

Form 442 Question 7: Experimentation Description

In the previous year's 6 GHz Report & Order, the Commission allocated additional spectrum for unlicensed activities, envisioning its utilization in support of “new innovative technologies and services that will advance the Commission's goal of making broadband connectivity available to all Americans, especially those in rural and underserved areas.” As per the unlicensed use of the 6 GHz Band, 35 FCC Rcd 3852, 3853 (2020). Through this application for an experimental license, Cox Communications aims to contribute to these objectives by conducting tests using available equipment over the U-NII 5 and U-NII 7 band, with the potential to enhance fixed wireless broadband services.

The experimental operations will encompass the field deployment and assessment of Tarana Wireless 6 GHz radio technology using 4-sectors mounted on one existing Cell-Tower situated at Rio Verde, Az. These activities will assess the increased throughput capabilities achievable within these frequency bands, utilizing 40 and 80 MHz channels. Additionally, the initiative will incorporate up to 12 remote units at various customer locations within a 0.5km radius around the serving cell-site. The remote location units will be oriented such that the boresight of the remote antenna will be pointed towards the serving sector on the tower.

Cox Communications data collection initiative is designed to operate without causing any detrimental interference to incumbent users. Cox Communications will collaborate with any licensed incumbents in proximity, identified through information from the FCC's databases. This cooperation will ensure that Cox Communications operations steer clear of any negative impact on existing users.