

# Rocky Reach Spillway Gates



## Lessons Learned

# Rocky Reach Spillway



# Tainter gates



# Recent Work

- Replaced trunnion bearings on two gates
- Reinforced arms of all 12 gates

# Lessons Learned

- Inspection is important
- Test the design
- Do follow-up testing
- Leave some margin
- Be curious

# Inspection is important

- Contractor documentation vs. Inspection
- Example: paint prep & painting
- Example: steel sizes
- Figure out what to inspect.
- Use an inspector who is willing to learn what is needed to make sure the work is done correctly.

# Test the design

- Check the results on the first one...
- Example: bearing type
- Example: new bearings vs. alignment
- Example: new bearings vs. arm strengthening

# Follow up testing

Bearing replacement:

- Did we get the results we expected?

Arm strengthening:

- Did the design work as intended?

What does it cost to find out?

What might it cost to not know?

# Leave Margin

- Consider the value vs. cost of extra capacity.
- Example: What friction coefficient to design for?

# Be curious

- Stay interested! Seek understanding!
- Example: How does temperature affect friction coefficient?

# Lessons Learned

- Inspection is important
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- Be curious

# Questions ?

