

Fish Facility Design Review Work Group
6 October 2011

6 OCTOBER 2011
FFDRWG
Medina

B2 FGE (Medina/Lee/Schwartz)

- 60% report by end of October 2011
- Final report completion scheduled for end of December 2011
- CFD modeling for all identified alternatives is complete. PNNL is incorporating our single unit CFD model data into a more robust and encompassing powerhouse and forebay model to better simulate field conditions for the proposed alternatives - both in the powerhouse and in the forebay.
- Proof-of-concept field-test scenario for the slot-filler alternative moving ahead. Anticipate design completion by the end of March with a field-test in next September.

B2 Orifice Improvement study (Medina/Kuhn/Schwartz)

- An alternatives matrix has been developed.
- 8 primary alternatives have been identified with variations to include light attraction rings
- The top three ranked alternatives are:
 - o Re-core orifice tube to larger size
 - o Reduce the orifice size but open additional orifices as needed
 - o Increase the capacity of the DSM while reducing the orifice size and opening up additional orifices as needed
- Report, with all the required reviews will be completed in May 2012

B2 Corner Collector Gate Hoist

- Fabrication of gatewell underway
- Construction and installation completion scheduled for 28 February 2012

JDA Configuration and Operation Plan (Medina/Hanson/Askelson/Tackley)

- Avian wire: contractor on-site first week of November to install felled lines and height adjustment hardware
- Preliminary designs underway for TSW permanence with emphasis on easier installation/removal of TSW's
- Intent is to award a construction contract this time next year
- Contract awarded for stop-log replacement
- COP revision is under review at the division office

The Dalles North and East Adult Fish Ladder Study - (Medina/Lee/Tackley)

- Task order award for the development of an engineering design report for a limited suit of alternatives based on minimum hydraulic needs (1400 cfs)
- Alternatives based on HDR Brainstorming Report, use of the fish-lock and variations
- Anticipate completion of EDR next spring

Turbine Survival Program (Medina/Ammann/Langeslay)

- Technical writer has been brought on-board to help clean-up and format a BIT document the spells out BIT principles and concepts with appendices for individual powerhouse operations by project as advised by the region
- Biologic field study for Ice Harbor is still under discussion internally (PDT)