

# SIO CoLo Facility

## Overview

- 60 Racks
  - 19 x 2, Long Pods
  - 11 x 2, Short Pods
- Dedicated Research Group Racks
- Shared Rack Space

## Power

- 480V @ 600A Service to Pods
- 208V 3-phase @ 20A (~6kW/Rack)
- Emergency Power (TBD)

## Cooling

- Hot-aisle Containment Design
- Each Pod Cooled Independently
- SIO Chilled Water Loop
  - 100 Ton Hubbs Hall
  - C/W loop from IGPP Revelle & Eckart Buildings Provides Additional Capacity
- External Chilled Water Connection for Portable, Emergency Backup Cooling

## Fire Suppression - Two systems

- ENCARO-25 Clean Agent - Gas
  - Human-Safe
  - Protects Equipment
- PreAction System - Water
  - Two-Factor Trigger
  - Smoke, Heat, Human Actuated
  - Only Activated If Gas System Fails

## Environmental/Security Monitoring

- Room and Chilled Water Temperatures
- Room Humidity
- Water Leak Detection
- Security Cameras
- Electronic Keyless Entry



## SIO CoLo Management Policy

Location: Munk Lab, IGPP Basement

The following is a set of draft policy guidelines that were produced following discussions by the SIO Computing Committee.

1. The use of the facility will be made freely available to the SIO community except that:
  - a. Each 42U rack requires a network switch. For research groups or collections of research groups requiring an entire rack, the switch will need to be purchased. Switches must be ACT-approved Cisco switches to facilitate overall network coordination with ACT. A list of approved switches will be provided.
  - b. For users requiring less than a complete rack for their equipment (i.e., < 10 U's), a shared network switch and KVM/Console port will be provided at a nominal, **one-time** charge of \$250 per-Network Switch Port (or per-U, whichever is larger).
2. All equipment housed in the facility must be rack mountable. Older equipment, such as tower-style computers must be configured with mounting brackets and bezels to qualify for rack installation.
3. All wiring must be neat and finished.
4. In addition to being rack mounted and neatly wired, all computers housed in the facility must be managed to current UCSD Network Security Standards compliance.
5. A systems administration management contact person must be designated for each machine or group of machines housed in the facility. This contact person is expected to be responsible for maintaining UCSD Network Security Standards compliance and responsive to notification of emergency or abnormal conditions.
6. The SIO server room is a shared facility designed to serve the entire SIO community. Usage statistics will be collected and reviewed annually to verify that equipment is still in active use. Idle equipment must be removed.
7. A subcommittee of the SIO Computing Committee will be responsible for the annual usage audit, addressing compliance related issues, as well as mediating facility usage conflicts.
8. Access to the facility will be via electronic key-control, limited to the designated systems administration contacts (see item 5).
9. The SIO administration will provide reliable power and cooling services to the facility. Additional UPS protection, if desired, will be the responsibility of individual users.

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Signature

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Name (Print)

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Date