

## Project description for EL486282

a. A description of the nature of the research project being conducted.

Answer: The Pantera and Banshee radios will be flight tested in the El Mirage airspace. The Pantera radio will be on a General Atomics owned Unmanned Aerial System, and 2 Banshee radios will be on the ground at El Mirage airfield. The radio link will transmit telemetry data.

b. A showing that the communications facilities requested are necessary for the research project.

Answer: the ground and airborne radios added in this application are necessary to conduct LOS communication between Unmanned Aerial Vehicle and ground station.

c. A showing that existing communications facilities are inadequate.

Answer: No current communication facility is equipped with modem capable of transmitting and receiving the same waveforms for interoperability.