



**STATEMENT OF JOHN E. HIDLE, P.E.
IN SUPPORT OF A REQUEST FOR
SPECIAL TEMPORARY AUTHORIZATION
TO OPERATE AN EXPERIMENTAL DIGITAL TELEVISION
FACILITY TO EVALUATE AND DEMONSTRATE
THE AUTHORIZED ATSC 3.0 BROADCAST STANDARD
IN THE LAS VEGAS DESIGNATED MARKET AREA
THE PROPOSED FACILITIES ARE TO OPERATE ON
CH. 33 - 42.0 kW – 374 meters HAAT**

Prepared for: KUPN 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 KUPN LICENSEE, LLC, licensee of DTV station KSNV, channel 22, Las Vegas, Nevada, to prepare this statement, and the associated exhibits, in support of a request for STA to operate an experimental DTV facility for the purpose of testing, evaluation and demonstration of the ATSC 3.0 Broadcast Standard during both the upcoming Consumer Electronics Show and the National Association of Broadcasters Convention and Show in Las Vegas. The temporary ATSC 3.0 transmission facility is planned to be tested during the time leading up and after the Consumer Electronics Show scheduled for January 9th through 12th, 2024, and leading up to and after the National Association of Broadcasters Convention and Show scheduled for April 14th through 17th, both in Las Vegas, Nevada. Therefore, the applicant respectfully

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requests STA to become effective for experimental operation as early as January 2, 2024, through January 13, 2024, for the CES Show and April 7, 2024, through April 18, 2024, for the NAB Show.

It is herein proposed to utilize an existing broadband Dielectric Model TFU-8WB/VP-R S230 elliptically polarized directional antenna that is mounted on the tower (ASR No. 1203429) that is also used by KSNV, channel 22, and KVCW, channel 29. The proposed channel 33 Experimental STA will have absolutely no effect on the normal operations of the licensed KSNV and KVCW facilities in any instance. The instant request proposes a maximum ERP of 42 kW on channel 33, however the actual experimental ERP might be adjusted to various levels below the proposed maximum as a part of the experimental process. This experimental operation and demonstration will also have the added benefit of providing the other stations in the Las Vegas market with technical data and information to assist with the future permanent ATSC 3.0 conversion in the Las Vegas market, as well as other markets when considering conversion to ATSC 3.0.

ALLOCATION CONSIDERATIONS

An allocation study for the proposed channel 33 facility was performed using the Commission's application processing and interference analysis software, *tvstudy*, v. 2.2.5, the results of which are shown in Appendix B. Of the potentially affected full power, Class A LPTV, translators and LPTV stations listed, with the sole exception of K33MJ-D, none is predicted to receive new interference in excess of the 0.5% for full power and Class A LPTV stations or in excess of the 2.0% new interference for secondary translator and LPTV facilities, as permitted in Section 73.616 of the Commission's Rules.

K33MJ-D is currently licensed as a secondary LPTV facility on channel 33, which is licensed to Pahrump, Nevada. The licensee, Sinclair Media II, Inc. has agreed to accept the predicted interference from the requested STA facility to up to 8.28% of the population predicted to receive service from the K33MJ-D licensed facility during the pendency of the requested STA.

BLANKETING AND INTERMODULATION INTERFERENCE

Other broadcast and non-broadcast technical facilities will be co-located with, or are located within 10 km of the proposed channel 33 experimental STA operation site on Black Mountain. The applicant recognizes its responsibility to remedy complaints of interference which might result from this proposal in accordance with applicable Rules.

RADIO FREQUENCY IMPACT

The proposed channel 33 STA facility has been evaluated in regard to the FCC guidelines on human exposure to non-ionizing radiation. The calculated levels of RF exposure in the area below the tower is less than 3% of the allowable limit for a controlled environment and less than 15% of the allowable limit for an uncontrolled environment. The Black Mountain antenna farm is a controlled access site. Access to the transmitting tower site and any RF transmitting equipment is restricted and clearly marked with warning signs. When workers or other authorized personnel enter the restricted area appropriate measures are taken to assure worker safety.

OCCUPATIONAL SAFETY

In accordance with its obligations as an occupant of the Black Mountain site the applicant is committed to the protection of station personnel and/or tower contractors

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working on the tower support structure, or in the vicinity of the proposed experimental operation, by reducing power and/or ceasing operation during times of maintenance of the transmission systems, when necessary, to ensure the proper protection of persons who might be required to perform their assigned tasks in this controlled environment.

SUMMARY

The proposed experimental DTV operation will contribute to the television industry body of knowledge, especially the features of the ATSC 3.0 standard which are intended to improve television transmission by orders of magnitude. It is submitted that the instant application for an experimental STA, as described herein, complies with the pertinent Rules, Regulations, and Policies of the Federal Communications Commission. This statement 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: October 20, 2023



John E. Hidle, P.E.

