



**Engineering Statement**  
of  
**John F.X. Browne, P.E.**  
**In Support of An Application For**  
**Digital Television Broadcast Station License**  
**KVCT-DT**  
**Victoria, TX**

**Background**

Surtsey Media, LLC (Surtsey) has a construction permit (BMPCDT-20021107AAS) for KVCT-DT, CH11, Victoria, TX. The construction permit calls for an RFS 658-9C omni-directional antenna that has an RMS gain of 9.45 dB. Radio Frequency Systems was not able to supply this antenna until sometime in 2007. Surtsey elected to place an order for a different omni-directional antenna from a different manufacturer offering better delivery. The new antenna (an SWR model SWDDPD 2-2-2/11 omni-directional antenna) has been installed on the tower. Surtsey has discovered that the RMS gain of this antenna is only 7.02 dB and that it will not be able to make the 18 kW ERP that is authorized in the Construction Permit with the 3.75 kW transmitter and transmission line that is installed. Surtsey is now wishes to modify its authorization so that it can use the new antenna at a revised ERP of 11.35 kW.



### **Changes In Facility**

The following is a list of changes:

1. Different omni-directional antenna placed at the same radiation center height
2. ERP 11.35 kW instead of 18 kW

### **Environmental/RFR**

The proposed construction does not require preparation of an Environmental Assessment as it does not involve any of the factors listed in Section 1.1306.

The additional ground level RFR contributed to the site by this proposal in public areas is calculated to be  $0.000046 \text{ mW/cm}^2$  which is less than 5% of the MPE for public exposure ( $0.20 \text{ mW/cm}^2$ ) at the proposed frequency.

Surtsey agrees to comply with the Commission's requirements regarding power adjustments or cessation of operation as may be necessary to ensure a complaint environment for worker access. Workers will also be encouraged to wear personal RFR monitors when on the structure. The tower base is enclosed by a locked security fence and appropriate signage warning of RFR hazards will be posted.



**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 cursive script, reading "John F.X. Browne". The signature is written in black ink and is positioned above a horizontal line.

John F.X. Browne, P.E.

September 13, 2006