

**The information in this article applies to:**

Data Center  
NOC

**Details**

**Facility**

Concrete Tilt-Up Construction  
24 inch raised floor  
Steel Seismic Bracing added to meet the 1997 Seismic / Earthquake codes (Title 24 Seismic) for Los Angeles area  
All racks / cabinets are seismically braced and bolted directly to the concrete flooring  
Dimax – Building Management / Alarm Monitoring System  
Power and data cables are run perpendicular from each other to minimize any electrical field interaction  
Janitorial service is bonded, insured and licensed

**Security**

7/16 inch thick steel sheeting around the front door and within the front reception area  
2 level, man-trap, security access – before actually being able to enter the raised floor area  
256+ - fixed positioned, security cameras  
All camera footage is recorded and held for a minimum of 30 days  
Level 5 bullet-resistant walls / glass (Kevlar Lined walls) in the front entry, lobby, guard station, and shipping and receiving areas  
24 x 7 x 365 on-site security guards  
Security service is bonded  
No signage on building

**Air conditioning**

Data Center temperature maintained at 72 degrees +/- 2 degrees  
Thermostats / Humidistats are located around the building on the walls, posts and ceilings  
16 – 135 Ton air conditioners N+6 – all 16 are running continuously w/redundant capacity

- o 6 – 135 Ton air conditioners support redundant capacity
- o 2 – 30 ton air-conditioners independently support NOC and NODE

Air handlers are located on the roof (roof access is restricted and monitored)  
Supply air temperature entering the IDC averages 55 – 62% varying with load conditions  
Ring duct in ceiling allows us to add diffusers (vents) where needed to provide additional air flow  
Two 125 Ton A/C Units, and one 70 Ton unit is dedicated to UPS Room

**Power**

Pager notification service with California Independent System Operator (ISO) to monitor California utility power Stage Alerts and rolling black outs  
6 main electrical distribution buses  
24 MGE UPS's

10 Caterpillar 2000KW (2.0MW) generators

Each generator has 3,000 gals of diesel fuel – enough to power it for 22 hours at full load  
4 – 12,000 gal. Diesel Fuel storage convault tanks (in addition to the primary fuel tanks)  
provide enough fuel to run generators continuously for 72 hours at full load

UPS batteries support data center load until automatic transfer to generator is completed  
50 power management modules (PMM's) with 168 – 20 amp power circuits from each 165KVA  
power distribution unit (PDU); customized circuits provided as needed

Power is served to the PDUs via 2 separate independent UPS power sources

Each PDU has it's own Automatic Static Transfer Switch which can switch the power to the  
alternate source within 4 milliseconds

Contracts with local fuel companies to provide additional on-site fuel, once generators are  
started

### **Fire suppression**

VESDA – Very Early Smoke Detection and Alarm system; small white 'air sampling tubes' draw  
air into chambers, where lasers analyze the air for smoke content

Clean-Gas hand-held fire extinguishers are through-out the building

Fire station located approximate 600 feet from the data center

Heat (140 degree) and smoke detectors are located on the ceilings around the building

### **Network/bandwidth**

Redundant OC48s

X – 4 inch conduits for telco fiber leading to the street

Multiple redundant network paths

All network operators certified internet systems engineers