

## Prosser Dam Meeting Minutes

May 11, 2005

### Attendees:

Don Warf – PSMFC  
Scott Livingston – PSMFC  
Alan Brower – PSMFC  
Troy Humphrey – PSMFC  
Mark Johnston – YIN  
Corkey – BOR  
David Knight – Knight Const.  
Daniel Russel – Inca Eng.  
Derek Akesson – Inca Eng.

Confirmed that the construction period for the Right ladder will begin July 1<sup>st</sup> and be completed by August 1<sup>st</sup>. with construction of both ladders completed by September 30<sup>th</sup> 05.

The meeting began on the Left bank ladder where the group talked about structural issues with the vertical I-Beam, referring to the vibration problems that were experience during the initial start up last fall.

The group agreed upon the following remedy for adding structural integrity to the Beam and effectively reduces any possibility of vibration.

The Left bank ladder will receive the below modifications before being implemented on the Center and Right ladders.

1. The entire beam will be encased in concrete but the window side of the beam will remain exposed for insertion of the antenna.
2. A 4"x 4" SS tubing will span across the ladder on the downstream side of the downstream antenna along with a 45 degree kicker support bolted to the south ladder wall. This assembly will then be bolted to the top of the concrete pillar to add additional horizontal support to the vertical pillar.
3. The upstream antenna guide will also be encased in concrete as previously described.
4. The horizontal support mechanism for this pillar will be a 2"x 6" SS tube spanning across the width of the ladder along with a 45 degree kicker brace bolted to the south ladder wall. This assembly will then be bolted to the top of the concrete pillar on the up-stream side of the antenna pillar guide.

The requirements for construction of the pillars are:

- Fiber glass rebar to be used for reinforcement in the concrete.
- All metal supports and fasteners will be Stainless Steel.

- Concrete will have a 5000 psi grout rating.

Don Warf made mention that the antenna guides bolted to the wall on the window side should be designed to increase the thickness by  $\frac{1}{4}$ " so that the guides will protect the upstream edge of the antennas for debris.

The group agreed that all fabricated backboards will be the standard  $\frac{1}{4}$ " thick fiber panels with additional ribbing attached to the backside of each panel to eliminate vibration. This requirement will apply to the other 2 ladders as well.

Group then moved over to the **Right bank** ladder.

The internal trash rack infrastructure was first reviewed.

Dave Knight indicated that the Retro fit and moving of the entire structure will be easily done due to no concrete chipping will be required due to angels in the ladder entrance.

Mark Johnston made indicated that the removable back board, opposite of the window will need to be increased in size to 10'-6" so that fish cannot jump over it in high water conditions. This is only true for the Right bank ladder.

The height of the fish passage floor will be increased to 44". Mark indicated that this will allow for better video of the fish passing by the window. This will also raise the height of the PIT-tag antenna and eliminate the possibility of the antenna being completely submerged during high water conditions.

Don asked if some abandon light bars inside the fish passage, located on each side of the counting window, would be eliminated, Corkey said he would remove them, their no longer needed or in operation.

The group then moved out to the **Center ladder**.

This installation is a mirror image of the Left Bank, no real issues to address.

Mark indicated that the fish passage floor will need to be raised up to 38" from the ladder floor.. Again this will prevent the PIT-tag antennas from being submerged during high water conditions.

#### **Action Items:**

Scott to do an inventory on all the parts and equipment on-hand and forward to Mark as to what were missing and need to purchase.

Setup time with PSMFC and Corkey to conduct noise monitoring and the Center and Right Bank ladders

Contact John Dyson at the BOR for as built drawings of the two ladders (509)575-5848 #411 for directory.

Don Warf indicated to Inca that PSMFC would like the opportunity to review all drawing submittles. Inca and the group agreed.

Mark to order 4 more radios and yagi antennas, plus whatever is not in inventory.

Mark to call Biomark for drawings of the antennas and forward to Knight and Inca

Don to call PSMFC HR for Operating a Boat regulations.