

## **Project Description**

### **Research Project**

Lockheed Martin Corporation desires authority to flight test and demonstrate test aircraft at the LM Aero facility at Greenville, SC. The purpose is to validate the performance/functionality of the aircraft and its avionics systems to meet the requirements of the Advanced Pilot Trainer (APT) program. The subject Fire Control Radar system is part of the aircraft avionics capabilities available for functional demonstration.

The aircraft are KAI T-50 to be delivered from Korea for the demonstration purposes and are currently equipped with an Elta Systems, Ltd., EL/M 2032 X-band radar. The objective of the testing is to verify and demonstrate integration of the ELTA EL/M-2032 radar with the T-50A aircraft avionics suite, including demonstration of hardware interfaces (power, video, discrete signals, etc.), software interfaces (1553 multiplex bus interface signals), and functional operation of the system within the defined Pilot Vehicle Interface of the aircraft.