



**STATEMENT OF JOHN E. HIDLE, P.E.
IN SUPPORT OF AN APPLICATION FOR
AN AUXILIARY CONSTRUCTION PERMIT FOR
WCWN - SCHENECTADY, NEW YORK
DTV - CH. 22 - 177 kW - 341.5 m HAAT**

Prepared for: WCWN Licensee, LLC

I am a Consulting Engineer, an employee in the firm of Carl T. Jones Corporation, with offices located in Springfield, Virginia. My education and experience are a matter of record with the Federal Communications Commission. I am a Licensed Professional Engineer in the Commonwealth of Virginia, No. 7418, and in New York State, No. 63418.

GENERAL

This office has been authorized by WCWN Licensee, LLC, licensee of WCWN, channel 22, facility ID number 73264, licensed to Schenectady, New York, to prepare this statement, FCC Form 2100, its technical sections, and the associated exhibits in support of an application for an auxiliary construction permit. The applicant proposes to utilize a former STA antenna, a Dielectric model TFU-16WB/VP-R C160 elliptically polarized directional antenna, that was employed during part of the repack transition as its auxiliary broadcast facility. The proposed auxiliary ERP is 177 kW, the antenna's center of radiation is at a height of 53.6 meters above ground, and 341.5 meters above average terrain.

PREDICTED COVERAGE CONTOURS

The predicted coverage contours were calculated in accordance with the method described in Section 73.625(b) of the Rules, utilizing the appropriate F(50,90) propagation

curves (47 CFR Section 73.699, Figure 9), proposed Effective Radiated Power, and antenna height above average terrain as determined for each profile radial. The average terrain on the eight cardinal radials from 3 kilometers to 16 kilometers from the site, was determined using the NED Three Second US Terrain Database as permitted in the FCC Rules. The antenna site elevation and coordinates were determined from FCC antenna registration data. Exhibit 1 shows the predicted Noise Limited (39.56 dBu) contour for the licensed facility and the proposed auxiliary facility, and the proposed principal community (48 dBu) contour which completely encompasses the principal community of license, Schenectady, New York.

BLANKETING AND INTERMODULATION INTERFERENCE

Other broadcast and non-broadcast facilities are either co-located with, or located within 10 km of the WCWN site. The applicant does recognize its responsibility to remedy complaints of interference that might result from this proposal in accordance with applicable Rules.

RADIO FREQUENCY IMPACT, SAFETY & STATEMENT OF COMPLIANCE

The licensee of WCWN is committed to the protection of station personnel and/or tower contractors working in the vicinity of its antennas and will reduce power or cease operation, when necessary, to ensure protection to personnel.

As shown in Appendix A the WCWN channel 22 auxiliary facility as proposed herein will operate with a maximum ERP of 177 kW from an elliptically polarized directional transmitting antenna with a centerline height of 53.6 meters above ground level (AGL).

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Considering the elevation pattern submitted elsewhere in this submission, the vertical plane relative field factor is less than 0.100 at all depression angles greater than 22 degrees. The proposed WCWN channel 22 facility is predicted to produce a worst-case power density at two meters above ground level, at 141.8 meters from the tower base, of $15.190 \mu\text{W}/\text{cm}^2$, which is 4.37% of the FCC guideline value of $347.33 \mu\text{W}/\text{cm}^2$ for an "uncontrolled" environment, and 0.874% of the FCC's guideline value for "controlled" environments. Therefore, pursuant to Section 1.1307(b)(3) of the FCC Rules, because the proposed facility would not exceed 5% of the uncontrolled and controlled exposure limits, the proposal's power density contribution is considered insignificant. Further, the Applicant will continue to cooperate/coordinate with other site users and reduce power and/or cease operation during times of service or maintenance of the transmission systems as necessary to avoid potentially harmful exposure to personnel. In light of the above, the proposed facility should be categorically excluded from RF environmental processing under Section 1.1307(b) of the Commission's Rules.

SUMMARY

The instant application for an auxiliary construction permit proposes for KTXS-TV to utilize its formerly licensed facility, file number BLCDT-20080815ABJ, at its formerly authorized position at 283.2 meters above ground level and 402 meters Height Above Average Terrain (HAAT) as its stand-by facility. It is submitted that the instant application as described herein, complies with the Rules, Regulations and relevant Policies of the Federal Communications Commission. This statement, FCC Form 2100, its technical

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sections, and the attached exhibits were prepared by me or under my direct supervision and are believed to be true and correct to the best of my knowledge and belief.

DATED: November 8, 2023

