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WHFL-CD, CHANNEL 7 - POST-REPACK CHANNEL
GOLDSBORO, NORTH CAROLINA
FCC FACILITY ID: 22485

FREE LIFE MINISTRIES, INC.

LICENSE TO COVER - ENGINEERING STATEMENT

All specifications and conditions set forth in the WHFL-CD Construction Permit have been fully met, and the facility is ready for licensing.

No changes or deviations from that authorized in the underlying construction permit have occurred. No "changes" are reported. The construction permit contained two special operating conditions.

FREE LIFE MINISTRIES, INC., accepts all special operating conditions as listed on the construction permit, and affirms the following:

Special Operating Condition #1:

"Prior to construction of the tower authorized herein, permittee shall notify AM Station(s) listed below [WGBR, GOLDSBORO] so that, if necessary, the AM station(s) may determine operating power by the indirect method and request temporary authority from the Commission in Washington, D.C. to operate with parameters at variance in order to maintain monitoring point field strengths within authorized limits."

WGBR (AM), neither required or sought a determination of its operating power by the indirect power method, or an STA to operate with antenna parameters at variance as a result of the antenna change at WHFL-CD as no impact on the operation of WGBR occurred as noted below:

WGBR has not reported any changes to its antenna operating parameters or any instability of its antenna systems during, or after, completion of construction by WHFL-CD.

The WHFL-CD antenna is a side-mounted VHF slot antenna mounted upon the WHFL-CD existing and grounded tower structure. No impact on the operation of AM station WGBR, Goldsboro, NC., antenna systems can occur as detailed in the following paragraphs below as a result of the antenna change by WHFL-CD.

The WGBR (AM) antenna system is located at a distance of 2.102 kilometers from the existing WHFL tower. The azimuth bearing from WGBR to the WHFL tower is 241.0 degrees true. WGBR operates with a daytime power of 5000 watts and a nighttime power of 800 watts using a three-tower directional antenna array (DA-2) on a frequency of 1150 kilohertz.

No new construction has occurred at the WHFL site that would impact the operation of the AM station. The WHFL tower is an existing electrically grounded structure in which no changes have occurred that would affect the antenna systems of WGBR.

The tower remains as previously constructed in 1994 with no increase in height or the physical cross-section of the structure occurring. Thus, no change would or could be expected to occur concerning the re-radiation characteristic of the supporting structure with regards to WGBR's directional signal.

No changes in the number of transmission lines or other devices mounted upon the tower have occurred that would increase the tower's physical height or cross-sectional width (footprint). All tower-mounted transmission lines and the WHFL-CD antenna itself, are electrically bonded to this "electrically grounded" tower-supporting structure.

The WHFL-CD antenna is mounted at the same physical location (height and mounting arrangement) on the tower as the previous WHFL-CD antenna and is of similar physical size as that previously in use.¹ As the antenna replacement change-out is side-mounted and well below the top of the tower, no change in the physical height of the supporting structure occurred.

As a result, the change in the side-mounted antenna on this structure could not result in any change in the predicted radiated signals from the AM station, as verified by the use of a "moment-of-method" analysis software program.² The impact of this structure on the predicted WGBR (AM) FCC standard directional antenna patterns as predicted by analysis is noted in the table below:

WGBR Directional Antenna Pattern(s) E-Min and E-Max (mV/m/km)

DAYTIME DIRECTIONAL PATTERN WITH WHFL-CD GROUNDED TOWER			
AZ	FCC STD PAT.	NEC PREDICTED	WITHIN STD LIMIT
145.0	1162.7	1120.2	YES
294.8	229.5	227.9	YES
325.0	255.7	253.4	YES
355.2	229.5	227.5	YES

¹ A channel 43 UHF slot antenna was replaced with a channel 7 VHF slot antenna, the physical length of the antenna was carefully matched to that of the existing antenna for wind (cross-section area) and tower loading considerations.

² Moment of Method (NEC) Software: "Expert MININEC Broadcast Professional, Version 12.6." was used during the analysis.

NIGHTTIME DIRECTIONAL PATTERN WITH WHFL-CD GROUNDED TOWER			
AZ	FCC STD PAT.	NEC PREDICTED	WITHIN STD LIMIT
20.4	10.5 *	3.6	YES
145.0	519.7	503.1	YES
269.6	10.5 *	2.8	YES
325.0	174.9	168.3	YES

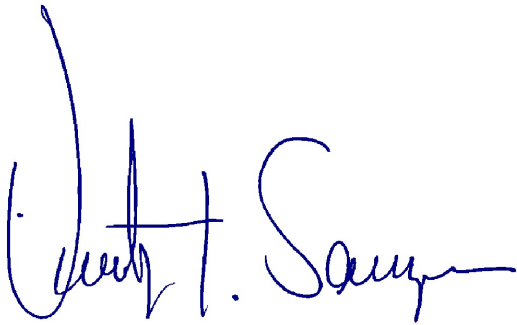
* FCC Standard (STD) Pattern has a minimum Q factor of 10.5 mV/m.

Special Operating Condition #2:

"The grant of this construction permit is subject to the condition that, with ample time before commencing operation, you make a good faith effort to identify and notify health care facilities (e.g., hospitals, nursing homes, see 47 CFR 15.242(a)(1)) within your service area potentially affected by your DTV operations."

Advance notice as required by condition #2 of the construction permit has been completed by the station, and medical facilities within the low-power television service area (an approximate 30-mile radius of the transmitter site) were notified of the proposed operation on TV channel 7 (174-180 MHz).

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