

EXHIBIT 18
TV Channel 6 Compliance Showing
Lockwood, MT
KYWH
BPED-19990526MC
Minor Modification

According to 47 CFR, 73.525 an application needs to show non interference to any TV6 station within the specified distance given in Table A of the 47 CFR, 73.525(a)(1). The distance for showing of non interference for the proposed modification on Channel 205 is 225 km. 47 CFR, 73.599 demonstrates the required FM/TV6 protection ratio for channel 205 at the Class B protected contour of 47 dBu is 59.0dBu.

The proposed amendment of BPED-19990526MC has an ERP of 1.9kw, utilizing a vertically polarized directional antenna. Since the antenna is vertically polarized, and the area is outside a community of 50,000, 47 CFR, 73.525(e)(4)(i) states that the calculated ERP is 1/40th of the actual ERP, making the area of interference determined using only 0.0475kW.

The effected Grade B contour of KSVI, a 100kW TV6 station with a CORAMSL of 1287m and 249m HAAT, is located 33.31km from the proposed site. Located at Latitude N. 45-48-26, and Longitude W. 108-20-25, KSVI is licensed to Billings, MT.

Page #2 of this Exhibit is a simplified plot because the area of “just perceptible interference” is located in a sparkly populated area. Just the related 59.0 dBu Interference Contour of the proposed and their relationship with KSVI’s corresponding Protected Contours of 77 and 87 dBu are plotted for the Area of Interference.

Page#3 of this Exhibit is a close up of the section shown in page #2, which shows population centroids within the 59.0 interfering contour.

Population within the “area of just perceptible interference” defined by the contour was tabulated from INTERDLG, V-Soft Communications ’02 using 03 Sec USGS data with the Population Overlay. A tabulation of one centroid block is located within this area, with a noted population of 1101, which is less than the maximum 3,000 persons allowed.

Because the proposed application contains less than the allowed maximum of 3,000 persons inside the Area of Interference, this application meets TV Channel 6 criteria.

Channel-Six TV Protection Study

KSVI LI 06Z 2C Dom 100.000 kW 249 M HAAT V HN
 Billings MT 1287M COR AMSL
 N. Lat= 45 48 26, W. lng= 108 20 25
 Nexstar Broadcasting, Inc. BLCT19930119KE
 Fac ID# 5243, Cutoff Date= 931118
 Dist.=33.30713 km, Azi=98.7°, Rev Azi=278.7°

Direct line HAAT Grade B, 47 dBu= 103.59 km & Grade A= 54.37 km

Distance from reference to Grade B = -70.28 km

Cutoff Dist from Full Service= 225

Maximum Co-located power= 8.3 kW

KSVI Signal Contour at Reference location = 78.8 dBu

CH. 205, U/D ratio = .9 dB, Maximum FM signal = 79.7 dBu , add 6 dB if within angle.

TV/FM D to U values

47.0	59.0	55.0	63.5	63.0	68.1	71.0	73.6	79.0	79.9	87.0	86.3
48.0	59.6	56.0	64.0	64.0	68.8	72.0	74.4	80.0	80.7	88.0	87.1
49.0	60.1	57.0	64.6	65.0	69.4	73.0	75.1	81.0	81.4	89.0	87.9
50.0	60.7	58.0	65.2	66.0	70.1	74.0	75.9	82.0	82.2	90.0	88.8
51.0	61.3	59.0	65.8	67.0	70.7	75.0	76.7	83.0	83.0	91.0	88.8
52.0	61.8	60.0	66.3	68.0	71.4	76.0	77.5	84.0	83.8	92.0	88.8
53.0	62.4	61.0	66.9	69.0	72.1	77.0	78.3	85.0	84.6	93.0	88.8
54.0	62.9	62.0	67.5	70.0	72.9	78.0	79.1	86.0	85.5	94.0	88.8

KSVI 77 dBu Contour

KSVI 87 dBu Contour

59 dBu

Prop

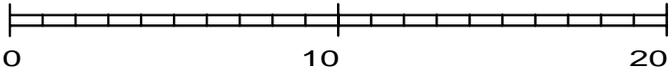
108
45.75

108.75
45.75

108.5
45.75

1:250,000

Scale in km



Prop 205A .0475kW 1292M AMSL
N. Lat. 45 51 12 W. Lng. 108 45 50

TV 6 MAP
CSN - 11/05

+ 3215

59 dBu .1

+ Prop

+ 1111

+ 1223

+ 631

+ 2422

+ 2

+ 260

