

PROCESS CHILLED WATER SYSTEMS

PART 1 - GENERAL INFORMATION

- 1.1 Process chilled water refers to chilled water used to cool critical loads and lab equipment. Process chilled water systems generally operate year round, 24/7. All new and substantially renovated science buildings are required to provide process chilled water systems to serve these needs and include a realistic building growth factor. Process chilled water systems shall be designed in a manner that allows expansion of the system with minimal disruption to the building. Oversized piping shall be used to meet future needs. Roof and mechanical space shall be reserved to install additional chillers, pumps and ancillary equipment. Process chilled water systems should be designed with 100% redundancy. The campus chilled water system can serve as the backup provided it is capable of satisfying the design requirements. Connection of critical loads and equipment to the process chilled water loop shall be through a heat exchanger.
- 1.2 CUF plant engineering shall be advised of all connections to a building's Process Chilled Water system

PART 2 - DESIGN REQUIREMENTS

- 2.1 Condensing units shall be design for a minimum of 105F ambient.
- 2.2 Chilled water is not to be used for condensing water.

REFERENCE

- 3.1 The applicable CSI Specification Section 23 05 01

END OF SECTION