

APPLICATION FOR A CONSTRUCTION PERMIT

FCC FORM 301

FACILITY NUMBER 88272

KWKD

RANDOLPH, UTAH

CHANNEL 272C (102.3 MHz)

ERP: 96 kW (H&V)

HAAT: 611.0 METERS (H&V)

APPLICANT: Millcreek Broadcasting, L.L.C.

MAY, 2001

Prepared by:



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Engineering Statement
In Support of an
Application for a Construction Permit
KWKD, 272C, Randolph, Utah

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ENGINEERING STATEMENT

Of

Lee S. Reynolds

And

Virgle Leon Strickland

In Support of an

Application for a

Construction Permit

KWKD

Randolph, Utah

Channel 272C – 102.3 MHz

ERP: 96 kW(H&V)

HAAT: 611.0 m (H&V)

May, 2001

General

As broadcast technical consultants doing business as Reynolds Technical Associates, we have been authorized by Millcreek Broadcasting, L.L.C. (herein referred to as “Millcreek” as well as “The Applicant”), licensee of KWKD, Randolph, Utah, to conduct engineering studies and prepare the engineering portion of an application for a construction permit.

This instant application seeks to increase the effective radiated power of KWKD, 272C as a minor change of licensed facility (BLH –20001116AAO), all other parameters will remain the same.

The attached engineering exhibits will show that when KWKD operates as a class C facility with an ERP of 96 kW and a HAAT of 611.0 meters (CORAMSL of 3293.0 meters), it will be in compliance with all the Commission’s Rules and Regulations.

Channel Spacing Study
(No Exhibits)

The license site is being used for this instant application. Although a channel spacing study was performed to insure that minimum separation requirements (§73.207) were met, an exhibit is not being submitted as part of this application.

The Site, Surrounding Terrain and Predicted Service Contours
(Exhibit E, Figures 1 through 3)

A computer study was conducted to determine the average terrain elevations for each of twenty four (24) radial, instead of the eight required radials, beginning with true north, then at intervals of 15 degrees. 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 1 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 2 is a map that shows the F(50,50) 70-dBu contour and 60 dBu contours.

Since the only technical change being made is an increase of effective radiated power, community coverage is axiomatic.

Exhibit E, Figure 3 is a contour comparison study showing that when the proposed operates with 96 kilowatts at 611.0 meters HAAT, it is equivalent to 100.0 kilowatts at 600.0 meters.

Since the same site is being used, a site map is not being included.

The height of the existing tower will not change and it will not required a FAA application to be filed.

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 3.860 kilometers.

Antenna and Supporting Structure
(Exhibit E, Figure 4)

Exhibit E, Figure 4 is a vertical plane sketch of the proposed supporting structure depicting the elevations in meters as well as feet.

Human Exposure to Radiofrequency Radiation
(Exhibit E, Figure 5)

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 above ground level is 11 meters, with an ERP (both horizontally and vertically) of 96 kW. According to this study, the power density 2 meters above ground at the base of the tower would exceed the limits, so a more in-depth study was performed. See Exhibit E, Figure 5 for the results of that study.

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 Millcreek Broadcasting, L.L.C. ("The Applicant") and supports an application for a construction permit of KWKD, Randolph, Utah. 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

May 21st, 2001

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