Rockfill Dams: Salt Springs and Lower Bear River Concrete Face Dams

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Abstract:
The 28-year service record of Salt Spring Dam, in terms of settlement, leakage, face cracks and maintenance is presented. The troubles at Salt Springs are traced to specific construction weaknesses. The design, construction and performance of the two Lower Bear River Dams is presented and compared to Salt Springs Dam.

Subject Headings: Concrete dams | Earthfill dams | Dams | Rockfill dams | Rock fills | Salts | Rivers and streams | Leakage

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Concrete Face Rock-fill dam compared to Roller Compacted Concrete dam A case study of dam constructions in Panama Master of Science Thesis in the Master's Programme Geo and Water Engineering TOM KARLSSON AND JONAS TALLBERDepartment of Civil and Environmental Engineering Division of Water and Environmental Technology Chalmers University of Technology. ABSTRACT This report compares two different dam types (Roller Compacted Concrete Dam and Concrete Face Rock-fill Dam) in order to help the decision making when choosing what dam type to build in Panama, where Vattenfall is involved in a joint vent.