2019 NHA Hydraulic Power Committee
Fall Retreat Agenda
The Hotel Roanoke
110 Shenandoah Avenue, NW, Roanoke, Virginia 24016
October 30 – November 1, 2019

Wednesday, October 30
Tour of American Electric Power’s (AEP) Smith Mountain Dam and Powerhouse
7:50 AM Meet in the lobby of The Hotel Roanoke for departure at 8:00 AM
5:30 PM Arrive at The Hotel Roanoke from the tour
6:00 PM NHA Reception and Dinner – Virginia Transportation Museum
303 Norfolk Avenue, SW, Roanoke VA

Thursday, October 31
Location – The Hotel Roanoke – Crystal Ballroom DE
7:30 AM – 5:00 PM Registration Open
7:30 – 8:00 AM Continental Breakfast
8:00 – 8:30 AM Welcome & Introductions
Malcolm Woolf, NHA, President & CEO
Richard Mickwee, Southern Company, HPC Chair
Jim Thrasher, AEP, Energy Maintenance Superintendent Hydro Generation
8:30 – 8:45 AM Safety Moment
Roger Yeargan, Alabama Power, Hydro Manager – Lower Coosa River System
8:45 – 9:00 AM John Bebber, District Director, Representative Morgan Griffith’s Office (R-VA)
9:00 – 9:30 AM Washington Update
Malcolm Woolf, NHA, President & CEO
9:30 – 9:45 AM History and Function of the Pumped Storage Users’ Committee
Richard Hayes, Oglethorpe Power Corporation, Plant Manager
9:45 – 10:00 AM Morning Break
10:00–11:15 AM  Transformations in the Electric Markets and the Impact to Hydropower Facilities
Changes in the electric markets are driven by the increase in renewable generation from wind and solar along with the closing of coal-based generation. These changes impact the operation of hydropower facilities and this panel representing different industry segments will provide their perspective of these impacts.

Moderator: Dennis Cakert, NHA, Manager of Regulatory Affairs and Market Policy
- Opportunities and Challenges from Changing Hydropower Operations
  Abhishek Somani, Pacific Northwest National Laboratory, Senior Research Economist
- Challenges of Operating Hydropower Resources in the Wholesale Electric Markets
  Jim Davis, Dominion Energy, Electric Market Policy Consultant
- Grid Operator View - Tim Burdis, PJM Interconnection, Manager, Business Operations – Law, Compliance and External Relations
- Synergies of Battery Storage - Greensmith Energy Management Systems, Inc.’s Experience with Battery Storage at AEP’s Buck-Byllesby
  Chris Kuhl, Wärtsilä, Director of Energy Storage Sales

11:15 AM–12:15 PM  Hydro Owner-Vendor Dialogue Session - Turbines, generators, controls and more
Hydro owners rely on equipment manufacturers for a high performing project. This Q&A session with the vendor community and project owners will highlight industry trends, discuss changes and advances in equipment, and answer your technical questions.

Moderator: Steve Wenke, Avista Utilities, Senior Manager Generation Strategy and Planning
- Alan Fox, American Governor, Eastern Region Manager
- Nick Smith, American Babbitt Bearing, Sales Manager / Project Manager
- Scott Smith, Voith, SE Service Manager
- Robert Gallimore, AEP, Plant Manager
- Roger Yeargan, Alabama Power, Hydro Manager
- Jerry DeWeese, Duke Energy, Lead Engineer

12:15 PM–12:30 PM  North American Electric Reliability Corporation (NERC) Generating Availability Data System (GADS) Design Data Update
Steve Wenke, Avista Utilities

12:30–1:30 PM  Networking Lunch – Roanoke Ballroom D

1:30–3:00 PM  Dam Safety
Moderator: Thomas Fitzgerald, Schnabel Engineering, HPC Dam Safety Subcommittee Chair
- FERC Perspective
  David Capka, Director, Division of Dam Safety & Inspection, Federal Energy Regulatory Commission
- Update on Dam Safety Benchmark Survey – What PG&E Learned and Is Doing with the Results
  Eric Van Deuren, Pacific Gas & Electric Co., HPC Vice Chair
- Dam Safety Topic – Overhaul of Smith Mountain Unit 3 Headgate
  Bill Carroll, AEP, Maintenance Supervisor

3:00–3:30 PM  Afternoon Break

3:30–4:00 PM  Hydropower Research Institute (HRI) Update and Case Study
Lisa Martindale, Alabama Power, HPC O&M Subcommittee Chair
4:00 – 4:30 PM  **Operational Excellence (OpEx) Update and User Perspective**  
Jim Miller, Signal Hydropower Consultants, LLC, HPC OpEx Subcommittee Chair  
Ray Chow, Duke Energy, Regulated Renewables Operational Excellence

4:30 – 5:00 PM  **OpEx Discussion**  
Luciana Ciocci, NHA, Manager of Technical Services  
Malcolm Woolf, NHA, President & CEO  
Feedback desired on the below questions:  
- What is working well?  
- Where can it be improved?  
- How do we increase event report submittals?

5:00 – 5:15 PM  **Day 1 Wrap-Up**

5:30 – 7:00 PM  **Waterpower Innovation Council Networking Reception**  
Sponsored by:

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**Friday, November 1**

**Location – The Hotel Roanoke – Crystal Ballroom DE**

7:30 – 11:45 AM  **Registration Open**

7:30 – 8:00 AM  **Continental Breakfast**

8:00 – 8:30 AM  **Operations & Maintenance Session - Stator Winding Failure**  
Don Dolence, Integrated Power Services (IPS), Electrical Engineer

8:30 – 9:40 AM  **Hydro Hot Topics – Operations & Maintenance**  
**Moderator:** Lisa Martindale, Alabama Power, HPC O&M Subcommittee Chair  
- **Smith Mountain Unit 5 - Pump Turbine Overhaul**  
  Kevin Jamerson, AEP, Senior Maintenance Mechanic  
- **Environmentally-Friendly Lubricants: Presentation on recent efforts funded through DOE’s Small Business Innovation Research program**  
  Marisol Bonnet, DOE’s Water Power Technologies Office, Project Manager  
- **Solid Phase Processing Methods for Cavitation Repair**  
  Hellen Jiang, Pacific Northwest National Laboratory, Materials Scientist

9:40 – 10:00 AM  **DOE Update: What’s new in 2020?**  
Marisol Bonnet, DOE’s Water Power Technologies Office, Project Manager

10:00 – 10:15 AM  **Morning Break**

10:15 – 10:45 AM  **Waterpower Innovation Council – Present and Future Activities**  
Jim Thrasher, AEP, Energy Maintenance Superintendent Hydro Generation  
Gerry Russell, American Hydro Corporation, President
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<tr>
<th>Time</th>
<th>Session Description</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>10:45 – 12:00 PM</td>
<td><strong>Installation of Obermeyer Gates</strong></td>
<td>Richard Mickwee, Southern Company, HPC Chair</td>
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<td>Randy Dickenson, AEP, Project Coordinator Hydro Generation</td>
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<td>12:00 – 12:15 PM</td>
<td><strong>Wrap-Up and Adjournment</strong></td>
<td>Richard Mickwee, Southern Company, HPC Chair</td>
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