

To: Marie Confroy
From: Tim Harrington
Tim.Harrington@fcc.gov
FCC Equipment Authorization Branch

Re: FCC ID: NOOFSN-8519-1

Applicant: LGC Wireless Inc
Correspondence Reference Number: 36139
731 Confirmation Number: TC625781
Date of Original Email: 02/14/2007

Subject: audit cont.

Filing still does not appear to be in accordance with FCC Lab kdb935210 amp / booster / repeater filing guidance. TCB please thoroughly review that document.

(<http://fccweb01w.fcc.gov/prod/oet/cf/kdb/forms/FTSSearchResultPage.cfm?id=20673&switch=P>)

(http://fccweb01w.fcc.gov/prod/oet/forms/blobs/IDBretrieve.cgi?attachment_id=20762)
[2.962(c)(4), 2.962(f)(1), 2.962(f)(5)(i)]

1) Grant appears to show no rule part for 1930-1990 - please explain and/or revise

[Response: Grant Revised.](#)

2) Please note kdb935210 discussion about freq. tol AMP - please explain present grant listing or revise.

[Response: Revised to Repeater](#)

3) If eqpt has pt24, PCB not TNB is used

[Response: Grant revised to PCB for Part 22 and Part 24](#)

4) Form 731 description indicates filing is for remote unit - typically this means FCC ID applies only for actual remote-unit system component, whereas separate eqpt. auth. applies for other boxes in system. Please note the system testing, reporting, and grant listing requirements of kdb935210. In reply here please explicitly list and describe other components comprising system, using terms and descriptions as in kdb935210, and describe eqpt. auth. status for each.

[Response: For the original grant the system that was used in testing comprised of.](#)

[The system is a distributed antenna system for in-building wireless coverage.](#)

A system is made up of:

InterReach Fusion remote unit: FSN-8519-1

InterReach Fusion SingleStar hub: FSN-1-SS-1

The **FSN-1-SS-1** (hub) takes the downlink RF signal from a base station or BDA and converts the signal to IF. This IF signal is sent over coax cable (up to 300 meters) to the **FSN-8519-1** (remote), which is then converted back to RF signal. The remote outputs the RF signal over coax to a remote antenna for transmission. The output of the remote is the same frequency as the downlink frequency received by the hub. Also the hub can provide a gain on the downlink signal.

The uplink direction is reverse.

The **FSN-8519-1** (remote) takes the uplink RF signal from the remote antenna and converts the signal to IF. This IF signal is sent over coax to the **FSN-1-SS-1** (hub), which is then converted back to RF. This RF signal is sent back over coax to the base station or BDA.

Up to 8 FSN-8519-1 remotes can be connected to the FSN-1-SS-1.

Note, I believe we made a change to the grant a few months later to also list the other hub configuration that can be used with this remote as a system. This new hub configuration was actually now made up of two separate boxes separated by fiber optic link. With this system up to 32 FSN-8519-1 remotes can be connected to the FSN-1-MH-1/FSN-EH-1 hub set.

Please let us know if you need additional information.

Regards,

Jennifer Sanchez
TCB Administrator