



## Boise Colo 3 Data Center (BOI3)

### PROFILE

Phone: 1-888-414-8818 (USA or Canada)  
1-208-331-3232 (Boise)

Email: sales@fiberpipe.net or support@fiberpipe.net

### Telco Information

- NPA-NXX: 208-331
- CLLI Code: TBD (Colo 1 & 2 - BOISIDVV)
- LEC - CenturyLink
- LATA - 652

### Building Information

- Purpose built dedicated facility
- Wholly owned (building and land) by Fiberpipe
- Gross Sqft: 65,000
- Three 10,000 sqft colocation halls
- Construction Type: Type II-B (Sprinklered)
- Building Type: 2-Story Steel and Concrete Structure
- Floor Load Capacity: 250 psf live load
- Capable of supporting 3000 lb racks
- Seismic Design Category: C
- Raised Floors (Hall 1 & 2 = 36 inches, Hall 3 = 24 inches)
- Dedicated Office, Storage, Staging, Shipping
- Meeting and Break Rooms
- Disaster recovery office space available
- Warehouse space available

### Building Code Compliance

- Building: 2012 International Building Code
- Energy: 2009 International Energy Conservation Code
- Life Safety: 2012 International Fire Code
- Mechanical: 2012 International Mechanical Code
- Electrical: 2014 National Electrical Code
- Plumbing: 2009 Uniform Plumbing Code

### Significant Building Dates

- Property Acquired
- Uptime Institute design certification phase 2 of 3 complete
- Construction Scheduled 2016

### Service Level Agreement

- 100% Power availability
- 100% Temperature and Humidity availability
- 99.99+% Cross Connect availability
- 99.99+% Premium Dedicated Internet Access (DIA)

## POWER

### Generator Power

- Generator configuration - N+1 Prime-rated generator sets
- Generator Power - 6x 2500 kW
- Generators have redundant starting power sources
- Onsite Diesel - 72+ hours at full load
- Diesel fuel cleaning/polishing system
- Multiple fuel replenishing companies
- Concurrently Maintainable Power system
- Redundant paralleling controls
- On-site load banks for generator testing
- Approved by OSHPD and carries an OSP-0084-10 for use in healthcare projects in California

### Utility Power

- Utility Service - Idaho Power
- High percentage of low cost hydroelectric power
- Utility Feeders - 2, diverse paths
- Power Transformers - 4 (2500 kW each)
- Utility Voltage - 12470V Primary/480V

### Electrical Capacity - Per cabinet

- Hall 1 & 2 - 5.8 kVA
- Hall 3 - 5.4 kVA
- Higher rack capacity available with Fiberpipe Engineering approval
- Branch circuit monitoring and metering

### UPS Configuration

- Flywheel design with provisions for optional batteries
- Four parallel redundant systems (each with up to four UPS units) creating 100% independent A, B, C, and D colocation power path configurations
- Distributed Redundant Weave Topology
- Make-before-break maintenance bypass/wrap around
- Dual cord required, or dual-corded rack-based static-switch for single corded loads
- Multiple independent UPS units for building (non-colocation) critical loads

### Other Electrical Specifications

- TVSS protection on building power entrance and data center PDU units
- Carrier grade lightning protection and grounding system (NFPA 780 and Underwriters Laboratories UL96A compliant).
- TIA-607-B compliant grounding system, resistance-to-earth less than 5 ohms
- National Electrical Code Article 708, Critical Operations Power System, compliant
- No main centralized emergency stop buttons
- Full coordination study for arc-fault/short circuit analysis with appropriate adjustments to power breakers
- High efficiency LED lighting

## Boise Colo 3 Data Center (Continued)

### COOLING

- Cooling Capacity: 5.4 MVA configured N+1
- Hall 1 & 2: 2.0 MW each, 36 inch raised floor
- Hall 3: 1.5 MW, 24 inch raised floor
- Cooling Plant: 2220 tons of air-cooled chillers with integrated free-cooling capabilities
- Air Handlers: N+2 redundancy chilled water CRAHs per colocation room
- Pumps: 2N redundancy
- Computational Fluid Dynamics (CFD) modeling: verified
- Strict ASHRAE compliance with TC 9.9 recommended envelope of class A1
- Concurrently Maintainable Cooling System
- Integrated humidification/de-humidification controls
- Multiple independent chiller yards
- Chilled water pipe leak detection
- Water treatment system for humidifiers
- Perimeter walls nearly 16-inches thick provide a high degree of insulation and security

### SECURITY & FIRE PROTECTION

- Video surveillance and recording of the exterior and interior (90 days minimum)
- On-site security guards 24 hours a day, 365 days a year
- Weapons detectors installed
- Man traps, biometrics, and access codes for rigid security
- Two-factor access security to colocation rooms, cages and racks
- Cabinet and cage security options include individual locks and biometric scanners
- Perimeter fence with secured parking
- The 8-inch-thick concrete tilt-up wall panels provide a secure, blast and bullet-resistant perimeter.

#### Fire Detection

- VESDA system for early smoke detection in colocation, entrance and cross-connect rooms
- Double interlocked (one photo electric detector and VESDA) for colocation and critical equipment rooms
- Single interlock in electrical and mechanical rooms

#### Fire Suppression

- Pre-action (dry pipe), with nitrogen purge system for colocation, electrical, mechanical, and critical equipment rooms.
- FM-200 in colocation and critical equipment rooms.
- Colocation power not required to be shutdown during an FM-200 discharge; System approved for continued operation even during discharge
- Dry pipe in office areas

### NETWORK & CARRIERS

- Carrier Neutral
- Diverse Entrances
- Redundant Fiber Paths to Facility
- Ultra-high quality Internet blend of several carriers available
- Dark-fiber connectivity option

#### Carriers

- CenturyLink
- Syringa
- Level 3
- Integra Telecom
- Zayo Group/360 Networks

#### Interconnect Options Available

- System: Overhead proprietary cable tray system with multi-tier ladder rack
- Cross Connects: Single-Mode fiber, Multi-Mode fiber (62.5 and 50 micron), CAT5, CAT6, CAT5 (T1), and CAT3 (POTS)
- Campus Cross Connects: Single-Mode fiber, Multi-Mode fiber (62.5 and 50 micron), CAT5, and CAT6 to Fiberpipe Colo 1 and Colo II facility
- Innerduct: Conduit access for network service providers installing bulk fiber

### COLOCATION & OTHER SERVICES

- Remote Hands
- Power Audits
- Quick Cabinet and Cage Installs
- Flexible power configuration options
- Flexible power billing options
- Monitoring Services
- Help Desk 24x7
- Unloading Dock
- Work/Staging room
- Conference rooms
- Disaster recovery space available

### RISKS

- Not located within any floodplain
- Boise ranks as one of the best locations for a data center due to low natural disaster risk (Forbes, Sperlings, NY Times, etc)

### CERTIFICATIONS

- Uptime Institute Tier III Design & Constructed Certified
- SSAE 16 SOC 1 Type II Certified
- Energy Star
- HIPPA Compliant

*\* Disclaimer – Every effort has been made to accurately reflect current design, but final specifications subject to change.*