

Request for Experimental STA

HC2 Broadcasting Holdings, Inc. (“Applicant”) respectfully requests Experimental Special Temporary Authority (“STA”) to conduct an experiment for a period of approximately six months using LPTV channels 30 (569.0 MHz)¹ and 36 (605.0 MHz)² in Fort Wayne, IN, which are licensed to a majority-owned subsidiary of Applicant. These frequencies would be used for downlinks and would be paired with 1670-1675 MHz for uplinks.

The frequencies 1670-1675 MHz are licensed to OP LLC, a subsidiary of Crown Castle International Corp. (“Op LLC”) and currently leased from OP LLC by One Dot Six Corp., a subsidiary of Ligado Networks LLC (“One Dot Six”) for nationwide use pursuant to a long-term *de facto* transfer lease of FCC Call Sign WPYQ831. One Dot Six does not object to the use of those frequencies by Applicant for purposes of this experiment.

The experiment is intended to determine the efficacy of a low power mobile network based upon the ATSC 3.0 broadcast transmission standard and using a Distributed Transmission System. The network initially will operate as a 4G network and in time will evolve into a fully capable 5G network. Applicant believes that LPTV frequencies can be cellularized, paired with mobile use frequencies, and used to offer two-way connectivity, with an ultimate goal of providing a wide variety of 5G services.

The experiment will transmit on LPTV frequencies from the tower-mounted antennas identified within a radius of 5 km (see Exhibit 3 hereto). A limited number of (no more than three) mobile transceivers will receive on the LPTV frequencies and transmit on the 1670-1675 MHz uplinks. A fixed transceiver will also be installed at each site.

Applicant will continue to provide a regular LPTV broadcast service in Ft. Wayne during the experiment. Applicant certifies that it will operate the facility in accordance with the technical parameters set forth in the accompanying engineering exhibits. As demonstrated in Exhibit 2, operation of the experimental network will not result in any harm to existing LPTV and full power broadcast stations or viewers. Applicant commits to cease operation if it is shown to cause harmful interference to existing facilities.

¹ W30EH-D, Facility ID: 183651, Community of License: Ft. Wayne, IN

² WODP-LD, Facility ID: 183653, Community of License: Ft. Wayne, IN

For purposes of this experiment, the stop-buzzer contact is:

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