



Colocation and cloud services from the grounds of the NCRC

SIZE

- **Total building:** Approximately 50,000 sq. ft.
- **Raised floor:** Approximately 30,000 sq. ft. of 36" raised floor, clear ceiling height 12'
- **Expansion:** Future expansion can increase total building to approximately 80,000 sq. ft. and the raised floor to approximately 50,000 sq. ft.
- **Features:** Loading dock space and secure mechanical area

POWER

- **Total power:** Fully redundant for a total of 9.6 mW at full build-out
- **Generator:** PowerSecure implemented in redundant quad 600 kW sets (2N + configuration). Each quad set is capable of 2.4 mW.
- **UPS:** Mitsubishi, implemented in redundant pairs (2N configuration)
- **Main switch gear:** Packaged Square D by PowerSecure. Implemented in redundant pairs (2N + configuration)
- **2N-Redundancy:** All power is implemented in at least a 2N configuration and designed for continuous maintainability

COOLING

- **Equipment manufacturer:** Stulz air handlers (CRAHs) and Trane air cooled chillers
- **Cooling capacity of chillers:** At full build-out of the current building, 1,300 tons of cooling in an N+1 configuration. Any future expansion will add the necessary cooling capacity to serve the expansion

SECURITY

- **Hardening:** Purpose-built facility designed to withstand Category 3 hurricanes winds in excess of 160 mph. The raised floor data center does not touch any outside wall. The building is surrounded by steel and concrete bollards and a traffic rated wall along the front of the building to prevent vehicle penetration.
- **Access:** By escort only, as authorized by customer-defined access control list. Doors are secured with proximity card readers, which are augmented to require either a pin code or biometric validation.
- **Man traps:** Between the outside building perimeter and the data center floor there are multiple layers that require dual authentication.
- **Biometric:** Palm and iris scans used to augment proximity card security at multiple points within the facility.
- **Surveillance:** Over 45 cameras that monitor all activities on both the exterior and interior of the building. All security cameras are continually monitored via our 24x7 Network Operations Center, and recorded data is kept for a minimum of 90 days.
- **Generator / equipment yard:** Surrounded by reinforced concrete wall, 18' in height
- **Fire protection:** FM200 and dual action dry pipe system.

CARRIER HOTEL

- **Carriers:** Dedicated points of presence with: Charter Communications, Level 3, MCNC, NCRC.net, NCREN, TW Telecom, Windstream, Zayo
 - Carrier hotel built to accommodate several additional carriers
- **Bandwidth:** Provided via a minimum of 3 carriers using BGP