

## **ENGINEERING EXHIBIT**

### **Incentive Auction Channel Reassignment**

#### **Application for License to Cover Digital Television Station**

prepared for

#### **Thomas Broadcasting Company**

WOAY-TV Oak Hill, WV

Facility ID 66804

Ch. 31 320 kW 218 m

*Thomas Broadcasting Company (“Thomas”)* is the licensee of digital television station WOAY-TV, Channel 31, Facility ID 66804, Oak Hill, WV. Reassignment of WOAY-TV from Channel 50 to Channel 31 was specified in the *Incentive Auction Closing and Channel Reassignment Public Notice (“CCRPN”*, DA 17-317, released April 13, 2017). The WOAY-TV reassignment facility was recently constructed, and WOAY-TV is now licensed (file# 0000087696) to operate on Channel 31 at 320 kW effective radiated power (“ERP”) with a nondirectional antenna at 210 meters height above average terrain (“HAAT”). A Construction Permit (“CP” file# 0000094427) authorizes minor modification of the licensed reassignment facility to specify corrected geographic coordinates and ground elevation. The corrections result in an increase of antenna HAAT to 218 meters. No further construction or tower work was required to carry out the corrective CP, and *Thomas* herein seeks a license to cover the CP.

#### **Special Operating Condition**

Standard broadcast station WOAY(AM) (Facility ID 12550, 860 kHz, Oak Hill, WV) is co-located with WOAY-TV and utilizes the WOAY-TV tower structure as its nondirectional radiator. The WOAY-TV corrective CP contains the following special condition:

“During installation of the antenna authorized herein, AM Station(s) listed below shall determine operating power by the indirect method. Upon completion of the installation, antenna impedance measurements on the AM antenna shall be made and, prior to or simultaneous with the filing of the application for license to cover this permit, the results submitted to the Commission (along with a tower sketch of the installation) in an FCC Form 302-AM application for the AM station to return to the direct method of power determination. Callsign: WOAY , City: Oak Hill, State: WV”

Due to the recent tower work associated with construction of the WOAY-TV reassignment facility, WOAY(AM) is presently operating at reduced daytime power pursuant to Special Temporary Authority (“STA”, file# BSTA-20191118AAS). According to the underlying STA request, WOAY(AM)’s licensee is working towards restoration of full power operation. Prior to WOAY(AM) resuming full power operation, AM antenna impedance measurements will be conducted, the WOAY(AM) antenna coupling components will be adjusted as needed, and as appropriate WOAY(AM)’s licensee may submit an Application for Construction Permit to conform the WOAY(AM) facility to match the physical changes in the tower structure.

As described herein, coordination with station WOAY(AM) has been accomplished for use of the same tower structure, and WOAY(AM)’s licensee is working towards resumption of normal operation. Accordingly, *Thomas* believes that it has complied with the requirements of the special condition and requests a license to cover the corrective CP.

**Chesapeake RF Consultants, LLC**

Joseph M. Davis, P.E.                      January 9, 2020  
207 Old Dominion Road                      Yorktown, VA 23692                      703-650-9600