عنوان فارسی مقاله:
ارزیابی امنیت هیدرولوژیکی سد Mae Sruai در تایلند

عنوان انگلیسی مقاله:
Assessment of hydrological safety of Mae Sruai Dam, Thailand

توجه!
این فایل تنها قسمتی از ترجمه میباشد. برای تهیه مقاله ترجمه شده کامل با فرمت ورد (قابل ویرایش) همراه با نسخه انگلیسی مقاله، اینجا کلیک فایل.
4. Conclusions and Recommendations

On the assumption that the PMP occurred during the reservoir at full of storage with fully operable outlet discharge, the existing spillway capacity was found capable to safely handle PMF without dam crest overtopping. The simulated peak water level was only +509.000 m MSL while the dam crest elevation was +511.000 m MSL. Although Mae Sruai Dam is safe in hydrological assessment, the downstream floodplain especially downstream urbanized area of Mae Sruai District was in high risk of flood and should be protected. A 2-dimensional flood routing model [7] was applied in downstream flood plain area of the dam. It was found that the simulated flood due to PMF covered 383 ha area of downstream flooding for 4 day duration. The extreme floods can be decreased in magnitude by suitable reservoir operation. Decreasing reservoir water level to accommodate extreme inflow should be done properly before rainy seasons.