

**LOCATION RESTRICTION DEMONSTRATION
SEISMIC IMPACT ZONE (40 C.F.R. 257.63)
PLANT YATES ASH POND 2 (AP-2)
GEORGIA POWER COMPANY**

EPA's "Disposal of Coal Combustion Residuals from Electric Utilities" Final Rule (40 C.F.R. Part 257 and Part 261) requires the owner or operator of an existing CCR surface impoundment to make a demonstration that the facility meets certain location restrictions. Per § 257.63, the owner or operator must demonstrate that the facility is not located within a seismic impact zone; otherwise, a demonstration must be made that all structural components including liners, leachate collection and removal systems and surface water control systems are designed to resist the maximum horizontal acceleration in lithified earth material for the site. A seismic impact zone is defined as an area having a 2% or greater probability that the maximum expected horizontal acceleration, expressed as a percentage of the earth's gravitational pull (g), will exceed 0.10g in 50 years.

Based on a review of United States Geological Survey (USGS) 2014 Seismic Hazard Map, Plant Yates is shown as being in a seismic impact zone with an expected maximum acceleration ranging from 8-10 percent g. The USGS Unified Hazard Tool, Conterminous U.S. 2014 (v4.0.x) was used to calculate the estimate maximum horizontal acceleration for the vicinity of AP-2. Based on the results of this calculation, AP-2 is in a seismic impact zone, as defined in § 257.53, with a reported maximum horizontal acceleration in lithified earth material of determined to be 0.08g in 50 years.

I hereby certify that for Georgia Power's Plant Yates AP-2, the seismic impact zone location restriction demonstration meets the requirements of 40 C.F.R. § 257.63(a).



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12/17/18

