

**FSRUG**Reliability Improvements  
Today for Tomorrow's  
Nuclear Plant Success

**Feedwater & Secondary System Reliability Users Group  
Annual Meeting - January 20-23, 2020  
Embassy Suites San Antonio Downtown Riverwalk  
Majestic C Ballroom**

*Meeting of industry personnel for feedwater and balance-of-plant (BOP) equipment*  
Facilitators: President: Taylor Smith, Comanche Peak  
Vice President: Billy Sharp, Watts Bar

<b>Monday, January 20</b>	<b>Agenda Topics</b>	<b>Presenter</b>
<b>10:00</b>	Welcome – FSRUG History, Logistics, Meeting Objectives, Expectations	FSRUG President - Taylor Smith
<b>10:15</b>	Around the Room – Introductions	all
<b>10:30</b>	INPO Industry Event Insights	Billy Sharp - Watts Bar
<b>10:50</b>	Break	
<b>11:00</b>	2019 Significant FW Events	Billy Sharp - Watts Bar
<b>11:30</b>	Main Feedwater Pump Issues	Amanda Mast - D.C. Cook
<b>12:00</b>	Lunch - Majestic B Ballroom	
<b>13:00</b>	Open Discussion	all
<b>13:15</b>	PM Matrix Discussion	Taylor Smith - Comanche Peak
<b>13:30</b>	2FW009C Body to Bonnet Pressure Seal leak presentation	Josue Salgado - Byron Station
<b>13:50</b>	Break	
<b>14:00</b>	Heater Tube Failure	Michael Evans - Grand Gulf
<b>14:25</b>	Reg Valve Diaphragm Failures	Billy Sharp - Watts Bar
<b>14:50</b>	Break	
<b>15:20</b>	Lessons Learned from FWH replacements	Aaron Potter - Susquehanna
<b>15:40</b>	eFIN Discussion	Taylor Smith- Comanche Peak
<b>15:50</b>	Break	
<b>16:00</b>	Open Discussion	all
<b>16:50</b>	1 <sup>st</sup> Day Wrap-Up	FSRUG President - Taylor Smith

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<b>Tuesday, January 21</b>	<b>Agenda Topics</b>	<b>Presenter</b>
<b>8:00</b>	Day 2 Kickoff Around the Room – Vendor Introductions and Engineers: What's Your Problems?	FSRUG President - Taylor Smith
<b>8:50</b>	Break	
<b>9:00</b>	Eddy Current Training	Merrick Group
<b>9:30</b>	Heat Tempered Embrittlement Isolation Steams	Southwest Research
<b>9:50</b>	Break	
<b>10:00</b>	Vibration Troubleshooting Techniques and Case History for a Horizontal Centrifugal Pump with High Vibration".	Mechanical Solutions, Inc. - Andy Lerche
<b>10:45</b>	Feedwater Heater Tube Leak Online Repair	Jim Johnson - Seabrook
<b>10:50</b>	Break	
<b>11:00</b>	Feedwater Heater Tube Plugging & Repair	Dave Kronen / Curtiss Wright - EST Group Coleton Teplicek / STP Nuclear
<b>11:45</b>	Open Discussion	all
<b>12:00</b>	Lunch - Majestic B Ballroom	
<b>13:00</b>	Drone Inspections (condensers / expansion joint)	Exelon Clearsight
<b>13:45</b>	Open Discussion	All
<b>13:50</b>	Break	
<b>14:00</b>	Inspection, PMs, and Repairs	Oakridge Bellow
<b>14:45</b>	Open Discussion	All
<b>14:50</b>	Break	
<b>15:00</b>	Heat Exchanger Training	Frameatome
<b>15:50</b>	Day 2 Wrap-Up	FSRUG President - Taylor Smith
<b>16:00 – 18:00</b>	Vendor Show (in meeting room)	

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<b>Wednesday, January 22</b>	<b>Agenda Topics</b>	<b>Presenter</b>
<b>8:00</b>	Day 3 Kick-Off	FSRUG President - Taylor Smith
<b>8:10</b>	AZZ Nuclear Dedication / Reverse Engineering Training	AZZ Nuclear (NLI)
<b>8:50</b>	Break	
<b>9:00</b>	Main Feedwater Pump Casing Alignment Issue	Rotating Equipment Repair (RER) - Kurt Weis and Mark Barber
<b>9:25</b>	Feedwater Heater Controls	Westinghouse
<b>9:50</b>	Break	
<b>10:00</b>	Maximizing Wrench Time During an Outage	The Merrick Group - Chris Speas & Keith Owensby
<b>10:30</b>	Main Feedwater Isolation Valve (MFIV) Technology and Retrofits	IMI CCI - Kurt Christianson
<b>10:50</b>	Break	
<b>11:00</b>	Remote Monitoring Training	Power Optimization Center
<b>11:45</b>	Open Discussion	all
<b>12:00</b>	Lunch - Majestic B Ballroom	
<b>13:00</b>	Meeting with Vendors for Feedback, etc.	FSRUG Board
<b>13:20</b>	Torque issues and consequences	Sulzer
<b>13:50</b>	Break	
<b>14:00</b>	Pump Training	Hydro, Inc.
<b>14:50</b>	Break	
<b>15:00</b>	SPV Hardening	Taylor Lewis- VC Summer
<b>15:15</b>	SPV Hardening Open Discussion	All
<b>15:50</b>	Day 3 Wrap-Up	FSRUG President - Taylor Smith
<b>16:00 – 18:00</b>	Vendor Show (in meeting room)	

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<b>Thursday, January 23</b>	<b>Agenda Topics</b>	<b>Presenter</b>
<b>8:30</b>	Last Day Kick-Off Discussion on FSRUG future Requests for new board members	FSRUG President - Taylor Smith
<b>8:50</b>	Break	
<b>9:00</b>	Main Turbine Arcing – Update from last meeting	Billy Sharp - Watts Bar
<b>9:20</b>	Importance of Feedwater Maintenance	Hennigan Engineering Co., Inc./Hepco - Randy Benefield and Ken Marko
<b>9:50</b>	Break	
<b>10:00</b>	Main Feed Water Isolation Valve Air Leak	Kelly Oetting - Point Beach
<b>10:35</b>	Liquid Descaler To Dissolve Calcium	Precision Dynamics
<b>10:50</b>	Break	
<b>11:00</b>	Meeting Critique, lessons learned,	all
<b>11:20</b>	New FSRUG Officer Nominations and Voting	all
<b>11:40</b>	Meeting Wrap-Up and Adjourn	FSRUG President - Taylor Smith
<b>12:00</b>	Lunch - Majestic B Ballroom	