

**APPLICATION  
FOR A  
CONSTRUCTION  
PERMIT  
FCC FORM 301**

**Facility Identification Number 40519**

**KZHK(FM)**

**Bunkerville, Nevada**

**Channel 240C – 95.9 MHz**

**ERP: 82.0 kW (H only)**

**HAAT: 655.0 m**

**APPLICANT: Marvin Kent Frandsen**

**March, 2005**

**Prepared by:**



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**Engineering Statement**  
**In Support of a Application**  
**For a Construction Permit**  
**KZHK(FM), Bunkerville Nevada, Channel 240C**

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FOR ENGINEERING EXHIBITS F.C.C. FORM 301

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**ENGINEERING STATEMENT**

**Of**

**Lee S. Reynolds**

**And**

**Virgle Leon Strickland**

**In Support of an Amendment**

**to an Application for a**

**Construction Permit**

**MM Docket No. 01-135**

**KZHK(FM)**

**Bunkerville, Nevada**

**Channel 240C – 95.9 MHz**

**ERP: 82.0 kW(H only)**

**HAAT: 655.0 m**

**March, 2005**

**General**

As broadcast technical consultants doing business as Reynolds Technical Associates (RTA), we have been authorized by Marvin Kent Frandsen, licensee of KZHK(FM) to conduct engineering studies and prepare the engineering portion of an application for a construction permit.

This instant application is seeking to change the city of license from St. George, Utah to Bunkerville, Nevada, to bring the facility in compliance with MM Docket No. 01-135, in which a change in the facility is being requested.

**The Proposed Site**  
**(Exhibits E, Figure 1 through 4)**

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

Exhibit E, Figure 2 is the terrain averaging and contours study for the proposed facility with the elevations and contours giving in five degree intervals.

The facility will operate with 82.0 kilowatts at 655.0 meters HAAT to prevent the proposed F(50,50) 60 dBu service contour extending further than 100 kilowatts at 600 meters HAAT facility would produce.

Exhibit E, Figure 3 is the service contour map displaying the FCC F(50,50) 70 and 60 dBu contours of the proposed.

Exhibit E, Figure 4 is a vertical sketch of the proposed antenna supporting structure depicting the relevant elevations. The proposed structure is less than 61 meters in height, therefore the FAA was not notified.

The distance to the blanketing contour is calculated to be 3.675 kilometers (2.285 miles).

**Human Exposure**  
**(Exhibit E, Figure 5)**

The proposed FM facility was evaluated in terms of potential radiofrequency radiation exposure at ground level in accordance with the Commission's guidelines. Exhibit E, Figure 5 is the results of that evaluation.

A policy will be initiated stating when anyone is required to climb the tower the facility 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**

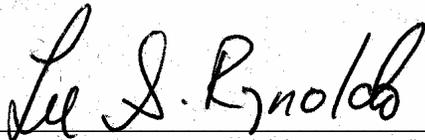
The instant engineering statement was prepared for Marvin Kent Frandsen (“The Applicant”) and supports an application for a construction permit of KZHK(FM), Bunkerville, Nevada. It was developed by RTA and may not be used for purposes other than submission to the Commission by The Applicant.

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

March 29<sup>th</sup>, 2005

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