

FCC Form 301-FM
Section III-B(17)
Application For Construction Permit
Radio Station KBEX(FM)
Dalhart, Texas
Facility ID 15018

August 11, 2014

Exhibit 35 Environmental Statement

There is no actual construction proposed in this application and there are no environmental issues that need to be addressed in order to demonstrate compliance with the provisions of Section 1.1306 of the Commission's Rules.

Compliance with RF Exposure Guidelines

There are 2 radiating sources located on the KBEX(FM) tower that need evaluation to demonstrate compliance with the potential to expose the public to harmful RF radiation. Radio Station KBEX(FM), (facility ID 15018) radiates a power of 100 kw with center of radiation 215 meters above ground level and Radio Station KAMT(FM), (facility ID 183356) radiates a power of 33 kw with center of radiation 180 meters above ground level.

Using a worst case analysis outlined in OET Bulletin 65, KBEX(FM) has a worst case radiation of 147.2 microwatts/sq. cm 2 meters above ground and KAMT(FM) has a worst case radiation of 69.6 microwatts/sq. cm 2 meters above ground. The total potential exposure to harmful radiation is 216.8 microwatts/sq. cm 2 meters above ground at the base of the tower. The limit for radiation in an uncontrolled environment is 200 microwatts/sq. cm and the worst case radiation from the 2 radiating sources exceed the maximum allowed by 16.8 microwatts/sq. cm.

The actual radiation from the 2 radiation sources using the actual vertical radiation pattern for each of the facilities was used to more precisely calculate the expected radiation from the 2 sources. The vertical radiation pattern for each of the facilities is attached for reference.

The maximum actual radiation for KBEX(FM) 2 meters above ground level using the vertical radiation pattern is at a depression angle of 77 degrees and the relative radiation is 0.258. The calculated radiation at this depression angle 2 meters above ground is 4.68 microwatts/sq. cm at a distance of 49 meters from the tower base. Similarly, the actual maximum radiation for KAMT(FM) is at a depression angle of 76 degrees and the relative radiation is 0.274. The calculated radiation at this depression angle 2 meters above ground is 3.04 microwatts/sq. cm 39 meters from the tower base.

If the peak radiation in the range of 35-50 meters from the tower base is assumed to be the sum of the peak radiation calculated, the total radiation from the 2 sources would not exceed 7.74 microwatts/sq. meter at 2 meters above ground level, well below the allowed limit of 200 microwatts/sq. meter specified in OET Bulletin 65.

The facilities proposed in this application will not inadvertently expose the public to potentially harmful radiation.

The applicant will cooperate with other users of this site to ensure that maintenance personnel are not subjected to potentially harmful radiation. While maintenance personnel are working on the tower the applicant will reduce power or terminate transmitter operation as may be necessary to minimize the risk of exposure to potentially harmful RF radiation to maintenance personnel.

CERTIFICATION

This engineering statement has been prepared by the undersigned and is true and correct to the best of his knowledge and belief, and is submitted in good faith. My qualifications are a matter of record before the Commission.

The undersigned is aware that this document is being filed with the Federal Communications Commission in connection with FCC Form 301-FM filed by Radio Dalhart, Inc., and hereby consents to its use for that purpose.

Dated this 11th day of August 2014.

Respectfully,

A handwritten signature in black ink, appearing to read "F. W. Hannel", written over a horizontal line.

F. W. Hannel, PE

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