



ENGINEERING TECHNICAL STATEMENT PREPARED BY WILLIAM T. GODFREY, JR. OF THE FIRM KESSLER AND GEHMAN ASSOCIATES, INC., TELECOMMUNICATIONS CONSULTING ENGINEERS IN CONNECTION WITH A MINOR MODIFICATION OF LICENSE APPLICATION TO REPLACE A DIRECTIONAL ANTENNA WITH A DIRECTIONAL ANTENNA FOR THE GEORGIA PUBLIC TELECOMMUNICATIONS COMMISSION (GPTC) WXVS-FM CHANNEL 211 CLASS C1, WAYCROSS, GEORGIA NON-COMMERCIAL EDUCATIONAL FM BROADCAST FACILITY PURSUANT WITH §73.1690(C)(2) OF THE FCC RULES.

The firm Kessler and Gehman Associates, Inc., was retained by the Georgia Public Telecommunications Commission (GPTC), Atlanta, Georgia, to prepare engineering studies and the engineering portion of a minor modification of license application for the WXVS-FM Channel 211 FM broadcast facility (BLED-19860403KD) requesting authorization to replace its licensed Jampro 4-bay directional antenna with a new Jampro 6-bay directional antenna.

Discussion

GPTC is licensed to operate WXVS-FM Channel 211 with a Jampro model JSCP-4 DA directional, four-bay antenna side-mounted at an antenna height radiation center of 280 meters above ground level (AGL). Due to aging of the existing antenna and future IBOC operation, GPTC proposes to replace the licensed Jampro 4-bay directional antenna with a new Jampro 6-bay directional antenna which has the exact same measured composite directional antenna pattern as the licensed antenna pattern and does not exceed the licensed composite directional pattern and will not change the ERP in any azimuthal direction pursuant to §73.1690(c). It is proposed to side-mount the new Jampro model JSCP-6D DA antenna at an antenna height radiation center of 278.6 meters AGL which is only 1.4 meters below the licensed antenna; therefore, the replacement antenna will be mounted not more than 2 meters above or 4 meters below the authorized height pursuant to §73.190(c). The principal coverage requirements of §73.315(a) will be maintained since the replacement antenna will not result in a change in antenna azimuth pattern or ERP in any direction.



With the exception of an additional two bays, the proposed antenna is an exact antenna replacement; however, since the model number is slightly different due to an increase in bays, the proposed WXVS-FM facility is authorized to conduct program test operations at one half (50%) power instead of full (100%) power.

Exhibit 1 is a measured directional antenna pattern and tabulation (on Jampro's letterhead) depicting both the horizontally and vertically polarized radiation components. The exhibit demonstrates that neither of the components exceeds the authorized composite antenna pattern along any azimuth.

Exhibit 2 is a description from Jampro as to the procedures used to measure the directional antenna pattern. The antenna measurements were performed pursuant to §73.1690(c)(iii) of the FCC rules.

Certification

This technical statement was prepared by William T. Godfrey, Jr., Telecommunications Technical Consultant with Kessler and Gehman Associates, Inc. having offices in Gainesville, Florida and has been working in the field of radio and television broadcast consulting since 1998. He graduated from the University of North Florida with a Bachelor of Arts degree in Criminal Justice and a minor in Mathematics in 1993. 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.



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