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# *Summary of Schedule 302 License Modification Filing* *1*

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**Call letters:** WYFH(FM) (License Modification)  
**City of License:** North Charleston, SC  
**Channel:** CH214C2 (90.7 MHz)  
**File No:** BLED-20140723ACT  
**Facility ID:** 5095  
**Applicant:** Bible Broadcasting Network, Inc.

## **Explanation of License Modification Filing**

This WYFH(FM) - North Charleston, SC (Facility ID: 5095) License Modification of BLED-20140723ACT is being filed pursuant to 47 C.F.R. Section 73.1690(c)(2) for the replacement of a directional antenna; and pursuant to 47 C.F.R. Section 73.1690(c)(10) for a change in the calculated Transmitter Power Output (TPO).

### ***\*\*47 C.F.R. Section 73.1690(c)(2) - Replacement of a Directional Antenna\*\****

Concerning the noted directional antenna, the former Jampro Model JMPC-6, six (6) bay, full-wave spaced antenna has been replaced with a new SWR Model FM3/6-CF-DA-90.7, six (6) bay, full-wave spaced antenna. The antenna radiation center height remains materially unchanged from those currently authorized in BLED-20140723ACT. Therefore, as the recent antenna replacement remains within two meters above or four meters below the authorized heights as permitted under §73.1690(c)(2); this filing may be made directly on a license modification. Additional directional antenna documentation has been included as follows:

(i) A measured directional antenna pattern and tabulation on the antenna manufacturer's letterhead showing both the horizontally and vertically polarized radiation components and demonstrating that neither of the components exceeds the authorized composite antenna pattern along any azimuth.

***See Attached Directional Antenna Proof of Performance.***

(ii) Contour protection stations authorized pursuant to §73.215 or §73.509 must attach a showing that the RMS (root mean square) of the composite measured directional antenna pattern is 85% or more of the RMS of the authorized composite antenna pattern. See §73.316(c)(9). If this requirement cannot be met, the licensee may include new relative field values with the license application to reduce the authorized composite antenna pattern so as to bring the measured composite antenna pattern into compliance with the 85 percent requirement.

***See Attached Directional Antenna Proof of Performance.***

(iii) A description from the manufacturer as to the procedures used to measure the directional antenna pattern. The antenna measurements must be performed with the antenna mounted on a tower, tower section, or scale model equivalent to that on which the antenna will be permanently mounted, and the tower or tower section must include transmission lines, ladders, conduits, other antennas, and any other installations which may affect the measured directional pattern.

***See Attached Directional Antenna Proof of Performance.***

(iv) A certification from a licensed surveyor that the antenna has been oriented to the proper azimuth.

***See Attached Surveyor's Certification.***

(v) A certification from a qualified engineer who oversaw installation of the directional antenna that the antenna was installed pursuant to the manufacturer's instructions.

***See Attached Engineer's Certification.***

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## ***Summary of Schedule 302 License Modification Filing*** **2**

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***\*\*47 C.F.R. Section 73.1690(c)(10) - Correction in Transmitter Power Output & Antenna Replacement\*\****

Concerning the noted change in Transmitter Power Output (TPO), a revised Transmitter Power Output worksheet has been included herein. The new TPO value has been properly noted on this Schedule 302 License Modification Application.

Concerning RF Compliance for the new SWR Model FM3/6-CF-DA-90.7, six (6) bay, full-wave spaced antenna, the applicant certifies RF Compliance with the attached study.

Regarding compliance with the NEPA, Nationwide Programmatic Agreement and NHPA Section 106 for tower co-location, compliance with the agreement is not required where no new tower construction is being proposed and the tower is not being substantially altered. Specifically, compliance is not necessary where only an antenna and feed-line are being replaced on an existing structure, as here. However, should the Commission determine compliance is necessary, upon notification the applicant will file FCC Form 621.

No other License Modifications are requested at this time.