



**STATEMENT OF JOHN E. HIDLE, P.E.
IN SUPPORT OF AN APPLICATION FOR
AN AUXILIARY CONSTRUCTION PERMIT FOR
KATU - PORTLAND, OREGON
DTV - CH. 24 - 42.9 kW - 477 m HAAT**

Prepared for: Sinclair Portland 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 Sinclair Portland Licensee, LLC, licensee of KATU, channel 24, facility ID number 21649, licensed to Portland, Oregon, 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 share a nearby site and the licensed antenna utilized by LPTV station KUNP-LD, license file number 0000124522, as its auxiliary broadcast facility. The KUNP-LD licensed Dielectric model TUM25-O4-8/32H-1-R-T elliptically polarized non-directional transmitting antenna's center of radiation is located at a height of 274.1 meters above ground, and 477 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

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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 (39.76 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, Portland, Oregon.

BLANKETING AND INTERMODULATION INTERFERENCE

Other broadcast and non-broadcast facilities are either co-located with, or located within 10 km of the KATU 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 proposed auxiliary KATU facility has been evaluated for human exposure according to methodology set forth in OET Bulletin 65. As shown in APPENDIX A the resulting power density attributable to the facility is $0.077 \mu\text{W}/\text{cm}^2$ which for an "uncontrolled environment" is 0.022% of the maximum permitted exposure limit for the general population.

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,

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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 KATU to share the licensed facility of LPTV station KUNP-LD, license file number 0000124522, as its stand-by facility. It is submitted that the instant application, as described herein, complies with the Rules, Regulations and Policies of the Federal Communications Commission. This statement, FCC Form 2100, its technical 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: January 5, 2024

