Fall 2022 WORKSHOP
Hydroelectric Productivity Committee
The Peabody Memphis
Memphis, Tennessee
September 25 – 28, 2022

Monday, September 26, 2022
8:00 a.m. – 9:00 a.m.  Breakfast

9:00 a.m. – 10:30 a.m.  General Session: Executive Welcome & Keynote Speaker

10:30 a.m. – 11:00 a.m.  Break

11:00 a.m. – 12:00 Noon  0:45 a.m.
  HP-01: Introductions and Business Updates/Address from Hydro Productivity Committee (HPC) Chairman
  Chris Utracki, Ontario Power Generation (OPG)  David Sanna, United States Army Corps of Engineers (USACE), HPC Chair
  Introductory session will give all members the opportunity to introduce themselves and their companies, as well as share any business updates and "headline news" happening at their companies.

12:00 Noon – 12:15 p.m.
  HP-02: Overview of Volta River Authority
  Dennis Sitsofe Anyomi, Volta River Authority (VRA)
  VRA has rejoined the HPC, and an overview of its operations will be provided.

12:15 p.m. – 1:00 p.m.
  HP-03: Top performance Analysis, Methodology and Results
  Gbadebo Oladosu, Oak Ridge National Laboratory (ORNL) and John Schuknecht, HPC Data Consultant
  In this session, we will examine key findings from the 2022 data cycle and reflect on changes in the business environment. This session is also intended to signal new issues and needs for the Committee to focus on in the upcoming year.

Note: All stated times are Central Daylight
1:00 p.m. – 2:00 p.m.  Lunch

2:15 p.m. – 3:00 p.m.  HP-05: Remote Survey Update

Rob Mager (Task Team Lead), Ontario Power Generation (OPG)
Pierre Lacroix, Hydro Quebec (HQ)

Many hydropower plants are remote and unattended by staff. Discussions have been held at previous workshops on the cost impact of staff travel to these facilities for operation and maintenance tasks. To analyze this potential impact, the HPC has conducted a survey among its members on various key

Note: All stated times are Central Daylight
physical attributes of the commute to these facilities. During this session, the task team will report its findings.

2:45 p.m. – 3:15 p.m. Break

3:15 p.m. – 3:45 p.m. HP-06: Indices for Deflating the HPC Cost Data

Gbadebo Oladosu, Oak Ridge National Laboratory

Evaluation of cost trends across years is best based on values deflated to a common dollar-year. This brief presentation will provide an overview of options for deflating different cost components in the HPC database and make recommendations based on the available data.

3:45 p.m. – 4:30 p.m. HP-07: NB Power’s Maintenance Effectiveness Metrics

Rob Stone, NB Power

NB Power continues to develop and improve metrics that evaluate the effectiveness of their maintenance program. This presentation will describe the metrics used and how they are calculated plus how daily metrics roll up to the Balanced Score Card.

Tuesday, September 217, 2022

8:00 a.m. – 9:00 a.m. Breakfast

9:00 a.m. – 10:00 a.m. HP-06: Various Methods of Benchmarking from a Portfolio Perspective

Rob Mager, Ontario Power Generation Inc. (OPG)

Matt Dau, United States Army Corps of Engineers (USACE)

Stephanie Maggard, Pacific Gas & Electric (PG&E)

Rob Stone, NB Power

The generating unit in a hydropower facility is a major asset and is comprised of two major components: the generator and turbine. HPC members will share their utility’s drivers which determine the inspection and maintenance frequency of the of the generating units in their hydropower fleet. Text to be provided.

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10:00 a.m. – 11:00 a.m. HP-07: Hold for Possible Joint Session with Fossil Committee

11:0045 a.m. – 11:3015 a.m. Break

11:3015 a.m. – 12:15 Noon
15 a.m.   HP-089: Leading Safety IndicatorsHPC Data Presentation – Task Team Update

Clark Bishop, Bureau of Reclamation (BoR)  Greg Bosscawen, PG&E
_________________________ HPC Members
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A survey was conducted prior to the Spring 2021 workshop seeking information on how other committee members would like to retrieve data from the HPC database. A status report of the team’s activities, recommendations and proposed next steps will be provided. To manage the effectiveness of their safety program, some companies utilize leading safety indicators rather than lagging indicators such as recordable injury rate and the number and severity of lost time accidents. The presenters will provide the leading safety indicators and how they are used within their companies.

12:00 Noon – 1:00 p.m. 11:15 a.m. – Noon

HP-09: HPC Member Uses of HPC Data  HP-10: Outage Planning

Clark Bishop, Bureau of Reclamation (BoR), Others TBD

Several HPC members will share how their organization utilizes the HPC cost and performance data within their company.

_________________________ Matt Dau, USACE
_________________________ Chris Utracki, OPG

Messrs. Dau and Utracki will provide the methodologies used by their organizations to plan generating unit outages. Mr. Utracki will demonstrate an excel spreadsheet the computer program used for quick estimates of the impact on water spill and lost revenues by OPG in its outage planning process.

Note: All stated times are Central Daylight
1:00 p.m. – 2:00 p.m. Noon – 1:00 p.m. Lunch

21:00 p.m. – 31:030 p.m. HP-104: ISO 55000 – Pacific Gas & Electric’s Journey to Certification
Water Use Accounting and Optimization

HPC Members

In this session, various HPC members will discuss the processes and tools utilized within their companies to account for available water and how it is optimized for hydropower. This information will be used in the general discussion about the submission of the annual amount spill in the plant performance data. Text to be provided.

31:030 p.m. – 32:3045 p.m. HP-112: Capital Project Portfolio Identification & Prioritization
Hydropower Project Relicensing Expenses

Janel Ulrich, Chelan County Public Utility District, Others TBD

Text to be provided.

Rob Mager, OPG
Stephanie Maggard, PG&E
David Nelson, Chelan County Public Utility District
David Sanna, USACE

Utilities have a fleet of generating units in their generation portfolio which require modifications, upgrades, and major repairs during their service life. These HPC members will share their company’s methodologies used to identify and prioritize capital projects to the maximum benefit.

32:3045 p.m. – 43:0015 p.m. Break

43:0015 p.m. – 54:00 p.m. HP-123: Results of the 2019 Staffing, Property Insurance, and Benefits Surveys

Jim Miller, Signal Hydropower Consultants

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Since the spring workshop, three ad-hoc surveys have been conducted within the HPC membership. One of them is the Staffing level survey. These surveys include the Full Time Equivalent (FTE) labor to staff a hydropower facility, the expense of property insurance and payroll benefits paid to employees. The latter two surveys address questions raised during the July data review meeting. The staffing survey has been conducted almost every year by the HPC to provide the classifications of employees and the number of FTE required to staff a hydropower plant facility on a per unit basis. The other two surveys, payroll benefits costs and insurance costs, address questions raised during the July data review meeting.

4:00 p.m. – 5:00 p.m. HP-14: Hydro Quebec’s IREQ New Technologies
Patrice Blais, HQ

The HPC data review meeting attendees were afforded an opportunity to visit HQ’s IREQ facility located in Montreal. Mr. Blais will provide a look at some additional research work underway at IREQ.

Wednesday, September 218, 202219

8:00 a.m. – 8:30 p.m. HP-15: EUCG – HPC Data Review Follow-Up
Matt Dau, Bonneville Power Administration

The HPC conducted its annual data review in July and the status of the action items will be reviewed. Additionally, a discussion will be held on the tentative dates and locations for the 2020 data review meeting.

8:30 a.m. – 9:00 a.m. HP-16: HPC 2020 Spring Agenda Planning
Chris Utracki, OPG, HPC Chair

During this session we will develop the initial agenda for the spring 2020 HPC meeting. Please come prepared to suggest topics that you would like discussed or where you have something to share with the rest of the committee.

9:00 a.m. – 9:45 a.m. HP-17: HP-19: HPC Business Report
Chris Utracki, OPG, HPC Chair

During this session the committee will discuss its business matters.
9:45 a.m. – 10:15 a.m.  Break

10:15 a.m. - 11:00 a.m.  HP-18: HPC Roundtable & Action Item Review
    Chris Utracki, OPG, HPC Chair & HPC Members
    *In this session, HPC members will be afforded the opportunity to share their feedback on the workshop. Also, any action items taken during the workshop will be reviewed with the responsible committee member noted and due dates given.*

11:00 a.m. – Noon  HP-19: HPC Leadership Meeting
    Chris Utracki, OPG, HPC Chairman; HPC Members
    *The HPC leadership utilizes this opportunity to discuss HPC matters and is open to all members.*