Bear Creek Dam Rehabilitation Project

Presented by Susan Kelly

July 15, 2009

Bear Creek Dam Pre-Construction

EIS: Preferred Alternative

- Modify the dam and restore the 576-foot operating pool
- Construct a roller-compacted concrete berm at the toe of the existing dam
- Benefits:
  - Retains intended benefits of flood protection, water supply, recreation, and economic development
  - Provides protection from probable maximum flood
  - Stable if karst leak reappears
  - Allows releases to be managed to ensure appropriate seasonal minimum flows to support aquatic resources (including listed species) and to minimize the effects of high flow velocities downstream of the dam

Construction Report Update

Activity	Status
Site mobilization	Complete
Excavation	Complete
Dewatering system installation	Complete
Foundation treatment	Complete
Roller compacted concrete berm	Complete
Site restoration and demobilization	Complete
Project completion/return to service	Complete
Ribbon cutting	August 2009


CAT


CAT

Concrete Berm, Downstream Face

Concrete Berm, Upstream Face

Concrete Berm from Spillway

Bear Creek Dam Post Construction

(Rendering)

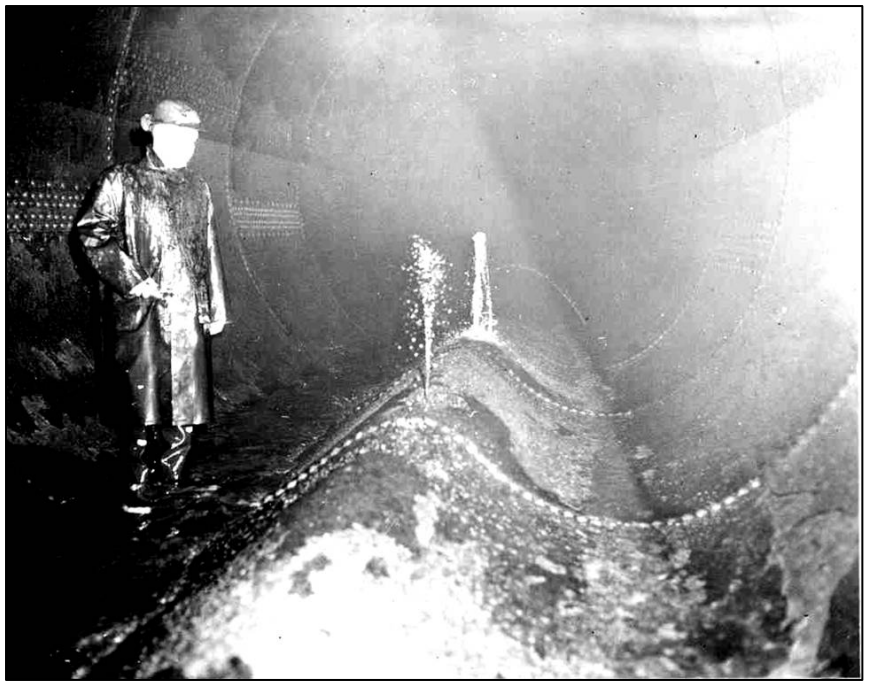
Blue Ridge Dam Rehabilitation Project

Presented by Susan Kelly

July 15, 2009

Background

- Major components are damaged or deteriorating
- Seismic concerns
- Deep drawdown required to check condition every five years



Scope of Work

- Repair the penstock
  - Remove vertical reinforcing girder
  - Remove penstock bulge
  - Install a new steel liner
- Seismic modifications
  - Reinforce the water intake tower
  - Install filter and replace riprap on upstream embankment
  - Install filter and add riprap on downstream embankment

Proposed Drawdown

- Repairs will require a deep drawdown
- Plans are to begin slowly drawing down the reservoir between mid-July and early September 2010
- The reservoir will be held under elevation 1630 for six to nine months
- Assuming adequate rainfall, the reservoir will be refilled in late spring to early summer 2011