

# 2013 Equipment Qualification Technical Meeting Agenda

---

## ***Dates***

Tuesday - Friday, November 12-15, 2013

---

## ***Location***

Sheraton Sand Key Resort, Clearwater Beach, Florida

---

## ***2013 Advanced EQ Training Course***

Sand Key Room

---

## ***Welcoming Reception***

Poolside

---

## ***Meeting Room***

Palm Bay Room

---

## ***Breakfast & Lunch***

Beach Gulf Room

---

## ***Wednesday Evening Dinner***

Poolside

---

## ***Thursday Evening - Happy Hour***

Beach Gulf Room

---

## ***Friday Afternoon- Golf Tournament***

Bardmoor Country Club

---

**All attendees and their registered guests are welcome to participate in all meals and social events**

## **Tuesday, November 12**

---

### **2013 Advanced EQ Training Course**

**8:30 AM – 5:00 PM**

Rick Weinacht & Brian Morris, Scientech, a business unit of Curtiss-Wright Flow Control Company

This year's advanced EQ Training is on The Theory and Application of Arrhenius Methodology. Participants in the training will leave with an understanding of the history of Arrhenius Theory and the various forms of the Arrhenius equation as they apply to the Environmental Qualification process.

- **Arrhenius Theory Overview**
  - Who is Arrhenius?
  - The premise
  - History and applicability in the nuclear power industry
  - Based on empirical data
- **The Equations**
  - Definition of terms
  - Qualified Life
  - Expected Life/Design Life and Determination & power justification of Safety Factors
  - Accident Degradation Equivalency
  - Test V. Requirements
  - Time-Temperature Regressions
- **Activation Energy (Ea) Selection Criteria**
  - Why can we find the same material having several different activation energies?
  - Safety Function Stressors v. Test Parameters/qualified Life
  - Final Selection Guidelines
  - Examples
- **Example Problems**
  - Reading a Bill of Materials and selecting vulnerable parts
  - Analyzing safety function of vulnerable parts
  - Choosing the right equation
  - Conduction the analysis
  - Writing conclusions

## **Wednesday, November 13**

---

<b>Welcome and Introductions</b>	<b>8:00 AM – 8:15 AM</b>
Opening Remarks/Introductions Rick Weinacht & Brian Morris, Scientech, a business unit of Curtiss-Wright Flow Control Company, - EQDB Bill Horin, Winston & Strawn LLP – Nuclear Utility Group on Equipment Qualification	
<b>EQ Power Suite</b>	<b>8:20 AM – 8:40 AM</b>
<b>EQ Industry Initiatives and Technical Topics</b>	<b>8:45 AM – 1:30 PM</b>
<i>EQ Motor Rewind Material Substitutions, Cable Qualification, EQMS Update</i> _____	<b>8:45 - 9:15 AM</b>
Drew Mantey, EPRI	
<i>Arrhenius Heat Aging and Service Life Prediction for Nuclear Cables</i> _____	<b>9:20 - 9:50 AM</b>
Koksai Tonyali, General Cable Corporation	
<b>BREAK</b> _____	<b>9:55 - 10:05 AM</b>
<i>Accelerated Cable Aging to Predict Service Life: Thermal Aging vs. Oxidation Induction Time (OIT)</i> _____	<b>10:05 - 10:35 AM</b>
Ivan Stannard, Rockbestos-Suprenant Cable Corporation	
<i>Temperature Transient Conformance in Westinghouse AP1000TM LOCA Testing Assurance Technical Services</i> _____	<b>10:40 - 11:10 AM</b>
Andy Clark, Assurance Technical Services	
<b>BREAK</b> _____	<b>11:15 - 11:30 AM</b>
<i>Cable Aging Management and Monitoring Technologies</i> _____	<b>11:30 - 12:00 PM</b>
Chad J. Kiger, Analysis and Measurement Services Corporation	
<b>LUNCH</b> _____	<b>12:00 - 1:00 PM</b>
<i>IEEE 323 and IEC 60780 Harmonization Update</i> _____	<b>1:00 – 1:30 PM</b>
Robert Konnik, Marmon Innovation & Technology Group	
<b>Equipment Development</b>	<b>1:35 PM – 5:00 PM</b>
<i>Extending the Qualified Life of Foxboro Pressure Transmitters at Ft. Calhoun</i> _____	<b>1:35- 2:05 PM</b>
James C. Raines, Fauske & Associates	
<i>Replacement Plan for the EGS Temperature Switch which has Become Obsolete</i> _____	<b>2:10 – 2:40 PM</b>
Ron Golub & Matt Thelen, QualTech NP	
<b>BREAK</b> _____	<b>2:45 - 3:00 PM</b>
<i>Recent EQ Testing of EPAs at QualTech NP</i> _____	<b>3:00 - 3:30 PM</b>
Gary Elam, QualTech NP	
<i>3150 Pressure Transmitter Qualification Update</i> _____	<b>3:35 – 4:05 PM</b>
Jeff Chivers, Rosemount Nuclear	
<i>Severe Accident Equipment</i> _____	<b>4:10 – 4:40 PM</b>
Jim Gleason, GLSEQ, LLC	
<i>Open Discussion</i> _____	<b>4:45 – 5:00 PM</b>
Moderator – Rick Weinacht & Brian Morris, Scientech	
<i>Meeting Adjourn</i> _____	<b>5:00 PM</b>

***Thursday, November 14 (Sample Agenda for Thursday-Final Agenda TBD)***

---

**EQ Regulatory Developments 8:30 AM – Noon**

---

Moderator – Bill Horin, Winston & Strawn LLP

*NRC Inspection and Enforcement Trends* \_\_\_\_\_ 8:30 – 9:15 AM

*NRC Regulatory Initiatives Impacting EQ (Industry Perspectives)* \_\_\_\_\_ 9:15 – 10:15 AM

*Post-Fukushima Actions and Related Activities* \_\_\_\_\_ 10:30 – 11:00AM

*Additional Regulatory Activities Impacting EQ* \_\_\_\_\_ 11:00 – 12:00 PM

**LUNCH** \_\_\_\_\_ 12:00 – 1:30 PM

**EQ Programs and Performance Monitoring (Portions Open to Utilities Only) 1:30 PM – 5:00 PM**

---

Moderator – Bill Horin, Winston & Strawn LLP

*Generic EQ Equipment Issues & Vendor Related Topics* \_\_\_\_\_ 1:30 – 3:30 PM

**CLOSED SESSION – UTILITIES ONLY**

*NUGEQ Utility Experience (OPEX) - Group Information Exchange* \_\_\_\_\_ 3:45 – 5:00 PM

**ADJOURN** \_\_\_\_\_ 5:00 PM

## Friday, November 15

---

### **Obsolescence** **8:00 AM – 9:40 AM**

---

***Nuclear Qualified Proximity Position Sensors – Benefits to Existing Nuclear Power Plants  
Post Fukushima*** **8:00 – 8:30 AM**  
Greg Merrifield, TopWorx-Emerson Process Management

***NUOG Update*** **8:35 – 9:05 AM**  
Josh Bartlett, Scientech

***Qualification versus Commercial Grade Dedication – a Design Perspective*** **9:10 – 9:40 AM**  
Robert Queenan, Scientech

### **International Topics** **9:40 AM – 11:30 AM**

---

***Equipment Qualification Challenges for Nuclear New Build in the UK*** **9:40 – 10:10 AM**  
Scott Raybould, EDF Energy

**BREAK** **10:10 – 10:20 AM**

***Nanoindataion technique for the determination of cable aging  
condition monitoring indicators*** **10:25 – 10:55 AM**  
Marek Tengler, Rizzo and Associates

***Knowledge, Tools and Inspection Criteria for Knowing EQ Equipment  
Has Not Been Compromised*** **11:00 – 11:30 AM**  
Terry Price, Ontario Power Generation

***Meeting Adjourn*** **11:30**