

Technical Exhibit  
Minor Modification to K216EE  
Minot, ND  
600.8m RC-AMSL 78.1m HAAT  
48.8m AGL  
250 Watts

TABLE OF CONTENTS

	Technical Statement
Figure 1	Interference Study Table
Figure 2	HAAT

### Interference Compliance

Contour protection, as required by C.F.R. Section 74.1204 to co-channel and first, second and third adjacent channels is demonstrated herein by Figure 1.

### Height Above Average Terrain

The proposed HAAT and the predicted 60 dBu contours were calculated in accordance with Section 47 C.F.R. 73.313. The average terrain elevations were calculated along 12 radials using the NED 30m terrain database.

Figure 2 shows the HAAT of the 12 radials. The highest radial is 102.1 m above average terrain.

### International Borders

The Proposed is within 320 kM of the Canadian border. There are no related Canadian stations or allotments.

### RF Electromagnetic Exposure Analysis

Using a worst case assumption of maximum downward radiation ( $F=1.0$ ) the RF exposure at 2m above ground level is  $7.59576 \mu\text{W}/\text{cm}^2$  or 0.8% of the controlled standard. This is inconsequential when added to the RF on the tower. Moreover, the proposed will be built with half-wave spacing which will further reduce radiation at ground level.

The tower is fenced with RF warning signs. The power will be reduced or shut off to allow necessary access to the tower.

Figure 1

REFERENCE		Minor Modification to K216EE								DISPLAY DATES	
48 16 45.0 N.		CH# 216D - 91.1 MHz, Pwr= 0.25 kW, HAAT= 78.1 M, COR= 600.8 M								DATA 09-17-10	
101 21 10.4 W.		Average Protected F(50-50)= 11.44 km								SEARCH 09-20-10	
		Omni-directional									
CH	CALL	TYPE	ANT	AZI	DIST	LAT	PWR(kW)	INT(km)	PRO(km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG	HAAT(M)	COR(M)	LICENSEE	(Overlap in km)	
216D	K216EE	LIC DV_		186.2	25.6	48 03 02.0	0.160	39.6	11.6	-24.7*	-21.9
Minot		ND		6.2	BLFT19991109ACI	101 23 25.0	71	692	Horizon Christian Fellowsh		
217C1	KMHA	LIC _CN		240.0	118.5	47 44 23.0	97.000	95.8	64.8	14.0	41.4
Four Bears		ND		59.0	BLED19840612D0	102 43 24.0	137	827	Fort Berthold Communicatio		

-----  
 Terrain database is NED 03 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM  
 Contour distances are on direct line to and from reference station. Reference zone = 2, Co to 3rd adjacent.  
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C, H, V, E), Beamtilt(Y, N, X)  
 "\*"affixed to 'IN' or 'OUT' values = site inside protected contour.  
 < = Contour Overlap

Figure 2

