

**FEDERAL COMMUNICATIONS COMMISSION**  
**445 12<sup>th</sup> STREET, SW**  
**WASHINGTON, DC 20554**

**MEDIA BUREAU**  
**AUDIO DIVISION**  
**APPLICATION STATUS:** (202) 418-2730  
**HOME PAGE:** [www.fcc.gov/media/radio/audio-audio/](http://www.fcc.gov/media/radio/audio-audio/)

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March 6, 2020

Steve Shultis, Chief Technology Officer  
New York Public Radio  
160 Varick St.  
New York, NY 10013

Re: Station WQXR-FM, Newark, NJ  
New York Public Radio  
Facility ID No. 46978  
File No. 20200130AAQ

**Request for Experimental Authority**

Dear Mr. Shultis:

This letter is in reference to the request filed January 30, 2020, on behalf of the New York Public Radio (NYPR), licensee of commercial FM station WQXR-FM, Newark, New Jersey,<sup>1</sup> for an experimental authorization to operate the station's main facility with a digital effective radiated power (ERP) increase to levels as high as 4 dB above the current permitted digital power level of -14 dBc.<sup>2</sup> NYPR requests the experimental authorization be effective for a period of 180 days.

NYPR requests authority to commence a test program to assess the actual level of interference experienced by first adjacent channel stations in the presence of an increased digital power of up to -10 dBc.<sup>3</sup> NYPR states that the proposed test will be conducted in conjunction with the National Association of Broadcasters (NAB) and HD Radio system developer, Xperi Corporation to collect information valuable for future In-Band On-Channel (IBOC) digital radio service. NYPR also states that the digital power increase is anticipated to be brief and between midnight and 5 AM. There will be no change made to the current antenna system. Finally, NYPR states that the use of digital power increase will be immediately discontinued in the event of interference complaints received from co- or adjacent channel stations if such complaints are not satisfactorily resolved.

Our review indicates that the proposed experimental operation meets the requirements for experimental operations set forth in Section 5.203.<sup>4</sup> We note that by increasing WQXR-FM's digital

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<sup>1</sup> File Number BMLH-20091009AAI. WQXR-FM is licensed to operate on channel 290 B1 (105.9 Megahertz) using a nondirectional antenna, maximum 0.61 kilowatts (kW) effective radiated power (ERP), and 416 meters antenna radiation center height above average terrain (HAAT).

<sup>2</sup> Decibels relative to the analog carrier

<sup>3</sup> Analog ERP is 0.61 kilowatts ("kW"), H&V

<sup>4</sup> 47 C.F.R. § 5.203

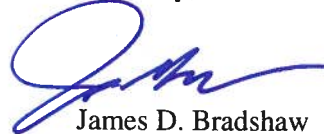
ERP to -10 dBc, the proposal fails to meet the contour nonoverlap requirements<sup>5</sup> of the Media Bureau's Order, adopted January 27, 2010, in Mass Media Docket No. 99-325<sup>6</sup> with first-adjacent station WBLI(FM), Patchogue, NY, Cox Radio, Inc. However, the NAB has indicated that the digital power increase would occur only between midnight and 4 am.<sup>7</sup> Therefore, we find that public interest would be served by the knowledge gained through testing of interference level in the presence of an overlap. Accordingly, the request IS HEREBY GRANTED. WQXR-FM may operate with maximum digital ERP as follows:

Analog ERP:	0.61 kilowatts (kW), H&V <sup>8</sup>
Digital ERP:	0.061 kW
Hours of Operation:	12 am to 5 am

This authority is specifically conditioned on the lack of objectionable interference. Operation under this authority shall be terminated if complaints of interference to other FM stations are received. NYPR shall employ whatever means are necessary to prevent excessive exposure of workers or the public to radio frequency radiation, pursuant to Section 1.1310 of the Commission's Rules.<sup>9</sup> Within 60 days following completion of the experimental operation authorized herein, NYPR shall file a full report detailing the research, experimentation and results of the testing with the Commission, pursuant to Section 5.203(d) of the Commission's Rules.<sup>10</sup> Any request for extension of this experimental authority should be filed at least 30 days prior to the expiration date of the authority. Additionally, an extension request must include an interim version of the aforementioned report detailing the progress of the experimental operation as of the filing date of the request.

This experimental authority expires on September 2, 2020.

Sincerely,



James D. Bradshaw  
Senior Deputy Chief  
Audio Division  
Media Bureau

cc: David H. Layer, NAB (via Email)  
Glynn Walden, Entercom (via Email)  
Russ Mundschenk, Xperi Corporation (via Email)

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<sup>5</sup> The predicted 49.5 dBu F(50, 10) interfering contour will overlap with the 60 dBu F(50,50) protected contour of the first adjacent station

<sup>6</sup> See *Digital Audio Broadcasting Systems And Their Impact on the Terrestrial Radio Broadcast Service*, Order, 25 FCC Rcd 1182 (MB 2010).

<sup>7</sup> Email dated March 4, 2020 from David Layer to James Bradshaw

<sup>8</sup> All ERP values rounded in accordance with 47 CFR § 73.212(a).

<sup>9</sup> 47 C.F.R. § 1.1310.

<sup>10</sup> 47 C.F.R. § 5.203.