

APPLICATION FOR NEW STATION
Engineering Proposal File Number: BSFH 200400806AKQ
Facility ID Number: 164237

CH 240A Watseka, IL
Radioactive, LLC

Technical Narrative

This engineering statement has been prepared in support of an application for a new station to operate on channel 240A at Watseka, IL. 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 40-46-17 North, 87-46-13 West using the NAD 27 database. The antenna site registration number is 1009301.

Allocation Study:

Exhibit 29A is a spacing study at the proposed transmitter coordinates which shows that Channel 240A will satisfy the Commission's minimum separation distance requirements, specified in Section 73.207(b) of the Rules, to all existing and proposed stations except for a 2.9km short spacing to WLFF Attica, IN. Exhibit 29B is a map showing the proposed service and interfering contours and the service and interfering contours of WLFF. No prohibited overlap occurs. Since WLFF is designated as a 73.215 station, the requirements of Section 73.215 of the Commission's Rules are met. The applicant therefore respectfully requests processing under Section 73.215 of the FCC rules.

FCC Predicted Coverage:

The predicted coverage contours 60 dBu F(50,50) and 70 dBu F(50,50) were calculated , using 12 radials evenly spaced at 30 degree angles.

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

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RFR Compliance:

The proposed facilities were evaluated using the FCC RF worksheet number 1 and were found to reach 7.9% 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. Additionally, the applicant will see that signs are posted in the vicinity of the tower warning of potential radio frequency hazards. The site itself will be restricted from public access. All station personnel and contractors will be required to follow appropriate safety procedures before any work is started on the tower, including reduction of power or discontinuance of operation.