



## Mining Engineering and Construction Services

### Client

Titanium Metals Corp (TIMET)

### Location

Henderson, Nevada, USA

## Chlorine Scrubber System

### Project Highlights

- Fast-track design-build project supported regulatory compliance timeframe requirements
- Construction completed with no lost-time injuries or incidents

### Project Description

CH2M HILL was contracted on a firm fixed-price basis to design and construct an emergency chlorine scrubber system at an active processing facility in Henderson, Nevada. The scrubber was required to bring the facility into compliance with local air pollution discharge requirements.

The project involved design and construction of a 1,500-actual-cubic-foot per minute (acfm) scrubber system designed to handle emergency releases of chlorine gas generated from the electrolytic cell operation. The system consisted of a pair of two-stage chlorine scrubbing units that utilize packed-bed towers. Each unit was designed to treat an emergency release of chlorine, wherein 249 pounds per minute of chlorine was released over an approximate 10-minute period. Inherent in the system was a 100 percent redundancy factor.

CH2M HILL's scope of services included detailed engineering involving civil, structural, electrical, and instrumentation and controls disciplines; construction; and start-up and operations assistance.