



ENGINEERING STATEMENT
OF
JOHN F.X. BROWNE, P.E.
PREPARED FOR KOAT HEARST ARGYLE TELEVISION, INC.
IN SUPPORT OF
APPLICATION FOR CONSTRUCTION PERMIT
FOR
NEW DIGITAL TRANSLATOR STATION
TAOS, NM

Background

KOAT Hearst-Argyle Television, Inc. (KOAT) is the licensee of television station KOAT, Ch 7, (BPCDT-20080317AEH, Facility ID 53928) at Albuquerque, NM. KOAT proposes to construct a new digital translator on CH 36 at Taos, NM. The proposal specifies a site that is more than 121 km from the reference coordinates of the top 100 DMAs (as specified in DA 09-1487 released by the Commission on June 29, 2009) and, therefore, meets the distance requirement for filing at this time.

Site and Tower

The transmitter will be located at the following coordinates:

36° 23' 51" N. Latitude (NAD27)
105° 32' 34" W. Longitude



The antenna will be side-mounted on an existing unregistered tower that has an overall height above ground of 20.0m. The overall height of the tower is less than that required for notification to the FAA and, further, the tower passes the TOWAIR program.

Antenna and Power

The proposed antenna, a Scala SL-8 omni-directional radiator, will be side-mounted at a radiation center height of 15m AGL. The proposed ERP is 1 kW.

Interference

An interference study was conducted using the proposed parameters with software that emulates that used by the Commission. A Longley-Rice analysis with that software shows that there would be no new interference exceeding 0.5% to any full-service DTV or Class A station as defined in the Commission's Rules and, further, there would be no predicted interference of more than 2 % to any LPTV or translator station.

Environmental/RFR

This construction does not involve any of the non-RFR conditions that require an Environmental Assessment as specified in 47CFR1.1311; therefore, further consideration of these issues is not required.

The location of the proposed construction is a multi-user site and the worst case total fractional contribution, expressed as a percentage, of the other users at the proposed site is calculated to be 26.03% of the MPE limit for public exposure. The site is, therefore, assumed to be currently "in compliance" with FCC guidelines for uncontrolled exposure to RFR (as defined in OET-65). The worst case ground level RFR created by this proposal in public areas is calculated to be 0.013mW/cm² making its fractional contribution of the MPE limit for public exposure 3.2% at CH36 (605MHz). This level of RFR, when added to the calculated fractional contribution of the existing facilities (for a total of 29.23%), does not exceed the MPE limit



and, therefore, the site will remain "in compliance" with FCC requirements. RFR levels on the support structure may exceed controlled area MPE limits (occupational exposure). KOAT agrees to comply with the Commission's requirements regarding power adjustments or cessation of operation as may be necessary to ensure a compliant environment for worker access and will cooperate similarly with other users of this multi-user site. Workers will be trained on RFR issues and encouraged to wear personal RFR monitors when on the structure. The tower base is enclosed by a locked security fence and appropriate signage warning of potential RFR hazards is posted.

Certification

I hereby certify that the foregoing report or statement was prepared by me but may include work performed by others under my supervision or direction. The statements of fact contained therein are believed to be true and correct based on personal knowledge, information and belief unless otherwise stated; with respect to facts not known of my own personal knowledge, I believe them to be true and correct based on their origin from sources known to me to be generally reliable and accurate. I have prepared this document with due care and in accordance with applicable standards of professional practice.

A handwritten signature in black ink, reading "John F.X. Browne".

John F.X. Browne, P.E.
March 1, 2010