



**ENGINEERING STATEMENT**  
OF  
**JOHN F.X. BROWNE, P.E.**  
IN SUPPORT OF  
AN APPLICATION FOR CONSTRUCTION PERMIT  
FOR  
DISPLACEMENT AND DIGITAL "FLASHCUT"  
**K67BP**  
GALLUP, NM

**Background**

KOAT Hearst-Argyle Television, Inc. (KOAT) is the licensee of television translator station K67BP, Channel 67, (BLTT-19781124IB, Facility ID. 11464) at Gallup, NM. KOAT is applying for a construction permit to change its assigned channel to Channel 10 due to displacement (out-of-core) and also proposes to "flashcut" K67BP to digital operation on Channel 10.

**Site and Tower**

The tower is located at 35° 32' 04" N and 108° 44' 26" W (NAD27). The overall height of the tower with the proposed antenna will be 39.4m AGL and, therefore, does not require an ASR, nor notification to the FAA. The transmitting antenna will be top-mounted. This is the same site and tower that is specified in the current K67BP authorization.



### **Antenna and Power**

The proposed antenna is a Scala TVO-4 omni-directional radiator. The radiation center of the antenna will be at a height of 37.4m AGL (2071.4m AMSL). The digital ERP will be 0.30 kW (300 W) and the 48 dBu F(50,90) contour will completely encompass the area of Gallup, 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 NTSC station, 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 site by this proposal in public areas is calculated to be  $0.00028 \text{ mW/cm}^2$ , which is less than 5% of the MPE for public exposure ( $0.20 \text{ mW/cm}^2$ ) 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 also be encouraged to wear personal RFR monitors when on the structure. The tower base is enclosed with a locked security fence 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.

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John F.X. Browne, P.E.  
June 30, 2006