

RF Radiation Compliance

Capstar TX Limited Partnership KCCY Pueblo, CO (fid 40847) BXPB-20060531ANO

RF Radiation Compliance

This statement is intended to demonstrate that the restrictions for establishing Program Test Authority, as spelled out in Special Operating Conditions numbers 2, 3 and 4 of construction permit BXPB20060531ANO, have been met and that this site meets established guidelines as outlined in OET Bulletin 65 edition 97-01.

On June 12th 2006 KCCY personnel tested the aforementioned facilities to determine RF compliance. The following is the methodology of the process used to determine RF compliance.

A study of the antenna used was made using the software program FM Model. An ERI SHPX-1E was the antenna installed and with an ERP of 1 KW it is predicted that the RF levels will be 41 UW/CM squared at a distance of 19 meters from the base of the antenna structure. This is 21% of the public level of 200 UW/CM squared and 4.1% of the occupational limit of 1 mw/CM squared.

This antenna is located at the Cheyenne Mountain antenna farm which consists of over 40 radio towers, twelve TV stations and seventeen FM broadcast stations. The site owner has prepared an RF safety site plan for this complex and has conducted actual measurements to verify compliance with FCC OET Bulletin 65 and has a set policy for anyone working on the contained towers. By virtue of the remote location, restricted access controlled through locked gates located over 3 Kilometers from the antenna farm, and the attendant rough mountain top terrain, this site is considered non public and public access to this site is virtually impossible. This site is considered an occupational controlled area, therefore this report will address the RF levels as an Occupational site only. All occupational personnel accessing this site are greeted with numerous warning signs advising of the potential of High RFR exposure levels. This site is measured regularly to ensure continued compliance with FCC rules. The existing areas which exceed FCC limits are clearly marked with ANSI standard RF warning signs. Power reduction plans are in place should work on the towers above ground level be required.

Actual measurements were made using a Narda 8718 RF survey meter and A8742D RF E field probe. This combination allowed RF in the 300 KHZ to 3.0 GHZ range to be measured. A survey of the area was done to create a base line of RF fields present at the site while operating in normal operations, with the readings being notated. The KCCY auxiliary antenna was then operated at 1 KW ERP and a second set of readings were taken. Due to the complex nature of the numerous RF fields present on the site, the readings did change but only in a small manner and the changes never caused an increase to a point to cause an existing location to exceed occupational levels spelled out in OET 65 or an existing marked "hot spot" to increase in intensity. The only location to significantly change was near the door of the building marked 6155 Transmitter Lane. This spot increased from 12% of Occupational levels to 18% of Occupational levels. This is well under the Occupational or the public limit for that matter and was also the highest reading found in the entire survey around the immediate area of this particular tower and antenna.

Therefore, it is determined that this antenna as installed does comply with the guidelines in OET 65 and the requirements as set forth in the Special Conditions paragraphs 2, 3 and 4 of the Construction Permit BXPB-20060531ANO.

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