

Federal Communications Commission Washington, D.C. 20554

July 14, 2023

Sent via Electronic Mail

Milachi Media, LLC William Christian 482 Harbor Drive North Indian Rocks Beach, FL 33785 <u>bill3christian@gmail.com</u>

> Request for Experimental Special Temporary Authority WWOO-LD, Westmoreland, NH Facility ID No. 186685 File No. 0000216484

Dear Licensee:

This letter is in reference to the above captioned application for experimental special temporary authority (STA) filed the Milachi Media, LLC (Milachi or Licensee), licensee of low power television translator station WWOO-LD, Westmoreland, New Hampshire (WWOO or Station).¹ For the reasons below, we grant Milachi's request for experimental authority through January 16, 2024.²

Milachi requests experimental authority to utilize the Station and its licensed channel to conduct testing of 5G-based broadcast services (5G Broadcast).³ Such technology will allow broadcast television signals to be received by the public on their smartphones, tablets, and any device (including traditional television sets) with a 5G chip that has been manufactured to permit the reception of 5G transmissions within the broadcast television band.⁴ Milachi and its partners (XGEN Networks LLC, Qualcomm, and others) envision 5G Broadcast not only as a means for transmitting traditional television service, but also a way to potentially reduce congestion on existing 5G networks and provide video and data for other purposes, such as public safety, software updates to connected devices, and distance learning.⁵

During the testing period, Milachi will continue to provide traditional television programming using 5G Broadcast, while also using 5G Broadcast to work with first responders to provide enterprise

¹ See LMS File No. 0000216484 (filed June 9, 2023), as amended (Experimental Request).

² Milachi requests experimental authority for a period of six months. *Id.* at Amendment. Because the authorization would expire on Saturday, January 13, 2024, we will set the expiration date as the next business day, which as a result of the Martin Luther King Jr. federal holiday would be Tuesday, January 16, 2024. *See* 47 CFR § 1.4.

³ According to Milachi, the 3rd Generation Partnership Project (3GPP) is in the process of considering the inclusion of Band 108 (the UHF broadcast band) as part of the new suite of 5G standards being devised for release later in 2023 – known as R17/18). Experimental Request, Narrative Statement at 2.

⁴ See id., IEEE Broadcast Technology Society 5G Broadcast Paper (discussing how 5G technology can be utilized in broadcasting and within the UHF broadcast band).

⁵ *Id.*, Narrative Exhibit at 1.

video and data services, as well as emergency alerts.⁶ Milachi provides an engineering statement stating that it believes the Station can be operated without causing harmful interference and agrees to cease operation or reduce power as may be necessary to remove any interference.⁷ Milachi states that testing will occur over a period of six months.⁸ Milachi has also informed Media Burau staff that all equipment necessary to conduct the experimentation is on hand or will be shipped once the request is granted.

WWOO-LD currently provides two digital programming streams: *AntennaTV* and *NewsNet*. While experimentation pursuant to this STA is undertaken, both of the Station's programming streams will be aired in an ATSC 1.0 format over commonly owned station, WVCC-LD, Westmoreland, New Hampshire (WVCC-LD).⁹ The coverage area of WWOO-LD is entirely encompassed within that of WVCC-LD and therefore no viewers of *AntennaTV* and *NewsNet* will experience any loss in service.¹⁰ Milachi also states that the Station is not carried by any multichannel video programming distributors (MVPD) and thus no MVPDs or MVPD viewers will be impacted.¹¹

Upon review of the application, we conclude that the request complies with the Commission's requirements for an experimental authorization and the public interest would be served by grant of Milachi's request. We find that Milachi has proposed a definite program of research and experimentation; stands ready to proceed with such research; is not expected to cause any objectional interference; and the experiment is likely to provide valuable information to allow broadcasters to better understand how 5G Broadcast can be used not only for traditional television services, but also new and innovative video and data services.¹² Any loss ATSC 1.0 service by viewers of WWOO-LD's channel during the experimental period will be addressed by their ability to receive the Station's existing programming in an ATSC 1.0 format from commonly owned station WVCC-LD.

Accordingly, the experimental authority requested by Milachi for experimental authority **IS GRANTED through January 16, 2024**, subject to the provisions of Part 5, Subpart D of the Commission's rules (Rules), any commitments made by Milachi in the application, and the following conditions.¹³

- 1. There is no expectation of renewal of this authorization. Any request for renewal must be submitted in accordance with the requirements of Part 5, Subpart D of the Commission's rules.
- 2. The Station must provide on-air public service announcements (PSAs) or crawls starting at least 72 hours prior to the station commencing experimentation under the STA. As part of any PSA or

¹⁰ Id.

¹¹ Id., Amendment.

⁶ For example, using 5G Broadcast Milachi states that emergency alerts could be received by members of the public on 5G enabled devices, such their smartphones, tablets and televisions, in less than one second as opposed to between 30 seconds to 3 minutes on a cell phone or 15 seconds by FM radio.

⁷ *Id.*, Engineering and Environmental Narrative. The engineering statement also states that the 5G Broadcast system will be operated in fully compliance with the station's license, specifically with regards to ERP, emissions mask, spurious emissions and OET-65 guidelines. *Id.*

⁸ Id., Amendment.

⁹ *Id.*, Narrative Exhibit at 2.

¹² See 47 CFR § 5.205.

¹³ See 47 CFR §§ 5.201-5.219.

crawl the station must provide the date and time when testing is expected to commence and where and how viewers may find any programming that would be aired by the Station in an ATSC 1.0 format (e.g., channel number and instructions for rescanning). The PSA or crawl must be aired at least one time per hour, per day between the hours of 7:00 a.m. and 11:00 p.m. Each PSA or crawl must be provided in the same language as a majority of the programming carried by the Station.

- 3. This STA has been issued on a non-interference basis and may be immediately modified or terminated if the operation causes interference to any other licensed user, including but not limited to broadcast television or radio users, or if Milachi fails to comply with any conditions of grant. Pursuant to section 73.1635(b) of the Rules,¹⁴ the Video Division, without the consent of Venture, may also modify the terms of or terminate this authorization for any other reason upon written notice to Venture.
- 4. During the term of this STA, the license of the Station may not be assigned or transferred.
- 5. During the term of this STA, the licensed technical parameters/facilities of the Station may not be modified.
- 6. During the term of this STA, the program streams of the Station must be broadcast in an ATSC 1.0 format over WVCC-LD or as otherwise approved by the Video Division. Milachi must notify the Video Division at least 30 days prior to any changes in the station airing WWOO-LD's program streams. Such notification must be sent via electronic mail to Kevin Harding at Kevin.Harding@fcc.gov.
- 7. If experimentation is to be discontinued prior to the authorization's expiration date, Milachi must promptly notify the Video Division of the date it will be terminating its experimentation. Such notification must be sent within 10 business days via electronic mail to Kevin Harding at Kevin.Harding@fcc.gov.
- 8. Pursuant section 5.203(d) of the Rules,¹⁵ within 30 days of the conclusion of experimentation we require that a report be filed with the Video Division. The report must contain the information required by section 5.207 of the Rules.¹⁶ The report must be submitted to Kevin Harding electronic mail at <u>Kevin.Harding@fcc.gov</u>. Alternatively, if Milachi seeks extension of the STA it must attach the aforementioned report to any requests for extension of the STA.
- 9. Any broadcaster equipment or end-user devices must receive (as applicable) the necessary Commission equipment authorizations prior to use.

Sincerely,

/s/

Kevin R. Harding Associate Chief, Video Division Media Bureau

Cc (via electronic mail): Mark Denbo, Esq.

¹⁴ 47 CFR § 73.1635(b).

¹⁵ 47 CFR § 5.203(d).

¹⁶ 47 CFR § 5.207.