

xG Technology, Inc.
FCC Form 442
Exhibit 1
Description of Proposal
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xG Technology, Inc. (Applicant) is requesting an experimental radio license to conduct market trials of newly developed equipment in two markets, one urban (Fort Lauderdale, Florida) and one rural (Macclenny, Florida), in anticipation of commercializing the equipment. There will be three transmitter locations in each market, as described in the application.

The RF equipment involved is part of a cognitive radio network that Applicant has developed for operation in the unlicensed 900 MHz band (902-928 MHz) under Part 15 of the Commission's Rules. A graphic description of the network is shown in the attachment. The RF equipment is shown in the graphic as the xAP (base station) and xMod (subscriber units).

As indicated, the xMod is a bridge between WiFi devices and the xMax network. The xMod unit contains a WiFi access point (FCC certified) that operates in the 2.4 GHz band. It also contains an xMax subscriber radio that operates in the unlicensed 900 MHz band. Devices that have WiFi capability (like laptops, smartphones and tablets) attach to the WiFi access point in the xMod.

Applicant will be doing the testing under actual field conditions in the Fort Lauderdale and Macclenny markets using different versions of the base stations and subscriber units. Base station BSN250v2 and xMod Version 2.0 will be tested in Fort Lauderdale and base station xAP and xMod Version 2.5 will be tested in Macclenny. Applicant is requesting authorization to operate six BSN250v2 base stations and 12 xAP base stations.

Three BSN250v2 units will be used in the Fort Lauderdale area, two units will be used as spares and for lab testing and one BSN250v2 will be mounted on an SUV as a mobile display, for a total of six units. For the xAP base station, Applicant will be operating at three locations with three sectors in the Macclenny area, totaling nine units, and Applicant may, at some point in the testing, want to replace the BSN250v2 units in the Fort Lauderdale area with the newer xAP base station (three more), for a total of 12 units.

Based on the results of the testing, Applicant will determine for which equipment to seek Commission certification.

Subscribers in the market trial will be advised of the experimental nature of the trials and that the equipment that they are being loaned has not been approved by the FCC for operation, except pursuant to an experimental license. The subscriber units will be labeled accordingly and all such units will be retrieved by Applicant at the conclusion of the market trials.

xMax[®]

xMax: How It Works

