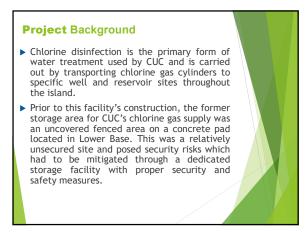
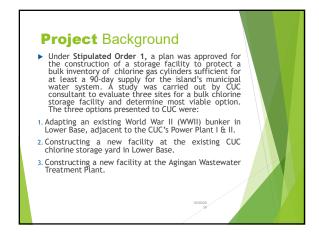




Some Facts About Chlorine Chlorine is a clear amber-colored liquid about 1.5 times heavier than water. Gaseous chlorine is greenish-yellow, about 2.5 times heavier than air. Chlorine gas can be recognized by its pungent, irritating odor, which is like the odor of bleach. The strong smell may provide adequate warning to people that they are exposed. Chlorine itself is not flammable, but it can react explosively or form explosive compounds with other chemicals such as turpentine and ammonia.







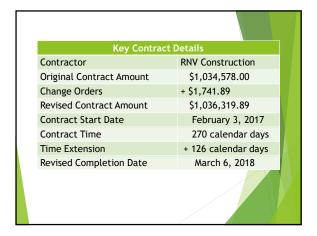
Project Background

➤ This project was designed through coordination with CUC, USEPA and Department of Homeland Security. The project design followed EPA recommendations and other requirements identified in the Process Hazard Analysis, Risk Management Plan and Emergency Planning and Community Right to Know Act (EPCRA).

Project Background

▶ The primary use of this facility is to secure and store CUC's chlorine gas cylinders. This project was designed to improve operation and maintenance of the CUC disinfection program by providing a superior facility for chlorine storage. It was also designed to advance safety to workers and the surrounding area by installing an emergency gas scrubber, mechanical duct and dampers, and alarm system and sensors in the event of accidental discharge of chlorine gas. An emergency generator set was also installed on site which will serve as a back-up supply of power for in the event of power interruption to ensure continuous operation.





Notable Construction Elements

- · Demolition of existing storage facility
- · Perimeter security fencing
- Security yard lighting
- Stormwater management
- · Chlorine gas leak detection
- · Chlorine gas scrubber
- Fire suppression
- Automated dial-in emergency contact
- Emergency backup generator
- · Temperature controlled interior cooling















Issues Encountered

➤ Some challenges were encountered during the construction phase of the project. The procurement of specialized materials required thorough review of product and technical specification submittal, which caused delays on the delivery and installation of these materials, but ultimately was completed within the approved performance period.

Benefits

- ▶ Benefits:
- Proper chlorine gas handling and storage facility are beneficial for the safety of CUC personnel, public and the environment.
- Saipan, Tinian and Rota will have adequate inventory of Chlorine gas for water treatment.
- ► Complies with Stipulated Order No. 1 Par. 29 and 30.
- ► Meets all safety requirements.



