

Public Tour
North Umpqua Hydroelectric Project
Resource Coordinating Committee
October 19, 2011

10:30 Toketee Implementation Center discussion

- Hydro project built 1946-56; designed to use native materials, reduce river impacts
- Operates to “follow load” – provide most generation during times of peak demand (like a “water battery” that recharges at night)
- Settlement agreement in 2001; new FERC License in 2003, made final in 2005
- Resource Coordination Committee – guides resource improvements
- Discussion of projects completed to date, ongoing, planned for the near future

11:30 Lunch

12:00 Tour (USDA-FS will provide bus, due to limited parking)

- Soda Springs reservoir, dam, bypass reach, powerhouse (PPE required)
 - Reservoir fluctuates up to 14 ft / day to regulate flow to W&S River
 - Fish passage at dam for anadromous fish, build 2009-2012
 - Ladder -- 68 pools, tunnel through dam, 200 ft into reservoir,
 - Screen – 27x200 ft “V” shape, 3/32” tolerance, 1800 cfs at <0.4 fps
 - Spillway modifications – smoother passage for fish
 - Evaluation program -- video counts in ladder, building for juveniles
 - Construction considerations – foundation support, river flows, turbidity
 - Bypass reach flow and spawning habitat improvements (2001-present)
 - Powerhouse – tailrace barrier built 2007 to protect adult fish
- Slide Creek powerhouse (PPE required)
 - Tailrace barrier to protect adult fish, build 2011
 - Emergency spill system from canal
 - Spawning habitat enhancements upstream (boulder structures and gravel)
- Toketee intake – new fish screen and rake, much larger than original trash rack
- ADA Fishing Pier – fish habitat structure added to reservoir next to new fishing pier
- Lemolo 2 Tailrace Re-route
 - Conveys tailrace flow to Toketee Lake
 - Eliminates ramping and pH issues in ½ mile of river
- Lemolo 2 canal
 - Wildlife bridges, aquatic reconnections
 - Emergency shutoff gates and monitoring sites
 - Riparian restoration
- Lemolo 1 forebay pond and wetland
- Lemolo Reservoir

4:00 Tour concludes at Toketee Implementation Center