

January 5, 2017

RE: Communications Systems Solutions

FCC ID: QQIQAGGW1000

IC: not requested

NCEE Labs responses to comments in red text.

ATCB020377

After a review of the submitted information, I have a few comments regarding the above referenced Application. Depending on your responses, please note that there may be additional comments.

1. The Block Diagram shows a "Radio A" and also a "Radio B" as being included in the EUT – what are these 2 radios? Are both being certified? Please clarify.

This radio is used for receive only as indicated by the arrows of the block diagrams which show the flow of the signal. The TX/RX switch shown in the block diagram is used to use one antenna for both the transmit and receive radios and switch between them. The operational description describes the upstream vs. downstream communications.

The intention is to certify only Radio A when transmitting and Radio B only when in "receive mode." All under one FCC ID. The switch and operation of the 2 radios is limited by manufacturer installed firmware so that the user cannot transmit on Radio B.

2. The Internal Photos show an area on the pcb marked as being for a "WiFi Module", and the Ear Tag-Gateway schematics list a "Socket for use with Cell Modem" (p.8), and show diagrams for "Cell/GPS" and "WiFi". Please note that if pre-certified WiFi and/or cellular modules will be marketed installed in the EUT, you must provide the FCC ID of these modules in this application. Also, pursuant to Section 15.31(h), the modules must be installed and transmitting during the measurements performed on the EUT. Please address.

The "Cell/GPs" and "WiFi" sockets will not be populated under this FCC ID. They are for future expansion capabilities and it is understood that a permissive change or new FCC ID will be needed to add them.