

## SUMMARY

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The paper describes a systematic approach to the seismic design of hydraulic gate structures in accordance with current state of the art. The approach is formulated around the definition of two performance levels, one defining an operating or minimal damage level and the other a survival

event. The nature of seismic loading and hydrodynamic effects are described, analytical routes are outlined and the selection of design codes and detailing practice discussed. In addition, some of the complications inherent in a rigorous approach are explained.