

Electronic Surveillance/Detection Capability Ground Base Radar

NMSU/PSL possess a ground based radar system that is sometimes used by radar monitors to assist visual observers in their ability to make visual contact with aircraft operating in the vicinity of where the Aerostar UA is conducting flight operations. Operation of the ground based radar is not a prerequisite in the requirement to perform Aerostar UA flight operations since every Aerostar UA flight will be provided see and avoid capability through the use of visual observers, regardless of whether radar is used to supplement and enhance the visual observer's capabilities.

The radar is Lockheed Martin PSTAR – G1 portable system that was developed for the U.S. Army to primarily detect missiles. The Army uses this radar system as a means of providing force protection to army missile batteries operating in remote locations. The PSTAR- G1 provides radar surveillance within a 20 km range (12 mile radius), up to 10,000 feet in altitude. This is a primary radar system and no secondary radar is part of this radar system.

