

RF Radiation Compliance

Capstar TX Limited Partnership KVUU Pueblo, CO (fid 35868) BXPB-20050408ACP

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This statement is to demonstrate that the restrictions for establishing program test authority as spelled out in number 3 of the special operating conditions of construction permit BXPB20050408ACP have been met. And that this site meets established guidelines as outlined in OET Bulletin 65 edition 97-01. On May 31st 2005 KVUU 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 program FM Model. An ERI LPX-1E was the antenna installed and it is predicted that the RF levels would be 67.6 UW/CM squared at a distance of 22 meters from the base of the antenna structure for an ERP of 2.2 KW. This is 33.8% of the public level of 200 UW/CM squared and 6.76% 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 and restricted access controlled through locked gates, and the attendant rough mountain top terrain, this site is considered non public, and public access to this site is virtually impossible. There for this site is considered as an occupational controlled area. This report will address the levels as an occupational site only. Since the locked access gate is over 3 Kilometers from the antenna farm. 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. For those existing areas that exceed FCC limits, they are clearly marked with ANSI standard RF warning signs. The only locations found to exceed occupational levels are at certain tower Guy anchors. These areas are currently marked with the appropriate warning signs. Power reduction plans are in place should work on the towers above ground level be required. These plans specify the contributing stations and the actual power levels required.

Actual measurements were made using a Narda 8718 RF survey meter and A8742D RF E field probe. This combination allowed measured signals at the site from 300 KHZ to 3.0 GHZ to be considered. A survey of the area was done to create a base line of RF fields present at the site while operating in normal operations. These readings were noted. Then the KVUU auxiliary antenna was operated at 2.2 KW erp and a second set of readings were taken. Due to the complex nature of the many 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 contributing RF from this antenna appears to be well below the baseline RF levels at the site in all cases. This was determined by cutting the carrier of the KVUU transmitter while observing the meter at certain locations. In all locations no changes were noted to the base line RF levels.

There for it is determined that this antenna as installed does comply with the Guidelines in OET 65 and the requirements as set forth in paragraph 3 of the Construction permits special requirements are met.

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