

PROGRAM TEST AUTHORITY

The applicant hereby requests program test authority via this license to cover application.

CONSTRUCTED FACILITY

The WPBQ Channel 212 (90.3 MHz) Class C3 Noncommercial Educational FM (NCE FM) facility was built-out pursuant to the underlying construction permit (File No. 0000194613) **with exception that the authorized contour (azimuth pattern) has been slightly exceeded at radials 0°, 10°, 20°, 30° and 350°. The attached interference study demonstrates that the slightly exceeded radials will not result in interference.**

PROOF-OF-PERFORMANCE

The results of a complete proof-of performance are provided as Exhibit 1 herein to establish the horizontal plane radiation patterns for both the horizontally and vertically polarized radiation components. The proof-of-performance was accomplished using a carefully manufactured scale model of the entire antenna, or individual bays therefrom, mounted on an equally scaled model of the proposed supporting structure, including all appurtenances pursuant to the FM Broadcast Directional Antenna Performance Verification Order, FCC 22–38. Directional patterns of a particular model antenna that are verified using computer results for the first time must submit to the Commission both the results of the computer modelling and the measurements of either a full-size or scale model of the antenna or elements thereof, demonstrating a reasonable correlation between the measurements achieved and the computer model results. Once a particular antenna model or series of elements has been verified, subsequent applicants using the same antenna model number or elements and the same modeling software may cross-reference the original submission by providing the application file number. Dielectric, the antenna manufacturer of the DCR-H3E antenna, submitted the results to the FCC back in November 2022 and were notified by the Media Bureau that the antenna has been verified and will soon provide a case number to refer to. Therefore, the computer modeling results provided in the attached proof-of-performance should be accepted so that the new NCE-FM station can begin serving Kingsland, GA and surrounding communities thereby benefiting the public interest.

LICENSED SURVEYOR SHOWING

Exhibit 2 is a certification executed by a licensed surveyor showing that the FM directional antenna system has been oriented at the azimuth specified in the directional antenna proof of performance.

INSTALLATION OF THE DIRECTIONAL ANTENNA SYSTEM

Exhibit 3 is a certification that the installation of the directional antenna system was overseen by a qualified engineer. This includes a certification by the engineer that the antenna was installed pursuant to the manufacturer's instructions and lists the qualifications of the certifying engineer.

COMMUNITY COVERAGE

Exhibit 4 demonstrates that the measured directional antenna pattern complies with the appropriate community coverage provisions of 47 C.F.R. Section 73.515 of the rules.

85% OF THE RMS

Exhibit 1 (Proof-of-Performance) demonstrates that the RMS of the composite measured relative field horizontal plane directional antenna pattern encompasses at least 85% of the RMS of the composite relative field horizontal plane directional antenna pattern authorized by the underlying construction permit.

COMPOSITE RADIATION PATTERN

Exhibit 1 (Proof-of-Performance) demonstrates that the relative field strength of neither the measured horizontally nor vertically polarized radiation component exceeds at any azimuth, with exception to radials 0°, 10°, 20°, 30° and 350° as mentioned above, the value indicated on the composite radiation pattern authorized by underlying construction permit.

CERTIFICATION

This technical statement was prepared by William T. Godfrey, Jr., Engineering Associate with the firm Kessler and Gehman Associates, Inc. having offices in Gainesville, Florida, and has been working with the firm in the field of radio and television broadcast consulting since 1998. Mr. Godfrey was a graduate from the University of North Florida and a Distinguished Military Graduate from the University of Florida. As a Professional in the field of Telecommunications he states under penalty of perjury that the information contained in this report is true and correct to the best of his knowledge and belief.

A handwritten signature in blue ink that reads 'William T. Godfrey, Jr.'.

WILLIAM T. GODFREY, JR., CBT
Kessler and Gehman Associates, Inc.
Consulting Engineers

January 31, 2023