



**EXHIBIT #15**  
Allocation Exhibit

Concerning the Application of  
VSS Catholic Communications  
To Make a Minor Modification to Construction Permit  
for KVSS  
A Non-Commercial FM Station  
Serving Omaha, Nebraska

BMPED20010329ACP

April 2002

**Channel 205A**

**0.085 kW H & 1.5 kW V**

**Exhibit #15** is a single channel, contour to contour, allocation study showing that interference is neither caused nor received by an FM radio station, application for facilities or construction permit, with the exception of an application filed by American Family Association (AFA) to amend the pending application in Beatrice, Nebraska. Page #3 is an explanation of the methods used to prepare this study. The AFA amendment would cause overlap to the existing KVSS construction permit. Please note in the map on Page #4 that the applicant has developed the directional antenna so that the protected 60 dBu contour travels no further than the previously authorized contour along the overlap arc with the AFA proposal. Pages 5-6 are an FMOVER table depicting the proposed facility's relationship with the original application filed by AFA for a Class A co-channel station at Beatrice, Nebraska. There are no I.F. relationships. The proposal is not within 320 kilometers of the U.S. border with Canada or Mexico.

Pages 7-11 contain information regarding the 3-bay custom directional antenna proposed by the applicant.

VSS Catholic Communications  
Minor Modification

REFERENCE 41 18 47 N CH# 205A - 88.9 MHz, Pwr= 1.5 kW, HAAT=147.0M, COR= 485 M DISPLAY DATES  
96 00 36 W Ave. F(50-10) 40 dBu= 73.7 54 dBu= 36.9 80 dBu= 7.8 100 dBu= 2.1 DATA 04-23-02  
SEARCH 04-23-02

CH CITY	CALL	TYPE STATE	AZI. <--	DI ST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	COR(M) INT(km)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
205A Omaha	KVSS. A	APP CX NE	103.1 283.1	0.55 BPED20020314ABP	41 18 43 96 00 13	0.210 71	18 35.5	10.5 Vss Catholic Communi cation	-59.47	-83.67
205A Omaha	KVSS	LIC CN NE	103.1 283.1	0.55 BLED19971015KG	41 18 43 96 00 13	0.210 71	405 35.5	10.5 Vss Catholic Communi cation	-59.47	-83.67
205A Omaha	KVSS. C	CP DEX NE	103.1 283.1	0.55 BMPED20010329ACP	41 18 43 96 00 13	2.750 101	440 74.8	23.9 Vss Catholic Communi cation	-98.75	-97.03
205A Omaha	KVSS. C	CP CX NE	103.1 283.1	0.55 BPED20011005ACC	41 18 43 96 00 13	0.500 71	405 45.1	12.9 Vss Catholic Communi cation	-69.06	-86.08
205C2 Beatrice > Reference HAAT at	*AP205	APP DVX NE	209.6 29.6	96.06 BNPED19990927AAP	40 33 38 96 34 21	4.922 93	502 82.4	26.2 American Family Associati	-1.22	20.76**
209.6°= 148.5 M, Pwr= 000.19984 kW, Pro. Dist. = 14.87 km, Int Dist. = 49.09 km										
205C3 Beatrice > Reference HAAT at	*AP205	APP V NE	205.4 25.4	111.92 BNPED19990927AAP	40 24 08 96 34 41	9.000 108	516 94.6	32.3 American Family Associati	2.47	30.47
205.4°= 149.1 M, Pwr= 000.19984 kW, Pro. Dist. = 14.9 km, Int Dist. = 49.17 km										
206C1 Shenandoah > Reference HAAT at	*AP206	APP EX IA	152.8 332.8	110.87 BNPED20000225ACT	40 25 27 95 24 40	100.000 45	368 67.1	37.3 Csn International	21.40	40.28
152.8°= 139.0 M, Pwr= 001.11672 kW, Pro. Dist. = 22.38 km, Int Dist. = 33.31 km										
206C1 Shenandoah > Reference HAAT at	*AP206	APP DEX IA	152.8 332.8	110.87 BNPED20000225ACT	40 25 27 95 24 40	100.000 45	368 67.1	37.3 Csn International	21.40	40.28
152.8°= 139.0 M, Pwr= 001.11672 kW, Pro. Dist. = 22.38 km, Int Dist. = 33.31 km										
205A Sioux City > Reference HAAT at	*AP205	APP DVX IA	342.6 162.6	113.73 BNPED20000324ABG	42 17 20 96 25 29	1.364 79	482 60.0	17.8 American Family Associatio	32.35	28.79
342.6°= 107.9 M, Pwr= 001.5 kW, Pro. Dist. = 21.4 km, Int Dist. = 67.17 km										
205C3 Adel	KIHS. C	CP DCN IA	78.2 258.2	167.06 BPED19990104MI	41 36 12 94 02 53	10.000 47	345 85.1	22.5 Csn International	57.43	70.83
203A Lincoln	KLCV	LIC VN NE	226.8 46.8	61.95 BLED19960719KA	40 55 51 96 32 50	4.700 94	455 2.5	26.0 Communi ty Broadcasting, In	34.92	33.88
207A Lincoln	KZUM	LIC CN NE	226.6 46.6	80.70 BLED19870610KA	40 48 47 96 42 24	1.500 31	405 1.6	11.4 Sunri se Communi cations, In	54.56	67.28
206C1 Hastings	KHNEFM	LIC CY NE	251.6 71.6	184.91 BLED19900625KB	40 46 17 98 05 22	68.000 329	879 102.7	70.6 Nebraska Ed Telecommuni cat	57.68	77.41
205C2 Spir it Lake	KJIA. C	CP CX IA	16.0 196.0	234.98 BPED19981231MH	43 20 34 95 12 24	50.000 83	530 127.6	41.6 Min n-iowa Christian Broadc	82.87	119.71
06+2C Omaha	WOWTTV	LI HN NE	261.3 81.3	1.44 BLCT19831024KI	41 18 40 96 01 37	100.000 418	761 0.0	113.0 Benedec License Corporatio	To Grd B= -111.53	

\*\*\*\*\* = ERP and HAAT on direct line to and from reference station. "<" = Contour Overlap

\*\*\*\*\* = This application causes overlap with the existing CP for KVSS. Under the instant proposal, the 60 dBu contour along the overlap arc has not been increased.

### HOW TO READ THE FM COMPUTER PRINT-OUT

The computer printout should be self-explanatory for the most part. The parameters of the station being checked, (reference station) are printed in the heading. The 60 dBu protected contour is predicted from the Commission's F(50-50) table, while the 40, 54, 80 and 100 dBu contours are interference contours derived from the Commission's F(50-10) table. Contour distances are in kilometers and are predicted using spline interpolation from data points identical to those published in Report No. RS 76-01 by Gary C. Kalagian. Critical contour distances are determined using the Commission's TVFMINT FORTRAN subroutine. When interference contour distances are less than 16 kilometers the F(50-50) tables are used. If signal contour distances are less than 1.6 km the free-space equation is used.

The column listed "**\* IN \***" is the sum of the reference station's 60 dBu protected contour and the data file station's interference contour subtracted from the distance between the stations. (All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket 80-90.) Therefore, the column is a measure of incoming interference. Negative distances in this column indicate the presence of interference. Listed antenna heights are the average heights of eight standard radials as found in the Commission's records unless otherwise noted, in which case the specific antenna heights and the DA power, if applicable, along the straight line azimuths between the reference station and the database station are used and visa versa. The column labeled "**\* OUT \***" shows the distance in kilometers of overlap or clearance between the reference station's interference contour and the database station's protected contour. Negative distance figures in this column indicate outgoing overlap interference.

Under the "AZIMUTH" column, the first row of numbers indicate the bearings from True North of the data base stations in relationship with the reference station, while the numbers in the second row indicate the reverse bearings from the database station to the reference station.

The columns labeled "INT" and "PRO" hold the distance in kilometers of the appropriate interference contour and the protected contour of a data base station.

For I.F. relationships the "IN" and "OUT" columns change their significance. The letter "R" stands for the minimum **required** distance in kilometers, while the letter "M" in the next column follows the **available clear space** separation in kilometers. Minimum separation distances when displayed are taken from Sec 73.207 of the rules as amended. Canadian and Mexican separation distances, U/D ratios and protected contour values are from the US/Mexican Working Agreement and the US/Canada Working Agreement".

The first three letters of the "TYPE" column identify the current FCC status of the stations. The fourth letter will be a "D" or "Z" (Sec. 73.215) if the facility is directional. The fifth letter will be an E, H or V depending on the type of antenna polarization. The sixth letter will be a "Y" if the antenna uses beam tilt.

# KVSS Change Area vs. Beatrice Applications

## KVSSNew

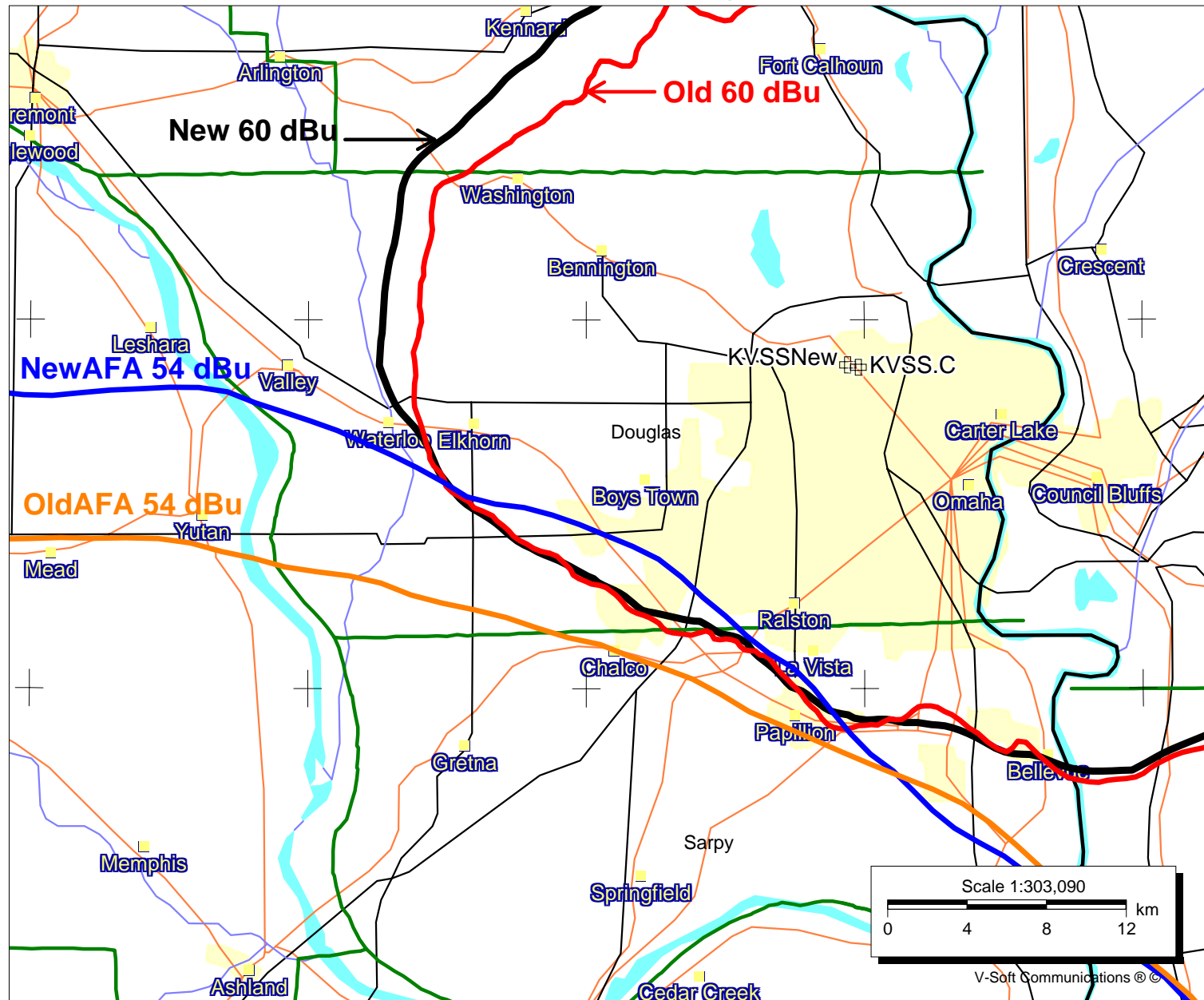
BMPED20010329ACP  
Latitude: 41-18-47 N  
Longitude: 096-00-36 W  
Power: 1.5 kW  
Channel: 205  
Frequency: 88.9 MHz  
AMSL Height: 485.0 m  
Elevation: 358.241 m  
Horiz. Pattern: Directional  
Vert. Pattern: No

## KVSS.C

BMPED20010329ACP  
Latitude: 41-18-43 N  
Longitude: 096-00-13 W  
Power: 2.75 kW  
Channel: 205  
Frequency: 88.9 MHz  
AMSL Height: 440.0 m  
Elevation: 374.06 m  
Horiz. Pattern: Directional  
Vert. Pattern: No



- KVSSNew
- KVSS.C
- NewAFA
- OldAFA



V-Soft Communications  
04-23-2002 30 Sec. Terrain Data

KVSS.C  
Channel = 205A  
Max ERP = 1.5 kW  
RCAMSL = 485 M  
N. Lat = 411847  
W. Lng = 960036

AP205 BNPED19990927AAP  
Channel = 205C3  
Max ERP = 9 kW  
RCAMSL = 516 M  
N. Lat = 40 24 08  
W. Lng = 96 34 41

Protected  
60 dBu

Interfering  
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
170.0	000.5029	0136.4	018.2	031.3	009.0000	0112.1	097.6	39.4
171.0	000.4824	0138.6	018.2	031.1	009.0000	0112.1	097.5	39.4
172.0	000.4624	0140.0	018.1	030.9	009.0000	0112.1	097.3	39.5
173.0	000.4428	0141.3	018.0	030.8	009.0000	0112.1	097.2	39.5
174.0	000.4236	0143.2	017.9	030.6	009.0000	0112.1	097.1	39.5
175.0	000.4048	0145.9	017.9	030.4	009.0000	0110.7	096.9	39.5
176.0	000.3865	0149.1	017.9	030.3	009.0000	0110.7	096.8	39.5
177.0	000.3686	0152.5	017.9	030.1	009.0000	0110.7	096.6	39.6
178.0	000.3511	0155.2	017.8	029.9	009.0000	0110.7	096.5	39.6
179.0	000.3340	0157.9	017.7	029.8	009.0000	0110.7	096.4	39.6
180.0	000.3174	0158.9	017.6	029.6	009.0000	0110.7	096.4	39.6
181.0	000.3137	0159.1	017.5	029.4	009.0000	0109.8	096.2	39.6
182.0	000.3100	0159.2	017.5	029.2	009.0000	0109.8	096.1	39.7
183.0	000.3063	0158.7	017.4	029.0	009.0000	0109.8	096.1	39.7
184.0	000.3027	0157.2	017.2	028.8	009.0000	0109.8	096.1	39.7
185.0	000.2990	0155.1	017.1	028.6	009.0000	0109.8	096.1	39.7
186.0	000.2954	0153.2	016.9	028.4	009.0000	0109.3	096.2	39.6
187.0	000.2919	0151.2	016.7	028.2	009.0000	0109.3	096.2	39.6
188.0	000.2883	0149.9	016.5	028.0	009.0000	0109.3	096.3	39.6
189.0	000.2848	0149.8	016.5	027.9	009.0000	0109.3	096.2	39.6
190.0	000.2812	0149.8	016.4	027.7	009.0000	0109.3	096.2	39.6
191.0	000.2725	0149.2	016.2	027.5	009.0000	0109.0	096.3	39.6
192.0	000.2638	0148.2	016.0	027.3	009.0000	0109.0	096.4	39.6
193.0	000.2554	0147.3	015.8	027.1	009.0000	0109.0	096.5	39.5
194.0	000.2470	0147.3	015.7	026.9	009.0000	0109.0	096.6	39.5
195.0	000.2388	0147.6	015.5	026.8	009.0000	0109.0	096.7	39.5
196.0	000.2307	0148.2	015.4	026.6	009.0000	0109.0	096.7	39.5
197.0	000.2228	0148.8	015.3	026.4	009.0000	0108.7	096.8	39.4
198.0	000.2150	0149.1	015.2	026.3	009.0000	0108.7	096.9	39.4
199.0	000.2074	0148.8	015.0	026.1	009.0000	0108.7	097.0	39.4
200.0	000.1998	0148.2	014.8	025.9	009.0000	0108.7	097.2	39.4
201.0	000.1998	0147.4	014.8	025.8	009.0000	0108.7	097.2	39.4
202.0	000.1998	0146.9	014.8	025.6	009.0000	0108.7	097.2	39.4
203.0	000.1998	0147.1	014.8	025.5	009.0000	0108.1	097.2	39.3
204.0	000.1998	0148.1	014.8	025.3	009.0000	0108.1	097.1	39.4
205.0	000.1998	0149.1	014.9	025.2	009.0000	0108.1	097.0	39.4

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
206.0	000.1998	0149.3	014.9	025.0	009.0000	0108.1	097.0	39.4
207.0	000.1998	0148.9	014.9	024.9	009.0000	0108.1	097.1	39.4
208.0	000.1998	0148.6	014.9	024.7	009.0000	0108.1	097.1	39.4
209.0	000.1998	0148.5	014.9	024.6	009.0000	0108.1	097.1	39.4
210.0	000.1998	0148.5	014.9	024.4	009.0000	0107.4	097.1	39.3
211.0	000.2068	0148.4	015.0	024.2	009.0000	0107.4	097.0	39.3
212.0	000.2139	0148.1	015.1	024.1	009.0000	0107.4	096.9	39.4
213.0	000.2211	0147.6	015.2	023.9	009.0000	0107.4	096.9	39.4
214.0	000.2284	0147.1	015.3	023.8	009.0000	0107.4	096.8	39.4
215.0	000.2358	0146.7	015.4	023.6	009.0000	0107.4	096.8	39.4
216.0	000.2434	0146.3	015.5	023.4	009.0000	0106.9	096.7	39.4
217.0	000.2510	0146.0	015.7	023.3	009.0000	0106.9	096.6	39.4
218.0	000.2588	0146.0	015.8	023.1	009.0000	0106.9	096.6	39.4
219.0	000.2667	0146.2	015.9	022.9	009.0000	0106.9	096.5	39.4
220.0	000.2748	0146.1	016.1	022.7	009.0000	0106.9	096.5	39.5
221.0	000.2788	0145.5	016.1	022.6	009.0000	0106.9	096.5	39.4
222.0	000.2828	0144.6	016.1	022.4	009.0000	0106.2	096.6	39.4
223.0	000.2868	0143.7	016.1	022.2	009.0000	0106.2	096.7	39.4
224.0	000.2909	0143.2	016.1	022.1	009.0000	0106.2	096.8	39.4
225.0	000.2950	0143.1	016.2	021.9	009.0000	0106.2	096.8	39.3
226.0	000.2992	0143.5	016.3	021.7	009.0000	0106.2	096.9	39.3
227.0	000.3033	0144.3	016.4	021.6	009.0000	0106.2	096.9	39.3
228.0	000.3075	0145.2	016.5	021.4	009.0000	0105.4	096.9	39.3
229.0	000.3118	0145.6	016.6	021.2	009.0000	0105.4	096.9	39.3
230.0	000.3160	0145.5	016.7	021.0	009.0000	0105.4	097.0	39.3
231.0	000.3305	0144.6	016.8	020.8	009.0000	0105.4	097.0	39.3
232.0	000.3453	0143.4	016.9	020.7	009.0000	0105.4	097.1	39.3
233.0	000.3604	0142.3	017.1	020.5	009.0000	0104.8	097.1	39.2
234.0	000.3759	0141.5	017.2	020.3	009.0000	0104.8	097.2	39.2
235.0	000.3917	0140.9	017.4	020.1	009.0000	0104.8	097.2	39.2
236.0	000.4078	0140.6	017.5	019.9	009.0000	0104.8	097.3	39.2
237.0	000.4242	0140.8	017.7	019.7	009.0000	0104.8	097.3	39.2
238.0	000.4410	0141.4	018.0	019.4	009.0000	0104.5	097.3	39.2
239.0	000.4581	0142.0	018.2	019.2	009.0000	0104.5	097.3	39.2
240.0	000.4755	0142.1	018.4	019.0	009.0000	0104.5	097.4	39.1