

MINUTES OF THE REGULAR MEETING OF THE  
BOARD OF DIRECTORS OF THE COLUMBIA BASIN HYDROPOWER  
EPHRATA, WASHINGTON NOVEMBER 27, 2018

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President Alford called the regular meeting of the Columbia Basin Hydropower to order at 9:30 AM.

CBHP Directors

SCBID – Bryan Alford  
SCBID – Richard Conrad  
QCBID – Phil Stadelman  
QCBID – Mike LaPlant  
ECBID – Dennis Mickelsen  
ECBID – Boe Clausen

Other CBHP Directors Attending

J.J. Danz (Alt) - SCBID  
Charles Lyall (Alt) -SCBID  
John Rylaarsdam (Alt) - QCBID  
Bernard Erickson (Alt) - ECBID

Others Attending

Craig Simpson, ECBID  
Doug Pickel, Keys Plant GCPO  
Darvin Fales, QCBID  
Dave Solem, SCBID  
Amy Rodman, USBR  
Sara Millard, USBR  
Michael Hill, Tacoma Public Utilities

Staff

Tim Culbertson, Secretary-Manager  
Anna Franz, Attorney  
Jacob Taylor, Treasurer  
Larry Thomas, Assistant Manager/Hydro Supervisor  
Robert Stoaks, Engineer  
Derek Wolf, Engineer  
Betty Craig, Technical Information Administrator  
Judy Runge, Administrative Assistant  
Stacey Bresee, Data Management Technician  
Diane Smith, Payroll-Accounts Payable Administrator Assistant

Others by telephone

Robin Cross, Seattle City Light

CONSIDERATION OF MEETING MINUTES

Mike LaPlant moved that the minutes of the October 23, 2018 meeting be approved as distributed. Boe Clausen seconded the motion. Motion passed.

ACKNOWLEDGEMENT, REVIEW AND/OR APPROPRIATE CONSIDERATION OF THE FOLLOWING:

Power Production Reports September 2018

Accumulated Kilowatt Hours and Energy and Incentive reports were distributed in Board packets. Total October generation was 95.36% of 2013-2017 average.

Contract 56-16-18, McCoy Power Consultants, Inc.

Contract 56-16-18 was presented to the Board for McCoy Power Consultants to provide Reliability Compliance Consulting Services for 2019 in the amount not to exceed \$49,000.

Phil Stadelman moved to approve McCoy Power Consultants, Contract 56-16-18 for 2019 in the amount not to exceed \$49,000. Boe Clausen seconded the motion., Motion passed.

## TREASURER'S REPORT

### Financial Reports

The October 31, 2018 Balance Sheet (unaudited) and All Power Plants Income Statement (unaudited) were included in the Board packets for review.

### Approval of Voucher

The Current Expense Voucher (O&M) was presented at the meeting for consideration. Check numbering is as follows:

Current Expense Voucher (O&M) - \$1,265,689.09  
Check Numbers: 17608-17694

On motion by Dennis Mickelsen, seconded by Boe Clausen, which motion passed unanimously, the Current Expense Voucher (O&M) dated November 27, 2018 in the amount of \$1,265,689.09 was approved.

## STAFF AND OTHER REPORTS

The following written activity reports, attached and incorporated by reference, were made available for review and comments:

Field O&M Activities (Larry Thomas)  
Engineering (Bob Stoaks)  
Technical Information (Betty Craig)  
Engineering (Derek Wolf)

## OTHER POWER BUSINESS

### Project Development

#### Proposed Task Order No. 13 - Banks Lake Pumped Storage Project - Project Marketing and Due Diligence - Contract 12356-08-14

Task Order No. 13 was presented for the Board's consideration. Kleinschmidt Associates will perform technical services to advance the Banks Lake Pumped Storage Project, to continue the implementation of a Project awareness and marketing program, provide due diligence services, and to advance regulatory processes and approvals necessary to implement the Project.

Mike LaPlant moved to approve Task Order No. 13 in the amount not to exceed \$395,000 subject to the East, South and Quincy Columbia Basin irrigation districts. Dennis Mickelsen seconded the motion. Motion passed.

#### Proposed Task Order No. 14 - Small Hydro Support - Contract 12356-08-14

Task Order No. 14 was presented for the Board's consideration.

Kleinschmidt Associates will perform engineering tasks as requested to support small hydro feasibility, owners engineering services, and permitting. 177

Richard Conrad moved to approve Task Order No. 14 in the amount not to exceed \$50,000 subject to the East, South and Quincy Columbia Basin irrigation districts. Mike LaPlant seconded the motion. Motion passed.

#### Proposed Strategies 360 Agreement

Richard Conrad moved to approve Strategies 360 Agreement for 2019 consulting services subject to the approval of the East, South and Quincy Columbia Basin irrigation districts. Boe Clausen seconded the motion. Motion passed.

#### Columbia River Treaty

#### 2019 Budget

Phil Stadelman moved Tim Culbertson's participation in the CRT Power Group and that payment in the amount of \$3,000 be shared equally among the three Districts for work by Van Ness Feldman for the CRT Power Group subject to the approval of the East, South and Quincy Columbia Basin irrigation districts. Boe Clausen seconded the motion. Motion passed.

USBR – Doug Pickel reviewed, USBR representative gave a presentation on the Keys Plant.

Cities – No report

Districts – No report

#### DATE OF NEXT BOARD MEETING

President Alford announced that the next Board of Directors meeting will be December 18, 2019 as approved by the Board at the September 18, 2018, meeting.

#### RECESS AND RECONVENE

After a five minute recess the meeting reconvened.

#### EXECUTIVE SESSION

At 11:15 AM President Alford called for a 60-minute executive session to discuss personnel issues.

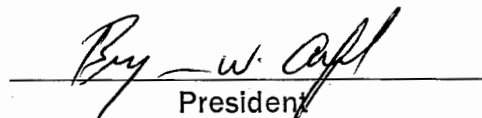
#### RECONVENE

The meeting reconvened at 12:15 PM.

There being no further business to come before the Board, the meeting was adjourned by President Alford at 12:15 PM.



Secretary

  
President

COLUMBIA BASIN HYDROPOWER  
Activity Report

For period October 12, 2018 to November 16, 2018  
Reported by: Larry Thomas Function: Field O&M Activities

Russell D. Smith Power Plant

- . October 12, the plant was shut down at approximately 1600 hours due to low canal flow. The plant remained offline for the remainder of the irrigation season.
- . Maintenance activities included station battery testing and standby generator maintenance.

P.E.C. 66.0 Power Plant

- . October 4, the unit shut down due to low canal flow at 1000 hours. The unit remained offline for the remainder of the season.
- . November 16, a certified asbestos abatement contractor completed removing the generator brakes containing asbestos and cleaning the plant of dust particles.

E.B.C. 4.6 Power Plant

- . October 25, the unit was shut down for the season at 1500 hours.
- . Output ranged from 0.65 MW to 1.0 MW.
- . November 5, the plant was isolated from utility power to facilitate line maintenance requiring the standby generator to run continuously to maintain the drainage system and battery bank charger. Utility power was restored November 15th.

Main Canal Power Plant

- . October 23, the plant was shut down for the season at 1900 hours.
- . Output ranged from 7 MW to 13 MW.
- . Maintenance activities included: servicing the plant drainage system, improving the project communication systems, and inspecting the project's bridge cranes.

Summer Falls Power Plant

- . October 23, the plant was shut down for the season at 2048 hours.
- . Output ranged from 24 MW to 44 MW.
- . Maintenance activities included: removing the penstock discharge valve cylinders for rehab, project bridge crane inspection, and power transformer sudden pressure relay testing.

## Columbia Basin Hydropower

## Activity Report

For Period: October 12, 2018 through November 15, 2018

Reported by: Robert Stoaks P.E.      Function: Engineering

- 1) Summer Fall's transformer sudden pressure relays failed function test, replacements have been ordered.
- 2) Summer Falls Oil Circuit Breaker inspection kits and control valve kits have been ordered to be installed this offseason.
- 3) Main Canal: Investigating a misoperation of the transformer differential relay (87T) during a fault on line near the Stratford substation. The zone 2 distance relay operated correctly, clearing the fault. Reported misoperation to WECC. Next step is to inspect current transformers for indication of cross coupling.
- 4) SCADA/PLC/Relay replacement for all plants: H2E has completed relay and control drawings, and programming. Ordered parts. Awarded panel fabrication. Coordinating communication and outage with USBR.
- 5) Working with Bob K. on microwave communication paths to connect SCADA system.
- 6) Closeout of multiple off-season projects: Calisto installation, 4.6 GSU repair, Spare PT/CT, SF MU Breaker, RDS exciter upgrade, and RDS BU Generator replacement.
- 7) Design of emergency diesel generator transfer switches for Main Canal.
- 8) Design of governor oil heaters for Main Canal and Summer Falls. Ordered oil heaters
- 9) Design of line disconnect for PEC 66.0.
- 10) Performed Battery Capacity test – MC, SF, RDS. One cell at RDS (3 cells per jar, 19 jars per bank) failed during test (half way through test). Replacement battery delivered.
- 11) Performing study to increase efficiency and output of Main Canal and Summer Falls. Gathering information from vendors on efficiency upgrades and costs. Submitted information to Voith and GE.
- 12) Reviewing loadability requirements of PRC-025 to implement at Main Canal and Summer Falls.
- 13) Design of wireless controller for bridge crane in Main Canal shop. Reviewing maintenance practices and making recommendations for improvement.

## Columbia Basin Hydropower

Activities Report for the period of Oct 15<sup>th</sup>, 2018, through Nov 16<sup>th</sup>, 2018.

Derek Wolf, PE Mechanical Engineer

### General:

- Coordinating off-season mechanical maintenance activities at all plants.
- Arranged "Asbestos Awareness" training for all affected employees.
- Solicited quotes and selected a firm to perform a "Good Faith Survey" for asbestos identification in the 5 CBHP maintained powerhouses.
- Arranging training for asbestos worker/supervisor certification for employees through L&I and Blue Mountain Environmental.
- Per request from the state auditor, provided a tour of Summer Falls.

### Main Canal Power Plant:

- Continuing contract work with Halme Builders for constructing the new storage building.
- Troubleshooting sump system issues including potential check valve failure.
- Barrier nets removed from Banks Lake. East-West net is in need of repair this off-season. Will be shipped over to Christensen NetWorks.

### Summer Falls Power Plant:

- Bridge crane analysis performed by Eureka Engineering. Official report of findings still pending.
- Hydraulic cylinders for the Howell Bunger valves have been removed and shipped to Spokane for rebuild.
- GSU fan balance performed on U162 #1 motor.

### RDS Power Plant:

- Work platform installed for electricians to be used for control system upgrades this off-season.

### PEC 66.0 Power Plant:

- Coordinated asbestos abatement of brake dust in the powerplant through All-Safe Abatement out of Kennewick.

## COLUMBIA BASIN HYDROPOWER

## Activity Report

For Period: October 14 through November 17, 2018Reported by: Betty Craig Function: Technical Information Dept.CMMS:

- CASCADE data entry is up to date.
- Project to add all PRC-005 related equipment to CASCADE has been completed.

NERC/WECC COMPLIANCE:

- Reviewed NERC & WECC websites for any upcoming deadlines or revisions to existing standards.
- Annual review of compliance evidence is underway.
- Q3 eGADS reporting is complete.
- Q3 MIDAS (Misoperation) reporting will be completed next week.
- Completed draft 2019 compliance contract for Board consideration.

NETWORKING & COMPUTERS:

- Routine security, maintenance, and verification of nightly backups.
- Assisted users with miscellaneous hardware and software issues.
- Field beta testing of J5 logbook software continues. It is anticipated to be fully functional for startup 2019.
- Replaced failed field unit at Summer Falls.
- Completed scheduled replacement of workstations for Thomas and Stoaks.

HYDRO PROJECT DEVELOPMENT:

- None

RECORDS MANAGEMENT:

- None

OTHER:

- Website updates.
- Plotted numerous drawings for field personnel.
- Renewed notary licenses for SB and BC.
- SB and BC attended Asbestos Awareness Training at MC.