

SECTION 15640
CHILLED WATER COOLING SYSTEM

PART 1 GENERAL

1.1 SUMMARY

- A. This section describes requirements for chilled water cooling systems.

1.2 DESCRIPTION

- A. The building has a chilled water cooling system with branches extended to each floor as shown on the Concourse C - Phase 2 - Building Completion drawings, AKSAS 54475. These branches are available for tenant use. It is anticipated that piping may be extended by the Tenant to points of use in Tenant's area. This piping shall meet the requirements of this section.
- B. The cooling system consists of two 375 ton gas engine driven centrifugal chillers, each with a cooling tower. The cooling medium is a 40% solution of propylene glycol. The cooling medium is circulated throughout the building with variable speed pumping year round. In the winter, the chillers are shut down, and one of the cooling towers is utilized as a dry cooler.
- C. Cooling medium is maintained at 42 Degrees F. in the summer and winter. The temperature may rise above this temperature in the shoulder seasons.
- D. The system serves air handler cooling coils in the winter, and air conditioning units in various communications rooms year round.
- E. Tenant use of the system shall be limited to communication/data processing equipment room cooling, and and supplemental office space temperature cooling. Connection to this system for process cooling is not permitted.
- F. Chilled water cooling systems installed by the tenant for process cooling shall meet the requirements of this section. Chillers installed by tenants shall meet the requirements of the section.

PART 2 PRODUCTS

2.1 WATER CHILLERS AND COOLING TOWERS

- A. It is not anticipated that any tenant will require additional chillers or cooling towers. In the event they are, contact ANC to coordinate for specific criteria regarding location, power, noise control, design, installation, and control interfaces.

2.2 PIPING AND VALVES

- A. Refer to Section 15510 – Hydronic Piping and Specialties.

2.3 GLYCOL MAKE-UP SYSTEMS

- A. Refer to Section 15510 – Hydronic Piping and Specialties.

2.4 PUMPS

- A. Refer to Section 15540 – HVAC Pumps.

PART 3 EXECUTION

3.1 PIPING AND VALVES

- A. Refer to Section 15510 – Hydronic Piping and Specialties.

END OF SECTION