**Department of Energy**

Bonneville Power Administration
P.O. Box 3621
Portland, Oregon 97208-3621

PUBLIC AFFAIRS

August 6, 2010

In reply refer to: DK-7

Douglas Albright
Actuation Test Equipment Company
3393 Eddie Road
Winnebago, IL 61088

**RE: FOIA #BPA-2010-01700-F**

Dear Mr. Albright:

This is the final response to your request for information that you made to the Bonneville Power Administration (BPA) under the Freedom of Information Act (FOIA), 5 U.S.C. 552.

**You requested the following:**
Copies of any HOT Committee meeting agendas, minutes, notes, handouts, overhead slides or other reference materials from these meetings, and; a copy of any tally sheets of funding from DOE BPA to USACE HDC for 2009 and 2010.

**Response:**
BPA has provided all responsive documents in their entirety. There is no charge for your request.

I appreciate the opportunity to assist you. Please contact Laura M. Atterbury, FOIA/Privacy Act Specialist at (503) 230-7305 with any questions about this letter.

Sincerely,

Christina J. Munro
Freedom of Information Act/Privacy Act Officer

Enclosure(s): Responsive Documents

PPEI - HOT Meeting
McNary Dam
21 October (13:00) – 22 October (11:30) 2009
Tentative Agenda

1. 3D CAM Operation Surveys - Dan Ramirez, Calvin Hsieh

2. John Day Blade Sensor - Dan Ramirez

3. Chief Joseph Accusonic Flow Meters and Scintillation Frame Testing (Absolute Flow) - Dan Ramirez, Dan Patla

4. McNary GBO - Dan Ramirez, Pat Keller

5. Bonneville, The Dalles and John Day GBO - Pat Keller, Dan Ramirez

6. Optimization Type 2 (T2) - Bart Rylander

7. Chief Joseph and Dworshak Flow Meter Data to GDACS - Bart Rylander

8. Lower Granite Accusonic Flow Meter "Clean up" - Dan Ramirez

9. Chief Joseph Optimization Type 1 (T1) - Dan Ramirez

10. Health Check - Waylon Bowers

11. Other Items

Participant:
Tom Murphy, BPA, Co-Chair
Larry Haas, HDC, Co-Chair
Carolyn Foote, NWW PM (lead)
Vacant, NWS PM
Daryl Melton, NWP PM
Ed Miska, NWD
Tiffany Newton, BPA
Scott Bennett, Chief Joseph
Rick Emmert, NWW
Bob Stoaks, NWW
Charlie Mack, McNary
Quyen Nguyen, Bonneville
Dave Mackintosh, John Day
Richard Reiner, The Dalles
Frank Salber, The Dalles
Dan Ramirez, HDC
Calvin Hsieh, HDC
Dan Patla, HDC
Richard Nelson, HDC
Bart, Rylander, HDC
Dave Shank, HDC
Waylon Bowers, HDC
Pat Keller, HDC
Pat Tormala, HDC
John Yen, HDC

# Hydro-Optimization Team Meeting
# Corps

**Monday, April 19, 2010**
**12:00 pm – 5:00 pm**

**Tuesday, April 20, 2010**
**8:00 am – 12:00 pm**

**Conference Phone:**

**PARTICIPANT CODE:**

**@ McNary Theater**

**CO-CHAIRS:** Larry Haas (Corps); Tom Murphy (BPA)

**Agenda**

**12:00 pm - 5:00 pm – Day 1**

1 Introductions, review agenda, actions, adopt last minutes, review charter

2. McNary GBO - Dan Ramirez, Waylon Bowers

3. Bonneville, The Dalles and John Day GBO – Waylon Bowers, Dan Ramirez

4. Health Check - Waylon Bowers, Pat Keller

5. Chief Joseph Individual Unit (Units 17-27) Flow Tables for T2 – Dan Ramirez

6. Chief Joseph Accusonic Flow Meters and Scintillation Frame Testing (Absolute Flow) - Dan Ramirez, Dan Patla

7. John Day Blade Sensor - Dan Ramirez

8. 3D CAM Operation Surveys - Dan Ramirez, Calvin Hsieh

9. Chief Joseph and Dworshak Flow Meter Data to GDACS – Richard Nelson

10. Optimization Type 2 (T2) – Larry Haas

11. Lower Granite Accusonic Flow Meter "Clean up" - Dan Ramirez

12. Other Items

**SUBAGREEMENT**

- PPEI Status — Larry Haas

**8:00 am – 12:00 pm – Day 2**

**11:30- 12:00 pm Wrap**

- Review actions items today
- Set next meeting date
- Add new topics for next meeting
- Other???

********** NEXT MEETING TBD*****

## Hydro Optimization Team Consensus Decision Levels

1. I can say an unqualified "yes" to the proposed decision. I am satisfied that the decision is an expression of the wisdom of the group.
2. I find the proposed decision perfectly acceptable.
3. I can live with the proposed decision, although I am not especially enthusiastic about it.
4. I do not fully agree with the proposed decision and need to register my view about it. However, I do not choose to block the decision. I am willing to trust the wisdom of the group.
5. I do not agree with the decision and feel the need to stand in the way of acceptance.
6. I feel we have no clear sense of unity in the Team. We need to do more work before consensus can be reached.

**FCRPS Website**
https://fcrps.usace.army.mil

**user id:**
**password:**

DRAFT

# HOT MEETING
# MCNARY THEATER
# APRIL 19, 2010

**Attendee List**

Sydney Foster – NWW
Leah Wickstrom - NWS
Jordan Fink - NWD
Waylon Bowers - HDC
Nathan Henshaw - HDC
Pat Tormala - HDC
Ben Elder - HDC
John Yen - HDC
Quyen Nguyen – BO
Dan Ramirez - HDC
Dan Patla -HDC
David Mackintosh - JDA
Rick Reiner - TDA
Ed Miska - NWD
Larry Haas – HDC and co-chair
Tom Murphy – BPA and co-chair
Carolyn Foote – NWW PM
Tiffany Newton - BPA
Richard Nelson - HDC

## INTRODUCTION SUMMARY

Larry Haas (Corps – co-chair) led introductions and reviewed the agenda. The draft summary was reviewed from last meeting and not approved yet due to follow up needed. The actions list was reviewed at the meeting.

Larry Haas (Corps) introduced all the project managers for each District office.

**PM's**
Leah Wickstrom – NWS
Carolyn Foote – NWW
Daryl Melton – NWP

## MCNARY GBO TESTING

The committee discussed the challenges for BPA - tracking and measuring performance of all improvements.

Larry Haas (Corps) presented a matrix schedule showing GBO by project for 2010 through 2013. Working on four projects at a time for ordering equipment.

**BON, TDA, and JDA, GBOs – GATE BLADE OPTIMIZER**

John Yen gave an overview of Bonneville, The Dalles, and John Day GBO project. The Bonneville GBO box has been installed and receiving accurate data reading. John presented charts of the flow and valve status and flush command system.

Presented background of McNary's GBO. The project is about 90% complete, and the next step is to write a Users Manual.

Dan Ramirez mentioned he needs to review the second set of data for T1.

Questions were asked about the 1% operating tables and the need to update fish tables, plus involve the fisheries more.

**HEALTH CHECK**

Waylon Bowers (Corps) reported nothing new for Health Check. Currently working on developing a multi-year plan. Currently, monitoring the CAM process.

Questions were asked about what to do with FY10 data and implementation and if alarms show up on the system. What is a health check concept?
The Hot Team discussed the purpose of Health Check and how this helps operators to diagnose a problem if data is off. Ed Miska reported he has written a Health Check "Options Paper" and will distribute to the HOT Team.

**Background on Health Check:** *A monitoring function that examines certain key data to determine if systems are operating as planned. An example could be a system external from GBO that would monitor turbine-generator head, gate angle, blade angle, and power (megawatts) and alarm if these variables are outside the optimum operating point (if effect, a "health check" of the GBO system). An internal health check system could be redundant sensors within a GBO that are compared to determine failure.*

*The general concept health check was approved by the HOT sometime in the past, but has not been implemented to date. There are many reasons for this (priority, specific details of work scope, resources, etc.). The topic continues to generate lively debate. Action item is for Miska to provide HDC with a copy of a health check document he prepared some years ago, and HDC to conduct a brainstorming session to examine the specific proposals, and recommend which, if any, should be implemented.*

**CHIEF JOSEPH INDIVIDUAL UNTIS (17-27) FLOW TABLES for T2**

Dan Ramirez (Corps) reported unit testing starts in May 2010. In the interim, the goal is to gather individual performance data for 11 new units.

Anticipating, no problems on this project, and a summary analysis report about flow meter units will be developed and used for T2 Chief Joseph accusonic flow meter and testing at Kootenay. The next step is to implement a program to get absolute flow meter data.

## CHIEF JOSEPH ACCUSONIC FLOW METERS AND SCINTILATION FRAME TESTING (ABSOLUTE FLOW)

Dan Ramirez (Corps) reported scintillation testing will be conducted in November 2010. The same time as the performance test of unit #11 at Chief Joseph.

Questions were asked about costs between pressure times vs. one day testing. Also, the committee discussed using the Caldon, rather than accusonics due to costs and if testing fails. Unit #7 is scheduled for testing in November 2010 and could be delayed until December 2010.

The Winter Kennedy contract was just awarded for $90K for flushing the unit at Chief Joseph. If scintillation testing goes positively, then scintillation could run across the power house.

Tom Murphy (BPA) asked the HOT Team for feedback on whether to do relative index testing for Chief Joseph for units #17-27 and assess the impacts and benefits first, then make a decision whether to move forward on testing for units 1-16 and evaluate if the same benefit occurs. The HOT Team discussed preparation and advanced planning will be beneficial on this project, and having a contract prepared ahead of time for unit's #1-16 if the test results are positive to move forward on this project.

## JOHN DAY BLADE SENSOR

Waylon Bower (Corps) reported on measuring blade angle sensors at John Day to test for more accurate readings. Currently a leak has been found from a conduit at John Day in the junction box which flooded and destroyed some equipment at the project. The project was inspected to see how many sensors worked. Most sensors are still working, but it's unknown if the upper and lower sensors will work again.

Two possible options were considered to fix the sensor problem.

> #1 – Contact HoodTech to work on this project and develop a plan to assess what sensors worked previously and try to acquire the data to fix the problem.
>
> #2 – Do the sensor work in-house? Need to wait for a dry period to fix the junction box and use existing data in the interim.

The HOT Team discussed the best possible time for an outage and slides were presented showing pictures of the leaking conduit and damage.

Proposal: The HOT Team will request funding from the Capital Workgroup on GBO next week at the Capital Workgroup meeting.

## 3D CAM OPERATIONS SURVEY

Dan Ramirez (Corps) reported another round of surveys was conducted at Walla Walla. Preliminary results have been completed. No real problems were found, except for a few

minor sensor issues at Little Goose and Lower Monumental. Dan mentioned all the transducer, calibration, and reliability issues have been resolved.

**CHIEF JOSEPJ and DWORSHAK FLOW METER DATA TO GDACS**

The HOT Team discussed getting the signal cards purchased and wired into the GDACS I/O.

**LOWER GRANITE FLOW METERS**

Dan Patla (Corps) gave a presentation on Lower Granite flow meters and explained the installation wiring problems of vertical vs. horizontal flow meters.

The HOT Team discussed possible options for fixing the wiring problems and reviewed the wiring installation option for BAY A: path 1 and 18 showed no signal.

The HOT Team discussed getting a copy of the original wiring diagram from Accusonics.

**OPTIMIZATION TYPE 2 (T2)**

Larry Haas (Corps) mentioned nothing new to report, except funding for the subagreement was revised, and Grand Coulee T2 testing is happening. T2 is operating at Chief Joseph, The Dalles, Bonneville, John Day, and McNary.

**FCRPS SHAREPOINT EBSITE**

Ed Miska (Corps) reported the FCRPS SharePoint website is moving forward and asked the HOT Team what type of information does the team want on the HOT website. What type of information should be transferred from the old website to the new website? Ed mentioned that all committees need to designate a point of contact for their site.

Ed Miska (Corps) is currently working on access and permission levels for all committees and asked the HOT Team members to list their user name and ID number on the sign up sheet.

**CHARTER**

The HOT Team reviewed the proposed changes to the charter and made revisions at the meeting. The HOT Team made a few minor edits and decided to eliminate #5 (Oversees and monitors optimization program). Ed Miska (Corps) will make the final edits to the HOT Team charter and distribute the charter back to the team for final review.

Questions were asked about the purpose of the charter and discussed if the HOT Team is operating at the program vs. the project level.

The HOT Team committee discussed how the team makes decisions and mentioned they use the consensus method which works best for the team.

The HOT Team meets 2 to 3 times annually.

**NEXT MEETING**

The HOT Team decided to meet October 13-14, 2010 at McNary Dam.

**ACTION ITEMS**

*1. Waylon Bowers will follow up on purchasing 10 GBO PLC boxes.*

*2. Richard Nelson will remind the Governor Team about the GBO no change in schedule at The Dalles for testing.*

*3. Dan Ramirez will send preliminary e-mailed results of the CHJ testing of unit's #17-27 before the HOT Team makes a decision to go forth with testing of units 1-16.*

*4. David MacKintosh will continue data collection for JDA unit #16 to decide on maintenance needed for the leak of blade sensors and fix the junction box in the dry period (permanent installation or not). Next steps determine repair strategy. Waylon will contac HoodTech on proposal for data acquisition.*

*5. Carolyn Foote will follow up with the Dworshak flow meter accusonic equipment purchase.*

*6. Dan Patla will follow up with aaccusonics to get Lower Granite wiring diagram, firm pricing for permanent installation costs, and schedule for de-watering.*

*7. Ed Miska will follow up on the FCRPS Website SharePoint access for users (HOT Team Committee) and check into FOIA issue about posting draft materials on the site (open or closed files).*

*8. Ed Miska will revise the HOT Team charter with suggested changes and distribute to the HOT Team Committee. The final charter will be posted on the new SharePoint site.*