

**Proposed Modification**

The proposed modification includes changes as indicated below:

	FROM	TO
CHANNEL	294	294
CLASS	D	D
ERP	.140 kW circular, non-directional	.115 kW, circular, non-directional
HAAT	70.0 M	93.0 M
COORDINATES	44 14 53 / 105 29 40	44 14 53 / 105 29 40
ASRN	1053187	1053187
SITE AMSL	1434.7 M	1434.7 M
Tower AGL	152.4 M	152.4 M
Tower AMSL	1587.1 M	1587.1 M
COR AGL	61.0 M	84.3 M
COR AMSL	1496.0 M	1519 M

The proposed modification complies with all requirements of Section 74.1204 of the Commission's rules. The proposed 1 mV/m contour will overlap the existing 1 mV/m contour. The below listed pages of this Exhibit contains information as indicated.

Page 2	Tabulation of HAAT / distance to 1 mV/m contour
Page 3	Proposed and Existing 1 mV/m contour map
Page 4	Allocation Study

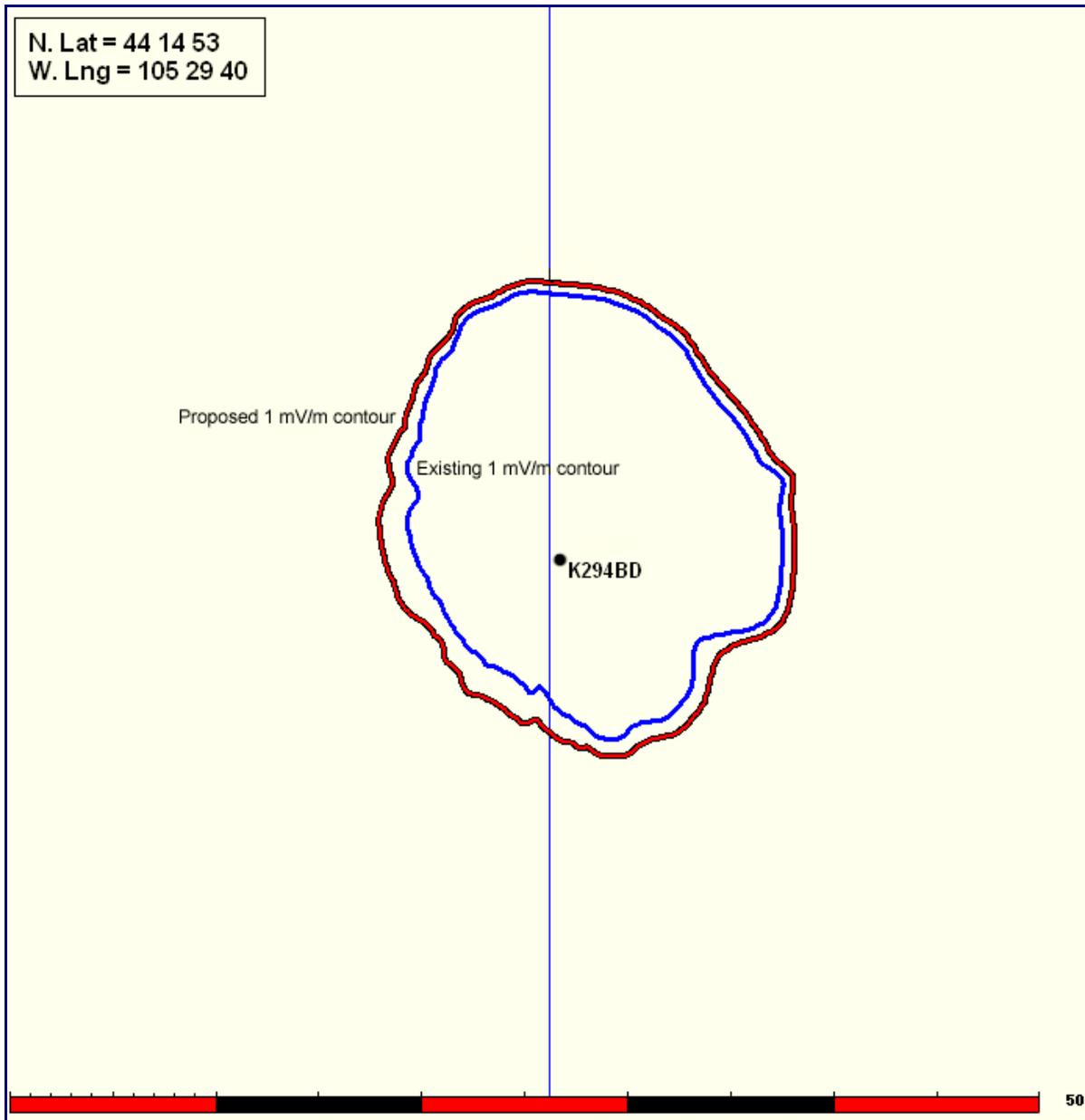
**Tabulation of HAAT / distances to 1 mV/m contour**

44 14 53 / 105 29 40 .115 kW ERP, circular, non-directional 93.0 M HAAT 1519.0 M COR AMSL

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	1362.9	156.1	0.1150	-9.39	1.000	13.29
010	1364.2	154.8	0.1150	-9.39	1.000	13.23
020	1370.4	148.6	0.1150	-9.39	1.000	12.94
030	1380.1	138.9	0.1150	-9.39	1.000	12.47
040	1398.5	120.5	0.1150	-9.39	1.000	11.64
050	1402.0	117.0	0.1150	-9.39	1.000	11.48
060	1402.0	117.0	0.1150	-9.39	1.000	11.48
070	1389.8	129.2	0.1150	-9.39	1.000	12.03
080	1400.1	118.9	0.1150	-9.39	1.000	11.57
090	1402.0	117.0	0.1150	-9.39	1.000	11.48
100	1402.0	117.0	0.1150	-9.39	1.000	11.48
110	1416.1	102.9	0.1150	-9.39	1.000	10.82
120	1445.0	74.0	0.1150	-9.39	1.000	9.22
130	1438.7	80.3	0.1150	-9.39	1.000	9.60
140	1428.5	90.5	0.1150	-9.39	1.000	10.18
150	1429.8	89.2	0.1150	-9.39	1.000	10.10
160	1428.8	90.2	0.1150	-9.39	1.000	10.16
170	1439.9	79.1	0.1150	-9.39	1.000	9.53
180	1451.3	67.7	0.1150	-9.39	1.000	8.82
190	1461.1	57.9	0.1150	-9.39	1.000	8.15
200	1465.3	53.7	0.1150	-9.39	1.000	7.82
210	1466.1	52.9	0.1150	-9.39	1.000	7.76
220	1470.0	49.0	0.1150	-9.39	1.000	7.43
230	1472.7	46.3	0.1150	-9.39	1.000	7.21
240	1474.3	44.7	0.1150	-9.39	1.000	7.07
250	1466.5	52.5	0.1150	-9.39	1.000	7.72
260	1462.7	56.3	0.1150	-9.39	1.000	8.03
270	1457.3	61.7	0.1150	-9.39	1.000	8.42
280	1451.8	67.2	0.1150	-9.39	1.000	8.79
290	1451.2	67.8	0.1150	-9.39	1.000	8.83
300	1440.1	78.9	0.1150	-9.39	1.000	9.52
310	1435.3	83.7	0.1150	-9.39	1.000	9.79
320	1417.0	102.0	0.1150	-9.39	1.000	10.77
330	1396.9	122.1	0.1150	-9.39	1.000	11.71
340	1369.3	149.7	0.1150	-9.39	1.000	12.99
350	1361.4	157.6	0.1150	-9.39	1.000	13.36

Average HAAT determined by above highlighted 12 radials

Proposed & Existing 1 mV/m contour



**Allocation Study**

CH 294 D 44 14 53 / 105 29 40 .115 kW ERP, circular, non-directional 93.0 M HAAT 1519.0 M COR AMSL

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 CH CALL TYPE AZI. DIST LAT. Pwr(kW) COR(M) PRO(km) \*IN\* \*OUT\*  
 CITY STATE <-- FILE # LNG. HAAT(M) INT(km) LICENSEE (Overlap in km)  
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Reference station:

294D	K294BD	CP	C	0.0	0.00	44 14 53	0.140	1496	12.8	-56.57*	-56.93*
Gillette		WY		0.0	BNPFT20030829AND	105 29 40	133	43.3		Family Stations, Inc.	

First, second, & third adjacent channel relationships:

291C1	NEW.C	CP	CX	127.4	3.21	44 13 50	100.000	1542	52.1	-12.22*	-49.60*
Moorcroft		WY		307.4	BMPH20060117ABX	105 27 45	106	6.0		Family Voice Communication	
297C	KSLT	LIC	CY	85.6	132.82	44 19 42	100.000	2290	87.1	108.67	44.98
Spearfish		SD		266.7	BLH20000609ABG	103 50 03	506	12.6		Bethesda Christian Broadca	

i.f. channel relationships:

None

ERP and HAAT on direct-line with reference station.

• affixed to TV6 Margin= no direct-line contour overlap.

\*\*\*affixed to 'IN' or 'Out' values = site inside protected contour.

**Allocation Study**

The FM Translator site is within the 60 dBu of the following station:

NEW.C CP 291 C1 Dom 100.000 kW 120 M HAAT M C  
Moorcroft WY 1542M COR AMSL  
Lat= 44 13 50, Lng= 105 27 45  
Family Voice Communication BMPH20060117ABX  
Fac ID# 164171  
Dist.=3.20818 km, Azi=127.4°, Rev Azi=307.4°

Reference's Overlaps : (In = -12.22, Out = -49.60)  
Toward Ref: HAAT= 106.5M, 100.0 kW  
Toward Ref: 60 dBu Protected= 52.1 km, Int= 6.04 km  
Direct line Ref. Protected Contour = 9.4 km, Int= 0.75 km  
Direct line Ref. HAAT= 76.7M, 0.115 kW

The FM will have a signal strength at the FM Translator site of 110 dBu, and the corresponding FM interference contour is the 130 dBu, which extends out 20 meters. As the FM Translator will be located 84.3 meters above ground, the FM interference contour will not reach the ground at the base of the tower, thus there will be no population within the FM interference contour. Based on this, it is presented that the proposed modification of K294BD complies with the criteria of Section 74.1204(d).

Below is a map showing the FM Translator site in relationship to the FM site and FM 60 dBu contour.

