

Columbia River Total Dissolved Gas TMDL
Adaptive Management Team (AMT) Meeting
2/12/2008
National Marine Fisheries Service
Portland, OR

Attendance: See list at end.

Action Items:

- Jerry will correct the headings on his graphs before the PowerPoint is posted to the Web.
- A link to the FPC website which contains additional studies will be added to the AMT website.
- Andrew and Agnes will decide how transport should be addressed.
- Bob will check on additional lines of evidence that the tribes, fish agencies, and others want to present to Ecology and DEQ.
- NOAA will give an update on Compass and what they can provide and by when at the next meeting.
- Andrew and Agnes will provide a revised AMT schedule at the next meeting.
- Steve Hasseker (sp?) will present a Comparative Survivability Study at the next meeting.
- Feedback from the ACOE and FPC spill volume reports from the December meeting are due to Andrew and/or Agnes by March 4.
- Comments on the Literature Review are due to Andrew and/or Agnes by March 4.

Meeting Notes:

Andrew went over the agenda and explained the role of the AMT members.

State Standards and Waivers

Andrew explained the state regulations from Washington (see 1 page handout). Agnes explained the Oregon TDG standards. Dan asked why the Camas/Washougal gauge was removed from Oregon's waiver. Agnes said that ACOE did not specifically ask for that site to be included. Rudd said that ACOE discussed whether that was the best location and the intention to keep it in was part of the material. Agnes said that the documents don't explicitly state that. The Gas Abatement Plan (WA) and the Waiver (OR) expire at the end of the 2009 spill season.

The presentation on Resident Fish Impacts was postponed because Mark Schneider could not attend this meeting.

Presentation and Discussion: If the 115% requirement was removed, how would fish passage/survival be affected?

Bob presented his PowerPoint presentation on the removal of the 115% requirement (see AMT website for presentation). A weight of evidence process was used. The reach survival data are from NOAA.

Jerry presented on "The importance of spill in juvenile hydro-system survivals and SARs" (See AMT website for presentation). The juvenile reach survival analysis data was from 1998-2005.

Rudd asked if the ocean indices were weighted. Jerry said that they are weighted towards the first year of ocean productivity because the mortality is greatest in the first year. Only in-river fish (bypassed and spilled) are considered. Jerry needs to correct the headings on some of his graphs before this presentation is posted to the Web. A link to the FPC website with additional studies will also be posted on the Web.

Next steps:

Margaret said that the FPC study shows a strong relation between spill proportion, juvenile survival, and adult survival. Their analysis does not show that if you change the spill by x increment, then the survival will increase by y . Jerry said that the models just show a predictive relationship, and it can't be used to determine a numeric change. The results show a general line of evidence.

Rudd said that the hypotheses don't include transport. John said that in 2004-05 the forebay gauges were removed. Gary said that the hydraulic condition in the tailrace is important.

Andrew asked if there are any other issues besides the six potential Weight of Evidence hypotheses, transport, and Compass. The six potential hypotheses are:

- Juvenile survival at the concrete(dam) under different spill levels
- Juvenile reach survival under different spill levels
- SARs under different spill levels
- Delayed mortality under different spill levels
- Water particle and fish travel time under different spill levels
- Adult survival at the concrete under different spill levels

John asked if the Compass model is going to be used. Margaret recalled from the last meeting that it can't be used until May after the Bi-Op. Gary said that the Compass model would show the difference in survival due to changes in spill. Shane asked if the Compass model included water supply, temperature, turbidity, etc. Gary said no. Shane stated that flows do not reflect fish migration. Margaret said that they are correlated. There was more discussion about how we can't put a number on the regression models used in the weight of evidence method, but Compass can give us these numbers. Andrew and Agnes will discuss transport and how that should be addressed.

Bob said that there are additional lines of evidence that tribes, fish agencies, and others want to present to Ecology and DEQ. He will check with them.

At the next meeting, there will be an update on Compass and what NOAA can provide and when.

At the next meeting, Andrew and Agnes will provide a new AMT timeline/schedule. Nothing will be finalized by the 2008 spill season, so the next goal is the 2009 spill season.

Steve Hasseker (sp?) will present a Comparative Survivability Study at the next meeting.

Andrew wants feedback on the ACOE and FPC spill volume reports from the December meeting. Feedback is due to him and Agnes by March 4. Comments on the Literature Review

are also due by March 4. Andrew and Agnes will review comments and if they think ACOE needs to revise their report from December then they will ask them to do so. Andrew will look for order of magnitude issues and relative numbers in the comments. Agnes said that Mark has finished the literature review and just needs to do the bibliography.

Next meeting: Tuesday, March 11, 2008
 9 AM-12 PM
 National Marine Fisheries Service, Portland

TDG AMT Feb 12, 2008 Sign in Sheet

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