

Description of Experimentation

Lockheed Martin Corporation hereby seeks authority under Part 5 of the Commission's rules to begin to test a new developmental radar system at its existing test facilities. Performance testing is essential to advance radar antenna, modulator, and data processing technology.

Benefits of such testing will be used to upgrade or replace technology for fielded TPS-77, FPS-117 and TPS-59 used by the United States Air Force and United States Marine Corps.

Verification of the experimental radar will use four sizes of phased array technology platforms. Testing includes antenna/system demonstrations, proposal data support, array element fault location, performance monitoring, aircraft tracking analysis, detection performance, system reliability, and software development.

These operations have been prior coordinated with the Federal Aviation Administration. The frequency assignments are attached to the record of this application.