

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

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### 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  
48 16 45.0 N.  
101 21 10.4 W.

CH# 216D - 91.1 MHz, Pwr= 0.25 kW, HAAT= 78.1 M, COR= 600.8 M  
Average Protected F(50-50)= 11.44 km  
Omni-directional

DISPLAY DATES  
DATA 09-17-10  
SEARCH 09-20-10

CH CITY	CALL	TYPE STATE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
216D Mi not	K216EE	LIC DV_ ND		186.2 6.2	25.6 BLFT19991109ACI	48 03 02.0 101 23 25.0	0.160 71	39.6 692	11.6 Horizon Christian Fellowsh	-24.7*	-21.9
217C1 Four Bears	KMHA	LIC _CN ND		240.0 59.0	118.5 BLED19840612D0	47 44 23.0 102 43 24.0	97.000 137	95.8 827	64.8 Fort Berthold Communicatio	14.0	41.4

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

**Call Letters: K216EE**  
 Latitude: 48-16-45 N  
 Longitude: 101-21-10.40 W  
 ERP: 0.25 kW  
 Channel: 216  
 Frequency: 91.1 MHz  
 AMSL Height: 600.8 m  
 Elevation: 552 m  
 Horiz. Antenna Pattern: Omni  
 Vert. Elevation Pattern: No

Type of contour: FCC  
 Location Variability: 50.0 %  
 Time Variability: 50.0 %  
 # of Radials Calculated: 360  
 V-Soft Accurate HAAT Calculation Used  
 Field Strength: 60.00 dBuV/m

Primary Terrain: NED 30 Meter Terrain

Bearing (deg)	Distance (km)	HAAT (m)
0.0	12.2	89.4
30.0	12.8	98.2
60.0	13.0	102.1
90.0	12.8	98.9
120.0	12.6	95.9
150.0	11.7	82.4
180.0	10.6	65.7
210.0	9.9	56.3
240.0	8.7	45.0
270.0	10.3	61.6
300.0	11.7	81.7
330.0	10.2	59.8

Average HAAT for radials shown: 78.1 m

