

FORM 422

EXHIBIT 1

QUESTION 7: PURPOSE OF EXPERIMENT

On April 23, 2020 the FCC adopted a Report and Order (R&O) and Further Notice of Proposed Rule Making (FNPRM) Dockets ET 18-295 and GN 17-183.

The R&O authorized two different types of unlicensed operations: (1) Standard-power Access Points (APs) using an automated frequency coordination (AFC) system -- these APs can be deployed outdoors as part of hotspot networks, rural broadband deployments, or network capacity upgrades where needed -- and (2) Indoor low-power APs for connecting devices in homes and businesses such as smartphones, tablets, laptops, and Internet-of-Things (IoT) devices to the Internet. Low-power APs can be deployed indoors immediately. However, Standard-power APs have open technical and operational issues associated with the AFC system, which are addressed in the FNPRM.

The purpose of this application is for Encina Communications Corporation to work with its partner Redshift Communication Services, owner and operator of the equipment, to investigate the possibility of safely operating an existing unlicensed network in the 5.8 GHz band in the 5.925 – 6.425 GHz band.

We plan to conduct experiments in Marina, California, where underserved clients could become early adopters and benefit from the increased effective use of spectrum from the Commission's Flexible Use of Mid-Band Spectrum initiative.

As detailed in this document, the AP has an omni-directional antenna around which we will perform an interference analysis, out to a distance of 250 miles, to identify clear frequencies in the band on which to conduct the experiments.