

**APPLICATION
FOR A
CONSTRUCTION
PERMIT**

FCC FORM 301

FACILITY NUMBER 59702

(REQUESTING CONSIDERATION UNDER §73.215)

KKDA-FM

DALLAS, TEXAS

CHANNEL 283C (104.5 MHz)

ERP: 100.0 kW (H&V)

HAAT: 508.4 meters (H&V)

APPLICANT: SERVICE BROADCASTING I, LTD

MARCH, 2001

Prepared by:



**2421 Presidents Drive, Suite B-23
Montgomery, AL 36116
(334) 323-3620**

Engineering Statement
In Support of an
Application for a Construction Permit
KKDA-FM, Dallas, Texas
Channel 283C

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ENGINEERING STATEMENT

Of

Lee S. Reynolds

And

Virgle Leon Strickland

In Support of a

Application for a

Construction Permit

KKDA-FM

Service Broadcasting I, LTD

Dallas, Texas

Channel 283C – 104.5 MHz

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HAAT: 508.4 m (H&V)

March, 2001

General

As broadcast technical consultants doing business as Reynolds Technical Associates, we have been authorized by Service Broadcasting I, LTD (herein referred to as “Service” as well as “The Applicant”), licensee of KKDA-FM, Dallas, Texas, to conduct engineering studies and prepare the engineering portion of an application for a construction permit.

The attached engineering exhibits will show that when KKDA-FM operates as a class C facility with an ERP of 100 kW and a HAAT of 508.4 meters (CORAMSL of 698.1 meters, it will be in compliance with all the Commission’s Rules and Regulations.

Channel Spacing Study
(Exhibit E, Figure 1)

The proposed transmitter site is approximately 29.94 kilometers north-northeast (37.5°) of the central business district of Dallas with the geographical coordinates 32° (degrees), 35' (minutes), 19" (seconds) North Latitude; 96° (degrees), 58' (minutes), 05" (seconds) West Longitude. A channel spacing study was performed to insure that the proposed site meets all of the minimum separation requirements with respect to other authorized co-channel, adjacent-channel, I.F. separated channels, new allocations and proposed allocations. The stations considered in the study are listed by channel in Exhibit E, Figure 1 showing the location, separation, and the required minimum spacing of each.

The results of the channel allocation study indicates that The Applicant's proposed transmitter site will meet all the required §73.207 separation requirements specified in the Commission's Rules and Regulations, except for KWOW in Clifton, Texas. KKDA-FM proposes to protect that station under §73.215.

The Site and Surrounding Terrain
(Exhibit E, Figure 2)

A computer study was conducted to determine the average terrain elevations for each of the eight required radials. The eight 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 2 is a copy of the terrain study and the contour study showing the distance to the service contours and the average elevations of each. According to the computer study, the elevation of the licensed (and proposed) site is 55.0 meters (180.3 feet) above the average terrain.

A list of facilities within 60 meters of the proposed antenna is included as part of Exhibit E, Figure 5. 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 3.94 kilometers.

Predicted Service Contours
(Exhibit E, Figure 3)

Exhibit E, Figure 3 is a map that shows the F(50,50) 70-dBu contour and 60 dBu contours. The map shows that all of the community of license (Dallas, Texas) is encompassed by the F(50,50) 70-dBu contour, in compliance with §73.315(a) of the Commission's Rules and Regulations.

KKDA-FM Proposed Site Map
(Exhibit E, Figure 4)

Exhibit E, Figure 4 is a portion of the Center Hill, Texas USGS 7.5 minute quadrangle map with the proposed transmitter site clearly labeled. This map shows that the proposed site is a usable site and that the site elevation is 802.8 feet (244.7 meters) AMSL.

Antenna and Supporting Structure
(Exhibit E, Figure 5)

The elevation above mean sea level of the proposed site is 244.7 meters (802.8 feet) AMSL. According to a computer study of the eight cardinal radials at 3 to 16 kilometers (utilizing the NGDC 30-second database), the average terrain surrounding the proposed transmitter site is 189.7 meters (622.5 feet). Therefore, the proposed site is 55.0 meters (180.3 feet) below the average terrain. Exhibit E, Figure 4 is a vertical plane sketch of the proposed supporting structure depicting the elevations in meters as well as feet.

Protection Afforded KWOW, Clifton, Texas
(Exhibit E, Figures 6-8)

Exhibit E, Figures 6 and 7 are overlap studies that demonstrate that the proposed KKDA-FM contours do not interfere with the KWOW construction permit site contours when that station is treated as a 73.215 facility. Exhibit E, Figure 8 is a protected and interfering contour map showing the results in Exhibit E, Figures 6 through 8.

Human Exposure to Radiofrequency Radiation
(Exhibit E, Figure 9)

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). According to this study, the power density 2 meters above ground at the base of the tower is 0.130 mW/cm^2 . This is less than the 1.0 mW/cm^2 required for general public/uncontrolled population, as well as the 0.2 mW/cm^2 required for controlled/occupational limit.

The Applicant is proposing to utilize an existing tower and antenna to be operated in common with the FM broadcast station listed in Exhibit E, Figure 5. The proposed center of radiation above ground level is to be rounded to 508 meters, with an ERP (both horizontally and vertically) of 500.0 kW. The controlled/occupational limit and uncontrolled/general public limits are in compliance. 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.

The existing uniform cross-sectional guyed tower of 501.8 meters AGL, including top mounted beacon, is being used for the purpose of supporting a common FM transmitting antenna.

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. The proposed site is located in Carter County, Texas, near the city of Dallas, approximately 16.84 kilometers from the central business district of that city.

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.

Lee S. Reynolds
2421 Presidents Drive, Suite B-23
Montgomery, Alabama 36116
(334) 323-3620

Leon Strickland
2421 Presidents Drive, Suite B-23
Montgomery, Alabama 36116
(334) 323-3620

Statement of the Consultants

The instant engineering statement (amendment to a pending application) was prepared for Service Broadcasting I, LTD (“The Applicant”) and supports an application for a construction permit for KKDA-FM, Dallas, Texas. 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:

Lee S. Reynolds

March 12th, 2001

2421 Presidents Drive, Suite B-23
Montgomery, Alabama 36116
(334) 323-3620