



Department of Energy

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

FREEDOM OF INFORMATION ACT/PRIVACY PROGRAM

May 3, 2017

In reply refer to: FOIA #BPA-2017-00713-F

Douglas Albright
Actuation Test Equipment Company
3393 Eddie Road
Winnebago, IL 61088
DudleyDevices@Aol.com

Dear Mr. Albright:

This communication serves as Bonneville Power Administration's (BPA) response to your request for agency records made under the Freedom of Information Act, 5 U.S.C. § 552 (FOIA). Your request was received on March 15, 2017 and acknowledged on March 22, 2017.

Request

"...the Agenda and Minutes for the HOT meeting held on November 9, 2016? BPA's response to an earlier FOIA request on November 28, 2016 submitted shortly after this meeting contained a Draft Agenda, but not the actual Agenda and no Minutes were included. Because it's likely that the Agenda and Minutes were still in flux when the FOIA request came in to BPA –Instead of an Appeal, the timing suggests that a second FOIA request may gain the actual Agenda and Minutes. Please include only the Agenda and Minutes without any of their attachments."

Response

In accord with the FOIA requirements, BPA has conducted electronic searches of records in the following agency offices:

BPA Generating Assets and Federal Hydro Projects Operations

Agency records responsive to your request were identified. In accord with the FOIA, BPA is herein releasing 12 pages of responsive records, with no redactions. Your FOIA request BPA-2017-00309-F is closed with all available records provided.

Pursuant to 10 C.F.R. § 1004.7(b)(2), I am the individual responsible for the release and determinations described above.

Fee

There are no FOIA fees applicable to the fulfillment of your request for BPA records.

Appeal

This decision, as well as the adequacy of the search, may be appealed within 90 calendar days from your receipt of this letter pursuant to 10 C.F.R. § 1004.8. Appeals should be addressed to:

Director, Office of Hearings and Appeals,
HG-1, L'Enfant Plaza
U.S. Department of Energy
1000 Independence Avenue, S.W.
Washington, D.C. 20585-1615

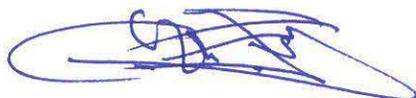
The written appeal, including the envelope, must clearly indicate that a FOIA appeal is being made. You may also submit your appeal to OHA.filings@hq.doe.gov, including the phrase "Freedom of Information Appeal" in the subject line. The appeal must contain all of the elements required by 10 C.F.R. § 1004.8, including a copy of the determination letter. Thereafter, judicial review will be available to you in the Federal District Court either: 1) in the district where you reside; 2) where you have your principal place of business; 3) where DOE's records are situated; or 4) in the District of Columbia.

You may contact BPA's FOIA Public Liaison, Sarah Westenberg, at the address on this letter header for any further assistance and to discuss any aspect of your request. Additionally, you may contact the Office of Government Information Services (OGIS) at the National Archives and Records Administration to inquire about the FOIA mediation services they offer. The contact information for OGIS is as follows:

Office of Government Information Services
National Archives and Records Administration
8601 Adelphi Road-OGIS
College Park, Maryland 20740-6001
Email: ogis@nara.gov
Phone: 202-741-5770; Toll-free: 1-877-684-6448; Fax: 202-741-5769

If you have questions about this communication, you may contact James King, CorSource Technology Group, Inc., assigned to the BPA FOIA office, at jjking@bpa.gov and 503-230-7621.

Sincerely,



C. M. Frost
Freedom of Information/Privacy Act Officer

Enclosed: responsive record

DRAFT SUMMARY

HOT MEETING BPA HEADQUARTERS NOVEMBER 9, 2016 BPA

ATTENDEE LIST

George Brown – BPA, co-chair
Andrew Long – USACE, co-chair
Bent Mouritsen – USBR, co-chair
Erin Foraker – USBR, R&D Office
Dan Ramirez – USACE, HDC
Rick Reiner – USACE, NWP TDA
John Yen – USACE, HDC
Ken Yokohama – BPA

INTRODUCTION SUMMARY

George Brown led introductions and reviewed the agenda.



11-9-2016 HOT
Meeting Agenda-draft.

The actions list was reviewed and revised during the meeting.



HOT Team
Actions-11-9-2016.xls

FLAMING GORGE PERFORMANCE TESTING

Erin Foraker provided the briefing on the USBR and ORNL testing.

- Participants include USBR Dave Hulse, Shanna Durham, John German, Toby Steves and ORNL include Patrick March and Paul Wolfe
- Erin updated that the general finding is that operators were dispatching the units fairly well and could be improved by only about 0.4%.
- The improvement realized is due to properly identifying peak efficiency and therefore improved unit dispatch.
- Performance of all machines was very similar, but they are Francis units.
- Performance characteristics derived from on-line data correlate well with field test measurements.
- Better power scheduling could gain 1.8% efficiency. USBR is looking into doing this.
- They are using the stand alone T2 software to implement the optimization.

GLEN CANYON DAM SCANNING AND MODEL CREATION

Erin Foraker provided the briefing on the USBR, Univ of Tenn, AutoCAD work.

- 3D model of dam, generated by underwater and unmanned aerial scanner. Laser scanning techniques used with accuracy to 1 ft.
- AutoCAD/AutoDesk software being integrated with the scanning technology to create 3D dot models.
- This was an informational presentation that might have some application to optimization and asset management in the future.

JOC/ESC MEETING

The team discussed the JOC/ESC meeting. HOT should stay the course. HOT should continue to pursue plant wide EE efforts. George to circulate comments from the JOC/ESC meeting.

Discussed the idea of requiring an energy efficiency review for applicable capital replacement projects, to assure we are purchasing products with the maximum efficiency that can be justified. Can we discuss a policy for that with the JOC and other management? Should we raise this issue?

INDEX TESTING AT THE DALLES

Andy Long

- Funding still is not coming through, either from the coordination account (Dan Davis) or NREX (Scott Thoren, Chris Allen)
- George and Andy to continue working with their counterparts to investigate funding options
- Also discussed that the team could consider TI funding for FY18.

ENERGY EFFICIENCY DISCUSSION

Andy Long has done some work to investigate Corps capability, but we don't have funding for the proposed pilot project, so not much can be done at this time.

Andy to look into Corps headquarters funding (John Coho).

George to re-connect with BPA Energy Efficiency.

Previously Erin Foraker had mentioned that NREL has an interagency agreement with the USBR and they have some EE expertise. Might be able to access that. Bent to follow up on that.

GBO STATUS AND 3D CAM SURVEYS

Dan Ramirez and John Yen. GBO status and FY16 progress

- ACCS (John Marshall's group) needs to update the software associated with head sensing at TDA. They have a problem with the head sensing which has stalled the GBO work. This has not changed since the last meeting in the Spring.
- Speed sensing criteria is also proving challenging. HDC is working on improving the criteria.

- Do we want to program a testing protocol and stop waiting for online data to naturally accumulate?

Dan Patla, 3D Cam surveys

- HDC hasn't requested funding yet for this year. Jeff Sedgwick will check with Dan Davis about funding this. This should be a base item of work in the coordination account.

STAND ALONE T2 UPDATE

Bent Mouritsen provided an update.

- In a holding pattern, waiting for the improvement to incorporate spinning reserves into the optimization suggestions. This was mentioned at the last meeting.
- USBR is working with GMT and ACCS to integrate these new constraints. Shawn Martin's team is working on this.

BRAINSTORMING – NEW INITIATIVES

- Optimization inventory.
 - HDC to continue working on this.
- User interface tools for T2 and other systems.
 - Ongoing work to understand T2 adoption, use, potential improvements
 - HDC/ACCS to continue looking into this.
- Incentives for operators to maximize efficiency.
 - Not specifically discussed at this meeting
- Energy losses.
 - Relays
 - John Yen suggested looking at relays. How much station service energy do they consume and how much could be saved if we go to solid state?
 - Concerns about reliability of solid state relays.
 - No new developments at this meeting.
- Blade measurement system at JDA Unit 16 has failed, but it never yielded much benefit. Blade measurement remains an optimization topic to consider for the future.
- Short convergent intakes, absolute flow measurement. PTC-18 folks have reached out to the Corps for a test facility. CHJ Unit 11 would be ideal because it has a flow meter and the Corps has done a lot of testing there already. Corps/BPA would have to come up with funding for site support.
 - Renasonic is the vendor
 - Could potentially seek CEATI support and maybe BPA TI funds. BPA solicits for projects in the Spring.
 - No new developments at this meeting.

- Other far-fetched ideas for future thought:
 - Reclaiming heat from the unit and transformer heat exchanges for use in powerhouse heating.
 - Teflon thrust bearings to reduce frictional bearing losses.
 - No new developments at this meeting.

REVIEW ACTION ITEMS

Reviewed and revised new action items list at the meeting.

ANNUAL CHARTER REVIEW

The team reviewed the charter and no changes were suggested.

NEXT MEETING

The next HOT meeting is scheduled for April 19, at BPA.



Hydro-Optimization Team Meeting

November 9, 2016
12:30 pm – 4:00 pm
(PST)

@ BPA Headquarters
Rm. 678

Webex Meeting

<https://usdoe.webex.com/usdoe/j.php?MTID=m92966d743d9df4efda3218f6138762cb>

Meeting number (access code): 998 011 028

Meeting password: cbMjr253

1-650-479-3208 Call-in toll number (US/Canada)

Co-chairs: Andrew Long (USACE-HDC); George Brown (BPA); Bent Mouritsen (USBR)

Agenda

12:30 pm – 4:30 pm

- Introductions (5 min) All
- Review actions (15 min) George Brown
- JOC/ESC meeting summary (15 min) Andrew/Bent/George
- Flaming Gorge Performance Testing Update and other topics (15 min) Erin Foraker
- The Dalles index tests, GBO validation (10 min) Andrew Long/George Brown
 - Funding status update.
- Energy Efficiency Discussion (15 min) Andrew Long
 - Status of scope development for a pilot project
- Status of Ongoing Projects:
 - GBO Status – FY16 Progress (15 min) Dan Patla
 - Brief status update of work that is underway
 - Lessons learned to share with HOT?
 - 3D CAM Ops Surveys – Share results of latest survey (10 min) Dan Patla
 - Stand Alone T2 Software (10 min) Bent Mouritsen
 - Lessons learned to share with HOT?

- Feedback from project operators?
 - Estimates of the plant efficiency improvements resulting from T2.

- GDACS/T2-Optimization (20 min) John Yen
 - Follow up to prior meetings discussion of T2 adoption and use.
 - Strengths and weaknesses of existing T2 tools
 - Potential improvements
 - Tracking plant operations vs. T2 recommendations

- Break (10 min)

- Digital governor inputs into GDACS (15 min) John Yen
 - Detail the additional information that will be flowing into GDACS.
 - Methods to move the data out of GDACS for analysis?

- Discussion of new ideas/initiatives – potential topics: (up to 1.5 hrs) All
 - Review new ideas/initiatives discussed during last meeting. Review last meeting notes.
 - Transformer no-load losses
 - Relays
 - Automatic or real time optimization status tools. Are the optimization sub-systems functioning correctly (i.e. governors, 3-D cams, Kaplan blade position, head sensors, etc).
 - Discuss any other new ideas/initiatives

- Wrap Up (10 min) George Brown, Andrew Long, Bent Mouritsen
 - Review actions items today
 - Set next meeting date
 - Add new topics for next meeting

***** 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.



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***** NEXT MEETING APRIL 19, 2017 at BPA*****

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HOT Team Actions List
11/17/11

5/3/2017

SUBJECT AREA	STATUS	ACTION	RESPONSIBILITY	DATE INITIATED	DUE DATE	STATUS/COMMENTS
Operations	on going	Check with Dan Davis about 3D cam survey funding for FY16 and FY17	Jeff Sedgwick	04/20/16	11/01/16	No action 11/9/2016. Still needs follow up.
Operations	on going	Check on expense funds availability for The Dalles Index Tests, NREX, coordination account, etc	Jeff Sedgwick	04/20/16	11/01/16	No decision as of 11/9/2016. Follow up with Chris Allen again.
Operations	on going	Look into resources available for pilot energy efficiency project. Develop scope schedule, budget.	Andy Long, Erin Foraker, George Brown	04/20/16	11/01/16	11/9/2016 Andy recommends reaching out to Huntsville center. Maybe \$35-\$50K for audit and report. USBR has partnership with NREL, who have EE expertise.
Operations	completed	Flaming Gorge performance test results - powerpoint presentation at future HOT meeting	Erin Foraker	04/20/16	05/01/17	Presented fall 2016
Operations	on going	Transformer no-load and load losses for Corps facilities. Quantify potential efficiency improvements in the form of energy savings due to replacing transformers with models that have lower no-load and load losses (MWh/yr) at each facility. This would aid prioritization of replacement and business case justification.	John Yen	04/20/16	05/01/17	11/9/2016 John will work on this for next meeting. Existing no-load and load losses and new potential losses.
Operations	on going	HDC to compile an inventory of optimization tools/techniques being deployed at each plant/unit.	Dan Ramirez/Dan Patla	10/28/15	05/01/16	11/9/2016 Due date changed to May
Operations	on going	HDC/ACCS to investigate if T2 could be used to log energy lost due to operations decisions. Could aid determination of potential future efficiency incentives.	Shawn Martin	10/28/15	10/20/16	11/9/2016 No update, no action yet.
Operations	on going	HDC to look into potential upgrades related to 3-D cams that should be done in the next 5-years before digital governors are complete. May want to replace the head sensors and stock pile some encoders.	Dan Patla	10/28/15	10/30/16	11/9/2016 No update. Calvin Hsieh helping with this, on-track
Administrative	completed	Prepare a JOC presentation do discuss the topic of HOT roles/responsibilities, coordination with EE, need for a meeting with JOC chairs	George Brown	10/28/15	01/20/16	Shoot for Combined JOC in Boise May 24-25
Operations	on going	HOT to coordinate with Matt Dau on the topic of critical availability and optimizing outage time for maximum power generation. Participate in scoping, reviews, and solutions.	Erin Foraker	04/06/15	04/30/16	11/9/2016 No update. Coordinate over the next year, but implementation will likely extend far beyond that.
Operations	on going	Spearhead the effort to bring digital governor data into GDACS, to facilitate digital governor surveys, and future automatic audits.	John Yen	04/06/15	TBD	Testing at Cougar in June, modbus connection to SCADA. Deployment to GDACS would come after testing and new GDACS architecture 11/9/2016 Deployment of new architecture soon.
Operations	on going	ACCS to investigate issue of T2 adoption and use. T2 is not in use at all plants where it is installed. Are there errors that need to be addressed? Are there user interface issues?	Shawn Martin, Chris Alexander	04/06/15	10/28/15	11/9/2016 No update, no action.
Operations	completed	Begin coordinating with BPA Energy Efficiency for station loads and efficiencies. Produce a consolidated report with all survey results completed to identify any needed survey work.	George Brown and Erin Volz	04/06/15	10/28/15 initiation, no end date	Initiate effort by 10/28/2015 meeting. Will be an ongoing effort. 10/28/2015 update: Continue this work. Erin Volz completed an effort to consolidate info from BPA-EE. -Erin to share the consolidated info from BPA EE with Jeanette. -George to set up a meeting with Jeannette and BPA EE week of Nov 10. -George and maybe Jeanette to brief the Corps JOC about the opportunities for EE projects at the dams and the help that direct funding could provide. A pilot project to complete a comprehensive survey at one dam was also proposed.
Operations	completed	Investigate transformer losses and ability to reduce no load loss, ex. Seasonal opening of HV disconnect switches when units are not needed. Determine plants with highest losses and highest potential for savings. Develop potential operational changes and quantify savings.	John Yen	04/06/15	04/30/16	10/28/2015 update - John to send George estimated transformer no-load losses. George to analyze energy lost due to transformer no-load losses. 4/20/2016 update - potential savings are minor (800 to 3600 MWh/year) at each facility. The value of relatively small in comparison to costs of operational and design changes. John to also look into total transformer efficiency improvement (no load and load losses) that could be used in transformer replacement business cases.
Operations	completed	Spearhead a parallel path to GBO at The Dalles. Generate an SSB for index tests at TDA for 5 base units and 9 optional units. Work with NWP large cap manager to prepare a DSD for presentation at the CWG.	Andrew Long and George Brown	04/06/15	10/28/15	
Administrative	on going	Invite Steve Kerns (BPA) to discuss Deterministic Model and Model with Uncertainty for FCRPS system optimization.	Brown, Haas	03/26/14		at next meeting
Administrative	on going	Distribute survey of ideas to HOT Team for feedback on future efficiency projects	Brown	03/26/14		Check with JOC/ESC at May 2016 mtg
Administrative	completed	HDC will provide a document that will examine trending. Specifically, this document will address trending of major inputs (MW, blade angle, wicket gate stroke, gross head, and flow), as well as functions of these inputs. The document will provide the pros and cons of adding trending to each of these, including-as much as possible-anticipated dollar amounts, impacts on maintenance, and possible implementation. Moreover, HDC will provide a recommended path for implementation.	Bowers, Patla	05/16/12		
Administrative	completed	Invite Dave Brown (Corps) to next HOT Team meeting - background information about ACCS and T2	Brown, Haas	03/26/14		
Operations	Completed	Follow-up on breaker actions - decreases in efficiency gains for REC credits and how they apply. Impacts of Wind.	Brown	11/17/11	05/16/12	George Brown will give the presentation at next meeting.
Administrative	completed	Talk with Mike Alder and Terry Kent about level of team participation for Reclamation	Brown, Haas	05/16/12		
Administrative	completed	HOT Team will provide comments on the charter for next meeting	All	05/16/12	10/25/12	

HOT Team Actions List
11/17/11

5/3/2017

SUBJECT AREA	STATUS	ACTION	RESPONSIBILITY	DATE INITIATED	DUE DATE	STATUS/COMMENTS
Financial	completed	Follow up on Minidoka efficiency calculation	Mouritsen	03/26/14		
Administrative	completed	Charter Review	All	05/16/12		Provide comments on the charter and discuss at next meeting.
Financial	completed	Follow-up on Lower Granite Flow Meter Clean Up contract and timing of funding	KNAAK	11/17/11	05/16/12	Project forces are funded and have been asked to repair the leaking system this FY.
Administrative	completed	Follow up on contact person at McNary to be involved with HOT activities and committee	Patla	11/17/11	05/16/12	There is a NWW POC for the HOT team - why do you need a separate person at MCN? In addition, MCN has a tremendous amount of work for the next several years (e.g. FY18) and is struggling with doing this authorized workload plus their regular workload and additional work, such as HOT projects, may not be doable at this time - particularly if they require any kind of unit outage.
Operations	completed	Follow up on fixing software and unit testing of software issue for McNary GBO	Patla and Bowers	11/17/11	05/16/12	3D Cams off line suspended. No data collection.
Administrative	completed	Follow up on coding issues and feasibility of modifying American Governor contract for Gate Blade Optimization Project	KNAAK	11/17/11	05/16/12	Each KO has their own way to approaching a modification like this. I talked with our KO Chief and she told me that if it was a programming change then it might be within scope of the supply contract under the programming CLIN (so long as it did not change the commissioning) which would require an in-scope mod. However, if the GBO did anything to alter the form, fit or function of the equipment (like add some type of widget) then she would consider it an out-of scope modification which would be challenging to get through since it wasn't what the contractor originally bid on.
Operations	completed	GBO Suspended Unit #19 at TDA - GBO testing at JDA for data collection, and fix units #5, #6, and #11 (other problems for time being)	Patla and Bowers	11/17/11	05/16/12	Pursue funding and modify existing or develop new contract. Need data collection.

	Coordinate the review of all subcommittee lists on website	Alder,	8/8/07	
	Update chart display for performance PM's & distribute to PI team	Kondrat	8/8/07	
	Invite subcommittee reps to PI meeting	Kondrat	8/8/07	draft e-mail before meeting week of 8/13/07
	Resend policy for annual/comprehensive reviews to JOC committee	Modini, Alder	8/8/07	
	Coordinate & Develop project schedule for annual & comprehensive schedule	Modini, Alder	8/8/07	
	Invite subcommittee reps to PI meeting	Kondrat	8/8/07	draft e-mail before meeting week of 8/13/07
	Resend O&M Practices Charter to team	Oldham	8/8/07	
	Provide update on FEM data linkage & process	LaDouceur	8/8/07	
	Send Hydroamp Status Summary	Voss	8/8/07	Steve will follow-up with Gerry Sauve about summary and missing data
	Set up meeting with PDT team RE: Core standards and drawings	Maldonado	8/8/07	
	End-of-Year Update on Small Capital numbers	Voss	8/8/07	Steve Voss will follow-up
	Resend policy for annual/comprehensive reviews to JOC committee	Modini, Alder	8/8/07	
	Coordinate & Develop project schedule for annual & comprehensive schedule	Modini, Alder	8/8/07	
	Coordinate Quarterly Reports on critical PM's for Operational Chiefs/management	LaDouceur	8/8/07	
	Work on updating Clearance's Switchman Training Template Schedule	Rowe	8/8/07	Ron Rowe will gather updated project training and forward for distribution - will get posted on the website
	Funding for FEMS	Modini	8/8/07	Chan will follow-up on \$500k w/Charlie Krahenbuhl
	Update all contact information of projects	all	8/8/07	This is needed to update the Clearance's Switchman training schedule and general contact list
Training topics	Learning management system - update on progress	Training Team		on hold
Capital investments	Coordinate Dashboard presentation at November O&M Conference	Werner	8/8/07	

LookUpTable	
New	1
On Going	2
Completed	3