

**TECHNICAL STATEMENT
RE: ENVIRONMENTAL EFFECT
SAGAMOREHILL OF INDIANA LICENSES, LLC
WISE-TV 456 KW-ND 224 M HAAT CHANNEL 34
FORT WAYNE, INDIANA**

Sagamorehill of Indiana Licenses, LLC, the licensee of digital television station WISE-TV, Facility ID No. 13960, proposes construction of the WISE-TV post-auction facility on Channel 34. Reassignment from Channel 18 to Channel 34 was specified in the *Incentive Auction Closing and Channel Reassignment Public Notice*, DA 17-314, released on April 13, 2017. The construction permit application specifies an existing FCC registered tower that was constructed before March 16, 2001.ⁱ Given that the application seeks to utilize the station's existing antenna in connection with the reassignment channel, 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) energy in 47 CFR § 1.1307(b), this application 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:

Frequency :	590 - 596 MHz (UHF Channel 34)
Effective Radiated Power:	456 kW
Antenna Type:	DIE TUA-O4-10/40H-T-1-R
Antenna Polarization:	Horizontal
Antenna Height:	227.1 meters AGL
Location coordinates:	41-06-08.0 N, 85-11-05.0 W (NAD83)
Site elevation:	242.9 meters above mean sea level (AMSL)
Overall tower height:	235.0 meters AGL
FCC ASRN:	1029441; Constructed in 1957

Using the methodology for predicting power density levels for television broadcast antennas outlined in *FCC OET Bulletin No. 65, Edition 97-01*, (OET-65), the proposed facility is calculated to produce a maximum power density of 3.01 $\mu\text{W}/\text{cm}^2$ at points 2 meters above ground (approximate human head height). This exposure level was determined using 10 percent antenna relative field, which is generally considered to be a typical value for UHF



antennas. The maximum exposure limits applicable to Channel 34, as determined in accordance in 47 CFR § 1.1310 for uncontrolled and controlled situations, are 393 $\mu\text{W}/\text{cm}^2$ and 1,967 $\mu\text{W}/\text{cm}^2$ respectively. Because the worst-case exposure level determined for the proposed facility is not more than 5% of those guidelines and considering that the existing tower location is fenced and suitable warning signs are posted, no further showing of compliance is necessary. Accordingly, this application complies with the RF exposure limits and is categorically excluded from environmental processing by 47 CFR § 1.1306.

Steps to limit exposure to persons authorized to access the transmitter site will be consistent with the appropriate recommendations in OET-65. All maintenance and other related work to be performed at elevations higher than 2 meters above ground will be coordinated to prevent exposure to RF fields in excess of the controlled limit. Such preventative steps shall include reducing power or shutting down the facility.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Scott Turpie', written over a horizontal line.

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ⁱ 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. Any such complaint must be in writing and supported by substantial evidence describing how the effect from the collocation is adverse to the attributes that qualify any affected historic property for eligibility or potential eligibility for the National Register.”