

## **DIVISION 15 - MECHANICAL**

### **Section 15320 – Clean Agent Systems**

#### **Introduction**

This work shall be in strict accordance with all rules, regulations, by-laws, and requirements of all authorities having jurisdiction including, but not limited to the latest edition adopted by the University; NFPA codes, Arizona State Fire Code, U of A Environmental Health & Safety.

#### **Part 1 - General**

- Clean agent systems shall be insert gas based
- Clean agent systems shall be controlled by the main building fire alarm panel
- All clean agent designs shall include required pressure relief venting details and requirements

#### **Part 1 –Products**

- Clean agent systems **shall be Inergen** by Tyco / JCI for all facilities except for co-power production facilities
- Co-power production facilities shall be CO2 based fire protection systems that can be monitored and controlled by the main building fire alarm panel

#### **Part 1 – Execution**

- All systems shall be installed per NFPA 2001 as adopted by the U of A.
- U of A Environmental Health & Safety and University Facility Services Fire Safety and Prevention shall be notified 48 hours in advance of all system tests, e.g. hydrostatic test, fire alarm/final acceptance test.
- All welding of fire suppression piping shall be done by welders qualified in accordance with the minimum requirements of ASME Section IX Welding and Brazing Qualifications.
- Ensure all piping:
  - Is clear of discs
  - Has smooth openings
  - Wels are free from cracks
  - Is clear of weld splatter
- Do not enclose grooved fittings within construction.
- Shop drawings shall incorporate all of the design features shown on the contract drawings. Any deviations deemed necessary by the designer shall be clearly identified on the shop drawings, i.e. clouded.
- Contractor shall submit shop drawings to the Architect/ Engineer and UFS project manager for review and approval, prior to any work being conducted.

**End of Section 15320**