



ENGINEERING STATEMENT
OF
JOHN F.X. BROWNE, P.E.
IN SUPPORT OF
MODIFICATION OF A CONSTRUCTION PERMIT
FOR
K66AE
COLFAX, NM

Background

KOAT Hearst-Argyle Television, Inc. (KOAT) is the licensee of television translator station K66AE, Channel 66, (BLTT-19891017JK, Facility ID. 53918) at Colfax, NM. KOAT also has been granted a construction permit (BDISDTA-20060717ABK) that changes K66AE's assigned channel to Channel 23 due to displacement (out-of-core) and also "flashcuts" it to digital operation. KOAT now wishes to utilize a different antenna (omni-directional) from the one authorized in the CP (directional) and also proposes to change the ERP.

Site and Tower

The existing tower is located at 36° 33' 36" N, 105° 11' 40" W (NAD27). The overall height of the tower with the proposed antenna will be 19.8m AGL and, therefore, does not require an ASR nor notification to the FAA. The transmitting antenna will be side-mounted. This is the same site and tower that is specified in the current K66AE authorization; no changes are proposed for height or location.



Antenna and Power

The proposed omni-directional antenna is a Scala SL-8. The radiation center of the antenna will be at a height of 14.4m AGL. The digital ERP will be 1 kW and the 51 dBu F(50,90) contour will completely encompass the area of Colfax, NM.

Interference

An interference study was conducted using the proposed facility parameters with software that emulates that used by the Commission. That study shows that there would not be more than 0.49% interference to any full-service DTV station or Class A station, nor more than 1.99% interference to any other low power station as required by the Commission's Rules.

Environmental/RFR

This construction does not involve any of the conditions that require an Environmental Assessment as specified in 47 CFR Section 1.1311, therefore, further consideration is not required.

The additional ground level RFR contributed to the multi-user site by this proposal in public areas is calculated to be 0.006 mW/cm^2 , which is less than 5% of the MPE for public exposure (0.351 mW/cm^2) at the proposed frequency.

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. Workers will be trained on RFR issues and will also be encouraged to wear personal RFR monitors when on the structure. The tower base is enclosed with a locked security fence enclose and appropriate signage warning of RFR hazards are in place.

**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.

John F.X. Browne, P.E.
June 01, 2010