

**TECHNICAL STATEMENT  
ENVIRONMENTAL IMPACT  
WXOW 96.7 KW 334.7 M HAAT CH. 28  
LA CROSSE, WISCONSIN**

The applicant, WXOW-WQOW License, LLC, requests Special Temporary Authorization (STA) for WXOW, Facility ID 64549, to transition to its post-auction channel at reduced facilities. The station was assigned Channel 28 for post-auction operation and is seeking temporary authority to broadcast from the same location authorized in its outstanding construction permit, File No. 0000027474. The instant request for temporary authorization is categorically excluded from environmental processing by 47 CFR § 1.1306 of the Commission's rules because it specifies an existing FCC registered tower that was constructed before March 16, 2001.<sup>1</sup> Given that the collocation of WXOW's antenna will not result in a substantial increase in the size of the existing antenna-supporting structure,<sup>2</sup> the criteria outlined in 47 CFR § 1.1307(a) for certain types of facilities that may significantly affect the environment do not apply. With regard to the rules for limiting human exposure to radio-frequency (RF)

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<sup>1</sup> 47 CFR Part 1, App. B, § III.A. "An antenna may be mounted on an existing tower constructed on or before March 16, 2001 without such collocation being reviewed through the Section 106 process set forth in the NPA, unless: 1. The mounting of the antenna will result in a substantial increase in the size of the tower as defined in Stipulation I.E, above; or, 2. The tower has been determined by the FCC to have an adverse effect on one or more historic properties, where such effect has not been avoided or mitigated through a conditional no adverse effect determination, a Memorandum of Agreement, a programmatic agreement, or a finding of compliance with Section 106 and the NPA; or, 3. The tower is the subject of a pending environmental review or related proceeding before the FCC involving compliance with Section 106 of the National Historic Preservation Act; or, 4. The collocation licensee or the owner of the tower has received written or electronic notification that the FCC is in receipt of a complaint from a member of the public, an Indian Tribe, a SHPO or the Council, that the collocation has an adverse effect on one or more historic properties."

<sup>2</sup> 47 CFR Part 1, App. B, § I.C. A substantial increase in size means: "(1) The mounting of the proposed antenna on the tower would increase the existing height of the tower by more than 10%, or by the height of one additional antenna array with separation from the nearest existing antenna not to exceed twenty feet, whichever is greater, except that the mounting of the proposed antenna may exceed the size limits set forth in this paragraph if necessary to avoid interference with existing antennas; or (2) The mounting of the proposed antenna would involve the installation of more than the standard number of new equipment cabinets for the technology involved, not to exceed four, or more than one new equipment shelter; or (3) The mounting of the proposed antenna would involve adding an appurtenance to the body of the tower that would protrude from the edge of the tower more than twenty feet, or more than the width of the tower structure at the level of the appurtenance, whichever is greater, except that the mounting of the proposed antenna may exceed the size limits set forth in this paragraph if necessary to shelter the antenna from inclement weather or to connect the antenna to the tower via cable; or (4) The mounting of the proposed antenna would involve excavation outside the current tower site, defined as the current boundaries of the leased or owned property surrounding the tower and any access or utility easements currently related to the site."



energy in 47 CFR § 1.1307(b), this request for STA seeks authority to operate a television broadcast antenna in full compliance with those guidelines as described in more detail below. The following technical specifications are proposed for WXOW:

Frequency :	554 - 560 MHz (UHF Channel 28)
Effective Radiated Power:	96.7 kW
Antenna Type:	DIE TFU-8WB; 70 degrees rotation
Antenna Polarization:	Horizontal
Antenna Height:	229.4 meters AGL
Location coordinates:	43-48-23.0 N, 091-22-03.0 (NAD83)
Site elevation:	373.6 meters AMSL
Overall tower height:	249.7 meters AGL
FCC ASRN:	1035149

Using the methodology for predicting power density levels for UHF broadcast antennas outlined in *FCC OET Bulletin No. 65, Edition 97-01*, (OET-65), a worst-case power density of  $2.5 \mu\text{W}/\text{cm}^2$  at points 2 meters above ground (approximate human head height) was determined for the proposed Channel 28 facility. This worst-case exposure level was calculated using 20 percent antenna relative field. The maximum exposure limits applicable to Channel 28, as established for uncontrolled and controlled situations in 47 CFR § 1.1310, are  $369 \mu\text{W}/\text{cm}^2$  and  $1,847 \mu\text{W}/\text{cm}^2$  respectively. Because the worst-case exposure level determined for the proposed facility is not more than 5% of those guidelines and considering that suitable warning signs will be posted, no further showing of compliance is necessary.

Respectfully submitted,

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