

TECHNICAL EXHIBIT
ONE-STEP APPLICATION
FOR
STATION KCFX (FM)
HARRISONVILLE, MISSOURI
CH 266C0 100KW 335 M

Narrative

The attached technical exhibit of which this narrative is a part has been prepared on behalf of Susquehanna Kansas City Partnership, licensee of FM broadcast station KCFX, Harrisonville, MO. Facility number 27021.

KCFX is currently authorized to operate on channel 266C1 with an ERP of 97kw and a height above average terrain of 303 meters. (BMLH-20000719AAG)

The applicant hereby requests one step upgrade processing to operate on channel 266C0 and further requests a construction permit for 100kw at a HAAT of 335 meters.

Figure 1 attached, is a separation study from a reference location whose coordinates are:

38° 56' 25" N 94° 28' 14" W - NAD 27

(The above coordinates are for allocation purposes only.)

This proposed allotment site fully complies with the minimum separation requirements of §73.207 for operation on channel 266C0 to all existing and proposed authorizations and allotments and is situated 33.6 Kilometers from the center of Harrisonville. The minimum requirements for a Class C0 is 100kw at a height above average terrain of 301 meters. A minimum facility such as this would result in a 70dbu (city grade) signal with a radius of approximately 50 km over uniform terrain. Figure 2 is a map showing this radius from the proposed allotment location which completely encompasses the community of Harrisonville, thus showing compliance with §73.203(b) and §73.315.

By means of this instant application, a Construction Permit for operation on Channel 266C0 at the following coordinates is also requested.

39° 01' 19.9" N 94° 30' 48.9" W - NAD 27

Figure 3 is a separation study showing this proposed site to be in full compliance with the minimum separation requirements of §73.207 for operation on channel 266C0 to all existing and proposed authorizations and allotments with the exception of radio station KLZA, Channel 267C3, Facility No. 35286, licensed to Falls City, Nebraska. The proposed operation of KCFX would result in a short spacing to KLZA of 7.17 km, or a distance between the two sites of 155.8 km. The applicant wishes to invoke the provisions of §73.215 (contour protection) with respect to this short spacing. The minimum allowed distance between a C0 and C3 first adjacent channel under §73.215(e) is 152 km. This request therefore complies with that section.

Figure 4 is a map showing the predicted coverage from the proposed construction permit location with an ERP of 100kw at a HAAT of 335 meters while operating with a non-directional antenna. It is shown that the Community of Harrisonville would be completely served with City Grade (70dbu) signal and shows the 60dbu f(50/50) service contour of radio station KLZA falling short of the 54dbu f(50/10) interfering contour of the proposed KCFX operation. In as much as KLZA is operating as a full Class C3, (25kw at a HAAT of 100 meters) its present facility was used for this analysis. The above contours were generated using a 15 second terrain database and software provided by RadioSoft Inc, and were calculated using 72 evenly spaced radials.

The proposed site for KCFX has been determined to be "of no hazard to air navigation" by the FAA under Aeronautical Study 01-ACE-2136-OE, a copy of this determination is attached and designated as Figure 5. This determination has been modified by Notice of Proposed Construction or Alteration by Aeronautical Study 02-ACE-8915-OE (Figure 5A) in order to correct minor changes in both the coordinates and overall height above mean sea level of the proposed structure. Application for FCC registration for this tower has not yet been applied for, as the tower owner, Richland Towers Inc., is awaiting final resolution of Aeronautical Study 02-ACE-8915-OE. It should be noted that the corrected information as shown in the modified Notice of Proposed Construction is the data utilized in this application.

Figure 6 is a sketch of the proposed tower structure showing all pertinent heights of the proposed structure and associated antenna.

It is believed that this request for a one step upgrade from class C1 to class C0 for Radio Station KCFX, as well as application for construction permit complies with all requirements of 47CFR Part 73.

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