



**ENGINEERING STATEMENT**  
OF  
**BENJAMIN L. PIDEK, P.E.**  
IN SUPPORT OF  
**APPLICATION FOR NEW DIGITAL TV TRANSLATOR CONSTRUCTION PERMIT**  
AND  
**REQUEST FOR WAIVER**  
**KOVT**  
**SILVER CITY, NM**

**Background**

KOAT Hearst-Argyle Television, Inc. (Hearst) is the licensee of the full-service satellite television station KOVT-DT, Ch. 10, (BLCDT-20090616ABR, Facility ID 53911) at Silver City, NM. Hearst is proposing to convert KOVT from a full-service satellite station to a low-power digital translator and, in the instant application, is applying for a construction permit for a new digital translator. Hearst recognizes that the Commission presently has in place a "freeze" on the filing of applications for new translators; Hearst is, therefore, requesting of a waiver of the "freeze" as detailed in the Request for Waiver being submitted contemporaneously by counsel for Hearst.

Hearst is requesting, in the instant application, that all of parameters of the proposed translator facility (i.e., location, height, coordinates) remain the same as that of its presently licensed full-service facility except for the power level. The ERP of KOVT full-service, licensed facility (3.2 kW) exceeds the maximum allowable power level for digital VHF



translators (0.3 kW) and, as a result, Hearst is proposing to reduce the power level of KOVT to 0.3 kW to comply with the Commission's rules.

### **Site and Tower**

The site will remain the same as that of the licensed facility as will the height of the antenna radiation center. The overall height of the tower (37.0m AGL) is less than that required for notification to the FAA and, further, the tower passes the TOWAIR program. There will be no change in the overall height of the tower.

The site is located within the Mexican Border zone; however, since the proposed digital translator facility will have a smaller coverage area due to the power reduction (with all other facility proposed parameters remaining the same as the licensed full-service facility), coordination with Mexico should not be required.

### **Antenna and Power**

Hearst is proposing to operate the translator using the existing full-service KOVT Scala DRV-2/4HO omni-directional antenna with a horizontally polarized ERP of 0.3 kW.

### **Interference**

An interference study was conducted using the proposed parameters with software that emulates that used by the Commission. The results of the OET-69 analysis indicate that there are no domestic full-service DTV or Class A stations predicted to receive more than the allowable 0.5% new interference from the proposed KOVT facility (as a translator) and, also, there are no analog or digital LPTV or translator stations predicted to receive more than the allowable 2% interference.



## **Environmental/RFR**

This report addresses only the conditions specified in 47CFR1.1307 that deal with Radio Frequency Radiation (RFR). Any other non-RFR conditions that might require the preparation of an EA are beyond the scope of this report; however, since the structure is existing, such conditions should not be an issue requiring further consideration as there will be no increase in height or change in width of the existing tower structure.

The location of the proposed facility (the same as the existing facility) is a multi-user site and it is assumed that the site is currently "in compliance" with FCC guidelines for human exposure to RFR (as defined in OET-65). As the only RFR related change Hearst will be making to its facility at the site is a power reduction, it will not be increasing the RFR in any way. In fact, the proposed change in facility will reduce the ground level RFR contributed by KOVT by approximately 91% and, therefore, the site will remain "in compliance" with FCC guidelines. Furthermore, the ground level RFR contributed to the site by the proposed KOVT translator facility in public areas is calculated to be  $0.000388 \text{ mW/cm}^2$ , which is less than 5% (and, in fact, less than 1%) of the MPE for public exposure ( $0.2 \text{ mW/cm}^2$ ) at Ch. 10 (192 MHz – 198 MHz).

Hearst 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 agrees to cooperate with other uses of the site. Workers will be trained on RFR issues and encouraged to wear personal RFR monitors when on the site or the structure. The site is fenced to prevent access to the controlled area around the towers and appropriate signage is 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

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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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Benjamin L. Pidek, P.E.



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John F. X. Browne, P.E.

April 19, 2011