128.0	125.0	34.7	93.6
6.0	99.8	772.9	66.0	39.1	118.4	126.0	35.0	95.3
7.0	99.5	769.2	67.0	37.6	109.6	127.0	35.3	96.8
8.0	99.3	765.6	68.0	36.1	101.1	128.0	35.6	98.2
9.0	99.1	762.0	69.0	34.6	92.9	129.0	35.8	99.6
10.0	98.7	755.7	70.0	33.2	85.4	130.0	36.0	100.4
11.0	98.3	749.5	71.0	31.7	78.1	131.0	36.1	101.3
12.0	97.9	743.2	72.0	30.3	71.2	132.0	36.3	102.1
13.0	97.3	735.2	73.0	29.0	65.4	133.0	36.4	103.0
14.0	96.8	727.2	74.0	27.8	59.9	134.0	36.6	103.8
15.0	96.3	719.2	75.0	26.5	54.6	135.0	36.7	104.7
16.0	95.7	710.3	76.0	25.4	50.1	136.0	36.8	105.3
17.0	95.1	701.4	77.0	24.3	45.8	137.0	36.9	105.9
18.0	94.5	692.6	78.0	23.2	41.7	138.0	37.0	106.5
19.0	93.8	683.0	79.0	22.3	38.7	139.0	37.1	107.1
20.0	93.1	673.5	80.0	21.5	35.8	140.0	37.2	107.7
21.0	92.5	664.1	81.0	20.6	33.1	141.0	37.3	108.2
22.0	91.8	653.7	82.0	19.9	30.9	142.0	37.4	108.8
23.0	91.0	643.4	83.0	19.2	28.8	143.0	37.5	109.3
24.0	90.3	633.1	84.0	18.6	26.7	144.0	37.6	109.8
25.0	89.5	621.6	85.0	17.9	25.0	145.0	37.7	110.4
26.0	88.7	610.3	86.0	17.3	23.4	146.0	37.8	111.0
27.0	87.8	599.0	87.0	16.7	21.8	147.0	37.9	111.6
28.0	87.0	587.3	88.0	16.1	20.2	148.0	38.1	112.5
29.0	86.1	575.7	89.0	15.5	18.7	149.0	38.2	113.4
30.0	85.3	564.3	90.0	14.9	17.3	150.0	38.4	114.2
31.0	84.4	552.9	91.0	14.6	16.5	151.0	38.5	115.2
32.0	83.5	541.7	92.0	14.3	15.8	152.0	38.7	116.1
33.0	82.7	530.6	93.0	14.0	15.2	153.0	38.8	117.1
34.0	81.7	518.8	94.0	13.9	15.0	154.0	39.0	117.9
35.0	80.8	507.1	95.0	13.9	14.9	155.0	39.1	118.6
36.0	79.9	495.6	96.0	13.8	14.8	156.0	39.2	119.4
37.0	78.9	482.9	97.0	14.3	15.9	157.0	39.3	119.9
38.0	77.8	470.4	98.0	14.8	17.0	158.0	39.4	120.4
39.0	76.8	458.0	99.0	15.3	18.1	159.0	39.5	120.9
40.0	75.5	442.7	100.0	16.2	20.5	160.0	39.5	121.1
41.0	74.2	427.7	101.0	17.2	23.0	161.0	39.5	121.3
42.0	72.9	412.9	102.0	18.1	25.5	162.0	39.5	121.4
43.0	71.6	398.0	103.0	19.3	28.8	163.0	39.6	121.6
44.0	70.3	383.3	104.0	20.4	32.3	164.0	39.6	121.7
45.0	68.9	368.9	105.0	21.5	35.9	165.0	39.6	121.9
46.0	67.5	354.2	106.0	22.4	39.1	166.0	39.6	122.0
47.0	66.2	339.7	107.0	23.4	42.4	167.0	39.6	122.0
48.0	64.8	325.5	108.0	24.3	45.8	168.0	39.7	122.1
49.0	63.4	312.3	109.0	25.0	48.5	169.0	39.7	122.1
50.0	62.1	299.4	110.0	25.7	51.3	170.0	39.7	122.2
51.0	60.8	286.8	111.0	26.4	54.2	171.0	39.7	122.2
52.0	59.5	274.4	112.0	27.2	57.6	172.0	39.7	122.4
53.0	58.1	262.3	113.0	28.1	61.1	173.0	39.7	122.5
54.0	56.8	250.4	114.0	28.9	64.6	174.0	39.8	122.7
55.0	55.4	238.3	115.0	29.6	67.9	175.0	39.8	123.2
56.0	54.0	226.6	116.0	30.3	71.1	176.0	39.9	123.7
57.0	52.6	215.1	117.0	31.0	74.4	177.0	40.0	124.2
58.0	51.2	203.3	118.0	31.6	77.5	178.0	40.0	124.5
59.0	49.7	191.9	119.0	32.2	80.5	179.0	40.1	124.7