



**ENGINEERING STATEMENT**  
OF  
**JOHN F.X. BROWNE, P.E.**  
IN SUPPORT OF  
AN APPLICATION FOR CONSTRUCTION PERMIT  
FOR  
**DISPLACEMENT AND DIGITAL "FLASHCUT"**  
**W08DP**  
**SPRINGFIELD, IL**

**Background**

West Central Illinois Educational Telecommunications Corp. (Convocom) is the licensee of television translator station W08DP, Channel 8, (BLTTV-20011204AAG, Facility ID. 70620) at Springfield, IL. Convocom is applying for a construction permit to change its assigned channel to Channel 36 due to displacement by DTV station WILL-DT, Channel 9 at Urbana, IL and also proposes to "flashcut" W08DP to digital operation on Channel 36.

**Site and Tower**

The tower (ASRN 1055248) is located at 39° 49' 44" N and 89° 35' 44" W (NAD27). The transmitting antenna will be side-mounted in such a manner so as not to increase the overall height of the structure; therefore neither notification to the FAA nor modification of the ASR is required. This is the same site and tower that is specified in the current W08DP authorization.



### **Antenna and Power**

The proposed antenna, a Dielectric TLP-8A omni-directional radiator, will have a radiation center height of 134.1m AGL (309.7m AMSL). The proposed digital ERP of 15 kW will have a 51 dBu F(50,90) contour that will completely encompass the area of Springfield, IL.

### **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 be no interference to any full-service NTSC station, DTV station or Class A station. However, the study did show excessive interference to two applications BNPEDT-20030922ADE and BPEDT-19960129KH. These applications are mutually exclusive and have not been granted. No grant of these applications is anticipated in the near future. Convocom realizes that if either application is granted, W08DP will have to file a displacement application for a different channel.

### **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  $0.000257 \text{ mW/cm}^2$ , which is less than 5% of the MPE for public exposure ( $0.403 \text{ mW/cm}^2$ ) at the proposed frequency.

Convocom agrees to comply with the Commission's requirements regarding power adjustments or cessation of operation as may be necessary to ensure a compliant

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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.

June 30, 2006