

**Bruce E. Richardson
1357 NE Ocean Blvd.
Suite 315
Stuart, Florida 34996**

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**Federal Communications Commission
New Station Authorization
Experimental Radio Services
PO Box 358320
Pittsburgh, PA 11521-5320**

Exhibit #1

The research consists of designing a short range transmitter broadcasting VLF pulsed electromagnetic waves varying in frequency and duty cycle to be utilized for close distance cellular communications.