

The primary purpose of this test is to allow Duke Energy to evaluate the utility of wireless passive sensors for prevention of catastrophic failures in generator switchgear. IntelliSAW has been selling such systems outside the US and several US utilities are interested in evaluating the system. Pending FCC grant under Part 15, the experimenter's licenses are sought to allow Duke Energy to evaluate reliability and utility of the systems.

A secondary purpose is to allow EMC testing under 13.31(d) (triplicate installations) for submission of data to OET regarding typical cabinet radiation from classes of equipment into which the IntelliSAW system is potentially housed.

The systems will be installed inside sealed metal buildings housing sealed metal power switching equipment. Radiated emissions are expected to be at or below those that would be allowed under Part 15. Pending EMC measurements and discussions with OET it is intended to bring the installations fully into compliance with Part 15 231(e) and terminate the license at that time.