



ENGINEERING STATEMENT
OF
JOHN F.X. BROWNE, P.E.
IN SUPPORT OF AN APPLICATION FOR
MINOR CHANGE IN LICENSED FACILITY
KFJX
PITTSBURG, KS

Background

Surtsey Media, LLC (Surtsey) is the licensee of KFJX which has been authorized to operate its post-transition DTV facility on Channel 13 (BPCDT-20080612ABW^{1/}) at Pittsburg, KS, with an ERP of 4.5 kW at a HAAT of 335.8m. The tower is located at the following coordinates:

(NAD27)
37° 13' 15" N
94° 42' 25" W

KFJX now wishes to "maximize" the post-transition facility ERP to 5.6 kW. All other facility parameters will remain the same.

Antenna System and Tower

KFJX will use the existing digital antenna specified in its previous post-transition application, an ERI omni-directional antenna (ETX-XB-8V2-7/13), for the proposed maximized

^{1/} KFJX filed a license application for its authorized post-transition facility on June 18, 2009 (BLCDT-20090618ACC) and, therefore, this application is being filed as a minor change in a licensed facility rather than a minor modification of construction permit.



facility. As mentioned in the post-transition application filed in June, 2008, the antenna is part of a new top-mounted KFJX/KOAM antenna stack which has taken the place of the previous KOAM Channel 7 analog antenna. The antenna stack has been placed on the tower (ASR#1032005) at the coordinates specified above. The structure has a new overall height of 614.7m AMSL (with appurtenances) which is 9.8m lower than the previous overall tower height of 624.5m AMSL and the antenna has a center of radiation of 606.7m AMSL (with a calculated HAAT of 335.8m). Construction of the authorized KFJX post-transition facility was recently completed and Surtsey is in the process of notifying the FAA of the reduction in height of the existing structure and amending the ASR accordingly.

Coverage

The entire principal community of Pittsburg, KS is well within the predicted F(50,90) 43 dBu contour based on the proposed 5.6 kW ERP.

Interference Analysis

Studies were conducted with the proposed parameters using software that emulates the software used by the FCC (OET-69 analysis). The results of the studies indicate that there are no post-transition stations that would receive more than 0.5% new interference; however, the studies were run using a cell size of 1.0 km (rather than the default 2.0 km) as permitted by Section 73.616(e)(1) of the Commission's Rules and it is requested that the FCC use the same cell size when conducting its interference analysis.

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 0.000066 mW/cm² which is less than 5% of the MPE for public exposure

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(0.20 mW/cm²) at the proposed frequency and, therefore, the proposal is excluded from further consideration.

Surtsey 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 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 is 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.



John F. X. Browne, P.C.
July 20, 2009