



City of Phoenix
WATER SERVICES DEPARTMENT

Q&A Chlorine

1 of 1 6/10/09

Background: **Gaseous chlorine is the most common and cost effective disinfectant used by approximately 95% of the water industry. Phoenix has used gaseous chlorine for about 50 years.**

1. How does Phoenix maintain its history of safe chlorine use?

Numerous chlorine-related safety precautions are in place to protect customers, even though Phoenix has never had a chlorine accident that has affected the public. There are extremely strict delivery and transfer procedures used to ensure that safety. Phoenix water employees have been trained in the safe handling of liquid and gaseous chlorine. Quarterly drills are completed for each facility.

2. What are the specific safety procedures used to protect customers?

Our first method of protecting our customers is to NOT discuss specific safety and security issues. I can tell you that Phoenix's gaseous chlorine systems exist upon what's called "full containment." In addition to that, Phoenix has on-site and remote monitoring in the unlikely event of an emergency; constant review of the use of gaseous chlorine is part of our security enhancement program; smaller containers are being used for transport; strict chain of custody delivery procedures have been implemented; and highly sensitive mechanical devices are used to help prevent an exposure.

3. Can anything other than chlorine be used to disinfect the water supply?

Phoenix has evaluated alternates to gaseous chlorine for disinfection, but none of the existing technologies has been proven to be as effective as gaseous chlorine. We will continue to be open to possible alternatives to chlorine.

4. Who says Phoenix is working safely with chlorine?

All chemical facilities have undergone a recent, extremely successful, review for compliance with all codes and regulations. County and State entities, and the Chlorine Institute (which establishes chlorine practices pertaining to handling, transportation and safety measures) enthusiastically support our practices. The Phoenix Fire Department also has reviewed all of our facilities for safety and compliance and found them to meet and exceed required safety standards.