DUR1

**Raleigh - Durham
CyrusOne Data Center
2223 NE Creek Parkway
Durham, NC 27713**

Located in Durham, North Carolina, **CyrusOne's DUR**1 data center is a multi-phase development consisting of 420,000 data center square feet. The facility is designed, built and commissioned to meet the most stringent enterprise standards, and benefits from some of the lowest all-in utility rates in the nation, at $0.045 kWh.

DUR1 Data Center is in Research Triangle Park, North Carolina, home to numerous high-tech companies, world class universities, research facilities and an educated workforce drawn to the high-tech enterprises of the area. It is located close to Raleigh-Durham International Airport, with easy access to major highways and rail.

Overview

- Over 220,000 data center square feet at full build
- Carrier-neutral
- 100% uptime service level agreement on power and cooling
- 24/7 year-round staffed NOCC and remote hands support
- Tier III+ topology, N+2 redundancy
- Zone X flood zone rating (low risk)
- Zone 1-2 seismic zone rating (low /moderate risk)
- Dedicated data center suites available

DUR1 **Technical Specifications**

CyrusOne.

Building

- 420,000 gross square foot building with 220,000 square feet Raised Access Data Center Floor

- Tier III+ topology. N+2 UPS system redundancy, N+2 engine generator redundancy, N+2 mechanical plant redundancy. Dual redundant electrical paths to all critical and essential loads.

- Massively Modular® engineering quickly delivers large-scale data center deployments for hyper-scale at hyper-speed

- Power densities as high as 200 kw per rack enable server environments to scale vertically to efficiently optimize the IT footprint with low, medium, high and ultra-high density solutions tailored at the rack level to match specific application needs

- The dedicated hard-walled (CMU) suites are tailored to exact specifications, blending the security and autonomy of standalone facilities

- Neutral connectivity service provider platform allows customers to contract freely with connectivity providers.

- Full sales tax exemption on all tenant IT equipment and electricity consumption.

Power

- 50 MW capacity in 2N configuration

- 100 KV Transmission Class substation with 230 KV switching from Duke Energy

- Up to 200+ W per square foot

- Utility power delivered by two geographically diverse substations

- Eight (8) 2800 kW prime rated (3000 kW standby rated) Caterpillar C-175 generators for N+2 redundancy

- 1.2MW UPS modules (Toshiba/Mitsubishi). N+2 ISO-redundant failover topology

- Three (3) remote 20,000 gallon tanks (with min. 48-hour capacity)

- 24 x Static Transfer Switch's with Reserve Duel Module UPS's total redundancy at 1.5 MW on every Emergency Busway.

Cooling

- 42-inch raised white floor design

- 24-foot ceiling height from data center floor, utilizing Leibert 60-ton CRAH units with electronically commutated (EC) variable-speed fans

- Highly efficient N+2 redundant Trane chillers with rapid restart and adaptive controlled microprocessors (with ability to scale as density increases)

Security

- Video surveillance and recording of the exterior and interior with 90 days digital archiving

- Dual authentication entry into building and data halls; biometric and key card security for rigid access control

- Perimeter fence

- 24/7 year round Security Personnel

- Two factor biometric authentication required to access building.

Fire Protection

- Very Early Smoke Detection Apparatus (VESDA) system; sampling air in parts per million coupled with a zone-based dual-action interlocking dry-pipe pre-action system

- Double-interlocking pre-action sprinkler in computer rooms and electrical rooms. Wet pipe in office and storage areas

Amenities

- Office Space

- Storage Space

- Full suite of Remote Hands Services

- Various restaurants and hotels nearby hoteling space

Site Plan