

## **ENGINEERING STATEMENT**

This exhibit supports this application to modify FCC File Number 0000027758, a construction permit for WDCO-CD<sup>1</sup>, Channel 30, Woodstock, Virginia, Facility ID 57905, licensed to the Applicant herein.

The Applicant propose to move WDCO-CD from channel 30 to channel 24 to resolve interference from other broadcasters. The proposed facility is less than 30 miles distance from the existing licensed facility. The F(50,90) 51 dBu contours of the proposed facility overlaps with the F(50,90) 51 dBu contours of the existing licensed facility. The proposed facility was studied using TVStudy v2.2.3 using the following parameters:

- Study cell size: 1.00 km
- Profile point spacing: 0.50 points/km

And the results are as follow:

- Distance to Canadian border: 459.3 km
- Distance to Mexican border: 2330.3 km
- Conditions at FCC monitoring station: Laurel MD
- Bearing: 46.9 degrees Distance: 47.4 km
- Proposal is not within the West Virginia quiet zone area
- Conditions at Table Mountain receiving zone:
- Bearing: 282.3 degrees Distance: 2395.4 km

It is believed that the proposed facility complies with the requirements of Sections 74.709, 74.793(e), 74.793(f), 74.793(g), 74.793(h) and other applicable parts of the Rules and Regulations of the Federal Communications Commission.

### **Digital TV and Class A Station Protection and Interference Acceptance**

The proposed facility causes less than 0.5% interference to surrounding digital and Class A television stations and allotments and facilities (i.e., “*de minimis*”) based on TVStudy v2.2.3. It is believed that the proposed operation is in compliance with the spirit and intent of the FCC’s interference standards.

### **Low Power TV and TV Translator Station Protection**

Based on TVStudy v2.2.3 with the Build Option to Protect LPTVs, the proposed facility causes less than 2.0% interference to surrounding low power assignments and allotments (i.e., “*de minimis*”). It is believed that the proposed operation is in compliance with the spirit and intent of the FCC’s interference standards.

### **Environment Effect**

The proposed facility is deemed individually and cumulatively to have no significant effect on the quality of the human environment and are categorically excluded from environmental processing as defined by 47 C.F.R. § 1.1306. Additionally, the Applicant certifies that it will reduce power or cease operation as necessary to protect any persons from having RF exposure in excess of FCC guidelines.

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<sup>1</sup> The call sign was changed from WAZT-CD to WDCO-CD effective October 11, 2017.