

**17 March 2011**

**To:** Mr. Brian Justin, Jr.  
1704 Cottonwood Road  
Forest, VA 24551

**From:** Josh Arritt, SBE Frequency Coordinator, Roanoke/Lynchburg  
3934 Electric Road  
Roanoke, VA 24018

**Re:** Experimental Beacon Coordination, *Reference FCC Correspondence 10133*

Mr. Justin,

This letter serves as a letter of SBE Frequency Coordination for a 4-meter band propagation beacon (FCC File No. 0150-EX-ST-2011). It is understood that operation of this beacon is to be similar in nature to an experimental license granted last year under FCC File No. 007-EX-PL-2010. Please note provisions for interference protection.

**Experimental Station Details**

The details of the beacon station from your Application, as coordinated, are as follows:

**Coordinates:** Lat N37-31-0 Long W079-30-35 NAD83

**Effective Radiated Power:** 5,000 Watts

**Emission:** 150H - A1A (Mod CW)

**Radius of Operation:** 5,000km

**Frequency:** 70.0040 MHz to 70.0060 MHz

Your application specifies the use of a directional Yagi-Uda antenna of 70 degree 3dB beam width, directed on an East-North-Easterly heading of 60 degrees from true North.

The antenna is understood to be located 15 meters above ground level, at a site located 1268 meters above mean sea level.

The intended use of this station is understood as a propagation beacon for the mid-VHF band, and as such its planned time of operation is limited to months of probable Es mode of propagation on that band. This letter is intended to coordinate the operation of your station under normal ground-wave propagation conditions, as is customarily expected of such letters.

A map displaying the geographic location of the proposed station is included as an appendix to this letter. For the purpose of this coordination, a radius of 100 kilometers has been chosen.

### **Potentially Affected Stations/Licenses**

The 4-meter band includes the lower VHF television spectrum, specifically television Channel 4, encompassing 66MHz – 72 MHz. A search for TV Ch4 stations was conducted using the FCC's TV Query tool. Search parameters included a radius of 100 kilometers centered on the proposed station's coordinates as described in your application. This search yielded two results, both being television translators.

**Translator station W04AG (FCC File No. BLTTV-1940)** is licensed at a location 47.77 kilometers from the proposed station on a bearing of 231.77 degrees true north. This translator is licensed to WDBJ Television, Inc., and serves population in the Garden City and Cave Spring suburbs of Roanoke, VA, as well as eastern portions of Salem, VA. WDBJ Television, Inc, operates this station to support reception of WDBJ-DT (FCC File No. BLCDT-20020502AAP), a Class A television facility located on Poor Mountain, approximately 21 kilometers from the community of license (Roanoke). The portions of the community served by the translator are located in a terrain shadow from the Poor Mountain facility.

**Translator station W04CI (FCC File No. BLTTV-19901105J0)** is licensed at a location 45.0 kilometers from the proposed station on a bearing of 124.64 degrees true north. This translator is licensed to Gethsemane Baptist Church, and serves population south and east of the Madison Heights suburb of Lynchburg, including Appomattox. Gethsemane Baptist Church operates this station to support reception of W33AD (FCC

File No. BLTTL-19821108IO), a Low Power Television (LPTV) station licensed to Concord, VA.

The proposed station, operating on 70.005MHz, has a third-order harmonic occurring at 210.015MHz. This falls within television channel 13, which is presently occupied by WSET-TV (FCC File No. BMPCDT-20080620AIR), and as such, coordination with WSET-TV was deemed appropriate.

No other potentially affected facilities were identified.

#### **W04AG Discussion**

Coordination with WDBJ Television Inc. was conducted via telephone conversation and email exchange with chief engineer Alan Novitsky. Mr. Novitsky stated he again did not expect adverse effects to reception of translator station W04AG, and had no objection to the proposed operation in 2011.

#### **W04CI Discussion**

Coordination with Gethsemane Baptist Church was attempted on several occasions. Similar to last year, no response from the licensee was obtained from each attempt.

Like last year, an attempt was made to determine if W04CI was operational on channel 4 on 9 March 2011. This reception attempt showed no NTSC or 8VSB signal present. Searching CDBS, no application was found to indicate the station had been taken silent.

The Gethsemane Baptist Church website was visited on 16 March 2011, in an attempt to find more contacts for the station. The website makes mention of W33AD, UHF Channel 33, and programming availability by way of a local cable provider, Shentel. No mention of W04CI, or programming availability in the Appomattox area by way of a signal on channel 4 was found.

As of the writing of this letter, the licensee has been unreachable, and the station appears to be silent.

#### **WSET-TV Discussion**

Chief engineer Willis Little was notified that beacon operation was planned for 2011. I received no objection to this operation.

**Coordination Provisions**

Should the proposed station at any point during its operation cause harmful interference to the above listed facilities, as determined by Mr. Novitsky of WDBJ or Mr. Little of WSET, operation of the beacon should be ceased. Their contact information is included below. Interference mitigation measures can then be discussed. Suggested measures may include scheduled hours of beacon operation, antenna modifications either at the beacon station or to affected receivers, or transmitter power reduction, or other measures, as seen fit, and in accord with FCC regulations governing the license class of your beacon station. It is understood that your station will have remote control capability.

**WDBJ-DT**

Mr. Alan Novitsky  
2807 Hershberger Rd.  
Roanoke, VA 24017  
540-344-7000  
anovitsky@wdbj7.com

**WSET-TV**

Mr. Willis Little  
2320 Langhorne Rd.  
Lynchburg, VA 24501  
434-528-1313  
wlittle@wset.com

Should you require further assistance from SBE in terms of frequency coordination, please feel free to contact me.

Regards,



Joshua M. Arritt

SBE Frequency Coordinator, Roanoke/Lynchburg