



Facility Infrastructure

Constructed by the U.S. government to be secure and self-sustaining, PARI's infrastructure includes a water system, power generation, fire protection, wastewater treatment, and security systems. These systems were built to NASA's exacting standards and most are redundant. During the years of government operation several hundred million dollars were invested in the 200-acre PARI campus. Much of the infrastructure was left intact and has been restored to operational status. PARI has also invested in significant facility and equipment upgrades and added new capabilities. Currently, the operating infrastructure includes:

- 100,000 square feet of temperature-controlled floor space including 30,000 square feet of raised floor space
- 750 tons of operational air conditioning
- Four wells with 132 gallons/minute output
- Waste water system that can treat 7,500 gallons/day
- Power generation of 1.3 megawatts of three-phase electricity
- Multiple cables into the facility from different directions provide fiber optic connectivity to ERC, MCNC and the telephone company through more than 100 individual fibers
- 100 miles of onsite fiber optic cable connectivity
- Four solar array systems, each with batteries and 2.5kVA 115V inverters
- Seven solar array systems, each with batteries and 115V inverters
- Three 900W wind turbines for power generation
- 500kVA Uninterruptible Power Supply (UPS)
- More than 60 site webcams
- Centralized security and alarm system with key card access
- Five weather and atmospheric stations
- One acre spring-fed pond
- Infrared cloud detection system