

### **Family Stations, Inc.**

Facility ID 20825, K217CD, Great Falls, MT

Minor Change of Licensed Facility (Channel, AMSL, Structure, ERP)

47-27-51.8 N+, 111-21-21.1 W- (NAD83) RCAMSL = 1136.9 m ERP = 0.015 kW (H&V)

### **Second-Adjacent Channel Interference Statements**

The applicant acknowledges second-adjacent channel overlap with KAFH, Great Falls, MT. The amount of signal from KAFH arriving at the applicant's proposed transmitter site is 70 dBu. Using the 40 dB Undesired-to-Desired ratio method for determining second or third adjacent channel interference, the pertinent interfering contour is 110 dBu. According to the FCC online computer program "FM and TV Propagation Curves Calculations", the interfering contour extends 86 meters from the antenna location proposed in the instant application. The applicant has attached an aerial photograph exhibit showing the interfering contour and showing that the entire area within the interfering contour is completely absent of population. Any structures in the vicinity of the tower site are unmanned equipment shelters related to the tower site use or associated adjacent towers. Since the map shows that there is no population in the interfering contour, this application is compliant with 47 CFR Section 74.1204 with respect to second-adjacent channel interference.

The applicant acknowledges second-adjacent channel overlap with KGFA, Great Falls, MT. The amount of signal from KGFA arriving at the applicant's proposed transmitter site is 74 dBu. Using the 40 dB Undesired-to-Desired ratio method for determining second or third adjacent channel interference, the pertinent interfering contour is 114 dBu. According to the FCC online computer program "FM and TV Propagation Curves Calculations", the interfering contour extends 54 meters from the antenna location proposed in the instant application. The applicant has attached an aerial photograph exhibit showing the interfering contour and showing that the entire area within the interfering contour is completely absent of population. Any structures in the vicinity of the tower site are unmanned equipment shelters related to the tower site use or associated adjacent towers. Since the map shows that there is no population in the interfering contour, this application is compliant with 47 CFR Section 74.1204 with respect to second-adjacent channel interference.

### **Compliance with respect to interference to Canadian stations**

According to the "Agreement between the Government of Canada and the Government of the United States of America Relating to the FM Broadcasting Service and the Associated Working Arrangement", a Low Power FM Station is allowed when the effective radiated power does not exceed 50 watts in any direction and an interference contour (34 dBu) not to exceed 32 kM subject to 4.1 and 4.2 above. 4.1 and 4.1 refer to the allowed channels and the secondary nature of Low Power FM Stations, of which licensed FM translators are classified.

The Effective Radiated power of the proposed facility is 15 watts and the f(50,10) 34 dBu contour does not exceed 32 km in any direction. Thus the instant application is compliant with respect to the "Agreement".

Attachments:

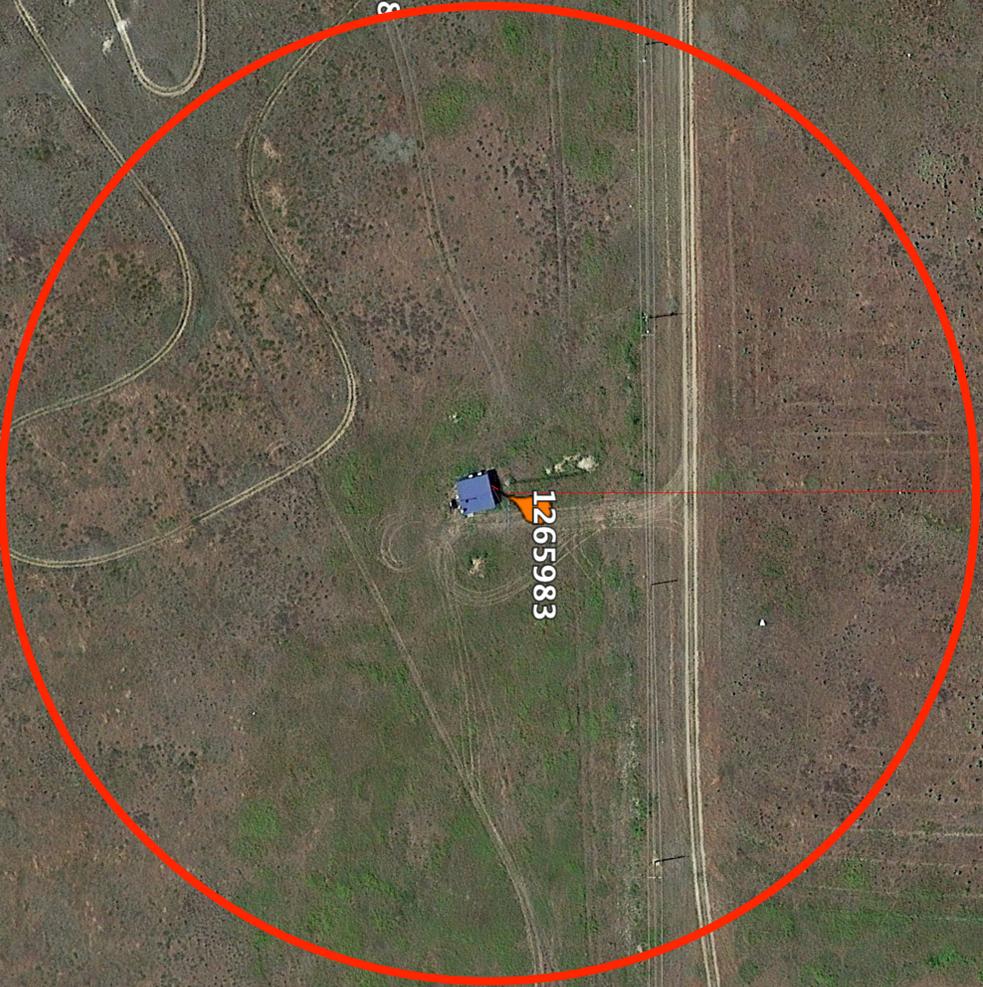
- (1) Aerial Photograph Exhibit
- (2) Demonstrated Compliance with the "Agreement between the Government of Canada and the Government of the United States of America Relating to the FM Broadcasting Service and the Associated Working Arrangement"

\*\* End of Narrative Exhibit \*\*

# Proposed K217CD Aerial Photo Exhibit

Circle Area Showing No Population within 86 Meter Radius

- Legend**
- Feature 1
  - Graphic



1214308

1265983

12584



100 m

