



Greater Media, Inc.

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Marlene H. Dortch, Secretary
Federal Communications Commission
Office of the Secretary
445 12th Street, SW
Washington, DC 20554

2013 JUL 24 A 6:41

RECEIVED

Milford K. Smith, Jr.
Vice President / Engineering

Received & Inspected

JUL 23 2013

FCC Mail Room

Request for Experimental Authority
WBT(AM), Charlotte, NC
FCC Facility ID #30830

Dear Ms. Dortch:

Greater Media Charlotte, Inc., licensee of AM broadcast station WBT, Charlotte, North Carolina, in accordance with section 5.203 of the Rules, hereby requests experimental authority to conduct testing of all digital AM transmission in cooperation with the National Association of Broadcaster's Science and Technology Department's NAB Labs utilizing the nighttime antenna facilities of WBT. The proposed testing at WBT will be the third such instance of all digital testing coordinated by NAB Labs and the first on a class A AM station. It is felt that the results of such testing will be of significant value to the broadcast industry in as much as a possible eventual and universal transition to all digital AM transmission on the part of AM stations could quite conceivably provide a solution to many of the numerous technical challenges currently plaguing the service.

WBT is a class A AM station operating on 1110 KHz with daytime facilities of 50KW utilizing a nondirectional antenna and nighttime facilities of 50 KW utilizing a three tower directional antenna. All digital testing is proposed utilizing only the nighttime facilities of WBT between the hours of approximately 1 AM and 5 AM. The tentative test dates are August 17 and 18, 2013.

The proposed all digital mode of operation, as defined in the NRSC's **NRSC-5-B** IBOC Digital Radio Broadcasting Standard, effectively replaces the usual analogue modulation components between the carrier and +/- 10 KHz from the carrier, with multiple digital carriers. The amplitude of such carriers does not exceed the limits specified in section 73.44 and all components of the proposed digital transmission likewise are compliant with 73.44. WBT has arranged for technical representatives of Nautel, the manufacturer of the WBT main NX-50 transmitter, to visit the transmitter site prior to the proposed testing dates and confirm proper adjustment of the transmitter to assure optimum all digital transmission and compliance with FCC rules as to occupied bandwidth and spurious emissions.

A measurement program consisting of mobile measurements to allow continuous data collection and to identify the point of digital signal failure on a number of radials (ideally 8) will be conducted during periods of all digital operation. This is similar to the measurements made during the two previous AM all digital tests on WBCN and WNCT.

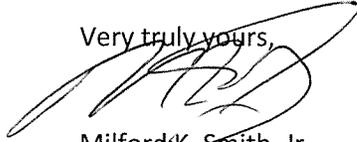
Ms. Marlene Dortch, Secretary
July 18, 2013

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To allow for the possibility of unanticipated technical issues or the necessity to conduct additional follow up testing, Greater Media Charlotte, Inc. requests that the experimental authority be granted for a period of 90 days. Any questions as to this request or any other aspect of the proposed testing may be addressed to the undersigned.

I hereby certify that the statements made in this application are true and complete to the best of my knowledge and belief. I further certify that no party to this application is subject to a denial of federal benefits pursuant to Section 5301 of the anti-Drug Abuse Act of 1988 U.S.C. 862.

Very truly yours,

A handwritten signature in black ink, appearing to read 'M. Smith, Jr.', written over the text 'Very truly yours,'.

Milford K. Smith, Jr.

cc: Ms. Susan Crawford, Assistant Chief , Audio Division (via email)
Mr. David Layer, NAB (via email)
Mr. Jerry Dowd, Technical Manager, WBT Radio
Ms. Ellen Rubin, Esq., Greater Media, Inc.