

Description of Experiment - to accompany an application for a new FCC Experimental Radio Station Authorization (Form 442)

Date: December 12, 2018

Applicant FCC registration Number (FRN): 0006104756 (James Poulette)

Radio / experiment operator: James Poulette (FCC amateur call WQ2H)
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Location: Dublin, New Hampshire, (grid square FN32xv)
Position: LAT 42° 53' 53.57" LON -72° 04' 04.67" - 1710 ft. ASL
Maidenhead: FN32V15UN27, MRGS: 18TYN393875368

Equipment used: Flex Radio 6600M HF Transceiver
Monitor Sensors TVTR2 – 2200m transverter
Antenna – custom horizontal loop & variable loading variometer.

Duration of experiment: January 1, 2019 – December 31, 2019 (1 year)

Description of experiment:

A beacon shall be deployed on the 2200m amateur band. Equivalent Isotropically Radiated Power (EIRP) of the beacon shall be in accordance with FCC amateur regulations and shall be < 1.0 Watt (<30 dBm).

The duration of the beacon shall be < 2.0 minutes, will be retransmitted every 10 minutes, and shall be in the 4-FSK modulation digital mode and shall conform to the Weak Signal Propagation Reporter (WSPR) protocol. The beacon will contain the call sign and location of the experiment operator and the transmission power in dBm (WQ2H FN32 30).

The purpose of the beacon is to evaluate, and publish, 2200m propagation data to assist in establishing opportune times to attempt 2-way contacts in the 136 kHz region of the band.

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