

Puget Sound Energy

Greenwater Tap Meeting Outline July 20, 2016

- Introduction
- Safety Moment
- System overview/history:
 - o Brief history of the GWR Tap
 - 55kV tap Enumclaw to GWR
 - GWR-13 – Geographic limits and “who does it serve?”
 - GWR-16 – Geographic limits and “who does it serve?”
 - Crystal generator – Use and intent of facility
- Work PSE has completed to-date:
 - o USFS Special Use Permit documentation completed, ready to be issued.
 - o Detailed Fluvialmorphologic documentation (Channel Migration Studies) of White River to determine potential White River erosion/flooding.
 - o Reconstruction of the GWR sub (2011) - \$3.25M
 - o Replacement of span crossing West Fork of White River
 - o Relocation of a switch on SR 410 near Miles Sand and Gravel (2012) - \$180K
 - o Reconstruction of facilities on Mountainside Drive to 115kV standards (2013) – just over \$1M
 - o Installation of fault indicators (March 2013 – AKA: “RDAD’s:” Remote Data Acquisition Devices) - \$100K
 - o Extensive vegetation management effort
 - o Relocation of facilities due to channel migration caused bank erosion
 - Span at old Weyerhaeuser/Hancock bridge (AKA: “Area J” or “Snipers Corner”) - \$235K
 - Spans along 3700 Road
 - 73 Site (GWR-16)
- Work planned for 2016
 - o GWR-16 – Relocate White River crossing to avoid Channel Migration Zone - \$250K
 - o Construction of 3 ea. new fish passage structures on 3700 Road (funded by PSE, completed by Hancock Timber so PSE can continue to access facilities) - \$180K
 - o Installation of new breaker at Clay Creek sub
 - o Changes to system protection settings
 - o Installation of additional fault indicators (RDAD’s)
 - o Vegetation Management support in CRR community for “Snow Day” harvest
- PSE concerns and future construction efforts
 - o GWR-16 (Part of the USFS SUP Renewal)
 - Relocation of 34kV distribution between CRR and FR 73 due to channel migration caused erosion
 - Conversion along Mine-to-Market Road between SR 410 and Crystal River Generator
 - o 55kV to 115kV conversion
 - 19 miles of 55kV
 - o Lack of long-term future access on 3700 Road creates need to evaluate current versus alternative alignment for PSE infrastructure

- Channel Migration Zone
- Relocation would require CMZ + buffer footage
- Challenges to relocation
 - The White River
 - CMZ and related set-backs
 - Habitat
 - Topography/geology
 - Federation Forest
 - WSDOT Control Zone
 - Multiple entities involved with potential relocation of PSE facilities
 - Muckleshoot Federal Corporation, WSDOT, HFM, USFS, Washington State Parks, WDFW, DNR, Pierce County, King County, CRR, etc