

February 13, 2006

American TCB  
6731 Whittier Ave., Suite C110  
McLean, VA 22101



Gentlemen:

The attached documentation is provided in support of a formal submission to your organization for approval of an intentional unlicensed transmitter. On behalf of our client, Aegis Labs has included an application for a Grant of Equipment Authorization pursuant to Subpart C of part 15 of FCC Rules (47 CFR) regarding intentional radiators. The data within the test report demonstrates the equipment was tested in a manner described under Part 2 and 15 of the Code of Federal Regulations.

This is a Mobile Approval of the Turf Guard Wireless Monitoring System (MN: Pedestal Repeater Unit, FCC ID: TLMSOIL2), which is a wireless soil moisture, temperature and salinity sensor that wirelessly reports sensor readings, & above ground configurations that relay data across large areas.

The Turf Guard Wireless Monitoring System is comprised of two separate units. The in-ground devices are buried beneath the turf grass directly in the soil medium. During operation these devices periodically transmit sensor readings in short digital messages. These messages are received by the pedestal repeaters and relayed over a multi-hop mesh network to the master collection point. During operation each node will transmit a sensor reading every 5 minutes. Each node maintains an internal clock in order to remain on the correct frequency hopping schedule. If a node is reset or determines it has lost synchronization, it will search for the correct synchronization channel by transmitting search messages on each channel until a reply is heard or a time limit expires. If a node is out of synch for an excessive period of time, it will reset itself. The pedestal repeater has a Lynk Technologies antenna and the in-ground unit has a wire antenna with unknown gain.

The in-ground unit is buried underground and transmits

If there are any additional questions or if further information is needed, please contact us at your earliest convenience.

Sincerely,

Johnny Candelas  
Aegis Labs, Inc.  
Test Technician  
Enclosure (1 Emissions Test Report + Exhibits)