

APPLICATION FOR NEW STATION

Engineering Proposal File Number: BSFH 20040806ALB

Facility ID Number: 164248

CHANNEL 231A, Vernon Center, MN

Radioactive, LLC

Technical Narrative

This engineering statement has been prepared in support of an application for a new station to operate on channel 231A at Vernon Center, MN. This allocation was auctioned in FCC Auction 37.

Proposed Transmitter Location and Facilities:

It is proposed to locate the antenna on an existing tower located at 44-01-21 North, 94-08-50 West using the NAD 27 database. The antenna site registration number is 1220071.

Allocation Study:

Exhibit 29A is a spacing study showing Channel 231A at the proposed coordinates. The minimum separation distance requirements, specified in Section 73.207(b) of the Rules, are met to all existing and proposed stations except KIAL, Mason City IA which is 5.8 km short. Exhibit 29B1 is a map showing the Proposed Service (60 dBu F(50,50)) and Interference (54 dBu F(50,10)) contours and the service and interfering contours of KIAL as if it operated at full Class C1 facilities. Exhibit 29B2 is an enlargement showing the area of proximate contours for the Proposed Operation and KIAL. Since no prohibited overlap occurs, the proposal meets the requirements of Section 73.215. The applicant therefore respectfully requests processing under Section 73.215 of the Commission's rules.

FCC Predicted Coverage:

The predicted coverage contours (60 dBu F(50,50) and 70 dBu F(50,50)) were calculated using 72 radials evenly spaced at 5 degree angles.

Exhibit 23 is a map showing the predicted coverage contours. As can be seen, the FCC predicted 70 dBu contour completely encompasses the City of Vernon Center, MN.

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RFR Compliance:

The proposed facilities were evaluated using the FCC RF worksheet number 1 and were found to reach 5.2% of the worst case controlled/occupational limit for RF exposure. It is therefore believed that this proposal is in compliance with OET Bulletin 65 as required.