

Federal Communications Commission Washington, D.C. 20554

February 15, 2013

1800E1-KRH

Baltimore (WNUV-TV) Licensee, Inc. C/o Miles Mason, John Hane, and Christine Reilly Pillsbury Winthrop Shaw Pittman LLP 2300 N St., NW Washington, DC 20037

In Re: Request for Authority to Operate an Experimental Facility
BPEXDT-20130116AFF

Fac Id: 7933

Dear Licensee:

This refers to the above-referenced application requesting authority to operate an experimental digital television facility on Channel 40 in Baltimore, Maryland, in order to evaluate the performance of the Second Generation Digital Video Broadcasting – Terrestrial (DVB-T2)¹ in various environments throughout the WNUV(TV) service area.

Specifically, the stated objective of the proposed experiment is to test the impact OFDM will have on making television content more accessible to viewers by:

- 1. Identifying representative link budgets for a variety of use cases in different locations within the service area;
- 2. Determining how a scalable Quality of Service offering combined with flexible transmission attributes might facilitate the simultaneous provision of television broadcast to multiple viewing devices;
- 3. Providing data that may support the development of coverage and service contour matching techniques;
- 4. Confirming the ability of OFDM to support Ultra High-Definition television within the existing 6 MHz channel assignments; and

¹ As stated in the Authorization Request, DVB-T2 uses Orthogonal Frequency Division Multiplex (OFDM) and is the technological foundation of most aspects of wireless communications.

5. Exploring technological capabilities that could lead to the ability to evolve a future broadcast standard.

The terms of the proposal provide that initial experiments will take place in late viewer "off hours" and that minimum operating hours will be maintained during the few daytime experimental activities. In addition, except for an alternate exciter, existing facilities will be used during the experiment. No interference is expected to occur from the multi-staged experimental operations. Finally, only a small number of receiving devices, all in the control of professionals performing the experiments, will be involved and there are no two-way or commercial service components.

Importantly, you commit to sharing the results of the experiment "across the industry by and through organizations such as the National Association of Broadcasters, North American Broadcasters Association and the Advanced Television Systems Committee," and that "a variety of reports and event summaries, as well as RF captures can be made available."

After a thorough review of the technical specifications, we are persuaded that no interference is likely to occur from the proposed operation because the experiment will be conducted using WNUV (TV)'s existing transmission facilities such that the signals produced by the experiment will be confined to WNUV (TV)'s service area. We therefore conclude that the public interest would be served by the grant of this request since the information obtained from the experiment may be valuable to the Commission's broadband initiative. However, we caution you that an experimental facility is secondary and may be summarily terminated if the operation causes interference to any other broadcast facility. Also, compliance with Section 1.1307(b) of the Commission's Rules (radio frequency radiation) is required.

Accordingly, the request for experimental authority to broadcast DVB-T2 signals on Channel 40 in Baltimore, Maryland, IS GRANTED subject to the following conditions:

- 1. The grant of this authorization is subject to the condition that, with ample time before commencing operation, you make a good faith effort to identify and notify health care facilities (e.g., hospitals, nursing homes, see 47 CFR 15.242(a)(1)) within your service area that may potentially be affected by your operations.
- 2. Pursuant to Section 74.113, a report will be filed with each application for renewal of this authorization, containing the information required by that section and any other relevant information deemed appropriate by the licensee. In addition, should any unusual problems or conditions arise during the authorization period, the licensee shall inform the Commission of them at the time they occur.
- 3. A report of the research, experimentation and results, showing both positive and/or negative aspects of this experiment, shall be submitted to the Commission at the conclusion of this experimental operation.

4. This authority expires six months from the date of this letter.

Sincerely,

Barbara Kreisman

Chief, Video Division

Media Bureau