



ENGINEERING STATEMENT
OF
JOHN F.X. BROWNE, P.E.
IN SUPPORT OF AN APPLICATION FOR
MINOR MODIFICATION OF A POST-TRANSITION CONSTRUCTION PERMIT
WPTV-DT
WEST PALM BEACH, FL

Background

Scripps Howard Broadcasting Company (Scripps) is the licensee of WPTV-DT which has been authorized to operate its post-transition DTV facility on Channel 12 (BPCDT-20080228AAA) at West Palm Beach, FL, with an ERP of 15.5 kW at an HAAT of 386m. The tower is located at the following coordinates:

(NAD27)
26° 35' 20" N
80° 12' 44" W

Scripps now wishes to "maximize" the post-transition facility ERP to 50 kW. All other facility parameters will remain the same.



Antenna System and Tower

Scripps proposes to use the omni-directional digital antenna specified in its recently granted post-transition construction permit (March, 2008), a Dielectric THV-10A12/VP O4, for the proposed maximized facility. The tower will have a new overall height of 400.3m AMSL (with appurtenances) which is 10.9m lower than the present overall tower height of 411.2m AMSL and the antenna will have a center of radiation of 390.5m AMSL (with a calculated HAAT of 386.5m). The FAA will be notified of the decrease in height of the overall structure and the ASR will be amended accordingly.

The proposed WPTV facility will incorporate both horizontal (50 kW) and vertical polarization (35 kW). (See attached HP and VP patterns as Figure 1a and Figure 1b respectively.) The vertically polarized radiation component will not exceed the authorized horizontally polarized component in any azimuth.

Coverage

The entire principal community of West Palm Beach, FL is well within the predicted F(50,90) 43 dBu contour based on the proposed 50 kW ERP.

Interference

Studies were run with the proposed parameters using software that emulates the software used by the FCC (OET-69 analysis). The results of the study indicate that there are no post-transition stations that would receive more than 0.5% new interference.



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 0.000446 mW/cm^2 which is less than 5% of the MPE for public exposure (0.20 mW/cm^2) at the proposed frequency and, therefore, the proposal is excluded from further consideration.

Scripps 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.
June 11, 2008



Proposal Number

Revision

Date

16 Jan 2008

Call Letters

WPTV

Channel

12

Location

West Palm Beach, FL

Customer

Antenna Type

THV-10A12/VP 04

AZIMUTH PATTERN

Gain

1.07 (0.29 dB)

Frequency

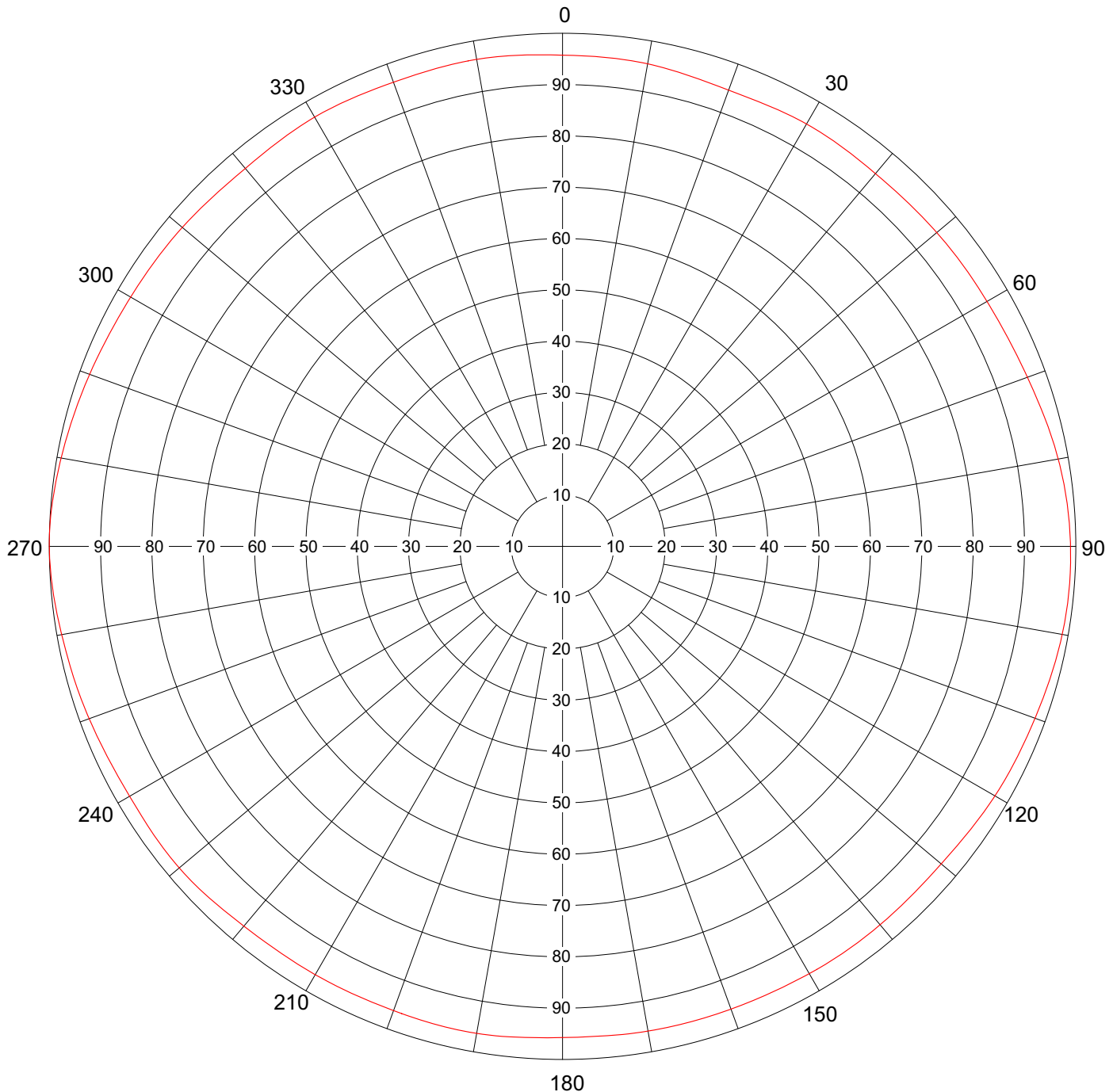
207 MHz

Calculated / Measured

Measured

Drawing #

WPTV-DT CH 12 207MHZ HOR



Remarks:



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16 Jan 2008

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WPTV

Channel

12

Location

West Palm Beach, FL

Customer

Antenna Type

THV-10A12?VP O4

VERTICAL POLARIZATION AZIMUTH PATTERN

Gain

1.46 (1.64 dB)

Frequency

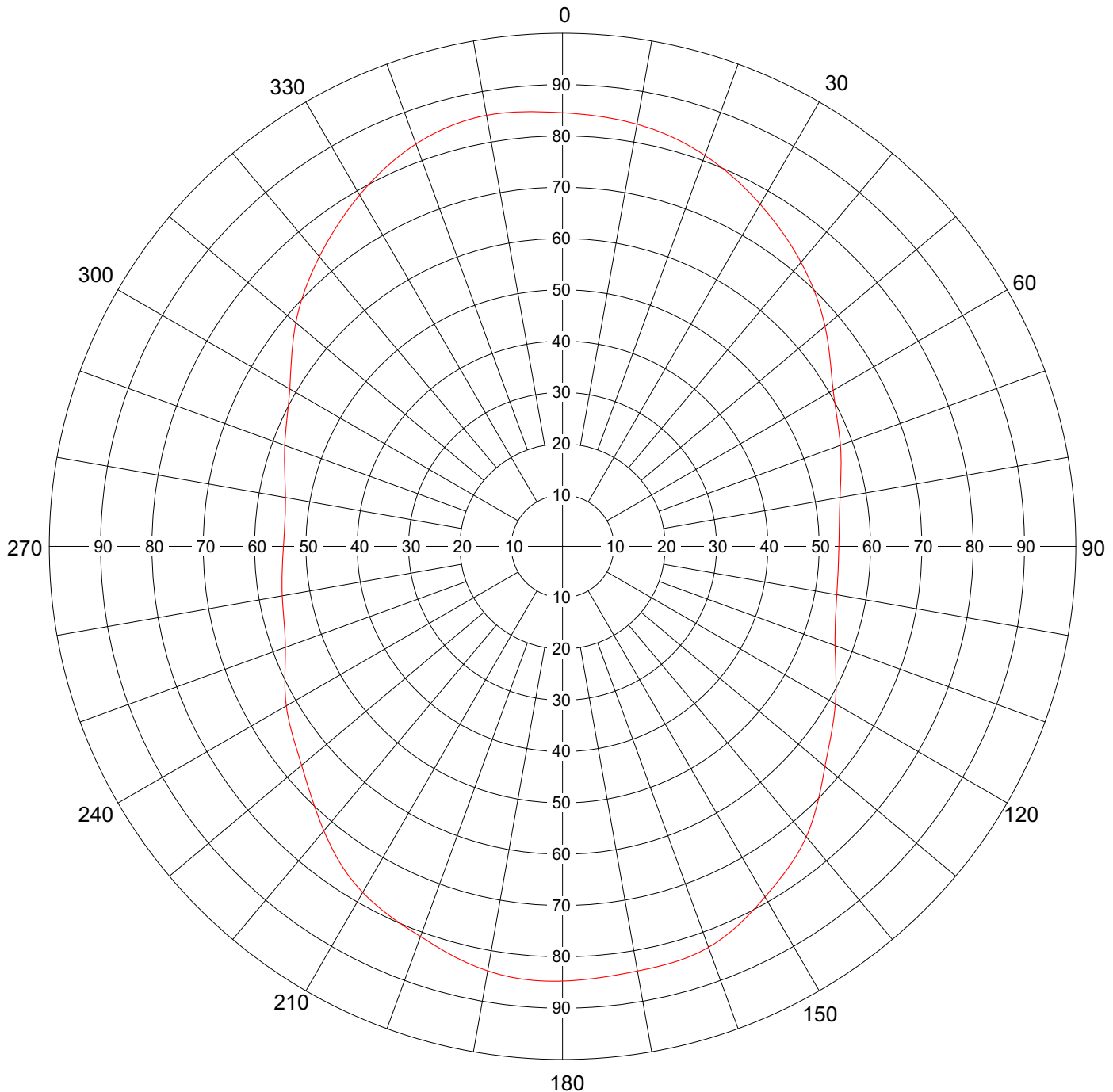
207 MHz

Calculated / Measured

Measured

Drawing #

WPTV-DT CH 12 207MHZ VER



Remarks: