

**Letter #:** 143  
**Date Received:** 12/2/2022  
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**Organizations:**  
**Subject:** SEIS Question

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Dear Reclamation employees,

Could you please provide technical information to me via email or US Post, that explains what exactly happens to penstocks, river outlet works, turbines, and other such water work infrastructure, that are specifically related to the bypassing of reservoir water through the following Reclamation facilities: Glen Canyon Dam and Hoover Dam and Flaming Gorge Dam.

Literature that specifically explains what entrained air does to the this infrastructure that is embedded into reinforced concrete. What exactly are the dam safety issues to this infrastructure when reservoir elevations approach the intake structures.

For example, what do these terms mean and what causes this phenomenon?: Water hammering and cavitation (air bubble implosions) and vibrations and etc.

If such literature does not exist, then perhaps there is an engineer that is available for my questions.

Who might this individual be and can you assist me in having a conversation with such an individual?

All the best,  
John Weisheit  
[REDACTED]