

# Supercomputing Center

## Mission Critical Maintenance for Data Centers

**Self-performing all mechanical maintenance and in-scope electrical system upgrades, ABM applies Tier 3 and Tier 4 service standards to protect uptime and control costs for these N+1 Tier 2 data centers.**

### CHALLENGE

Designed to double its megawatts of capacity for High Performance Computing (HPC), this facility operates data centers at N+1 Tier 2 in support of large-scale projects.

With tons of cooling capacity and state-of-the-art power distribution for critical HPC assets on site, a vast array of equipment needs to be operated and maintained per engineered specifications, including:

- Paralleling switchgear
- Double conversion and rotary UPSs
- VLRA battery backups
- Megawatts of standby generator capacity
- PDUs and distribution panels
- 500-ton air-cooled chillers
- 150-ton dry coolers
- Thermal storage tanks
- Free cooling, airside economizers, water-side economizers
- Custom AHUs, CRAC/CRAH units, fan walls and in-row cooling
- Humidity control, smoke detection and clean agent systems

To reduce risk of downtime and achieve cost savings, this supercomputing center needed services to meet strict standards across multiple technical disciplines.

### SOLUTION

Relying on our ability to self-perform mission critical services and our extensive experience with Tier 3 and Tier 4 data centers, ABM proposed an efficient, comprehensive service plan.

### BENEFITS

Improved operations, cost savings and reduced downtime resulted from ABM teams self-performing critical maintenance and operations at or above industry standards for N+1 Tier 2.

- Integrated, self-performed services across all mechanical maintenance and in-scope electrical system upgrades
- Daily rounds to verify operations as designed with no infrastructure issues
- ABM operates, maintains, and services all critical equipment within scope
- Escort vendors and construction personnel to assure work performed meets standards of uptime protection
- Greater control during critical events minimizes risk of downtime and increases safety

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