

## SECTION 7

### HAZARDOUS MATERIALS

#### 7.1 Type and Volume of Hazardous Materials On Site

Aqueous ammonia ( $\text{NH}_4\text{OH}$ ) will be stored on site in four 25,000-gallon, epoxy-lined tanks (one per unit) built inside a secondary steel, epoxy-lined containment vessel designed to retain a minimum of 110 percent of the storage tank volume. Aqueous ammonia will be used on site for emission control using a SCR unit.

SCR is a post-combustion flue gas control technology that removes  $\text{NO}_x$  from the flue gas after it has been generated in the combustion process. The SCR uses aqueous ammonia to react with  $\text{NO}_x$  in the exhaust gasses and convert them into environmentally acceptable emissions. It is proposed that aqueous ammonia at a concentration of approximately 20 percent be used for the project. On-site storage and handling of aqueous ammonia is regulated under the California Accidental Release Program (CalARP) requirements (California Health and Safety Code (CH&SC) Section 2770.1). A CalARP plan will be prepared for this project.

In addition, the following materials will be stored on site:

- Turbine lubricant oil: two 55-gallon drums.
- Zok 27 (gas turbine compressor washing fluid, water base cleaner, biodegradable, non-hazardous): 55 gallons.
- Miscellaneous water-based housekeeping cleaners in small quantities.

Each gas turbine package has a main lube oil tank that supports the generator and all other on-board systems. This main tank is an integrated part of the turbine base skid system and holds 2,850 gallons. The facility will have four transformers that will hold 8,000 to 10,000 gallons of oil each.

An oil/water separator process will remove oil from specific plant drains around the combustion turbine generators. Plant drains will be routed to a separation sump, with provisions for oil collection by a 2,170-gallon-above grade oil/water separator (350 gallons oil, 1,340 gallons separation, and 480 gallons water). Any oil sludge will be properly disposed of at an appropriate waste disposal or recycling facility.

#### 7.2 Storage Facilities and Containment

The Applicant will comply with the City of Lancaster General Plan, ensuring that anywhere hazardous materials are used or wastes are stored, the entire area shall be paved without expansion joints and with a curb sufficient for containment in accordance with City standards. Refer to Section 7.1 for additional details.