

**TECHNICAL EXHIBIT 26**  
**AVAILABILITY OF CHANNELS**

IN SUPPORT OF AN APPLICATION  
FOR A CONSTRUCTION PERMIT  
**WKHI(FM), FRUITLAND, MARYLAND**  
MAY 2012

These technical exhibits have been prepared on behalf of Great Scott Broadcasting (“GSB”), licensee of FM radio station WKHI(FM), Fruitland, Maryland, and are in support of a one step upgrade application for a construction permit to change station Class from A to B1. The proposed change would permit WKHI(FM) to provide stronger signals to its community of license and enlarge the station’s coverage.

At present, WKHI(FM). Facility ID No. 4107, is licensed to operate on Channel 299A (107.7 MHz) with 5.3 kW effective radiated power (ERP) and 106 meters antenna height above average terrain (HAAT) using a non-directional antenna. The proposed operation will be on Channel 299B1 (107.7 MHz) with 22 kW effective radiated power (ERP) and 106 meters antenna height above average terrain (HAAT) using a directional antenna at the current antenna site location. GSB has selected an existing tower for the reference site for its Class B1 proposal. The existing tower located at this site is registered with the commission with ASR #1226511. In addition, the proposed directional FM antenna system for WKHI’s Class B1 operation fully complies with section 73.315(c) (2) of the Commission’s Rules.

#### Allotment of Channel 299B1 to Fruitland, Maryland

The allotment of Channel 299B1 to Fruitland, Maryland is in accordance with the Commission’s Policy of a one step upgrade and complies with the criteria of availability of a “fully-spaced” transmitter site, as well as the required community coverage to Fruitland, MD. This Exhibit and the attached Exhibit 27 contain supportive technical showings relating to the WKHI(FM) application for a one step upgrade.

The attached Table I shows the distances to pertinent FM stations on Channel 299 and  $\pm 3$  and -53 and 54 channels from the proposed WKHI(FM) “fully-spaced” transmitter site location. Table I indicates that the “fully-spaced” transmitter site of the proposed Channel 299B1 operation of WKHI(FM) complies with the minimum distance requirements of Section 73.207 of the Commission’s Rules to all existing and/or proposed FM stations and authorizations.

**TABLE I**  
**FM ALLOCATION SITUATION**  
**FROM THE “FULLY-SPACED” SITE**  
**FOR THE PROPOSED CHANNEL 299B1 OPERATION OF**  
**WKHI(FM), FRUITLAND, MARYLAND**  
**MAY 2012**

<u>CHANNEL</u>	<u>CALL</u>	<u>CITY/ STATE</u>	<u>GEOGRAPHIC COORDINATES</u> NAD-27	<u>DISTANCE</u>	
				<u>ACTUAL</u> km	<u>REQUIRED</u> km
299B1	WKHI	Fruitland, MD	N 38-12-57 <sup>1</sup> W 75-19-21	--	--
300B	WLZL(FM)	Annapolis, MD	N 38-59-46 W 76-39-26	145	145
296A	WTDK(FM)	Federalsburg, MD	N 38-46-02 W 75-44-46	71.5	48
298A	WNNT-FM	Warsaw, VA	N 37-56-39 W 76-45-05	128.9	96
299B	WGTY	Gettysburg, PA	N 39-51-23 W 76-56-57	230.2	211
299B	WWWT-FM	Manassas, VA	N 38-44-31 W 77-50-07	226.9	211
299B1	WMOV-FM	Norfolk, VA	N 36-48-37 W 76-16-59	177.6	175
246A	WAVD CP	Ocean Pines, MD	N 38-21-41 W 75-15-10	17.3	12
246A	WAVD Lic	Ocean Pines, MD	N 38-22-52 W 75-10-32	22.4	12

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<sup>1</sup> “Fully-Spaced” Antenna Site Geographic Coordinates, ASR 1226511

Figure 1 shows the allocation arc from the “fully spaced” transmitter site for the proposed Class B1 WKHI(FM) one class upgrade.

Figure 2 shows the proposed Class B1 WKHI(FM) 70 dBu contour would fall short of providing the required service to Fruitland, MD from the “fully-spaced” transmitter site using a 23.2 kilometer arc. However, since the terrain roughness factor ( $\Delta h = 11$  meters) from the “fully-spaced” site in the direction (N 295° E) of Fruitland, MD is less than 20 meters, a supplemental showing is being provided in accordance with the Commission’s policy associated with Section 73.313 of the their Rules.

The supplemental showings are based on equivalent maximum Class B1 facilities of 11 kW and 149 meters HAAT. The required community coverage signal of 70 dBu has been calculated using the Longley-Rice propagation and the FCC Point-to-Point methods including a 1 dB clutter factor for the area as advised by the propagation expert at the Office of Engineering and Technology (“OET”). Both supplemental showings (Figure 2 and Figure 2A) demonstrate that the proposed “fully-spaced” Class B1 WKHI(FM) operation based on equivalent maximum Class B1 facilities (11 kW/149m HAAT) provide 70 dBu signal to all of Fruitland, MD; therefore it is believed the proposal is in compliance with Section 73.315 of the Commission’s Rules and policy for a one step Class upgrade. However, if a waiver of Section 73.203 is deemed necessary, the waiver is hereby requested, due to rule compliance based on a supplemental showing of 70 dBu service to Fruitland, MD.