

73.525 Compliance

There are several considerations outlined in 47 C.F.R. 73.525 for TV Channel 6 protection. Outlined below are the various factors as they apply to the proposed operation and KSFV-L-TV.

1) Distance between proposed operation and KSFV-L-TV

47 C.F.R. 73.525(a)(1) requires a minimum separation of 196 km for a channel 211 operation. The distance between the proposed station and KSFV-L-TV is 109.2 km.

2) Population Limitation

When a proposed non-commercial station is not co-located with the channel 6 station question, the applicant is required to show that the interference area (as predicted by the procedures outlined in 47 C.F.R. 73.525(e)(1)) contains no more than 3,000 persons.

Per 47 C.F.R. 73.525(e)(4), if an applicant chooses to use mixed polarity, the permissible ERP is determined by the formula: $[H + (V/A)]$ is not greater than P

Where: H = the horizontally polarized ERP in kilowatts for mixed polarity

V = the vertically polarized ERP in kilowatts for mixed polarity

A = 40 (if the predicted interference area lies entirely outside the limits of a city of 50,000 persons or more), or 10 (if it does not)

P = the maximum permitted horizontally polarized-only power in kilowatts.

Since the predicted interference area lies entirely outside the limits of a city of 50,000 persons or more, the value of 40 was used for A, giving the result:

$$[0.56 + (0.56/40)] = 0.574 \text{ kilowatts}$$

All population limits were calculated using the maximum permitted horizontally polarized-only power of 0.574 kilowatts. The actual population figures are contained in Exhibit 18-B, and a map of the interference area is shown in Exhibit 18-C.

For the reasons outlined above, the proposed operation fully complies with the provisions of 47 C.F.R. 73.525.

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Population in the predicted interference area was determined using the centroid method and the 2000 census.

The predicted interference contour is determined from 47 C.F.R. 73.599 Figure 1 for channel 211 to be 67.3 dBu. An additional 6 dB adjustment has been made for receiving antenna directivity (per 73.525(e)(1)(iii)) for the area outside the KSFV-L grade A contour, but within the grade B contour (see Exhibit 18-D for a tabulation of the KSFV-L protected contour values and the corresponding channel 211 interfering contours). Since the azimuth between the proposed facility and KSFV-L is 279.6°, the standard value of 67.3 dBu is used between 29.7° and 169.5°, clockwise. The adjusted value of 73.3 dBu is used between 169.6° and 29.6°, clockwise.

Exhibit 18-C shows the 47 dBu F(50,50) contour for KSFV-L and the corresponding F(50,10) interfering contour for the proposed channel 211 facility. Since the interfering contour of the proposed operation does not cross the Grade B contour of KSFV-L , there is no interference area.

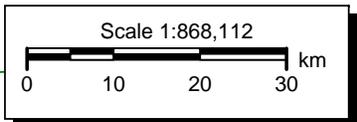
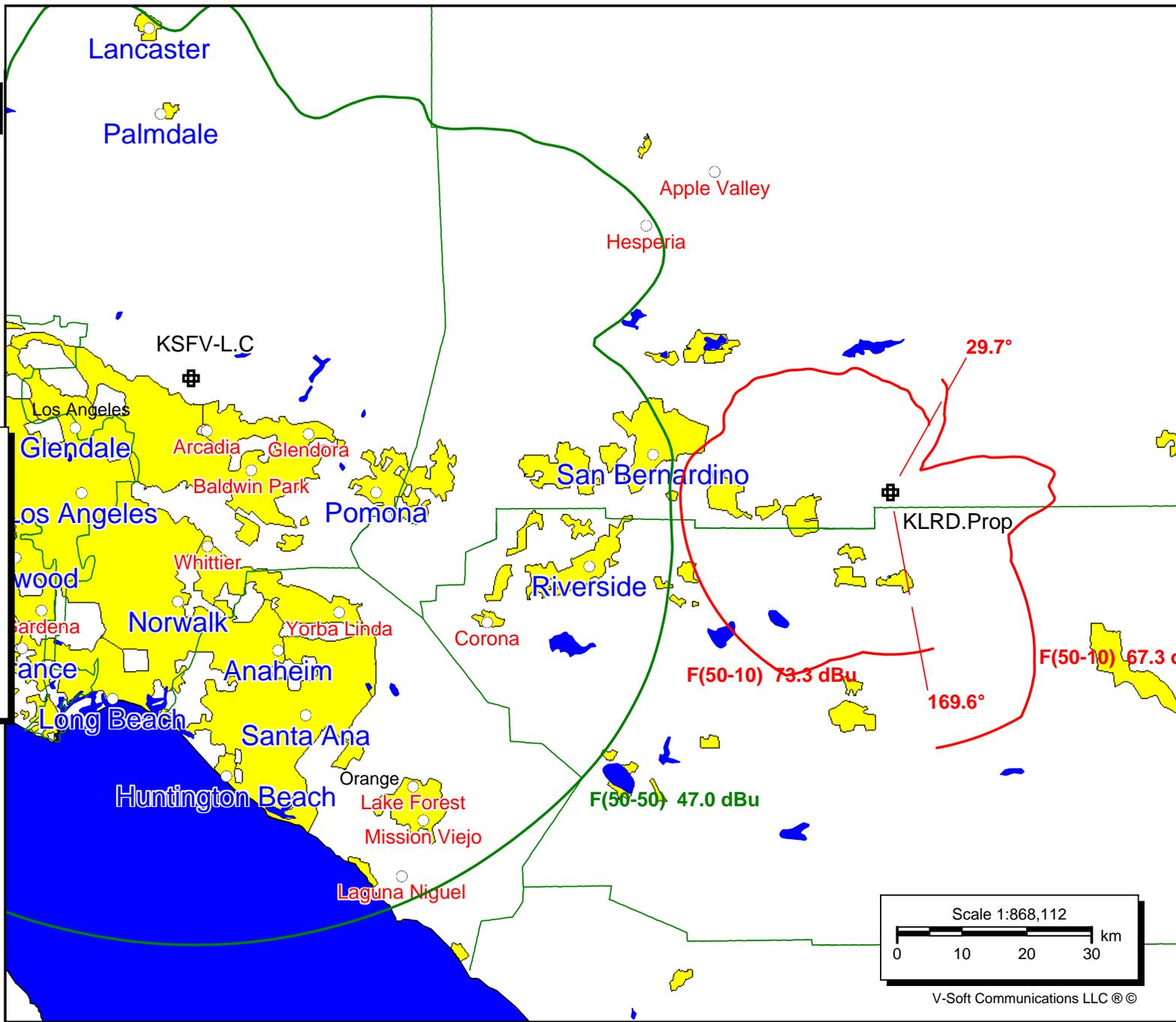
Therefore, the proposed operation is within the limitations of 47 CFR 73.525(c).



Exhibit 18-C

KLRD.Prop
Latitude: 34-03-18 N
Longitude: 116-53-35 W
ERP: 0.574 kW
Channel: 211
Frequency: 90.1 MHz
AMSL Height: 2784.0 m
Elevation: 2246.47 m
Horiz. Pattern: Directional
Vert. Pattern: No

KSFV-L.C
BPTVL20021018AAZ
Latitude: 34-12-46.10 N
Longitude: 118-03-41.60 W
ERP: 0.499 kW
Channel: 06-
Frequency: 84.5 MHz
AMSL Height: 1680.0 m
Elevation: 1344.85 m
Horiz. Pattern: Omni
Vert. Pattern: Yes
Elec Tilt: 0.0



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Channel 6 vs Channel 211

Channel 6 Contour	Value from 73.599	Channel 209 Contour	Adjusted 6 dB
47 (grade B)	20.3	67.3	73.3
48	18.6	66.6	72.6
49	17.4	66.4	72.4
50	16.2	66.2	72.2
51	15.0	66.0	72.0
52	13.9	65.9	71.9
53	13.0	66.0	72.0
54	12.0	66.0	72.0
55	11.2	66.2	72.2
56	10.3	66.3	72.3
57	9.4	66.4	72.4
58	8.5	66.5	72.5
59	7.7	66.7	72.7
60	6.9	66.9	72.9
61	6.3	67.3	73.3
62	5.5	67.5	73.5
63	5.0	68.0	74.0
64	4.4	68.4	74.4
65	3.8	68.8	74.8
66	3.4	69.4	75.4
67	3.0	70.0	76.0

Channel 6 Contour	Value from 73.599	Channel 209 Contour	Adjusted 6 dB
68 (grade A)	2.5	70.5	76.5
69	2.3	71.3	77.3
70	2.0	72.0	78.0
71	1.7	72.7	78.7
72	1.4	73.4	79.4
73	1.3	74.3	80.3
74	0.9	74.9	80.9
75	0.7	75.7	81.7
76	0.5	76.5	82.5
77	0.4	77.4	83.4
78	0.1	78.1	84.1
79	-0.1	78.9	84.9
80	-0.2	79.8	85.8
81	-0.4	80.6	86.6
82	-0.6	81.4	87.4
83	-0.7	82.3	88.3
84	-0.9	83.1	89.1
85	-1.1	83.9	89.9
86	-1.2	84.8	90.8
87	-1.4	85.6	91.6
88	-1.6	86.4	92.4
89	-1.7	87.3	93.3
90	-1.8	88.2	94.2