### Albert Broadcast Services, Inc. PO Box 4170 Florence, SC 29502 (704) 507-4987

November 20, 2023

WOLH
Dave Baker
51 Commerce St.
Sumter, SC 29501

Re: 2023 NRSC Emissions Reports for WOLH-AM

Dear Dave:

I am pleased to enclose your 2023 NRSC Equipment Performance Measurements for station WOLH, certifying compliance with section 73.44 of the Federal Communications Commission rules and regulations regarding emission requirements.

This document or a copy thereof should be uploaded to the station public file for the station. If I can be of further service, please do not hesitate to contact me directly.

Cordially,

Stu Albert, President

# AM Transmission System (NRSC) Emission Measurements

# WOLH

Florence, SC

November 17, 2023

## **AM Transmission System Emission Measurement**

# WOLH Florence, SC

## **November 17, 2023**

The radiated emissions of WOLH, 1230 KHz, Florence, SC were measured on November 17, 2023. The measurements were made by Albert Broadcast Services, Inc. utilizing an RF Spectrum Analyzer, Anritsu model MS2720T, serial number 1616060. The analyzer was warmed for a period of 15 minutes to its normalized temperature before measurements began. The instrument was located one kilometer from the stations antenna. The receive antenna connected to the spectrum analyzer was a three-turn broadband, non pre-amplified loop antenna manufactured by Belar Corporation.

The spectrum analyzer was set to operate with no video filter, 300 Hz resolution filter bandwidth and with peak hold sampling for each measurement. Sweep resolutions of 5.0, 10.0 and 20.0 KHz per horizontal division were utilized where appropriate to allow various degrees of measurement resolution.

Emissions from 10.2 KHz to 20 KHz removed from the carrier were measured at greater than 25 dB below the un-modulated carrier level. Emissions 20 KHz to 30 KHz removed from the carrier were measured at greater than 35 dB below the un-modulated carrier. Emissions from 30 KHz to 60 KHz removed from the carrier were attenuated at least 5+1dB/KHz below the un-modulated carrier level. Emissions between 60KHz and 75KHz were measured at greater than 65 dB below the un-modulated carrier level. Emissions removed by more than 75 KHz were measured up to 5.0 MHz, using a Potomac FIM-41 field intensity meter, serial number 1542.

The measurements contained herein certify that the station was found in compliance with Federal Communication Communications Commission rule 73.44 regarding emission limitations at the time of measurement.

Steward R. Albert, President Albert Broadcast Services, Inc.

#### **Harmonic Measurements**

#### WOLH Florence, SC 11/17/2023

The following tabulated results of Harmonic Ratio were measured by noting the dB scale reading at the carrier frequency, then tuning the field intensity meter to the desired harmonic and measuring the field strength, while noting the N number positions that the Full Scale switch of the field strength meter was moved to obtain an on scale reading. The Harmonic Ratio was then calculated using the formula:

dB (Harmonic) - dB (Fundamental) + (Nx20)dB

Required level of attenuation: 43+10 Log (power in watts) or 80 dB,

whichever is less.

Station power: 1,000 watts Attenuation Required: 73 dB

Frequency	Measured Field Stre	Measured Field Strength (dB)	
1230 KHz (Carrier)	110 mV/m	(19.0 dB)	
2460 KHz			> -81.0 dB
3690 KHz			-80.0 dB
4920 KHz			> -81.0 dB





