

# NVA9

**Northern - Virginia**  
**CyrusOne Data Center**  
 43290 Old Ox Road  
 Sterling, VA 20166

## Overview

- Total Square Feet – 700,000
- Total Square Feet of Raised White Floor – 400,000
- Square Footage Breakdown
  - Shell – 700,000
  - CRAH and Elec. Eq. Galleries – 14,760 x 10 Galleries = 150,000 sf
  - Raised Floor – 400,000
  - Office – 50,000 sf
  - Support – 30,000 sf
  - Common Areas Hallways – 17,625 x 3 = 53,000 sf



## Technical Specifications

### Power

- Utility capacity – 135 MW total
- Utility voltage – 34.5 KV
- # of Utility Feeders – 5 primary (5 redundant)
- # of transformers on site – 80
- UPS configuration and capacity – 4:3 distributed redundant, 1500 kw each
- Generator power – 2250 kw x 80 each = 180 MW

### Cooling

- York Roof Mounted Air Cooled Chillers
- 530 tons x 70 each = 37,100 total tons of DH cooling

### Security

- Security Fencing, Entrance Gates
- Full Time guards on Site

### Fire Detection and Suppression

- Fire detection – VESDA for DH.
- Fire suppression – Pre-Action, NFPA 13 Compliant for DH. Wet system for Offices.

### Building

- Construction type – II-B
- Building type – Data Center (Precast Structure/Façade)
- Floor load capacity
  - **1st floor DH** – 250 psf dead load, 2000 lbs concentrated load
  - **2nd Floor DH** – 250 psf dead load, 100 psf hanging load below floor

## Power

- Utility capacity – 150 MVA
- Utility Voltage – 34.5 KV
- # of transformers on site –
- UPS configuration & capacity – 1x1500 KW per UPS Module
- Generator Power – 2.25 MW Diesel
- Electrical capacity allowed per cabinet –

## Building Description

- Construction Type – Concrete Tilt-Panels with slab on grade.
- Steel truss overhead structure with modified built-up roofing membrane to meet specific wind up-lift parameters.
- Building Type – Critical Services
- Floor Load Capacity –
  - Data hall white floor space is 320lbs p/SF
  - CRAH gallery floor capacity is 300 ton 2,000lbs p/SF

## Cooling

- Closed loop, air cooled chilled water system
- Cooling capacity per cabinet - 150 to 180 watts p/SF (average density)

## Security

- Physical – 8' high perimeter steel ornamental exterior fencing
- Anti-tailgating system with raising and lowering arms at vehicle entrance
- Guards – Onsite guards man a dedicated Security Office at the main entrance (lobby) to the building
- Electronic – A security system consists of various devices (card readers, badge readers, bio-readers, etc.) either permitting or denying access to various parts of the building
- Access parameters are controlled through local onsite guards
- Standards Compliance and Certifications – All local codes and standards are adhered to. CyrusOne standards and regulations are also in place for both safety and fire protection

## Fire Detection and Suppression

- Fire Detection – Three stage detection system and data halls and UPS enclosure spaces
- Fire Suppression – Combination wet type sprinkler system in offices and pre-action type sprinkler system in critical and critical support spaces
- VESDA (Very Early Smoke Detection Apparatus)

## Connectivity

- Carrier Neutral and part of the CyrusOne IX Exchange

## Energy Efficiency

- Ultra Low PUE through the use of a closed loop chilled water system

## Certification/ Audit Compliance Accreditations

Through disciplined assessment and audit processes, CyrusOne has implemented comprehensive practices for:

- ISO/IEC 27001
- PCI DSS
- HIPAA/HITECH
- FISMA-High
- SSAE 18 (SOC 1 Type II), Type 2 AT 101/SOC 2
- Business Continuity and Disaster Recovery (BCDR)

## Site Plan

