

Study Project (UI) (state: 17.01.2022)

Modification of a Shaft Spillway



https://commons.wikimedia.org/wiki/File:High_Island_Reservoir_Bellmouth_Siphon_Spillway_07.jpg



Background

Shaft Spillways are used to discharge flood events. In our hydraulic laboratory at the research institute for hydraulic and water resources engineering Obernach (<https://www.cee.ed.tum.de/wb/labore/versuchsanstalt-obernach>), a scaled example is built in our teaching lab. To improve the visibility of the hydraulic performance of this spillway type, we want you to modify the design of the structure.

Goals

You should consider recent state of the arts in your calculations. Result of this study should provide a correct, functional plan and report that allows our workmen to manufacture the modified structure of the shaft spillway.

Mile Stones

- Literature review about state of the art concerning the design of shaft spill ways
- Priorization of the approaches
- Interims presentation
- Application of the best suitable approach
- Final presentation

Prerequisites

Lecture “Hydraulics in Water Engineering” or lectures with equivalent content

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Timeline

Start since today

If you have interest, please contact

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We are happy to give you more information about this project!