

KLEIN BROADCAST ENGINEERING, L.L.C.

dedicated to improving the science and technology of radio & television communications

MAY 2007

**FCC FORM 302-FM APPLICATION
for
STATION LICENSE TO COVER CONSTRUCTION PERMIT**

**FCC File# BNPH-20041228ABE
LOCALLY OWNED RADIO, L.L.C.
K I R Q (FM)
(FCC FACILITY ID# 164129)
FM CHANNEL 271 C3 / 102.1mHz.
TWIN FALLS, IDAHO**

INTRODUCTION and ENGINEERING STATEMENT

The firm of Klein Broadcast Engineering, L.L.C, has been retained by the permittee of KIRQ(FM), Locally Owned Radio, L.L.C., to prepare the engineering calculations and exhibits required by FCC Form 302-FM, an application for FM Broadcast Station License to cover the outstanding FCC construction permit, captioned above.

The specifications of the facility are as follows:

Summary of Proposed Operation:

Effective Radiated Power	5.2 kW	H & V
Antenna Radiation Center Height Above Average Terrain	220 meters	H & V
Antenna Radiation Center Height Above Mean Sea Level	1394 meters	H & V
Antenna Radiation Center Height Above Ground Level	84 meters	H & V
Transmitter Power Output	5.10 kW	

FCC FORM 302-FM

INTRODUCTION and ENGINEERING STATEMENT cont'd page two: KIRQ(FM)

These specifications are exactly as specified in the existing station's FCC FM Broadcast Station Construction Permit, FCC File Number BNPH-20041228ABE, with the following exception. The center of radiation of the authorized antenna is at 84 meters AGL. This is in compliance with Commission Policy of the Center of Radiation authorized must be in a window of plus 2 meters or minus 4 meters from the authorized center of radiation specified. The construction permit specifies a center of radiation of 82 meters AGL and the actual center of radiation is at 84 meters AGL, within the Commission's window as captioned above.

The specified Transmitter Power Output (T.P.O.) of 5.10 kW produces the authorized Effective Radiated Power (E.R.P.) of 5.2 kW in both the horizontal and vertical planes as authorized. Exhibit E-1 is a copy of the currently valid FCC FM Broadcast Station Construction Permit for Station K I R Q. This exhibit is included herein as a courtesy to the Commission's staff to aid in the processing of this FCC Form 302-FM instant application.

There are four (4) Special Operating Conditions or Restrictions listed upon the FCC construction permit that will be addressed here:

FCC FORM 302-FM

INTRODUCTION and ENGINEERING STATEMENT cont'd page three: KIRQ(FM)

#1. Special Operating Condition or Restriction:

Pursuant to the grant of this construction permit and the authority found in Sections 4(i), 5(c) (1), 303 and 307(b) of the Communications Act of 1934, as amended, and Sections 0.61, 0.204(b), 0.283, 1.420, 73.203(b) and 73.3573 of the Commission's Rules, the FM Table of Allotments, 47 C.F.R. Section 73.202(b), is AMENDED as follows:

Community	Channel No.
Twin Falls, ID	Add 273C3, Delete 269A

#1. Answer to Special Operating Condition or Restriction:

The permittee/applicant acknowledges the amendment to the FM Table of Allotments, 47 C.F.R. 73.202(b) as specified above and acknowledges and accepts the operating channel for KIRQ(FM) as FM Channel 271C3 at Twin Falls, Idaho

#2. Special Operating Condition or Restriction:

FAA INTERFERENCE CONDITION

Upon receipt of notification from the Commission that harmful interference is being caused by the operation of the permittee's/licensee's transmitter, the permittee's/licensee's shall either immediately reduce the power to the point of no interference, cease operation, or take such immediate corrective action as is necessary to eliminate the harmful interference. This condition expires after one year of interference free operation.

FCC FORM 302-FM

INTRODUCTION and ENGINEERING STATEMENT cont'd page four: KIRQ(FM)

#2. Answer to Special Operating Condition or Restriction:

The permittee/applicant accepts the condition as specified herein and will comply with any requests concerning interference from the Commission.

#3. Special Operating Condition or Restriction:

Permittee has specified the use of the antenna listed below to demonstrate compliance with the FCC radiofrequency electromagnetic field exposure guidelines. If any other type or size of antenna is to be used with the facilities authorized herein, THE AUTOMATIC PROGRAM TEST PROVISIONS OF 47 C.F.R. SECTION 73.1620 WILL NOT APPLY. In this case, a FORMAL REQUEST FOR PROGRAM TEST AUTHORITY must be filed in conjunction with the FCC Form 302-FM, application for license, BEFORE program tests will be authorized. The request must include a revised RF field showing to demonstrate continued compliance with the FCC guidelines.

#3. Answer to Special Operating Condition or Restriction:

The permittee/applicant acknowledges the conditions in Special Operating Condition or Restriction #3. As requested the applicant has included herein Exhibit E-10, a complete and comprehensive RFR analysis of the facility authorized using the antenna installed at Station KIRQ, an Electronics Research, Inc. (ERI) model SHPX-4AC-HW-SP. This antenna is an EPA Type 3 antenna with four sections, spaced 0.5 wavelengths, using a center feed and diplexed with Station KTPZ(FM) at Hazelton, ID.

FCC FORM 302-FM

INTRODUCTION and ENGINEERING STATEMENT cont'd page five: KIRQ(FM)

Exhibit E-10, included herein, demonstrates continuing compliance with the Commission's Guidelines on Human Exposure to Non-Ionizing Radiofrequency Radiation with the use of the ERI, EPA Type 3 antenna now installed at KIRQ.

#4. Special Operating Condition or Restriction:

The permittee/licensee in coordination with other users of the site must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

#4. Answer to Special Operating Condition or Restriction:

The permittee/licensee, applicant will cooperate with other users of the site as necessary, including the reduction of operating power or the complete cessation of operations to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

Station KIRQ(FM) is now diplexed with Station KTPZ(FM). The two stations are now operating into a common antenna. The applicant chose to operate both stations in this manner.

FCC FORM 302-FM

INTRODUCTION and ENGINEERING STATEMENT cont'd page six: KIRQ(FM)

Usually the Commission, as a Special Operating Condition or Restriction, requires the applicant to submit Radiofrequency Proof of Performance Measurements before a new station license is granted to prove compliance with 47 C.F.R. Section 73.317 of the Commission's Rules. A typical Special Operating Condition or Restriction would read something like the following, taken from an actual Commission Special Operating Condition or Restriction for a station in diplexed operation with another station:

BEFORE PROGRAM TESTS COMMENCE, sufficient measurements shall be made to establish that the operation authorized in this construction permit is in compliance with the spurious emissions requirements of 47 C.F.R. Sections 73.317(b) through 73.317(d). All measurements must be made with all stations simultaneously utilizing the shared antenna. These measurements shall be submitted to the Commission along with the FCC Form 302-FM application for license.

The applicant has taken it upon itself to make the required measurements for Stations KIRQ and KTPZ operating into a common antenna.

The requested measurements have been made according to the above captioned requirements and in the above described manner. Exhibit E-2 is a complete RF Proof of Performance Report for Station KIRQ with Station KTPZ operating simultaneously into the shared antenna system. Both Station KIRQ and Station KTPZ comply with the provisions of spurious emissions limitations as specified in 47 C.F.R. Sections 73.317(b) through 73.317(d).

FCC FORM 302-FM

INTRODUCTION and ENGINEERING STATEMENT cont'd page seven: KIRQ(FM)

The applicant/permittee has submitted a copy of the vertical plane radiation pattern for the installed ERI, model SHPX-4AC-HW-SP antenna now installed for use with Stations KIRQ and KTPZ with this FCC Form 302-FM Application for License, the vertical plane radiation plots may be found in Exhibit E-10.

This instant application requests the Commission grant Program Test Authority and a new station license for FM Broadcast Station K I R Q (FM), as specified herein to cover FCC Construction Permit, File Number: BNPH-20041228ABE.

The applicant, Locally Owned Radio, L.L.C., respectfully requests the Commission staff consider and grant the instant application for the facilities requested herein.

Respectfully submitted,

Elliott Kurt Klein
Consulting Broadcast Engineer

10 May 2007