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FCC Mail Room

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

Request for Experimental Authority
WRPX, Inc.
Station WDGY (AM), Hudson, WI
FCC Facility ID #6440

Dear Ms. Dortch:

WRPX, Inc., licensee of AM Station WDGY, Hudson, Wisconsin, 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 NAB Labs utilizing the antenna facilities of WDGY. The proposed testing at WDGY will be the fifth instance of all-digital AM testing at a licensed commercial radio facility coordinated by NAB Labs and the first on a class D AM station. It is believed 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.

WDGY is a class D AM station operating on 740 kHz with daytime facilities of 5 kW utilizing a directional antenna. The tentative test dates are June 1 and June 2, 2014.

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 subcarriers. The amplitude of such subcarriers does not exceed the limits specified in Section 73.44 and all components of the proposed digital transmission likewise are compliant with 73.44. WDGY has arranged for technical representatives of Nautel, the manufacturer of the IBOC digital radio exciter to be used, to visit the transmitter site prior to the proposed testing dates and confirm proper adjustment of the exciter 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 previous all-digital AM tests on WBCN, WNCT, WBT and KTUC.

To allow for the possibility of unanticipated technical issues or the necessity to conduct additional follow up testing, WRPX, 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,

Gregory Borgen

Gregory Borgen
Owner
WRPX, Inc.

cc: Ms. Susan Crawford, Assistant Chief, Audio Division, FCC (via email) Mr. Jim Bradshaw, Deputy Chief, Engineering, Audio Division, FCC (via email)
Mr. David Layer, NAB (via email)