

APPLICATION FOR NEW STATION

Original FCC File Number: BSFH 20040806ALH

FCC Construction Permit File Number: BNPH 20050103ACN

Facility ID Number: 164254

CH 243C3 Ingram, TX

Radioactive, LLC

Exhibit 25 - Technical Narrative

This engineering statement has been prepared in support of an application to modify the construction permit number BNPH 20050103 ACN for a new station at Ingram TX.

One Step Upgrade:

CP Number BNPH 20050103 ACN is for CH 243A. The applicant proposes a one step upgrade to CH 243C3 with 30-04-31 North, 99-16-22 West as reference coordinates. These coordinates are fully spaced to all current and proposed facilities except for a proposed 243C2 to Lago Vista, TX and a proposal to add CH 243 C3 to Kerrville, TX as shown by Exhibit 25A. CH 243C at Lago Vista and Channel 243C3 to Kerrville are mutually exclusive to CH 243A at Ingram, TX which was awarded in Auction 37 and for which a CP has been issued. These coordinates are 4.6km from the farthest edge of the city limits of Ingram, well within the normal 23km distance to the 70 dBu contour of a Class C3 station.

Proposed Transmitter Location:

It is proposed to modify the station class from Class A to Class C3 via the "one step" process. The transmitting antenna will be located on an existing tower at 30-07-04 North, 99-11-40 West NAD 27 coordinates. The tower registration number is 1240029.

Allocation Study:

Channel 243C3 at the proposed transmitter location 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 the license and application for KQBT, Llano, TX., KHFI, Georgetown TX., a proposal to allocate CH 243C2 to Lago Vista, TX., and a proposal to add Channel 243C3 to Kerrville, TX. The proposals to allocate CH243C2 to Lago Vista TX and the proposal to allocate CH 243C3 to Kerrville are mutually exclusive to the current Ch 243A CP for Ingram, and are not considered. It is proposed to operate Channel 243C3 at less than maximum C3 facilities in order to comply with the requirements of Section 73.215 of the Rules. Exhibit 29A is a map showing the predicted 60dBu f(50,50) service contours and 54dBu f(50,10)

APPLICATION FOR NEW STATION

Original FCC File Number: BSFH 20040806ALH

FCC Construction Permit File Number: BNPH 20050103ACN

Facility ID Number: 164254

interfering contours or the proposed operation of Ch 243C3 at Ingram, the licensed and proposed operation of KQBT, which is licensed under Section 73.215 of the rules, and the contours of KHFI computed as if KHFI operated at maximum power and height for a Class C1 station. The contours were drawn using 360 radials spaced every one degree. As Exhibit 29A shows, no prohibited contour overlap occurs using the power and height requested for CH 243C3 in this application.

Processing under Section 73.215 of the Rules is respectfully requested. Exhibit 29 is an Allocation Study of the proposed coordinates.

FCC Predicted Coverage:

The predicted coverage contours (60 dBu F(50,50) and 70 dBu F(50,50)) were calculated in accordance with the provisions of 73.313, using eight radials evenly spaced at 45 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 Ingram, TX.

RFR Compliance:

The proposed facilities were evaluated using the FCC RF worksheet number 1 and were found to reach 44% of the worst case controlled/occupational limit for RF exposure. This considers both the operation of KRNH and the proposed operation of Channel 243C3. 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 is 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.