Dam Safety Update

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Overview

- Dam Safety Program
- HB 2085 Implementation
- Status of High Hazard Dams
- FEMA High Hazard Potential Dam Grant
- 2020 Legislation
- Questions
~950 State Regulated Dams

• 76 – High Hazard Dams
• 151 – Significant Hazard Dams
• 728 – Low Hazard Dams

*Hazard rating does not indicate condition
Modernize Oregon’s Dam Safety Statutes

• Provide tools to address maintenance and safety issues, improving the safety of dams to protect people, property, and infrastructure

• Cooperative plan and timeframe (particularly for seismic and floods), informal resolution, formal corrective action, injunction, civil penalty, and maintenance action

• General authorities, dam failure actions, jurisdiction, modification, owner responsibilities, safe removal, etc.

• Operative date July 1, 2020
Division Rulemaking

Implementation of House Bill 2085 (2019)

RAC Meetings:
October – January

Notice and Public Comment:
Early 2020

Adoption:
June 2020
Long-Term Goals

• Identify safety issues of dams
  • Inspections
  • Assessments
  • Analysis

• Address safety issues of dams
  • Prioritizing repair
    • Population at risk
    • Severity of issue
    • Interim measures that can reduce the risk
  • Funding for repair
**Condition of High Hazard Dams**

**Poor Condition - 13**
- BARNES BUTTE
- BEAR CREEK
- DUGGAN
- JUBILEE LAKE
- LONESOME LAKE
- MORGAN LAKE
- OSBORNE CREEK
- PONY CREEK - LOWER
- POLE CREEK
- WAGEMAN
- WALCH DAM
- WALLOWA LAKE
- WINCHESTER

**Unsatisfactory - 7**
- CROWLEY
- BIG CREEK #1 (LOWER)
- BIG CREEK #2 (UPPER)
- FERRY CREEK
- MCMULLEN CREEK
- WOODRAT KNOB
- WILLOW CREEK 3 (MALHEUR)
Condition Rating

• Condition ratings are mostly determined based on visual inspection

• Historically, partial risk assessments done as resources are available
  • Floods, earthquakes, internal erosion, landslides, structural deterioration, and debris blockages
  • 76 high hazard dams and 151 significant hazard dams – all need full or partial risk assessments done
  • Help to prioritize dams for more detailed analysis, and addressing issues
FEMA High-Hazard Potential Dam Grant - $260k
• Position dams to qualify for future funding
• Statewide Hazard Mitigation Plan Update
• Risk assessment protocol for Oregon specific risks
• Risk assessments for 16 high hazard rated dams - flood, earthquake, internal erosion, landslide, deterioration
• Population at risk and likely economic losses
• Two Floodplain Management Plans
Requesting $2,000,000:

• Safety assessments to determine dam specific seismic, flood overtopping, and other safety risks; seismic analysis
• Development of methods to determine extreme flood event size

• Dam Safety Task Force:
  • Prioritize dams for repair and addressing other safety issues
  • Funding mechanism for addressing dam safety issues
Questions?

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