

Spillway Gates in the Willamette Valley



Tainter gates



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Overstressed spillway gate arms

Twisted, bent and/or buckled gate arms and structural members



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Spillway gate arms and structural members



Cracks due to aging reduce strength at structural connections. Welds not to current design standards.

Structurally sound gate arms



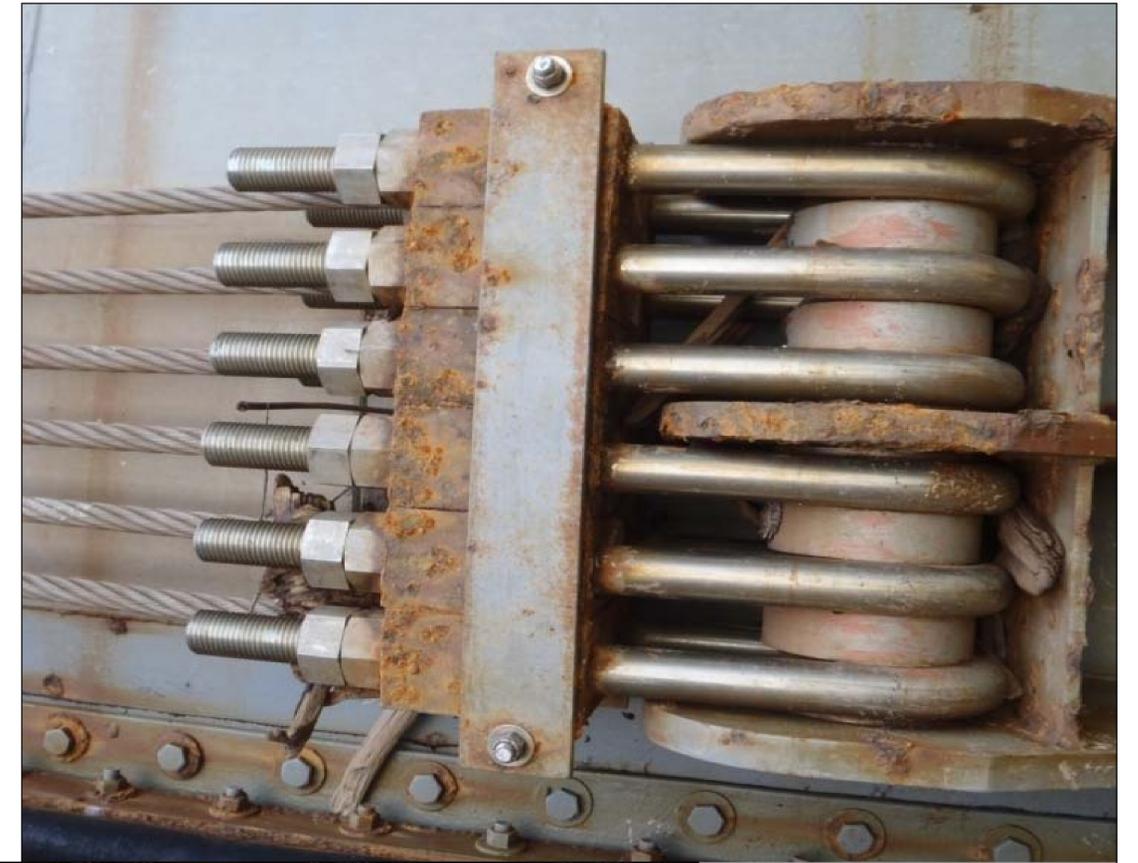
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Spillway gate wire ropes and connections



Corrosion hampers ability to adjust tension on individual ropes and reduces hoisting reliability and success.



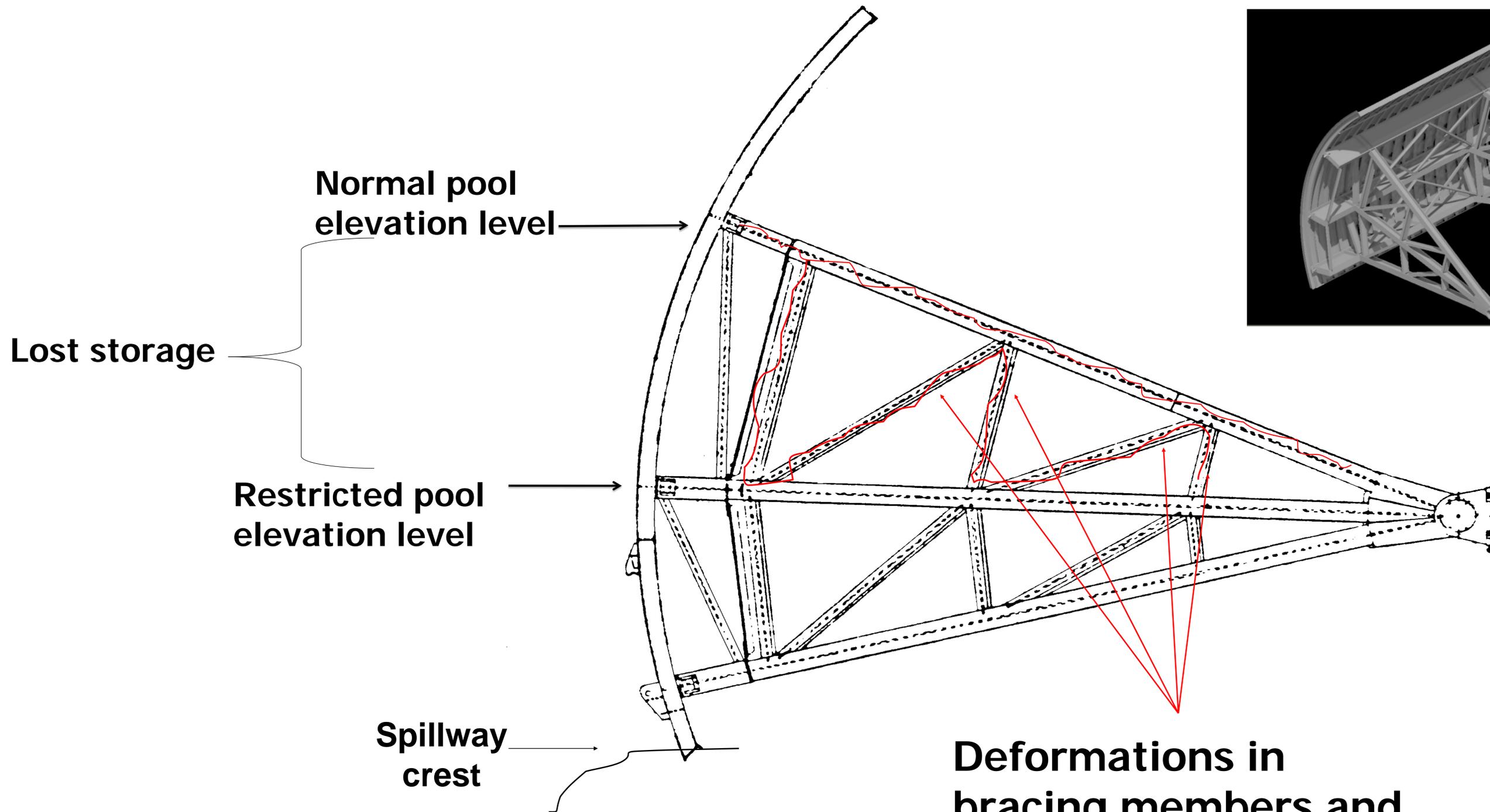
Good connections and ropes



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Restricted pool levels vs. normal pool levels



**Deformations in
bracing members and
struts**



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