

Process Safety Information

The ventilation system is not interlocked with the detector.

DESIGN CODES AND STANDARDS EMPLOYED

Reference codes and standards:

1. Ohio Basic Building Code.
2. Ohio Basic Mechanical Code.
3. Ohio Fire Code.
4. Recommended Standards for Water Works, Edition (A.W.W.A.).
5. Underwriters Laboratories (UL).
6. National Electrical Manufacturers Association (N.E.M.E.).
7. Occupational Safety & Health Administration (OSHA).
8. American National Standards Institute (A.N.S.I.).
9. National Fire Protection Association (N.F.P.A.).
10. Military Standards (M.I.L.).
11. National Electrical Code (N.E.C.).
12. Factory Mutual (F.M.).
13. Joint Industrial Council (J.I.C.).
14. Recommendations of the Chlorine Institute, Inc.
15. Instrument Society of America (I.S.A.).
16. BOCA Code.

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SAFETY SYSTEMS

~~The facility is equipped with several safety systems:~~

- A chlorine leak detector is in the WTP Chlorine Storage and Feed Room. The leak detector is programmed to provide an alarm at 1.0 ppm. The leak detector is not interlocked with the facility ventilation system, which will not operate in an event of a leak. The leak detector has an alarm which sounds in the event of power loss. The alarm beacon and an audible alarm also go to the plant monitoring and control system. A light will illuminate and the alarm horn will sound in the event of a chlorine leak.
- Leak repair kits: A AB≡ chlorine repair kit for the one-ton containers is available at the plant.
- Emergency showers / eyewash units are located in each room within the facility where employees may be exposed to chlorine. An alarm is interlocked with the emergency eyewash and showers operation to notify the control center of its use.

An equipment storage bunker located outside the chlorination room stores breathing devices available to employees in the event of an emergency.