Data Center Observatory

General Schematic

DATA CENTER OBSERVATORY

• Grey system for room access security
• Double interlock pre-action sprinkler system
• Distance-read sub-floor leak detection system

Zone1: 12 Racks
Zone2: 11 Racks
Heat contained within HDE
Exterior room air is 72°F
Interior (hot aisle) up to 90°F
Battery power for 4 minute shutdown

High Density Enclosures (HDE)
MODERNIZATION

MONITORING / INSTRUMENTATION
• air temperature
• water temperature
• fan speed
• humidity
• power (quantity & quality)
• machine status
• network status

PUMP ROOM
• Redundant heat exchangers and pumps; use cycled for even wear
• Pumps have back-up generators
• Pumping system also includes:
  • chemical feeder to prevent inline algal growth
  • expansion tank
  • air separator unit

CIC GARAGE
• Pipes insulated and heat traced
• Pipe diameters upsized to support 4 minutes of operation in the event of a campus loop failure

Parallel Data Laboratory