

Exhibit #18
Channel Six Television Protection

Concerning the Amendment Application of
VSS Catholic Communications
KVSS
Omaha, Nebraska
BMPED20020425AAM

August 2002

Channel 205

0.085 kW (Horz.) – 1.5 kW (Vert.)

This study shows compliance with Section 73.525(b)(2) of the Commission's Rules relating to protection of channel-six TV stations from interference. Table A in Sec. 73.525 defines the cut-off distance for FM stations on channel 205 to be 225 km. There is only one channel-six television station within this cut-off distance. WOWTTV, Omaha, Nebraska is located at distance of 1.44 kilometers and at an azimuth of 261.3 degrees True North. WOWTTV operates with an HAAT toward the proposed facility of 433 meters. The television station transmits with an ERP of 100 kilowatts from a transmitter site having geographic coordinates at N. Lat. 41 18 40, W. Lng. 96 01 37.

Page #2 is a map depicting the proposed and existing FM 88.8 dBu interference contours. This is the only relevant interference contour. Since the proposed station is located within such a short distance from WOWTTV, the Commission's rules assume a protected signal level of 90 dBu at all points. The interference threshold U/D for the channel 205 station is -1.2 dB, therefore the interference signal contour becomes 88.8 dBu. The channel six television interference study power for the KVSS licensed facility was determined to be 0.55 kW (0.5 kW H + 0.5 kW V/10). The proposed facility's study power was determined to be 0.235 kW (0.085 kW H + 1.5 kW V/10). A 6 dB receiver directivity credit was applied within the appropriate angles.

The proposed change in power and directional antenna of KVSS complies with Section 73.525(b)(2) in that "for each person predicted to receive new interference as a result of the change, existing predicted interference to two persons will be eliminated." The number of persons to receive new interference is 3,083, while existing interference will be eliminated for 6,344 persons. This is a loss/gain ratio of 2.06:1. The population within the interference contours was determined through the use of a computer program which extracts a population count based on population centroids defined by U.S. Census 2000 (PL-94-171) census block data. A detailed list of the population centroids in each gain and loss area is included on page #3.

Pages #4 and #5 are distance to contour tables (88.8 dBu and 94.8 dBu interference) of the proposed and existing KVSS facilities.

In conjunction with this application, VSS Catholic Communications has notified WOWTTV of these proposed changes to KVSS.

Exhibit #18, Channel Six Protection

KVSS

BLED20011024ABD
 Latitude: 41-18-43 N
 Longitude: 096-00-13 W
 Study ERP: 0.55 kW
 .5 kW H + .5 kW V/10
 AMSL Height: 405.0 m
 HAAT: 71.0 m
 Horiz. Pattern: Omni
 22,295 in FM
 Interference area

WOWTTV

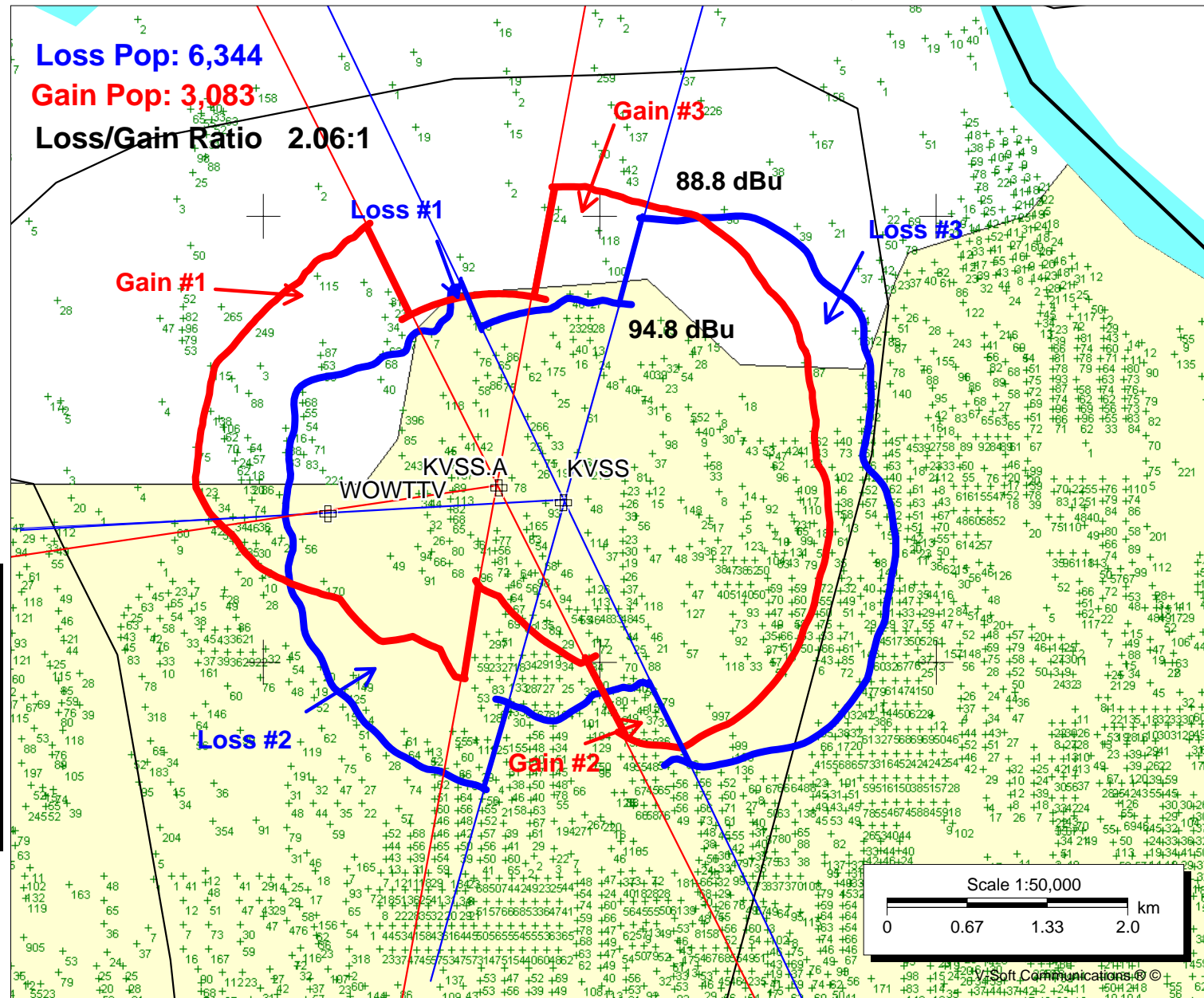
BLCT19831024KI
 Latitude: 41-18-40 N
 Longitude: 096-01-37 W
 Power: 100.00 kW
 Channel: 06+
 AMSL Height: 761.0 m
 Horiz. Pattern: Omni
 Vert. Pattern: Yes

KVSS.A

BMPED20020425AAM
 Latitude: 41-18-47 N
 Longitude: 096-00-36 W
 Study ERP: 0.235 kW
 .085 kW H + 1.5 kW V/10
 AMSL Height: 485.0 m
 HAAT: 147.0 m
 Horiz. Pattern: Directional
 19,111 in FM
 interference area



August 7, 2002



Population Centroids In Gain/Loss Areas

Gain #1	Gain #2	Gain #3	Loss #1	Loss #2	Loss #3	
115	179	4	<u>0</u>	425	297	136 38
8	151	118		14	51	133 57
31	32	100	0	49	<u>69</u>	99 52
23	36	40		4		65 6
34	37	<u>27</u>		61	3017	70 102
17	43			64		32 42
63	80	289		13		47 66
68	49			52		72 61
53	70	<u>3083</u> Total Gain		55		6 73
53	<u>48</u>			78		43 40
87				66		85 44
1	725			60		60 52
3				55		146 92
88				54		61 51
138				29		66 89
106				119		53 <u>16</u>
62				125		71
70				128		64 3327
54				67		29
116				53		29 <u>6344</u>
38				83		50
33				39		51
57				65		55
24				67		49
63				81		18
18				64		21
13				39		21
20				25		26
86				7		40
123				72		32
34				28		2
74				133		35
1				83		98
34				59		149
46				23		61
36				27		16
47				18		153
35				34		32
30				29		54
28				19		58
<u>39</u>				34		58
2069						
Loss		6344				
Gain		3083				
Loss/Gain Ratio		2.06:1				

Doug Vernier Telecommunications Consultants
KVSS.A, Vss Catholic Communications I, BMPED20020425AAM Amendment
ERP = .235 kW
Channel = 205

Azimuth Deg. T.	Ave. Elev. 3 to 16 km Meters AMSL	Effective Antenna Height Meters AAT	ERP (dBk)	F(50-10) Distance to 88.8 dBu Contour km	F(50-10) Distance to 94.8 dBu Contour km
0	349.2	135.8	-6.289	2.53	1.57
10	346.7	138.3	-6.289	2.55	1.58
20	338.9	146.1	-6.289	2.60	1.60
30	326.0	159.0	-6.289	2.69	1.63
40	308.0	177.0	-6.289	2.80	1.67
50	310.2	174.8	-6.289	2.79	1.67
60	306.0	179.0	-6.289	2.81	1.68
70	317.6	167.4	-6.289	2.75	1.65
80	330.1	154.9	-6.289	2.67	1.62
90	320.5	164.5	-6.289	2.73	1.65
100	312.9	172.1	-6.289	2.78	1.66
110	309.1	175.9	-6.289	2.80	1.67
120	306.0	179.0	-6.289	2.81	1.68
130	309.6	175.4	-6.289	2.79	1.67
140	328.3	156.7	-6.289	2.68	1.63
150	338.5	146.5	-7.061	2.46	1.61
160	352.4	132.6	-9.035	2.06	1.43
170	348.6	136.4	-11.036	1.77	1.13
180	326.1	158.9	-13.034	1.51	.90
190	335.2	149.8	-13.560	1.61	.85
200	336.8	148.2	-15.043	1.42	.71
210	336.5	148.5	-15.043	1.42	.71
220	338.9	146.1	-13.660	1.61	.84
230	339.5	145.5	-13.053	1.61	.90
240	342.9	142.1	-11.279	1.75	1.10
250	346.0	139.0	-9.276	2.05	1.39
260	352.7	132.3	-7.824	2.26	1.61
270	351.4	133.6	-6.289	2.52	1.57
280	351.1	133.9	-6.289	2.52	1.57
290	346.5	138.5	-6.289	2.55	1.58
300	356.9	128.1	-6.289	2.48	1.56
310	366.2	118.8	-6.289	2.43	1.53
320	368.6	116.4	-6.289	2.42	1.53
330	369.1	115.9	-6.289	2.41	1.53
340	372.2	112.8	-6.289	2.39	1.52
350	372.6	112.4	-6.289	2.39	1.52
Ave. = 338.0 M		147.0 M			

Antenna Radiation Center AMSL = 485 M

NGDC 30 Arc Sec.

Geographic Coordinates:

N. Lat. 41 18 47

W. Lng. 96 00 36

Doug Vernier Telecommunications Consultants
KVSS Licensed Facility, Channel TV6 Interference Contours
ERP = .55 kW
Channel = 205

Azimuth Deg. T.	Ave. Elev. 3 to 16 km Meters AMSL	Effective Antenna Height Meters AAT	ERP (dBk)	F(50-10)	F(50-10)
				Distance to 88.8 dBu Contour km	Distance to 94.8 dBu Contour km
0	344.6	60.4	-2.596	2.38	1.68
10	341.9	63.1	-2.596	2.41	1.70
20	335.9	69.1	-2.596	2.48	1.74
30	317.4	87.6	-2.596	2.73	1.88
40	305.6	99.4	-2.596	2.88	1.96
50	310.2	94.8	-2.596	2.83	1.93
60	306.5	98.5	-2.596	2.87	1.95
70	319.2	85.8	-2.596	2.71	1.86
80	333.2	71.8	-2.596	2.52	1.76
90	320.0	85.0	-2.596	2.70	1.86
100	313.4	91.6	-2.596	2.79	1.91
110	309.6	95.4	-2.596	2.84	1.93
120	304.1	100.9	-2.596	2.90	1.97
130	305.9	99.1	-2.596	2.88	1.96
140	321.8	83.2	-2.596	2.68	1.85
150	334.0	71.0	-2.596	2.51	1.76
160	348.2	56.8	-2.596	2.33	1.64
170	353.9	51.1	-2.596	2.23	1.55
180	331.4	73.6	-2.596	2.54	1.78
190	335.3	69.7	-2.596	2.49	1.75
200	338.4	66.6	-2.596	2.45	1.72
210	336.8	68.2	-2.596	2.47	1.74
220	338.9	66.1	-2.596	2.45	1.72
230	340.5	64.5	-2.596	2.43	1.71
240	343.9	61.1	-2.596	2.39	1.68
250	347.0	58.0	-2.596	2.35	1.65
260	351.3	53.7	-2.596	2.28	1.59
270	350.3	54.7	-2.596	2.30	1.61
280	349.6	55.4	-2.596	2.31	1.62
290	345.4	59.6	-2.596	2.37	1.67
300	358.2	46.8	-2.596	2.13	1.61
310	366.8	38.2	-2.596	1.90	1.61
320	368.5	36.5	-2.596	1.86	1.61
330	368.0	37.0	-2.596	1.87	1.61
340	377.7	27.3	-2.596	1.66	1.61
350	368.6	36.4	-2.596	1.85	1.61

Ave. = 337.3 M		67.7 M			

Antenna Radiation Center AMSL = 405

NGDC 30 Arc Sec.

Geographic Coordinates:

N. Lat. 41 18 43

W. Lng. 96 00 13