

8 March 2013

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, *in support of a pending Part 5 Experimental License Filing*

Mr. Justin,

This letter serves as a letter of SBE Frequency Coordination for a proposed 4-meter band propagation beacon. It is understood that operation of this beacon is to be mostly similar in nature to experimental Special Temporary Authority instruments granted for the past several years. This coordination also recognizes the addition of narrowband digital emissions to be made on regular intervals between CW emissions. Please note provisions for interference protection.

Experimental Station Details

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

Coordinates: Lat N37-31-0 Long W079-30-35 NAD83 CoR 1295m AMSL

Effective Radiated Power: 3,000 Watts

Emission: 150H - A1A (Mod CW) and 157H – F7B

Radius of Operation: 6,000km

Frequency: 70.0040 MHz to 70.0060 MHz, GPS-locked

Previous instruments have specified the use of a directional Yagi-Uda antenna of 64 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 1280 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.

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-D (FCC File No. BLDTV-20110119AAM) 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-20090714AAW), 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. It should be noted that W04AG-D has commenced digital operation.

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 Paul H. Passink, 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.

No other potentially affected facilities were identified.

W04AG-D Discussion

Coordination with WDBJ Television Inc. was conducted via email on 14 February 2013 with chief engineer Alan Novitsky. Mr. Novitsky stated he again did not expect adverse effects to reception of translator station W04AG-D, and had no objection to the proposed operation in 2012.

W04CI Discussion

A coordination letter was sent to licensee contact Paul H. Passink of Concord, VA on 3 Apr 2012. Mr. Passink responded this year, claiming he no longer had a connection with the station. Another coordination letter was sent to the licensee on 19 February 2013, under general cover to Gethsemane Baptist Church. No response was received.

An attempt was made to determine if W04CI was operational on channel 4 on 25 February 2013. This reception attempt showed no NTSC or 8VSB signal present. Searching CDBS, no application was found to indicate the station had been taken silent.

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

WSET-TV Discussion

Chief engineer Willis Little was notified via email on 14 Feb 2013 that beacon operation was planned for 2013 and beyond. WSET-TV operates within the proposed beacon's third harmonic. Mr. Little had no objection to this proposed beacon.

Coordination Provisions

Should the proposed station at any point during its operation inflict harmful interference to the above listed facilities, as determined by Mr. Novitsky of WDBJ or Mr.

Little of WSET, operation of the beacon should cease. 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

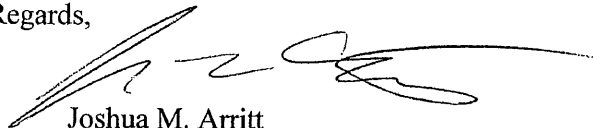
Mr. Alan Novitsky
2807 Hersherberger Rd.
Roanoke, VA 24017
540-344-7000
anovitsky@wdbj7.com

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,

A handwritten signature in black ink, appearing to read 'Joshua M. Arritt', with a long horizontal flourish extending to the right.

Joshua M. Arritt

SBE Frequency Coordinator, Roanoke/Lynchburg