



Specializing in Doppler Weather Radar Solutions

Richard S. Smeltzer, President

September 24, 2001

Federal Communications Commission
Experimental Radio Services
P.O. Box 358320
Pittsburgh, PA 15251-5320

Subject: Request for Experimental Radio Station License

Weather Detection Systems, Inc., is researching and developing **low-power** Doppler weather radar systems utilizing new technology.

We are requesting authority under section 5.61 of FCC rules for the purpose of conducting (a) research; (b) technical demonstrations at client locations, and (c) to further develop equipment. **Operation of our 5.2 cm Doppler weather radar system in actual weather conditions will yield data, which can not be duplicated in a laboratory environment.**

The purpose of the operation is to evaluate this new low-power ground-based Doppler weather radar system in actual weather conditions in order to collect data critical to its final design. This testing will allow us to make design modifications prior to FCC submission for type acceptance. We believe the development of high-resolution low-emission Doppler weather radar systems will enhance public safety.