



## PUMP USERS GROUP

July 18 – 21, 2022

**Hilton Burlington Lake Champlain Hotel  
60 Battery Street, Burlington, Vermont  
Adirondack Ballroom**

[www.pumpusersgroup.com](http://www.pumpusersgroup.com)

Contact [djmiller@mmcglobal.com](mailto:djmiller@mmcglobal.com) for a website login

**Monday, July 18, 2022**

### **Facility Tour & Training – *utility attendees only***

8:30 AM	Shuttle departs for tours/training at Hayward Tyler; front of hotel (utilities only, advance RSVP required). Departure promptly at 8:30 AM for this training day.
3:30 PM	Shuttle returns to hotel from training (estimated time)
3:30 – 4:30 PM	PUG Meeting Registration desk open for badge & material pickup for tomorrow's meeting Adirondack Ballroom Foyer
3:00 PM – 8:00 PM	Exhibitor move-in and set up in Adirondack Ballroom CD

**Tuesday, July 19, 2022**

6:00 – 8:00 AM Breakfast in Montpelier

7:15 - 8:00 AM Registration desk open in Adirondack Ballroom Foyer

<b>General Session # 1</b>		<b>Adirondack Ballroom AB</b>
8:00 – 8:15 AM	Safety/Welcome/Logistics	Ramesh Pandey, Constellation
8:15 – 9:00 AM	Attendee Introductions	All
9:00 – 9:30 AM	OE Part 1	Perrin Williams, Duke Energy Art Miller, South Texas

**9:30 - 10:00 AM Morning Break / Expo visits – Adirondack CD**

10:00 – 10:30 AM	2B1 RCP Seal Flange Inspection	Chris Compton, Duke Energy
10:30 – 11:00 AM	Reactor Coolant Pump Vibration Instrumentation	Art Miller, South Texas
11:00 – 11:30 AM	Age-Related RHR Pump Failure at Hatch	Kim Wilson/Southern Nuclear Watson Tomlinson, Flowserve
11:30 – 12:00 N	Troubleshooting, Diagnosis & Correction of Vertical Hotwell Pump Vibration: Is it the Pump or is it the Motor?	Bethany Merriman, TVA Daniel Orr, TVA Ernie Phillips, RER

**12:00 - 1:00 PM Lunch – Montpelier**

1:00 – 1:30 PM	Continuing Saga of a Charging Pump	Tim Massey, TVA
1:30 – 2:00 PM	Troubleshooting Vertical Pumps Using Advanced Diagnostic Techniques	Laura Farrell, Constellation
2:00 – 2:30 PM	RHRSP Pump and Motor Failure	Brian Rinne, TVA Brent Rodgers, TVA

**2:30 - 3:00 PM Afternoon Break / Expo visits – Adirondack CD**

3:00 – 3:30 PM	Major and Minor Duke OE	Ron Saleeby, Duke Energy
3:30 – 4:15 PM	Back Pullout Pumps: Issues & Upgrades	Ramesh Pandey, Constellation

**4:30 – 6:30 PM Expo Reception****Adirondack CD**

**Wednesday, July 20, 2022**

6:00 – 8:00 AM Breakfast in Montpelier

<b>General Session # 2</b>		<b>Adirondack Ballroom AB</b>
8:00 – 8:10 AM	Safety/Review of Tuesday	Ramesh Pandey, Constellation
8:10 – 9:00 AM	Large Condenser Circulating Water (CCW) Pump Challenges: Owner & Repair Facility Perspectives	Brent Rodgers, TVA Ernie Phillips, RER
9:00 – 9:30 AM	Composite Bearings on Stellite Sleeves: A Winning Combination in CWP's with Saltwater	Greg Gedney, Greene Tweed Ryan Miller, Duke Energy
9:30 – 10:00 AM	PHT Pressurizing Pump Commissioning Problems	James Chin Yut, Bruce Power

**10:00 - 10:30 AM Morning Break / Expo visits – Adirondack CD**

10:30 – 11:00 AM	BNP RRP Seal OE	Ryan Miller, Duke Energy Ron Saleeby, Duke Energy
11:00 – 12:00 N	Case Studies Highlighting Line-Powered, Ethernet Connected, On-Line Vibrations	Gerry Arzani, Duke Energy

**12:00 - 1:00 PM Lunch - Montpelier**

1:00 – 1:30 PM	OE Part 2	Ron Saleeby, Duke Energy Tim Massey, TVA
1:30 – 2:15 PM	Recent Problems & Solutions for Circulating Water Pumps	Tao Wang, FPL Kurt Schumann, ProPump
2:15 – 2:35 PM	Condensate Pump Cavitation in the Discharge Head	Brian Fichtenkort, Entergy

**2:35 - 3:00 PM Afternoon Break / Expo visits – Adirondack CD**

3:00 – 3:30 PM	Refurbishments of Bruce Power Condenser Circulating Water Pumps: Findings & Challenges	James Chin Yut, Bruce Power
3:30 – 4:00 PM	PUG Business, Issues current & anticipated, Election of Third Officer	Ramesh Pandey & PUG Officers

**4:15 PM Meeting ends for the day; Dinner on your own**

**Thursday, July 21, 2022**

6:00 – 8:00 AM Breakfast in Montpelier

<b>General Session # 3</b>		<b>Adirondack Ballroom AB</b>
8:00 – 8:05 AM	Safety/Wednesday Review	Ramesh Pandey, Constellation
8:05 – 8:30 AM	VBM for the Feedwater Pump at River Bend	Art Washburn, Sulzer Aaron Davis, Entergy
8:30 – 9:00 AM	Advanced Nuclear: Not Your Parents' Nuclear Pump Industry	Jeff Belotti, Hayward-Tyler
9:00 – 10:00 AM	Time & Dose Savings Utilizing Split Mechanical Seals	Dave Steffen, Curtiss-Wright

**10:00 - 10:30 AM Morning Break / Expo visits – Adirondack CD**

10:30 – 11:00 AM	Achieving Pump Lifetime Extension & PM Improvements Through Online Monitoring	Ares Panagoulias, Hydro Inc
11:00 – 11:30 AM	Do the Design Assumptions of Large Vertical Pumps Still Hold True Today?	Ben Hardy, Hayward-Tyler
11:30 – 12:15 N	Pump Seal Training	Gregory Haboussa, Stein Seal

**12:15 - 1:00 PM Lunch - Montpelier**

1:00 – 1:30 PM	Feedwater Pump Coupling Failure Analysis	James Anderson, Coupling Corporation of America
1:30 – 2:00 PM	Advanced Field Troubleshooting Testing on a Multistage Centrifugal Pump in High-Pressure Injection Service in a NPP	Tim Lebo, Zachary Mathews, Eric Olson, Mechanical Solutions

**2:00 PM Wrap-up, Adjourn, Depart***Thank you for joining us this year.*