

FEDERAL COMMUNICATIONS COMMISSION
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MEDIA BUREAU
AUDIO DIVISION
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August 1, 2007

Dan J. Alpert, Esq.
2120 North 21st Road, Suite 400
Arlington, Virginia 22201

In re: Randolph Johnston
WQMS(AM), Quitman, Mississippi
Facility Identification Number: 54325
Application for Experimental Authorization

Dear Counsel:

The staff has before it a request for an experimental Authorization, filed June 4, 2007, and supplemented on June 20, 2007, on behalf of Randolph Johnston (hereinafter, "Johnston") and accompanied by a technical exhibit prepared by R. Stuart Graham, Jr., of Graham Brock, Inc. Johnston proposes to conduct experimental operations at the site of Station WQMS(AM), in order to perform field strength measurements to determine the operating efficiency and other characteristics of an experimental radiator.¹

It is proposed to operate the experimental radiator on the licensed WQMS frequency of 1500 kHz with antenna input power of 250 watts, or such lesser power as may be appropriate. The experimental radiator will be installed 400 feet southeast of the licensed WQMS antenna, and will be mounted on a short supporting tower, approximately 30 meters (100 feet) in height. It is proposed to conduct full nondirectional proofs of performance for the licensed WQMS radiator and for the experimental radiator, pursuant to the guidelines set forth in the *Report and Order* in MM Docket No. 93-177. In this manner, by comparing the measurements from the standard radiator and the experimental radiator, the horizontal-plane radiation efficiency of the experimental radiator can be established.

Our review indicates that the proposed experimental operation meets the requirements of Section 73.1510 of the Commission's rules and that the proposed experimental operation is not likely to result in interference to any other station.

Accordingly, the request for Experimental Authorization IS HEREBY GRANTED. Station WQMS may operate with an experimental radiator as described above. Operating power shall not exceed 250 watts. Setup and initial adjustments pursuant to this authority shall be conducted during the experimental period between midnight and local sunrise, employing either unmodulated carrier or audio tone modulation, with hourly station identification pursuant to Section 73.1201. Field strength measurements shall be conducted during non-critical daytime hours. Operation with the

¹ WQMS is licensed for operation on 1500 kHz, daytime hours only, with 1 kilowatt, employing a nondirectional antenna (ND-D-D).

experimental radiator shall not commence until a detuning network has been installed on the licensed WQMS antenna and properly adjusted to eliminate reradiation of the experimental signal. Operation under this authority shall be limited to the minimum time necessary to perform the planned experimentation as set forth in the application, and shall be terminated immediately if complaints of interference are received. Except for necessary equipment testing during the experimental period as described above, nighttime operation is not authorized. Johnston shall employ whatever means are necessary to prevent excessive exposure of workers or the public to radio frequency radiation, pursuant to Section 1.1310. Within 60 days following completion of the experimental operation authorized herein, Johnston shall file a full report of the research, experimentation and results with the Commission, pursuant to Section 73.1510(d).

This authorization expires on **November 1, 2007**.

Sincerely,

A handwritten signature in dark ink, appearing to read "Charles N. Miller". The signature is fluid and cursive, with a large initial "C" and a long horizontal stroke at the end.

Charles N. Miller, Engineer
Audio Division
Media Bureau

cc: Randolph Johnston
R. Stuart Graham, Jr.