



ENGINEERING STATEMENT
OF
JOHN F.X. BROWNE, P.E.
IN SUPPORT OF APPLICATION
FOR
MINOR CHANGE IN LICENSED FACILITY
K19CM
FARMINGTON, NM

Background

KOAT Hearst-Argyle Television, Inc. (KOAT) is the licensee of television translator station K19CM, Ch 19, (BLTT-19890829ID, Facility ID. 53883) at Farmington, NM. KOAT proposes to move from the authorized site to a new site that is 5.6 km N239.8E from the presently authorized site and change its frequency offset from "none" to zero.

Site and Tower

A new 60.25m tower is proposed at 36-40-17 N 108-13-52.7 W. No ASR would be needed nor would the FAA need to be notified as overall height of the tower would not exceed 60.96m (200 ft.) and the proposal "passes" the TOWAIR program. The transmitting antenna would be side mounted in such a manner that the center of radiation would be at 30.5m AGL (1868.1m AMSL) which is 60m higher than the antenna height at the present location.

Antenna and Power

The proposed antenna is a SCALA SL8 omni-directional radiator. The antenna would be at an HAAT of 145.8m. The ERP will be the same as the licensed facility (1.21 kW).



The predicted F(50,50) 74 dBu contour would completely encompass the city of Farmington, NM.

Interference

An interference study was conducted using the proposed parameters with software that emulates that used by the Commission. That study shows that there would be no predicted interference to any DTV station, NTSC station, Class A station, or LPTV station provided the frequency offset be changed to "zero" as proposed. [Note that if the frequency offset were to remain as authorized ("none") there would be a contour overlap with KWBQ-TV, CH19, in Santa Fe, NM; however, a Longley-Rice evaluation of this interference shows it to be 0.0% and a waiver could have been requested. Changing the offset, as proposed, eliminates all interference considerations.]

Environmental/RFR

This construction does not involve any of the conditions that require an Environmental Assessment as specified in 47 CFR Section 1.1311.

The additional ground level RFR contributed to the site by this proposal in public areas is calculated to be 0.000304 mW/cm^2 , which is less than 1% of the MPE for public exposure (0.335 mW/cm^2) at the proposed frequency and, therefore, the proposal is excluded from further consideration.

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 also be encouraged to wear personal RFR monitors when on the structure. A locked security fence will enclose the tower base and appropriate signage warning of RFR hazards will be 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.

A handwritten signature in black ink, appearing to read 'John F.X. Browne', written over a horizontal line.

John F.X. Browne, P.E.

September 14, 2004

B
I