

**LOCATION RESTRICTION DEMONSTRATION
SEISMIC IMPACT ZONE (40 C.F.R. PART 257.63)
PLANT YATES ASHPONDA (AP-A)
GEORGIA POWER COMPANY**

Plant Yates AP-A is subject to the timelines announced in 81 Fed. Reg. 51802 (Aug. 5, 2016). EPA's "Disposal of Coal Combustion Residuals from Electric Utilities Final Rule" (40 C.F.R. Part 257.63) 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.

This determination can be made using a seismic hazard map. The site is located with an area of expected maximum acceleration of approximately 15 percent (0.15g in 50 years), which exceeds the horizontal acceleration of 0.10g in 50 years. Therefore, the USGS Unified Hazard Tool, Conterminous U.S. 2014 (v4.0.x) was used to calculate a maximum horizontal acceleration for the vicinity of AP-A. Based on this calculation, AP-A, as defined in § 257.53, has a maximum horizontal acceleration in lithified earth material of 0.08g in 50 years, which is within the limit (§ 257.63) of 0.10g in 50 years. Georgia Power's Plant Yates AP-A seismic impact zone location restriction demonstration meets the requirements of 40 C.F.R. § 257.63.

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


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