

## DESCRIPTION OF RESEARCH PROJECT

- 1) This research project consists primarily of ground-based emitters used to calibrate aircraft mounted electronic surveillance payloads in support of a US government contract. The ground emitters will be at a fixed site location throughout the duration of the program. The aircraft will fly preplanned routes in accordance with FAA rules and regulations to collect data from the ground based emitters for alignment and calibration purposes. While the majority of this authorization is requested for ground emitters, limited transmissions from the aircraft will be in this application and detailed under the technical data section.
- 2) The ground-based emitters are necessary for fine tuning the accuracy and performance of the payload when mounted on an airborne platform.
- 3) The range of frequencies combined with timing of signal activation and ERP input variations while coordinating with a moving aircraft preclude existing communications facilities from providing adequate services for this project.