

**APPLICATION
FOR A
CONSTRUCTION
PERMIT**

FCC FORM 301

FACILITY NUMBER 37827

**(REQUESTING CONSIDERATION UNDER §73.215)
(ONE-STEP UP-GRADE)**

KLSZ-FM

VAN BUREN, ARKANSAS

CHANNEL 274C2 (98.5 MHz)

ERP: 17.0 kW (H&V)

HAAT: 175.0 METERS (H&V)

APPLICANT: Cumulus Licensing Corp

AUGUST, 2001

Prepared by:



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Engineering Statement
In Support of an
Application for a Construction Permit
KLSZ-FM, 274C2, Van Buren, Arkansas

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ENGINEERING STATEMENT

Of

Lee S. Reynolds

And

Virgle Leon Strickland

In Support of an

Application for a

Construction Permit

KLSZ-FM

Van Buren, Arkansas

Channel 274C2 – 98.5 MHz

ERP: 17.0 kW(H&V)

HAAT: 175.0 m (H&V)

August, 2001

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 KLSZ-FM, Van Buren, Arkansas, to conduct engineering studies and prepare the engineering portion of an application for a construction permit.

This instant application seeks a one-step up-grade of KLSZ-FM, from 274C3 to 274C2 as a minor change of license facility (BLH-19920720KA).

The attached engineering exhibits will show that when KLSZ-FM operates as a class C2 facility with an ERP of 17 kW and a HAAT of 175.0 meters (CORAMSL of 1100 meters), it will be in compliance with all the Commission’s Rules and Regulations.

Allocation Studies
(Exhibits E, Figure 1 through 3)

Exhibit E, Figure 1 is an allocations study demonstrating that the allocation site meets the separation requirements for a class C2. Exhibit E, Figure 2 is a map with the hypothetical 70 dBu F(50,50) contour for a class C2 facility and the city boundaries of Van Buren. The map demonstrates that the hypothetical 70 dBu contour encompasses the entire city of license. An allocation site map is being included as Exhibit E, Figure 3.

The Site, Surrounding Terrain and Predicted Service Contours
(Exhibits E, Figures 4 through 8)

A channel spacing study was performed for the proposed site. The Applicant's proposed transmitter site will meet all the required §73.215 separation requirements specified in the Commission's Rules and Regulations as displayed by Exhibit E, Figure 4.

A computer study was conducted to determine the average terrain elevations for each of the eight required radials, plus an additional 16 radials (one every 15°) for a total of 24, beginning with true north, then at intervals of 15 degrees. Only the 8 cardinal radials were considered to establish the terrain average. The average of each cardinal radial was taken from three to sixteen kilometers, at 0.1-km intervals. The NGDC 30-second database was used to conduct the computer study. Exhibit E, Figure 5 is a copy of the terrain study and the contour study showing the distance to the service contours and the average elevations of each.

Exhibit E, Figure 6 is a contour comparison study showing that when the proposed operates with 17.0 kilowatts at 175.0 meters HAAT, it can be classified as a class C2 facility.

The proposed site is shown in Exhibit E, Figure 7 on a portion of 7.5-minute quadrangle map.

Exhibit E, Figure 8 is a vertical plane sketch of the proposed supporting structure depicting the elevations in meters as well as feet. A FAA application has been submitted for the proposed tower.

There are no proposed or authorized FM or TV transmitters, nor any non-broadcast radio stations within 60 meters of the proposed antenna. There are no proposed or authorized FM or TV transmitters that may produce receiver-induced intermodulation interference within ten (10) kilometers of the proposed transmitting antenna. There are no AM facilities within 3.2 kilometers of the proposed tower site.

The distance to the blanketing (115 dBu) contour is calculated to be 1.246 kilometers.

Exhibit E, Figure 9 is a map that shows the F(50,50) 70-dBu contour and 60 dBu contours. The map shows that 100% of the community of license (Van Buren, Arkansas) is encompassed by the F(50,50) 70-dBu contour, in compliance with §73.315(a) of the Commission's Rules and Regulations.

Protected and Interfering Contours Studies **(Exhibits E, Figure 10 through 12)**

Exhibit E, Figures 10 and 11 are FM overlap studies and Exhibit E, Figure 12 is a map displaying the protected and interfering contours of the FM overlap studies.

Human Exposure to Radiofrequency Radiation **(No Exhibits)**

The proposed FM facility was evaluated in terms of potential radiofrequency radiation exposure at ground level in accordance with the RF Worksheet #1 (FCC Worksheet 3, pages 5 and 6).

The proposed center of radiation was rounded to above ground level is 88.4 meters, with an ERP (both horizontally and vertically) of 17.0 kW. According to this study, the power density 2 meters above ground at the base of the tower will be 0.152 mW/cm². The proposed is in compliance with the occupational/controlled limit (1.0 mW/cm²) and the general public/uncontrolled limit (0.2 mW/cm²).

A radiofrequency radiation warning sign is to be placed at the base of the tower with clearly visible instructions to workers who climb the tower. The sign shall instruct anyone working on the tower to reduce (or turn off) the FM transmitter, whichever is appropriate, in order to avoid harmful 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

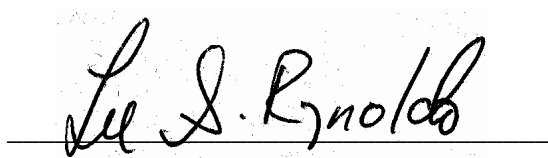
The instant engineering statement (amendment to a pending application) was prepared for Cumulus Licensing Corp ("The Applicant") and supports an application for a construction permit of KLSZ-FM, Van Buren, Arkansas. It was developed by Lee S. Reynolds and Virgle Leon Strickland of Reynolds Technical Associates 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 Strickland and/or Reynolds.

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

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

For Strickland and Reynolds:

A handwritten signature in black ink, reading "Lee S. Reynolds", is written over a horizontal line.

Lee S. Reynolds

August 9th, 2001

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