

### **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 KXDP-LP.

#### **1. Distance between proposed operation and KXDP**

47 C.F.R. 73.525(a)(1) requires a minimum separation of 180 kilometers for a channel 215 operation. The distance between the proposed station and KXDP is 155.78 kilometers. Since the distance is less than 180 km then KXDP is an affected station and the analysis below is required.

#### **2. Population Limitation**

When a proposed non-commercial station is not co-located with the channel 6 station in 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.

The interfering contour of the proposed operation does not cross the Grade B contour of KXDP (see Exhibit 21-A), therefore there is no interference area.

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

**Channel 6 vs Channel 215**

Channel 6 Contour	Value from 73.599	Channel 215 Contour	Adjusted 6 dB
47 (grade B)	27	74	80
48	25.4	73.4	79.4
49	23.4	72.4	78.4
50	22	72	78
51	20.5	71.5	77.5
52	19	71	77
53	17.5	70.5	76.5
54	16.4	70.4	76.4
55	15.2	70.2	76.2
56	14.2	70.2	76.2
57	13.1	70.1	76.1
58	12.1	70.1	76.1
59	11.1	70.1	76.1
60	10.3	70.3	76.3
61	9.5	70.5	76.5
62	8.8	70.8	76.8
63	8.1	71.1	77.1
64	7.5	71.5	77.5
65	6.9	71.9	77.9
66	6.5	72.5	78.5
67	6.1	73.1	79.1

Channel 6 Contour	Value from 73.599	Channel 215 Contour	Adjusted 6 dB
68 (grade A)	5.7	73.7	79.7
69	5.4	74.4	80.4
70	5.2	75.2	81.2
71	5	76	82
72	4.8	76.8	82.8
73	4.6	77.6	83.6
74	4.4	78.4	84.4
75	4.3	79.3	85.3
76	4.1	80.1	86.1
77	4	81	87
78	3.8	81.8	87.8
79	3.6	82.6	88.6
80	3.5	83.5	89.5
81	3.3	84.3	90.3
82	3.2	85.2	91.2
83	3	86	92
84	2.9	86.9	92.9
85	2.7	87.7	93.7
86	2.6	88.6	94.6
87	2.5	89.5	95.5
88	2.3	90.3	96.3
89	2.2	91.2	97.2
90	2	92	98

Educational Media Foundation

FMCommander Single Allocation Study - 10-16-2019 - FCC NGDC 30 Sec

KLWV's Overlaps 79.78 Req km, 76.0 Mar km)

KLWV CH 215 C0

Lat= 41 18 38.9, Lng= 105 27 13.9

100.0 kW 344.6 m HAAT, 2749 m COR

Intef. = 70.8 dBu Prot. = 62 dBu

KXDP-LP CH 06N -- DA BLTVL-20100716ABT

Lat= 39 54 48.0, Lng= 105 17 32.9

3.0 kW 0 m HAAT, 2536 m COR

