



ENGINEERING STATEMENT
OF
JOHN F.X. BROWNE, P.E.
IN SUPPORT OF
REQUEST FOR SPECIAL TEMPORARY AUTHORITY
FOR
"PHASED" DTV TRANSITION
SCRIPPS HOWARD BROADCASTING COMPANY
WCPO-TV
CINCINNATI, OH

Background

Scripps Howard Broadcasting Company (SHB) is the licensee of WCPO (located at Cincinnati, OH which is presently operating its digital facility on Channel 10; the facility has the following parameters:

Pre-transition Facility (Ch. 10)

Coordinates: 39° 07' 30" N (NAD27)
84° 29' 56" W
ERP: 16.3 kW (omni)
HAAT: 272m



WCPO elected Channel 10 as its post-transition channel and has subsequently filed for a maximized post-transition facility (and been granted a construction permit) with the following parameters listed below:

Post-transition Facility (Ch. 10)

Coordinates: 39° 07' 30" N (NAD27)
84° 29' 57" W
ERP: 19 kW (DA)
HAAT: 305m

The WCPO analog antenna presently occupies the space on the top of the tower where the new digital Channel 10 antenna must be placed and, therefore, WCPO must remove the analog antenna before it can install its new digital Channel 10 antenna at the proper height in order to complete its build-out of its post-transition facility. WCPO has no available analog auxiliary antenna and the tower is a self-supporting structure which cannot accommodate a third antenna. WCPO wishes to continue to provide full analog service until the end of the transition and, thus, WCPO cannot complete the installation of the new digital antenna before the transition date without turning off its analog facility permanently at least 5 months prior to the transition date due to weather considerations^{1/}.

WCPO is filing herewith a request for Special Temporary Authority to continue using its existing licensed digital facility (which provides service to 98.5% of its Appendix B facility population based on an OET-69 analysis) as part of a "phased" transition and to extend its post-transition facility construction deadline to August 18, 2009.

^{1/} The WCPO tower resides in Cincinnati, OH which is a region of the country that can experience cold weather, high winds and snow in the months of November through April each year. These weather conditions make it nearly impossible to work on the tower. Since the WCPO analog antenna must be removed in order for its post-transition facility to be built (permanently ceasing analog service since WCPO has no auxiliary antenna), any pre-transition construction work on the tower would have to be completed before the end of October 2008; this would require WCPO to terminate its analog service approximately five months before the end of the transition.



Antenna System, Tower, and Operating Parameters

WCPO-TV proposes to continue using its existing Channel 10 digital antenna, an omni-directional Dielectric THP-03-3-1-R which is side-mounted on the tower (ASR#1013618). The tower has a height of 533m AMSL (including appurtenances) and the antenna has a center-of-radiation of 481m AMSL with an HAAT of 272m. WCPO will maintain its existing digital ERP of 16.3 kW during the “phased” transition period. The proposed digital STA facility will have the following parameters:

Digital STA Facility (Ch. 10)

Coordinates:	39° 07' 30" N (NAD27)
	84° 29' 56" W
ERP:	16.3 kW (omni)
HAAT:	272m

Coverage

The entire principal community of Cincinnati, OH will remain well within the predicted F(50,90) 43 dBu contour based on the proposed 16.3 kW ERP.

As mentioned above, this “phased” transition facility will provide service to 98.5% of its Appendix B facility population (based on an OET-69 analysis) which more than meets the required 85% minimum specified in the Report and Order for the Third Periodic Review of the Commission’s Rules and Policies Affecting the Conversion to Digital Television.

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 0.000431 mW/cm^2 which is less than 5% of the MPE for public exposure (0.2 mW/cm^2) at the proposed frequency and, therefore, the proposal is excluded from further consideration.

WCPO 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 are 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 are 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 black ink, appearing to read 'John F. Browne', written over a horizontal line.

John F. X. Browne, P.E.
July 24, 2008