

**STA REQUEST FOR DIGITAL POWER INCREASE  
Asymmetrical -14dBc Lower sideband, -10dBc Upper Sideband  
Beasley Media Group Licenses, LLC  
WWCN RADIO STATION, FAC ID 74286  
CH 257C2 – 99.3 MHZ, Fort Myers, FL  
October 2022**

**TECHNICAL STATEMENT**

This Technical Statement and attached exhibit were prepared on behalf of Beasley Media Group Licenses, LLC ("BMG"), licensee of WWCN, Channel 257C2, Fort Myers, Florida. BMG had previously notified the Commission of the commencement of digital operation for station WWCN<sup>1</sup>. Following a fire at the transmitter site, BMG rebuilt the site and replaced the transmission equipment. The new equipment is capable of higher HD injection levels therefore, WWCN wishes to increase the digital power of WWCN and has the equipment on hand which will allow digital operation at greater than -14dBc in symmetrical or in asymmetrical mode. Because the allowable digital power level exceeds the FCC specified notification requirements (greater than -14dBc) on one sideband, BMG herein submits a request for Special Temporary Authority for authorization of WWCN with the HD level at -14dBc (lower sideband) and -10dBc (upper sideband).

WWCN (FM) operates on channel 257C2. A review of first adjacent stations which could be impacted by digital operation of WWCN higher than -14dBc was completed pursuant to the FCC order in MM Docket #99-325.

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<sup>1</sup> Digital notification file number BDNH20061114ADV, and experimental STA 20070109ABQ

Two stations were identified which required analysis: WWOJ (256C3) on the lower sideband, and WQYK-FM (258C1) on the upper sideband.

Digital operation of up to -10 dBc is possible provided that the interfering contour of WWCN is 49.5dBu or less proponent analog F(50,10) field strength at the protected station's analog 60dBu F(50,50) Contour). As is demonstrated in Exhibit A, WWCN is permitted to operate with -10dBc *on the upper sideband only* based upon contour protection to WQYK-FM (60dBu protected contour). On the lower sideband, the interfering contour to WWOJ's 60dBu f(50,50) contour is above 51.2dBu F(50,10), therefore on the lower sideband, operation is requested at -14dBc.

WWCN is using the Xperi Corporation's HD Radio™ technology and the facilities conform to the Xperi hybrid digital FM specifications. The analog transmitter power output (TPO) of WWCN will be 25.1kW. The added digital power will be 1kW on the lower sideband (-14dBc) and on the upper sideband will be 2.51kW (-10dBc). Total combined analog and the averaged digital transmitter power output (TPO) will be 26.9kW. WWCN will operate using the MP3 extended hybrid mode.

BMG hereby certifies that its analog and digital operation of WWCN will not cause human exposure to levels of radio frequency radiation in excess of §1.1310 of the Commission's rules and is, therefore, categorically excluded from environmental processing pursuant to § 1.1306(b).



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# EXHIBIT A

## WWCN (257C2) HD Calculation to WQYK-FM (258C1)

