

The undersigned has been retained by Trinity Church of the Nazarene, permittee of KRQZ (FM) on channel 218B1 in Lompoc, CA for the purpose of responding to the special operating conditions or restrictions as stated in the station's construction permit BPED-20010904ACE dated December 4, 2001.

Background

The following special operating conditions or restrictions are in effect:

- 1) 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.

Response:

The permittee has implemented measures to limit access to uncontrolled areas. Approved RF radiation signs have been installed. The permittee complies with all ANSI C95 uncontrolled exposure limits. Maintenance procedures will require that station KRQZ suspend operation while workers scale the antenna supporting structure, or perform work within the controlled access areas.

- 2) THE AUTOMATIC PROGRAM TEST PROVISIONS OF 47 C.F.R SECTION 73.1620 DO 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. This request should be submitted at least 10 days prior to the date on which program tests are desired to commence. This request must contain documentation which demonstrates compliance with the following special operating condition:

Response:

The permittee has met all special operating conditions listed in BPED-20010904ACE, Form 351A dated December 7, 2001 and hereby formally requests Program Test Authority.

- 3) The permittee shall submit a statement certifying that a fence has been constructed at least 2 meters from the base of the tower and in such a manner to prevent the exposure of humans to radiofrequency electromagnetic fields in excess of the FCC Guidelines in OET bulletin No. 65, Edition 97-01 August 1997. The fence must be of a type which will preclude casual or inadvertent access, and must include warning signs at appropriate intervals which describe the nature of the hazard.

Response:

The permittee has installed a 6 foot barbed wire fence no closer than 2 meters from the tower. Approved RF radiation signs have been installed.

- 4) The permittee has specified the use of a 4 section, 0.87 wavelength spaced, vertically polarized only antenna to demonstrate compliance with the FCC radiofrequency electromagnetic field exposure guidelines. If any other type or size antenna is to be used with the facilities authorized herein, 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. This request should be made at least 10 days prior to the date on which program tests are desired to commence. The request must include a revised RF field showing to demonstrate continued compliance with the FCC guidelines.

Response:

The permittee has installed a 4 section, 0.87 wavelength spaced, vertically polarized only antenna as specified in construction permit BPED-20010904ACE. No revised RF field documents are required.

- 5) BEFORE PROGRAM TESTS ARE AUTHORIZED, permittee shall submit the results of a complete proof-of-performance to establish the horizontal plane radiation patterns for both the horizontally and vertically polarized radiation components. This proof-of-performance may be accomplished using the complete full size antenna, or individual bays therefrom, mounted on a supporting structure of identical dimensions and configuration as the proposed structure, including all braces, ladders, conduits, coaxial lines and other appurtenances; or using a carefully scaled model of the entire antenna or individual bays therefrom mounted on a equally scaled model of the proposed supporting structure including appurtenances. Engineering exhibits should include a description of the antenna testing facilities and equipment employed, including appropriate photographs or sketches and a description of the testing procedures, including scale factor, measurements frequency, and equipment calibration.

Response:

The permittee has obtained the complete proof-of-performance report from the antenna manufacturer. See Exhibit #9A. Also, as requested by the Commission, a single bay rectangular vertical plane plot pattern (see Exhibit #9B) and combined 4 bay rectangular vertical plane plot pattern (see Exhibit #9C) are submitted.

- 6) BEFORE PROGRAM TESTS ARE AUTHORIZED, permittee shall submit an affidavit from a licensed surveyor to establish that the directional antenna has been oriented at the proper azimuth.

Response:

The permittee has obtained the required affidavit from a licensed surveyor. See Exhibit #9D.

- 7) BEFORE PROGRAM TESTS ARE AUTHORIZED, permittee/licensee shall submit an affidavit that the installation of the directional antenna system was overseen by a qualified engineer. This affidavit shall include a certification by the engineer that the antenna was installed pursuant to the manufacture's instructions and list the qualifications of the certifying engineer.

Response:

As a technical consultant, I personally oversaw the installation of the directional antenna systems and certify that the antenna system was installed pursuant to the manufacturer's instructions. See Exhibit #9E.

I am a Contract Engineer and hold a FCC GROL License #PG-11-39140 issued August 11, 1989. I have been the Chief Engineer for station KRQZ since February 1995 and have prepared most of the applications submitted to the FCC. I received a Bachelors of Science degree in Engineering Technology, Electronics Option from Cal Poly, San Luis Obispo in 1986. Since February 1994, I have been the sole proprietor of Chris Hill Technical Services and serve as a Contract Engineer for several local radio stations on the Central Coast.

- 8) The relative field strength of the measured vertically polarized radiation component shall not exceed at any azimuth the value indicated on the composite radiation pattern authorized by this construction permit.

A relative field strength of 1.0 on the composite radiation pattern herein authorized corresponds to the following effective radiated power:
2.0 kilowatts

Principal minimum and its associated field strength limit:
230 degrees True: 0.57 kilowatt

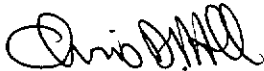
Response:

The permittee has installed directional antenna with proper orientation to achieve a maximum effective radiated power of 2.0 kilowatts at 50 degrees True. The effective radiated power at 230 degrees True is 0.570 watts. These effective radiated power levels meet the construction permit requirements.

Recommendations

All special operating conditions or restrictions have been met by the permittee. Measures to limit access to access to uncontrolled areas have been implemented and approved RF radiation signs have been installed. Station KRQZ will suspend operation while workers scale the antenna supporting structure, or perform work within the controlled access areas. The directional antenna has been installed with proper spacing and orientation to achieve specified effective radiated power. Accordingly, the applicant, Trinity Church of the Nazarene, hereby formally requests approval for Program Test Authority and submits its form FCC 302-FM, application for station license.

Respectfully



Chris D. Hill
Technical Consultant
Chris Hill Technical Services