Integrated CCR Pond/Impoundment Closures: “Big Picture & the How To’s” with Case Studies

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ABSTRACT

With the new CCR Rule driving CCR management strategies (and associated capital outlays), many utilities will be required to tackle the near-term financial planning, permitting and implementation of CCR wet pond closures. In that context, it is important for us as an industry to look at the lessons learned from ongoing and already completed CCR pond closures. In this presentation, participants will have the opportunity to get the big picture and dig into the “how to’s” of CCR ponds/impoundments closures and pond reuse (via “dry stack overfills” – landfill built over ponds) with relevant case studies. Presentation content will include initial steps of planning including hyrdogeologic and geotechnical site characterizations, design concerns including seismicity/stability, water/leachate management, mass balance, and lean design considerations. Case studies will include CCR overfills and sequential pond closures which present their own set of geotechnical, water management, and interim constructability issues, all of which will require integrated engineering solutions that keep bottom line costs in check.