SECTION 13950 - DELUGE FIRE SPRINKLER SYSTEMS

1.1 APPLICABLE STANDARDS

A. Deluge fire sprinkler systems shall be designed and installed in accordance with the following standard, including appendices:

1. NFPA 13, Installation of Sprinkler Systems
2. NFPA 70, National Electrical Code
3. NFPA 72, National Fire Alarm Code
4. Insurance Carrier Guidelines for Loss Prevention and Control

B. Deluge fire sprinkler system equipment shall be listed by Underwriters Laboratories (UL) or approved by Factory Mutual (FM). Additionally, deluge fire sprinkler system equipment shall be approved by the U of R Fire Marshal.

1.2 DELUGE FIRE SPRINKLER SYSTEM PROTECTION

A. Where Required: Provide deluge sprinkler systems in areas where it is desirable to have large quantities of water over a large area in a relatively short period of time. Deluge fire sprinkler systems shall be provided as reviewed and accepted by the U of R Fire Marshal to protect the following:

1. Transformers.
2. Facilities that contain large amounts of combustible or flammable liquids.

B. Design Requirements: Deluge fire sprinkler systems shall be designed and installed to provide complete coverage to protected spaces. Follow NFPA standards and the following:

1. The fire department connection shall be on the system side of the water supply check valve.
2. Deluge valves shall be fitted with an alarm bypass test connection for an electric alarm switch, water motor gong, or both. This pipe connection shall be made on the water supply side of the system and provided with a control valve and drain for the alarm piping.

END OF SECTION 13950