

Data Center Operations

- Interesting, but routine repair of a data center cooling unit that failed on January 1, 2023, in Computer Room A at GCC. A spare cooling unit was turned on to maintain cooling in the room. The defective unit was diagnosed with a refrigerant leak. Because the refrigerant is on the list of freon gases being phased out (ozone layer), the replacement of the refrigerant is estimated to be more than \$11k. This has future \$\$\$ OpEx maintenance repercussions.
- Otherwise, stable operation of the computing centers. There were no scheduled or unscheduled data center outages in 2022. Anticipating a brief, scheduled outage at GCC CRB/CRC this Summer/late Summer.
- Concern continues with supply chain issues. Standard maintenance parts (UPS batteries & capacitors), some cooling equipment parts are slow to arrive.
- Updated the FY23 version of Lab Infrastructure Projects spreadsheet. This is generally a list of General Plant Project (GPP) and Science Laboratories Infrastructure (SLI) projects. Reviewed the projects for CD comprised of future GPP projects for data centers, Networking, and buildings (FCC).
- FESS has been pursuing the Emergency Communications Redundant Cooling project (Wilson Hall Fiber Central cooling project) on FY22 GPP funds. Engineering expected to wrap up in the next week. Then on to Procurement to obtain a PO for the construction. Possible completion date: Summer.

Read at your leisure

- Starting the HR process to hire for a data center specialist position. Expect to have the position posted in the next couple weeks.
- Working a draft of “Next Generation Data Center at Fermilab”, a document to support and explain the \$25M GPP project requested in 2018.