

# Apache Generating Station

## Combustion Waste Disposal Facility

### Liner Design Criteria

The Apache Generating Station Combustion Waste Disposal Facility (CWDF) was placed in service in 1995. The CWDF was designed and constructed with a two-part composite liner system. The pond subgrade floor and dike interior side slopes contain a minimum of eight (8) inch thick layer of select fill clay material with 95% compaction at optimum moisture and a maximum hydraulic conductivity of  $1 \times 10^{-6}$  cm/second. A 60-mil thick high density polyethylene (HDPE) geo-membrane liner was installed over the clay pond subgrade (80-mil thick on pond dike side slopes).

The 8-inch thick clay pond subgrade layer in each pond does not meet the 40 CFR Part 257.71(a)(1)(i) requirement of two feet of compacted soil with a hydraulic conductivity of no more than  $1 \times 10^{-7}$  cm/second.

Thus, the Apache Generating Station Combustion Waste Disposal Facility is considered an existing unlined CCR surface impoundment per 40 CFR 257.71(a)(3)(i).