

From: Allen Atamer

To: Leann Nguyen

Date: September 13, 2007

Subject: FCC File# 0448-EX-ST-2007

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Message:

You emailed me back about my ELS application missing information regarding: emission designator, modulating, bandwidth, and a narrative statement describing in the detail experimentation proposed.

Our experimental license is required for our team, Punkworks to compete in the Space Elevator Games to be held in the Davis County Event Center in Farmington, Utah. More information can be found at the URL <http://www.elevator2010.org>. We will be transmitting at 2.45 GHz to demonstrate microwave power transmission. The 12 kW microwave beam is dual polarized in the x- and y- axis. The beam will be directed upward at a rectenna attached to a climber. The rectenna converts the microwave power to DC and sends its power to the motor that climbs up a tether hoisted 300 ft above the ground.

A full safety procedure is also planned. Microwave absorber pads are placed over conductors to prevent adverse reflections. Personnel will not be permitted within 5 meters of the transmitter dish. Hand-held detectors are placed in areas where people will be to assess how much radiation is present. A remote control can shut down the transmitter at any time.