

Memorandum

To FCC

cc

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Subject: Description of proposed experimental transmissions for submission to the FCC

1 Filing Data

FRN: 0019182732
Form 442 Confirmation Number EL433557
Form 442 File Number 0388-EX-PL-2009

2 The Purpose

The purpose of the request licence is to conduct research and experimentation into the use of the television broadcast bands for white space transmission.

3 The Request

To demonstrate the efficacy of the cognition engine and the spectral sensing algorithms relating thereto we request the ability to transmit low power Digital Video Broadcast signals over a short distance, typically sub 10 meters and in building.

4 The Method

The method will be to:

- We will choose an appropriate frequency using existing information about spectrum usage, in the geographical area concerned coupled to local spectral analysis.
- We will transmit low power DVB signals over a distance of a few meters from DVB modulator to a TV receiver on the chosen channel.
- This will be done typically at 0 to +10dBm mean power and inside a building.

This is illustrated below.

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