SECTION 15545D - CHEMICAL WATER TREATMENT

A. SECTION INCLUDES

1. Automatic and Manual Water Treatment Systems for:
   a. Hot-Water heating
   b. Steam
   c. Chilled Water
   d. Condenser Water Systems

2. Water Treatment Chemicals

B. DESIGN CRITERIA

1. General
   a. The main campus has a campus central plant for chilled water and steam. Therefore this section may not be required. However, projects at sites not served by the central plant should be individually evaluated and coordinated with the University.
   b. The objective of an appropriate water treatment system is to provide control of scale, corrosion, algae, and deposits in recirculating and open water systems.
   c. The initial installation of mechanical systems will result in containment of impurities; which are a result of manufacturing, shipping, and assembly of components in the field. Specify systems to be cleaned and flushed, before commissioning for operation.

2. Energy Considerations
   a. Heat transfer efficiency depends on clean surfaces.
   b. Algae and such organism growths, may inhibit circulation flow, as well as affect heat transfer.
   c. Strive to conserve water usage and chemical use.

3. Specify five year of chemicals, service and system guarantee.

END