

FINAL - Meeting Summary Notes
Lewis River License Implementation
Merwin Trap Engineering Subgroup
June 26, 2006
Merwin Hydro Facility

Subgroup Participants Present: (11)

Sean Flak, PacifiCorp
Frank Shrier, PacifiCorp
Todd Olson, PacifiCorp
Will Shallenberger, PacifiCorp (afternoon portion of meeting)
Eric Kinne, WDFW
Pat Klavas, WDFW
Curt Leigh, WDFW (via phone/web conference)
Bryan Nordlund, NOAA Fisheries (NMFS) (via phone)
Monty Nigus, Black & Veatch (via phone, middle portion of meeting)
Dana Postlewait, R2 Resource Consultants
Peter Christensen, R2 Resource Consultants

Handouts

Distributed via email on 6/20/06:

- Final Agenda for 6/26/06 meeting (Revised).
- Draft May 17, 2006 Meeting Summary Notes (draft)

Distributed at meeting 6/26/06 (paper copies):

- Draft May 17, 2006 Meeting Summary Notes
- Draft March 7, 2006 Meeting Summary Notes
- September & October, Merwin Trap: Peak Fish Disposition Design Number Summary, and Truck Loading Plan, 11x17 color copies, dated June 9, 2006.
- Merwin Fish Sorting Facility Scope Definition (Discussion Draft for 3/7/06 Engineering Subgroup Meeting).

Distributed at meeting and via email on 6/26/06:

- Swift downstream passage project, PowerPoint brief (LR SW DS Engr Subgrp 6_26_06.ppt)
- Swift downstream design team organization chart (Swift Downstream Org Chart_062606.doc)

ADMINISTRATIVE

Welcome of attendees and review agenda.

Introductions: Peter Christensen was introduced as R2's lead engineer for the Swift Downstream Passage design project. He and Brian Friesz of Black & Veatch will be leading the engineering efforts for this project.

FERC License Schedule Update: Frank Shrier reported that the USFWS and NMFS will have their BIOP's done and transmitted to FERC by September 1st. Additionally, WDOE will have their 401 certification work in to FERC by September 1st. Once this information is provided to FERC, they will likely take 30 to 60 days to issue a license. November 1st is the best estimate at this time for an Issuance of License date. Updates to this estimated schedule will be provided at future meetings as necessary.

Review of Last Meeting's Action Items: See status summary table below.

Report on Previous Assignments (from May 17th meeting):	STATUS
PacifiCorp/B&V/WDFW: Upper Release and Constructed Channel Design Input and Details. See information in review of last meeting's action items. Waiting for final flow distribution and clarification of goals for the constructed channel.	Pending until design effort begins again following WDOE guidance. To be available with 401 submittal, estimated by September 1, 2006.
PacifiCorp (Shrier/Flak): Investigate the need for a minor amendment to the SA to address interim safety improvements to the fish trap. Frank spoke with Holly Harwood.	Pending – future item. May be best to wait and compile any other SA amendments if applicable.
PacifiCorp/R2 (Flak, Postlewait): Draft letter recommending number of tanks and rough configuration of the facility based on last several meetings and technical memo attachments (contingent on finalization of how to deal with surplus fish).	Complete - agenda item for this meeting.
R2 (Postlewait): Prepare draft calc showing size needed for recovery pond, for discussion at next meeting.	Pending – to be completed for August 8 th meeting. Pre-drafts will be distributed to Pat Klavas and Eric Kinne when available for off-line input.
NEW ACTION ITEMS (From May 17th Meeting):	STATUS:
PacifiCorp (Shrier/Flak): Coordinate to address Bryan's comments regarding	Pending – Frank Shrier to coordinate

needing both biology and engineering support for development of the ATE Standards. Bryan wants input from Michelle Day and ACC biologists with this task, in addition to the engineers.	agenda item for August 10 th ACC meeting.
R2 (Postlewait): Make changes to April 12 th Meeting Summary Notes to incorporate Bryan's comments. Get to Kim for distribution.	Complete. To be posted on the PacifiCorp web site by Kim McCune.
PacifiCorp (Shrier/Flak): Email license schedule update (if appropriate) following Frank's meeting today regarding BIOP.	Remove from list, schedule update provided at this meeting.
PacifiCorp/WDFW (Shrier/Kinne): Meet to review tank loading spreadsheets and new diagram for the trap. Kinne's concerns with the recommendation for 4 large tanks, 4 small (250 gal) tanks, and one fish trailer are: - Are there sufficient tanks available to allow taking brood throughout the day (as opposed to taking the 1st load for brood, then using the tanks for other needs)? - Is there sufficient capacity to allow taking recycle fish throughout the day? - Is there sufficient capacity to deal with surplus fish throughout the day, and not have too much down-time if an extra truck is used in lieu of a 5th tank. The surplus issue will be handled as part of the design process, but this note records Eric's concern.	Agenda item for today's meeting.
PacifiCorp (Shrier). Once the above item is resolved, add an agenda item at a future ACC meeting to present tank configuration recommended by Engineering Subgroup.	Pending, plan for August 10 th ACC meeting.
R2 (Postlewait). Develop tank/truck loading diagram for October. Pending resolution of above item, update tank/truck loading diagrams to reflect Shrier/Kinne discussion.	Complete, Agenda item for today's meeting.
All Subgroup Members: Review and provide comments to the Merwin Fish Sorting Facility Scope Definition document distributed at the last meeting.	No comments received – note as complete.
PacifiCorp (Flak): Email out another copy of the Merwin Fish Sorting Facility Scope Definition document.	Complete – paper copy distributed at meeting.
B&V/R2 (Nigus/Postlewait): Develop design schedule for sorting facility / trap work	Pending, to be provided for August 8 th meeting.

Additional Comments on Last Meeting's Action List:

None requiring additional information this period.

Comments and Finalization of May 17th Meeting Notes: None of the subgroup members had reviewed the May 17th meeting notes. The group agreed to a 2-week review period, and to send any comments to Kimberly McCune via email: (Kimberly.McCune@PacifiCorp.com). Comments received will be distributed to the subgroup via email, with comments addressed in the meeting record. If no comments are received by July 12th, Kim will post the May 17th meeting notes to the web site as final.

Comments and Finalization of March 7th Meeting Notes: The March 7th meeting notes have not been finalized. Paper copies were distributed to team members (and via email for phone participants). The group agreed to a 2-week review period, and to send any comments to Kimberly McCune via email: (Kimberly.McCune@PacifiCorp.com). Comments received will be distributed to the subgroup via email, with comments addressed in the meeting record. If no comments are received by July 12th, Kim will post the March 7th meeting notes to the web site as final.

CRITERIA DOCUMENT / TECH MEMO / SORTING FACILITY

Dana Postlewait reviewed the following items for the design criteria and fish number calculations.

Action since last meeting: Actions taken since the last meeting include:

- R2 provided an updated truck/tank loading diagram as discussed at last month's meeting for September and October to WDFW (Eric Kinne). Additional information was provided to estimate likely peak surplus fish numbers. The concerns stated at the last meeting regarding hatchery brood handling, recycle fish handling, and handling of surplus fish were addressed.
- Frank Shrier and Eric Kinne met to discuss the updated tank/truck loading diagram noted above.
- The updated diagrams were distributed at this (June 26th) meeting to the entire subgroup.
- The subgroup members had time to review the documents distributed at the May 17th meeting.

Tank/Truck Loading Diagram, and Surplus Fish Handling Protocol: Dana walked the group through a graphical presentation of the Tank Loading Plan for September and October (the critical months for peak fish returns and sorting needs). For the Merwin Trap, the group agreed that the diagrams were complete, and that the proposed facility would be designed to include:

- Four 3,000 gallon truck loading tanks
- Four 250 gallon fish transport tanks (mounted to a flat bed trailer)
- One 400 gallon fish trailer.
- Surplus fish transport facilities (see below).

It was noted that there is additional flexibility provided with this plan, in that:

- The Yale transport tank won't be utilized for 10-years, and can be used for any needs in the interim.
- Hatchery Brood needs can be accommodated with a 1st load brood tank, or with the recycle tank for October.

Regarding handling of the surplus fish, all fish handling will be addressed at the Lewis River Hatchery (LRH) Pond 15, and no facilities other than holding tanks and trucks will be needed at the Merwin Trap. An economic evaluation will be performed by PacifiCorp during the facility design to provide either a fifth 3,000 gallon holding/truck loading tank, or a dedicated truck loading station with flow-through water to transport the surplus fish from the trap to the LRH Pond 15.

Operations issues (such as the number of trucks needed for the program) will be addressed outside of the engineering subgroup between PacifiCorp and WDFW. Eric Kinne noted that the current plan may not have enough trucks. Frank Shrier will lead this coordination effort for PacifiCorp, and will work with WDFW regarding these operational issues.

There are still flow and holding pond issues to be addressed by the hatchery design team, WDFW, and PacifiCorp. These issues will be discussed off-line from the subgroup meetings, with key decisions related to the Settlement Agreement (SA) reported to the subgroup at the next meeting. Curt Leigh expressed his concerns with this issue, and asked to be notified of any meeting so that he may participate. PacifiCorp (Flak/Shrier) agreed to notify Curt of any hatchery criteria meetings.

Regarding the questions that stood at the last meeting they were addressed as follows:

1. Are there sufficient tanks available to allow taking brood throughout the day (as opposed to taking the 1st load for brood, then using the tanks for other needs)?

Based on the fact that brood holding was switched to the 250 gal. tanks, Eric Kinne agrees this issue is resolved

2. Is there sufficient capacity to allow taking recycle fish throughout the day?

Based on the fact that there is room to hold recycled fish until the end of the day, Eric Kinne agrees this issue is resolved

3. Is there sufficient capacity to deal with surplus fish throughout the day, and not have too much down-time if an extra truck is used in lieu of a 5th tank?

Based on PacifiCorp being willing to address this with either an additional truck or an additional tank and that this can be resolved during the design analysis, Eric Kinne agrees this issue is resolved.

Facility Design Criteria document (vers. 6.6, dated May 15, 2006): This document was distributed at the May 17th meeting. No comments were provided by subgroup participants. This document will be considered final. Future revisions (if necessary) will be addressed with

subgroup meeting records to the extent possible. If major changes are identified during the design effort, an amendment memo will be issued.

Tank Loading Plan: Attachment 14 to the Tech Memo was distributed at the last meeting. No comments were received, and this Attachment will be considered final. Dana noted that the information provided in this attachment was utilized for the Tank/Truck loading diagram discussed above, and Attachment 14 is essentially superceded by the Tank/Truck loading diagram.

TRAP & HAUL SORTING FACILITY

Merwin Sorting Facility Scoping Document: Sean Flak distributed copies of the March 7th Scoping document to all participants, which is intended to be a guiding criteria document for civil, structural, mechanical, and equipment needs. It was noted that this will be a living document, to be updated and maintained at the conceptual design progresses. The document could be used in addition to conceptual design drawings for the final design process, for either a conventional design/bid/build, or an Engineer/Procure/Construct (EPC) design and construction effort.

The group reviewed this document in detail at the meeting, led by Sean Flak, Dana Postlewait, and Monty Nigus. The following edits will be incorporated, and a revised draft distributed to the group for use prior to the next meeting.

Section 1.0 – Access:

- 5th bullet: Note that an additional parking space is desired for a WDFW vehicle.
- 6th bullet: Note that any fill shall be kept out of the Ordinary High Water (OHW) level. This will reduce erosion concerns, and will reduce permitting complexity and time.
- Last bullet: State that WDFW will be notified in advance if PacifiCorp needs to utilize some of the parking/turn-around areas for large and infrequent maintenance activities.

Section 2.0 – Fishery Equipment and Features:

- 5th bullet: describe large 3,000 gallon tanks as “main fish holding tanks”.
- Last bullet: note that protocol for surplussing fish “at the Lewis River Hatchery” needs further definition.
- Add information to describe the pre-sorting pond sizing (based on calculation provided as Attachment 15 of the Tech Memo, in November, 2005).

Section 3.0 – Civil-Structural Systems:

- 2nd bullet: Monty noted that the single side wall described for the sorting facility area may be desirable to change to a fully enclosed area. B&V/R2 will work with PacifiCorp to refine goals for this item.

- Provide a bullet for storm drains, and note that surface water will not be routed to any sanitary system.
- Add a bullet stating that the design shall consider provisions for a potential future retrofit of the electro anesthesia system to a chemical system. Needs would include potential holding tanks and means to treat any chemical effluent (on-site or facilities to truck the waste to approved treatment facilities).

Section 4.0 – Mechanical Systems:

- 3rd bullet (regarding facility water supply). Note that a Process & Instrumentation Diagram (P&ID) will be provided for the water supply & drain systems during the design effort. Add a note to address the need for a water supply backup plan in the event that facility performance does not meet the ATE Performance Standards, and changes to the facility (such as more attraction flow or a new fish trap entrance) are identified during the evaluation of the facility. Bryan Nordlund noted that NMFS criteria typically calls for 5% to 10% of the mean daily discharge flow of the power plant to be used for fish attraction flow. He also requested the need to anticipate a 4th fishway entrance be added to the planning document.

Approval to move ahead with conceptual design: The group provided consensus that the design team could begin with laying out conceptual design of the Merwin Trap Adult Sorting facility. Frank Shrier will provide a brief to the ACC on the tank configuration recommendations.

Bryan Nordlund reiterated his concern from last meeting that the design and planning/criteria documents, and the overall design process remain flexible enough and have provisions noted to be able to respond to the results of the fish tracking studies, and the development of the ATE standards. The provisions noted in the water supply section of the Scoping document address these needs, specifically noting the need to consider additional flow at the three powerhouse fish trap entrances, and the potential to consider a fourth fish trap entrance.

Fish Trap Design Schedule Update: The current schedule has been working towards a 30% design submittal by November 30th. This schedule will be tight given the time it has taken to finalize the criteria needs. B&V/R2 are in the process of updating a detailed work plan, and will provide a schedule update at the next subgroup meeting.

FISH TRAP SAFETY IMPROVEMENTS

Sean Flak reviewed the status of the fish trap safety improvements. He has submitted a memorandum with the 90% design to the ACC. Any comments are due from the ACC by July 10th. The most important issue remaining is to reach formal agreement for the proposal to shut down the Merwin Trap entrance at flows above 5,500 cfs, and to utilize the LRH trap entrance when the Merwin Trap entrance is closed.

Sean reported that the final design has already been advertised to construction contractors, with the goal to proceed with construction this summer, soon after the July 10th ACC meeting so any comments can be added to the construction documents.

The only remaining technical issue to be addressed is the installation of a new actuator on the water supply pipe valve on the access bridge. Sean is working to finalize this item, and PacifiCorp will provide either a powered hand actuator, or a hard-wired electrical actuator. Sean will coordinate with Eric Kinne on this item.

FISH TRACKING STUDIES / ATE STANDARDS

Frank Shrier provided an update of the fish tracking studies. They have just tagged the last group of fish, and expect the studies to be complete in the next few weeks. Frank noted that with the first group of Spring Chinook, 32 of the 50 fish released have entered the trap to date. Additionally, three were caught: two in the Lewis River, and one in the Columbia “Zone 3” fishery. Frank is looking into clarifying exactly where the third fish was caught.

R2 will provide a draft report by mid-July, expected to provide ATE estimates of the existing trap based on the radio telemetry studies. Frank noted that the studies with Unit 1 on and off have resulted in observation of some clear fish behavior patterns that may be able to be used to enhance performance.

Updates will be provided to the engineering subgroup at the August 8th meeting. The report, and development of the ATE Standards will be discussed at the August 10th ACC meeting.

SWIFT CANAL UPPER RELEASE AND CONSTRUCTED CHANNEL

Will Shallenberger reviewed the status of the upper release and constructed channel items. The design team is in a holding pattern since reviewing the preliminary design drawings with the subgroup many months ago, pending final guidance on flows splits, and more specific project goals from WDOE. Clarification of the specific goals of habitat improvements, and spawning gravel needs are expected from WDOE when they issue their 401 terms, expected in September.

Will reported that PacifiCorp is close to issuing an RFP for design assistance on the constructed channel. The goals with this project will be for PacifiCorp to review the existing channel and program goals, evaluate alternatives, and report back to the ACC on what type of habitat improvements would be feasible.

The group agreed that holding off on further design makes sense, until more specific guidance is received from WDOE.

STRESS RELEASE PONDS, ACCLIMATION SITES

Frank Shrier reported that PacifiCorp is close to agreement with WDFW regarding property issues on the site selected for the stress release ponds. Once issues are resolved, PacifiCorp will begin looking at the design for this facility.

Frank also reported that site selection and development of the upper basin acclimation sites are on the agenda for the next (July 13th) ACC meeting. The group will visit potential sites, and begin discussions on how many and where the preferred sites should be. Once initial site selection is confirmed, work on permitting will begin. Permitting activities to meet the NEPA/SEPA requirements for specific actions (such as development of the stress release and acclimation sites) will be focused on the land use permits (JARPA, HPA, Shoreline, etc.), since the sites are expected to be on US Forest Service property. The NEPA requirements for the overall activity will be met with the FERC License process.

SWIFT PMF AND DOWNSTREAM FISH PASSAGE

Will Shallenberger provided an overview and PowerPoint presentation of the progress since last April, and future design plans for the Swift Downstream Fish Passage Project. Will characterized his presentation as the “prime the pump” overview, to get team members and the ACC engaged with this project, and to update everyone on the schedule commitments necessary to meet the SA deadlines. The PowerPoint file with Will’s presentation was emailed to the subgroup members during the meeting, which provides a comprehensive summary of the presentation.

The following points were highlighted during the presentation:

- PacifiCorp is ready to begin the preliminary design phase of the downstream project, and will be relying on the subgroup members to meet schedule commitments.
- Will Shallenberger is PacifiCorp’s Project Engineer, and Arnold Adams is PacifiCorp’s Project Manager for the downstream passage project.
- PacifiCorp has done a thorough due diligence review of options for this project, which was described at the April subgroup meeting, and has internally confirmed that the SA alternative is indeed the best approach. Will feels the company has a strong basis on which to proceed, and should be able to address any questions on other alternatives that may come up in the future. The subgroup members present at the April meeting agreed with this assessment.
- The PMF component of the project will be eliminated from the subgroup responsibilities. PacifiCorp performed a feasibility/due diligence review to examine possible synergies that may have existed to combine the PMF update needs with the fish passage project. Based on the results of this review, PacifiCorp has decided to address PMF concerns with a slight dam raise to handle newly calculated PMF flows, which will be performed independently from the fish passage work. This approach will not affect normal operations that could affect the fish passage facilities.

- Will's PowerPoint provided a concise overview of the project background, previous alternatives considered, study outcomes, and summarized site specific challenges to be addressed. A review of the PowerPoint file provides a summary of these issues.
- Since April, PacifiCorp has been in the process of selecting a Preliminary Design Team for this project. PacifiCorp issued an RFP, and evaluated four responsive proposals relative to: Hydraulic Design & Modeling; Fish Passage Engineering; Juvenile Return and Fish Sorting Protocols; Civil, Mechanical, and Electrical Design; and Engineering-Procure-Construct Contract Development. The evaluation process is complete, and PacifiCorp has selected a design to a team composed of:
 - Black & Veatch
 - R2 Resource Consultants
 - Northwest Hydraulic Consultants
 - Art Anderson & Associates
 - Ken Bates
- Will distributed an organization chart for the Preliminary Design Team, and discussed the key areas to be addressed:
 - Collector Location
 - Collector Design
 - Fish Sorting and Transfer
 - Mooring and Access
- The engineering for the team will be led by Brian Friesz of Black & Veatch, and Peter Christensen from R2. Continuity will be provided relative to the upstream passage work with Monty Nigus (B&V) and Dana Postlewait (R2).
- PacifiCorp is interested in exploring an Engineer-Procure-Construct (EPC) contract to develop the downstream passage facilities, which is the goal for the Preliminary Design Team. This means they would like to bid the functional requirements of the facility, and have a design-build team complete the design and construct the final facilities (as a side note, the EPC procurement will also be explored for the Merwin upstream passage facilities).
 - This procurement method will present some design and agency coordination challenges that the subgroup will be involved with as the project progresses. The goal from PacifiCorp's perspective would be to develop the preliminary design of the facilities in the context of "what the fish sees" to the extent necessary for the agencies to accept the preliminary design. Specifics of the supporting structural, mechanical, electrical details would be less important to the agencies, and could be bid out to a separate design team.
 - Pat Klavas commented that he has relevant experience with the Washington State DOT to understand these challenges, and that he is in a good position to assist the subgroup members with developing appropriate EPC contract terms to meet the

agency needs. He also noted that Ken Bates will be a strong resource to help define these contract needs.

- Will provided an example of a phased approach for the project, as described in the presentation:
 - Phase 1 – Install moderate discharge collector and test a few locations if necessary
 - Phase 2 – Increase collector discharge capacity if necessary
 - Phase 3 – Install guidance features if necessary
 - Phase 4 (completion phase) – install permanent location measures if O&M savings are justified.
- The goal is to provide a functional design by May, 2007, and to pursue an EPC contract in the spring/summer of 2007. Will presented upcoming subgroup meeting topics to meet these goals, and provided an overview of available reference information, including:
 - Settlement Agreement provisions regarding performance standards, agency consultation, and implementation schedule
 - Construction photos
 - Preliminary drawings
- Will noted that the schedule is aggressive, but PacifiCorp needs to pursue this due to the SA, and needs to obtain timely agency input to avoid major changes later in the design process.

The following comments were noted from subgroup members.

- Bryan Nordlund noted that he felt Will laid out a good process, and that he'd worked with all of the selected team members with the exception of Art Anderson & Associates, and expected the team and subgroup would be able to anticipate the correct items.
- Curt Leigh offered that he thought the concept of bringing a construction contractor on early, as envisioned with the EPC procurement, was a positive approach.
- Pat Klavas expressed concern with the permitting schedule and the EPC approach, in that the design may not be far enough along to define needs for the land use permits.
- Will noted that permitting would be begun early in the process, immediately upon completion of the functional design, and requested the subgroup's assistance in helping to clearly define these needs to the extent possible.
- Overall the group concurred with the approach, and will gear up to begin this design process.

NEXT STEPS AND OTHER ITEMS

The next design priorities will be:

- Develop a schedule for the Merwin trap 30%, 60%, and 90% design reviews.

- Begin conceptual layout of the Merwin Trap Sorting Facilities.
- Begin examination of improvements to the Merwin Trap fishway entrances.
- Begin initial work on the downstream fish passage project.

PENDING ACTION ITEMS

The following table provides a summary of all pending action items.

Meeting Action Item Summary

SUMMARY OF PENDING ACTION ITEMS (remaining from May 17th meeting)	STATUS
PacifiCorp/B&V/WDFW: Upper Release and Constructed Channel Design Input and Details. See information in review of the April 12 th meeting's action items. Waiting for final flow distribution and clarification of goals for the constructed channel.	Pending until design effort begins again following WDOE guidance. To be available with 401 submittal, estimated by September 1, 2006.
PacifiCorp (Shrier/Flak): Investigate the need for a minor amendment to the SA to address interim safety improvements to the fish trap. Frank spoke with Holly Harwood this period. PacifiCorp will address in the future, in coordination with the ACC.	Pending – future item. May be best to wait and compile any other SA amendments if applicable.
R2 (Postlewait): Prepare draft calc showing size needed for recovery pond, for discussion at next meeting.	Pending – to be completed for August 8 th meeting.
NEW ACTION ITEMS (From June 26th Meeting):	STATUS:
All subgroup members: Review and provide comments to Kimberly McCune for the May 17 th and March 7 th meeting notes. If no comments are received by July 12 th , the notes will be considered final and will be posted to the 2006 ACC Final Meeting Notes web site by Kim.	Pending. Note as complete if no comments received by July 12 th .
PacifiCorp (Shrier): Coordinate to address Bryan's comments regarding needing both biology and engineering support for development of the ATE Standards. Bryan wants input from Michelle Day and ACC biologists with this task, in addition to the engineers.	Pending – Frank Shrier to coordinate agenda item for August 10 th ACC meeting.
PacifiCorp (Shrier): Draft recommendation to the ACC to present the tank configuration recommended by the Engineering Subgroup (four 3,000 gallon tanks, four 250 gallon tanks, and one 400 gallon fish trailer for the sorting facility). Note that design is OK to move ahead while Frank updates the ACC.	Pending, plan agenda item for August 10 th ACC meeting.
PacifiCorp (Shrier): Notify Curt Leigh of any hatchery planning meetings related to criteria and SA terms.	Pending.
B&V/R2 (Nigus/Postlewait): Develop design schedule for sorting facility / trap work	Pending, to be provided for August 8 th meeting.
B&V/R2 (Nigus/Postlewait): Update Merwin Fish Sorting Facility Scope Definition Discussion Draft document, per meeting notes.	Pending. Distribution planned within 2-weeks.
R2 (Postlewait): Send Eric Kinne Harry Senn's Compendium criteria, referenced in the Lewis River Hatchery Design Criteria Document.	Complete via email on 6/27/06.

R2 (Postlewait): Call Mark LaRiviere at Tacoma Power to request an updated brief on the Cowlitz Salmon Hatchery sorting facility redesign.	Pending.
WDFW (Kinne): Call Mark Johnson of WDFW to request an updated brief on the Cowlitz Salmon Hatchery sorting facility redesign.	Pending.
PacifiCorp (Flak, Shallenberger, McCune): Schedule future subgroup meetings through May, 2007.	Pending.

NEXT MEETING

- The next meeting is scheduled for 10:00 am - 5:00 pm, August 8th, at the Merwin Hydro Facility.

FUTURE MEETING DATES

As a reminder, future meeting dates were set for:

- Wednesday, September 20 - Merwin Hydro Facility
- Tuesday, October 31 - Merwin Hydro Facility
- Tuesday, December 12 - Merwin Hydro Facility

Future meeting dates for 2006 will be scheduled by PacifiCorp.

Meeting was adjourned at ~2:00 pm.