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November 3, 2022

FILED BY E-MAIL  
Addressed to [audiofilings@fcc.gov](mailto:audiofilings@fcc.gov)

Ms. Marlene H. Dortch, Secretary  
Federal Communications Commission  
9050 Junction Drive  
Annapolis Junction, MD 20701

Re: WAUE(FM), Waverly, AL  
Marble City Media LLC  
Facility ID No. 198812  
File No. 20211014AAE

Request for Extension of Experimental Authority

Dear Ms. Dortch:

Marble City Media, LLC ("MCM"), licensee of a commercial FM Station WAUE(FM), Waverly, Alabama, through its counsel, hereby requests extension of the existing STA for experimental authority ("Request"), to permit WAUE to continue to conduct testing of hybrid digital FM in-band on-channel (IBOC) operation with asymmetric power levels in the digital sidebands. The experimental authority is requested pursuant to Section 5.203 of the Commission's Rules.

This Request will permit continuation of the facilities approved by the Commission on December 3, 2021, File No. 20211014AAE . An updated Technical Report of Consulting Engineer Charles M. Anderson is attached. This Request states that MCM is seeking experimental authority to continue operate WAUE with lower sideband

(LSB) digital effective radiated power (ERP) of -14 dBc and upper sideband (USB) digital ERP of -10 dBc to assess IBOC coverage and signal penetration in the Station's service area.

For the foregoing reasons, Marble City Media, LLC respectfully requests an extension of the BESTA-20220512AAC to continue to operate the Station as set forth above.

Marble City Media, LLC hereby certifies that neither it, nor any party thereto, is subject to a denial of federal benefits that includes FCC benefits pursuant to Section 5301 of the *Anti-Drug Abuse Act of 1988*, 21 U.S.C. § 862.

A receipt for payment of the filing fee is attached below.

Please direct any questions regarding this matter to the undersigned or to Charles M. Anderson, Consulting Engineer to Marble City Media, LLC.

Sincerely,



M. Scott Johnson  
*Counsel to Marble City Media, LLC*

Attachment: Updated Technical Report

cc: Via Email

Rodolfo F. Bonacci, Assistant Chief, Audio Division

Priscilla M. Lee, Processing Engineer, Audio Division

Charles M. Anderson, Consulting Engineer

### Online Payment Confirmation

Total Amount:	\$210.00
Payer ERN	0021408364
Payer Name	sjohnson@fccworld.com

Remittance ID 3966830  
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Thank you for your payment!

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# Anderson Associates

## Broadcast Engineering Consultants

### EXTENSION REQUEST WAUE EXPERIMENTAL AUTHORITY TO OPERATE WITH -10 dBc UPPER SIDE BAND/ -14 dBc LOWER SIDE BAND ASYMMETRICAL DIGITAL POWER

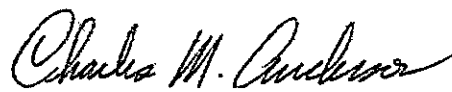
WAUE on channel 262A (FCC facility #198812) requests experimental authority to utilize asymmetrical HD power levels in common amplification mode as proposed below:

- (1) Proposed digital power upper side band = -10 dBc/ 10% - 16 Watts ERP granted (authorization attached).
- (2) Proposed digital power lower side band = -14 dBc/ 4% - 6.5 Watts ERP granted
- (3) Digital TPO = 1.08 kW Analog + 0.108 kW Digital = 1,188 kW TPO

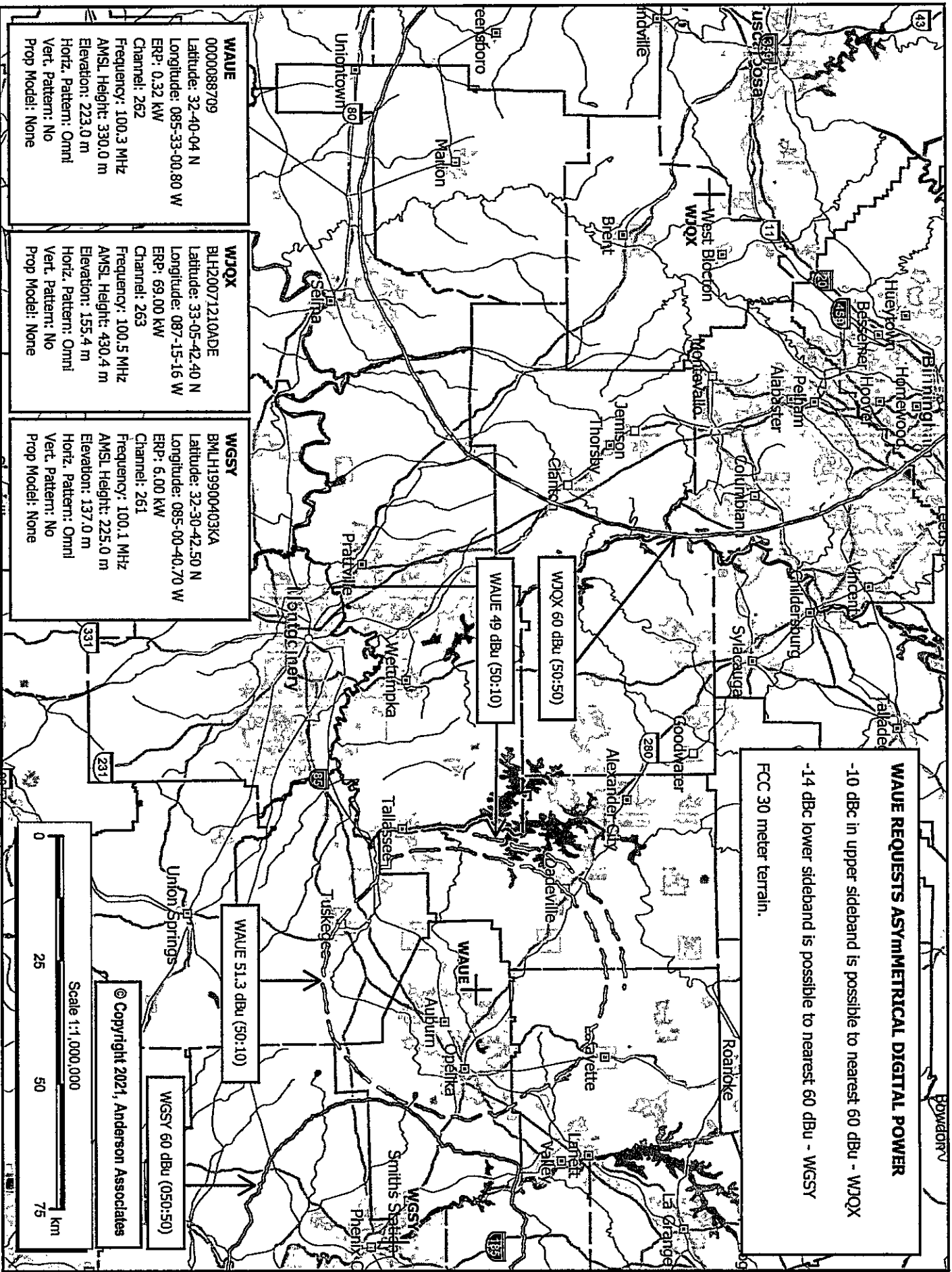
The undersign certifies that the requested digital power level complies with the requirements of MM Docket 99-325. An attached map shows that the WAUE 49.0 dBu (50:10) contour does not reach any 60 dBu of an upper first adjacent channel WJQX and that the 51.3 dBu (50:10) just clears the 60 dBu of the closest lower 1<sup>st</sup> adjacent channel WGSY (see attached contour exhibit).

Therefore, WAUE may run the full 10% or -10 dBc in the upper side band and -14 dBc or 4% in the lower side band.

Proponent Analog F(50,10) Field Strength at Protected Analog 60 dBu F(50,50) Contour	Maximum Permissible FM Digital ERP
51.2 dB $\mu$ and above	-14 dBc
50.7 dB $\mu$ - 51.1 dB $\mu$	-13 dBc
50.3 dB $\mu$ - 50.6 dB $\mu$	-12 dBc
49.6 dB $\mu$ - 50.2 dB $\mu$	-11 dBc
49.5 dB $\mu$ or less	-10 dBc



Charles M. Anderson 11-3-22  
cmanderson43@yahoo.com  
270-535-4432



**WAUE REQUESTS ASYMMETRICAL DIGITAL POWER**

- 10 dBc in upper sideband is possible to nearest 60 dBu - WJQX
- 14 dBc lower sideband is possible to nearest 60 dBu - WGSY
- FCC 30 meter terrain.

**WAUE**  
 0000088709  
 Latitude: 32-40-04 N  
 Longitude: 085-33-00.80 W  
 ERP: 0.32 kW  
 Channel: 262  
 Frequency: 100.3 MHz  
 AMSL Height: 330.0 m  
 Elevation: 223.0 m  
 Horiz. Pattern: Omni  
 Vert. Pattern: No  
 Prop Model: None

**WJQX**  
 BLH20071210ADE  
 Latitude: 33-05-42.40 N  
 Longitude: 087-15-16 W  
 ERP: 69.00 kW  
 Channel: 263  
 Frequency: 100.5 MHz  
 AMSL Height: 430.4 m  
 Elevation: 155.4 m  
 Horiz. Pattern: Omni  
 Vert. Pattern: No  
 Prop Model: None

**WGSY**  
 BMLH19900403KA  
 Latitude: 32-30-42.50 N  
 Longitude: 085-00-40.70 W  
 ERP: 6.00 kW  
 Channel: 261  
 Frequency: 100.1 MHz  
 AMSL Height: 225.0 m  
 Elevation: 137.0 m  
 Horiz. Pattern: Omni  
 Vert. Pattern: No  
 Prop Model: None

WAUE 49 dBu (50:10)

WJQX 60 dBu (50:50)

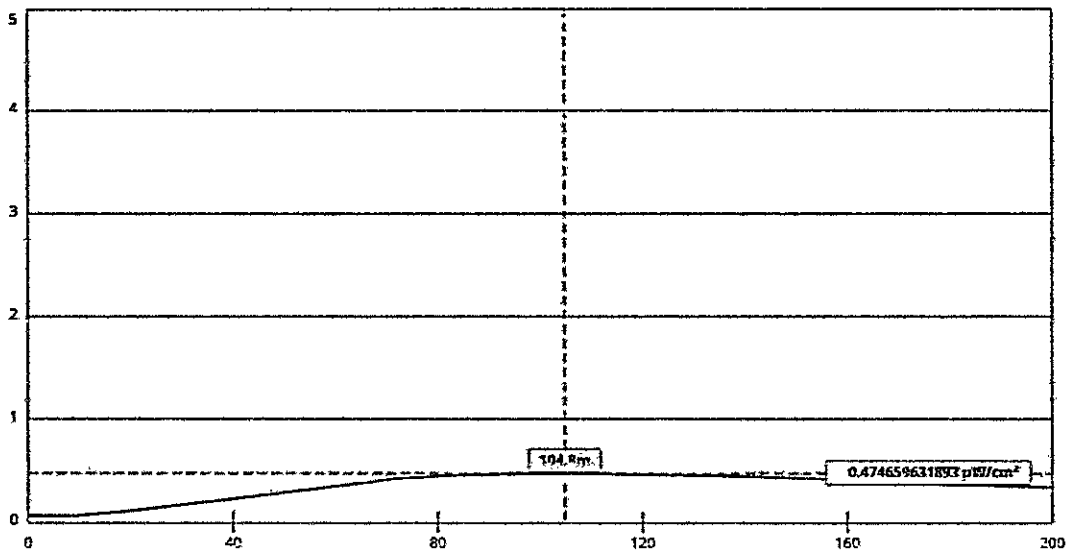
WAUE 51.3 dBu (50:10)

WGSY 60 dBu (050:50)

Scale 1:1,000,000

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[View Tabular Results +](#)

Channel Selection	Channel 262 (100.3 MHz)	
Antenna Type +	EPA Type 3: Opposed U Dipole	
Height (m)	107	Distance (m)
ERP-H (W)	352	ERP-V (W)
Num of Elements	1	Element Spacing (W)
Num of Points	500	
<b>Apply</b>		

**WAUE RF with maximum digital power = 352 Watts. RF contribution is 0.47 uW/cm<sup>2</sup> or 0.235% of the maximum public exposure level.**



**Federal Communications Commission**  
**Washington, D.C. 20554**  
December 3, 2021

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

PROCESSING ENGINEER: Priscilla M. Lee  
TELEPHONE: (202) 418-2957  
GROUP FACSIMILE: (202) 418-1411  
INTERNET ADDRESS: [Priscilla.Lee@fcc.gov](mailto:Priscilla.Lee@fcc.gov)

Marble City Media LLC  
P.O. Box 629  
Sylacauga, AL 35150-0629

Re: WAUE(FM), Waverly, AL  
Marble City Media LLC  
Facility ID No. 198812  
File No. 20211014AAE

**Request for Experimental Authority**

Dear Applicant:

The staff has under consideration the above-referenced October 14, 2021 request for experimental authority (Request) submitted on behalf of the Marble City Media LLC (MCM), licensee of a commercial FM Station WAUE(FM), Waverly, Alabama,<sup>1</sup> to permit WAUE to conduct testing of hybrid digital FM in-band on-channel (IBOC) operation with asymmetric power levels in the digital sidebands. The experimental authority is requested pursuant to Section 5.203 of the Commission's Rules.<sup>2</sup>

The Request states that MCM is seeking experimental authority to operate WAUE with lower sideband (LSB) digital effective radiated power (ERP) of -14 dBc<sup>3</sup> and upper sideband (USB) digital ERP of -10 dBc to assess IBOC coverage and signal penetration in the Station's service area.

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<sup>1</sup> File Number 0000088709. WAUE(FM) is licensed to operate on channel 262 (100.3 Megahertz) using a directional antenna, 0.32 kilowatts (kW) effective radiated power (ERP), and 129 meters antenna radiation center height above average terrain at a transmitter site described by geographic coordinates 32° 40' 4" North Latitude, and 85°33' 0.8" West Longitude, referenced to 1983 North American Datum.

<sup>2</sup> 47 CFR § 5.203 (Section 5.203).

<sup>3</sup> Decibels relative to analog carrier.

Our review of the Request indicates that the proposed WAUE's experimental operation complies with the contour protection and other technical requirements of the Media Bureau's Order, adopted January 27, 2010, in Mass Media Docket No. 99-325,<sup>4</sup> and the Request meets the requirements for experimental operations set forth in Section 5.203. Accordingly, the Request is **HEREBY GRANTED**. WAUE(FM) may operate with digital ERP as follows:

Analog ERP:	0.32 kilowatts (kW), H&V <sup>5</sup>
USB Digital ERP: <sup>6</sup>	0.016 kW
LSB Digital ERP:	0.0064 kW

This experimental authority expires on **December 3, 2022**. This authority is specifically conditioned on the lack of objectionable interference. A report detailing the methodology employed and the results obtained must be submitted within 90 days following the conclusion of the experimental operation. 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 report detailing the progress of the experimental operation as of the filing date of the request.

Sincerely,

Rodolfo F. Bonacci  
Assistant Division Chief  
Audio Division  
Media Bureau

cc: Charles M. Anderson, email at [cmanderson43@yahoo.com](mailto:cmanderson43@yahoo.com)

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<sup>4</sup> See *Digital Audio Broadcasting Systems And Their Impact on the Terrestrial Radio Broadcast Service*, Order, 25 FCC Rcd 1182 (MB 2010).

<sup>5</sup> All ERP values rounded in accordance with 47 CFR § 73.212(a).

<sup>6</sup> Digital ERP values shown are for MP1 service mode. The licensee must adjust the station's asymmetric total digital sideband ERP values in accordance with NRSC guideline "NRSC-G202-A, FM IBOC Total Digital Sideband Power for Various Configurations" (April 2016) if operating using a service mode other than MP1.