

**APPLICATION  
FOR A  
CONSTRUCTION  
PERMIT**

**FCC FORM 301**

**(REQUESTING CONSIDERATION UNDER §73.215)  
(Non-Directional Antenna)**

**Facility Identification Number 48918**

**KQXY**

**Beaumont, Texas**

**CHANNEL 231C1 – 94.1 MHz**

**ERP: 100 kW (H & V)**

**HAAT: 110 meters**

**APPLICANT: CUMULUS LICENSING CORP.**

**November, 2003**

**Prepared by:**



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**Engineering Statement**  
**In Support of a Application**  
**For a Construction Permit**  
**KQXY, Beaumont Texas, Channel 231C1**

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**ENGINEERING STATEMENT**

**Of**

**Reynolds Technical Associates**

**In Support of an**

**Application for a**

**Construction Permit**

**KQXY**

**Beaumont, Texas**

**Channel 231C1 – 94.1 MHz**

**ERP: 100 kW(H & V)**

**HAAT: 110 m**

**November, 2003**

**General**

As broadcast technical consultants doing business as Reynolds Technical Associates, we have been authorized by Cumulus Licensing Corp. (herein referred to as “Cumulus” as well as “The Applicant”), licensee of KQXY, Beaumont, Texas, to conduct engineering studies and prepare the engineering portion of an application for a construction permit.

This instant application is seeking to change transmitter relocation, effective radiated power and all elevations of the transmitting antenna.

**The Proposed Site**  
**(Exhibits E, Figure 1 through 5)**

Exhibit E, Figure 1 is a channel spacing study for the proposed, showing the facilities considered.

The terrain averaging contour study (Exhibit E, Figure 2) shows the HAAT to be 110 meters.

Exhibit E, Figure 3 is the service contour map displaying the FCC F(50,50) 70 and 60 dBu contours of the proposed. A 30-second terrain database was used to compute the average terrain. The proposed 70 dBu covers 83% of Beaumont.

Exhibit E, Figure 4 is a vertical sketch of the proposed antenna supporting structure. The FAA has been notified of the proposed construction. Upon receiving determination of no hazard, an antenna supporting structure number will be applied for.

The distance to the blanketing contour is calculated to be 3.94 kilometers (2.45 miles).

**Protected and Interfering Contours**  
**(Exhibits E, Figure 5 through 8)**

Exhibit E, Figure 5 is a map displaying the protected and interfering contours of KQXY to facilities that are to be protected under §73.215. Exhibit E, Figures 6 through 13 are FM overlap studies.

**Human Exposure**  
**(Exhibit E, Figure 14)**

The proposed FM facility was evaluated in terms of potential radiofrequency radiation exposure at ground level in accordance with the FCC's "FMModel" program.

The antenna for The Applicant's proposed FM broadcast station is to be placed on a new tower. The proposed center of radiation above ground level is 109 meters, with an ERP of 100 kW (both horizontal and vertical). The controlled/occupational limit, as well as the uncontrolled/general public limit is in compliance. Power density two (2) meters above ground is  $0.171 \text{ mW/cm}^2$ , below the maximum allowable limit of  $0.2 \text{ mW/cm}^2$  for uncontrolled/general public exposure limits as well as the  $1.0 \text{ mW/cm}^2$  for controlled/occupational exposure limits.

Should anyone be required to climb the tower, KQXY will either reduce power or cease operation, so as to prevent hazardous exposure to radiofrequency radiation.

**Environmental Impact**  
**(No Exhibits)**

A grant of the proposed construction would not constitute a major action as defined in the Commission's Rules and Regulations.

During operation, the facility will produce no chemical or significant thermal pollution, and no ionizing radiation will be generated. Areas of high intensity radiofrequency fields will be confined to the immediate area of the transmitting antenna, far above the ground and away from any human and wildlife population.

The area is not officially designated as a wilderness area or wildlife preserve and is not pending consideration. The area has no significant value in American history, architecture, archaeology, or culture, which is listed in the Register of Historic Places, and it is not eligible for listing. It is not recognized either nationally or locally for special scenic or recreational value.

**Conclusion**

This statement/application has been prepared for The Applicant by utilizing the latest available information, cross-checked with the Federal Communications Commission and other sources. Therefore, it is submitted that the proposed is in compliance with the Commission's Rules and Regulations and other sources. Therefore, it is submitted that the engineering data compiled and demonstrated herein for the proposed is in compliance with Commission's Rules and Regulations at the time of this application's filing date. We welcome the opportunity to discuss with the staff of the Federal Communications

Commission the engineering data contained in this application. Should any questions arise concerning the information, please contact us.

The following pages are exhibits prepared and assembled in support of the proposed.

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**Statement of the Consultants**

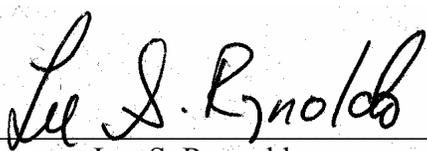
The instant engineering statement (amendment to a pending application) was prepared for Cumulus Licensing Corp. (“The Applicant”) and supports an application for a construction permit of KQXY, Beaumont, Texas. It was developed by Reynolds Technical Associates (“RTA”) and may not be used for purposes other than submission to the Commission by The Applicant.

It may not be reproduced in its entirety, or in part, by anyone (other than from the Commission) without the written consent of RTA.

It is prepared for The Applicant under contractual agreement, and its certification by RTA is used accordingly. If The Applicant fails in its contractual obligation, RTA reserves the right to withdraw its certification.

The information in this application is compiled from the most recent Commission and outside data. RTA is not responsible for errors resulting from incorrect data or unpublished rule and procedure changes.

For RTA:

  
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Lee S. Reynolds

November 14<sup>th</sup>, 2003

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