



## Call for Papers 2016 Equipment Qualification Technical Meeting

Opal Sands Resort  
Clearwater Beach, FL  
November 16-18, 2016

Sponsored by  
Curtiss-Wright, Nuclear Division, Scientech  
NUGEQ (Nuclear Utility Group on Equipment Qualification)

Curtiss-Wright, and NUGEQ are jointly sponsoring a technical meeting on nuclear power plant equipment qualification (EQ). The purpose of the meeting is to promote the interface of organizations involved in nuclear industry EQ efforts. Managers and engineers in attendance represent US and international utilities, regulators, manufacturers, national laboratories, commercial test laboratories, and consultants.

### Participation

There is no registration fee for personnel from utilities that are members of EQDB/EQ PowerSuite™ or NUGEQ. There is a \$1,295 fee for non-member participants.

Optional two-day training held Monday and Tuesday is \$1,495 per attendee.

### Preliminary Agenda

The meeting will be held Wednesday, November 16 through Friday, November 18, 2016 at the Opal Sands Resort in Clearwater Beach, Florida. A coordinated schedule of events will be published in advance of the meeting. A preliminary schedule of events is provided below. **Presentations will be integrated into the appropriate Technical Sessions and open to all attendees.**

#### Monday - Tuesday, November 14-15

Monday 8:30am-5:00pm  
Tuesday 8:30am-12:00pm

#### Training (Optional)

**Subject:** The Theory and Application of Arrhenius Methodology in EQ Calculations

#### Tuesday, November 15

Tuesday 3:00pm-5:00pm

#### EQMS Users Group Meeting (Optional)

#### Wednesday, November 16

8:30 a.m.- 12:00 p.m.  
1:30 p.m. – 5:00 p.m.

#### Industry EQ Initiatives

EQ Technical Topics  
EQ Program Topics

#### Thursday, November 17

8:30 a.m.- 5:00 p.m.

#### EQ Topics (Continued)

Regulatory Developments  
Utility Interactions – Plant Topics

#### Friday, November 18

8:30 a.m. - 12:00 p.m.

Utility Interactions – EQ Program Performance  
Utility Interactions – Plant Topics (Continued)



## Call for Papers

Abstracts regarding other topics related to Environmental and Seismic Qualification are welcome and will also be considered. Industry personnel interested in contributing to the technical sessions should submit a presentation abstract of not more than 400 words no later than COB, Friday, **August 26, 2016** to: Rick Weinacht, Manager Nuclear Technical Support. Presentations will be selected based on the subject matter as provided in the abstract and relevance to the broad topics below.

- **CDBI Program Inspections (IP 71111.21N**
- **EQ Involvement with Beyond Design Basis Events (i.e., Fukushima Mods affecting design basis)\***
- **Plant Specific EQ Issues & Challenges \***
- **EQ Test Lab Inputs on New Equipment Qualification, Current Challenges and Improvements on Thermal Aging Methods \***
- **Plant O&E Responses\***
- **Development New EQ Equipment or Materials of Interest\***
- **New Regulatory Issues and the Impact on EQ Programs and EQ Management\***
- **New Plant EQ Parameters, EQ Equipment, and Qualification Topics\***
- **Vendor presentations of equipment designed for new plants and severe/BDE accidents\***
- **Solutions for Obsolescence Issues/Components\***
- **Qualification of Mechanical Equipment\***
- **Equipment Reliability/Failure Rates During Normal 40-Year Life Span\***
- Aging Management Research and Practical Applications
- Utility Experience and Lessons Learned from Self-Assessments
- Update on new plant construction (US and/or international)
- Industry Standards Revisions Impacting EQ
- Industry Activities Related to Equipment Procurement and Obsolescence
- Equipment Condition Monitoring – Costs and Benefits
- NRC Inspection Practice and Experience
- Temperature/Radiation Monitoring – Costs and Benefits
- Inspection, Audit and Assessment Findings
- Implementation of IAEA EQ Program Guidance
- Utility experience with EQ and Licensing of Digital Systems and Equipment
- EQ Program Upgrade; Cost Reduction; Scope Reduction
- EQ Program Health Monitoring – Methods, Benefits and Pitfalls
- EQ Cost Savings Initiatives
- Power Uprate Impact on EQ Programs
- Seismic Qualification Technical and Regulatory Topics

\*Topics with high interest level in surveys.

## Technical Contacts

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## Past EQ Technical Meeting participants include:

AES, Nuclear, Inc.	• ASCO Numatics	Lakeside Process Controls
Ameren-UE	• ASCO Valve	Limatorque Corporation
American Electric Power	• Rosemount Nuclear Instruments	Luminant
Ametek Solidstate Controls	• TOPWORX	Mitsubishi Heavy Industries (Japan)
Analysis & Measurement Services Corporation	Energy Northwest	NAMCO
AREVA Inc.	Engineered Solutions Group	National Inst. of Nuclear Research (Mexico)
Arexisgroup	Energy Nuclear Operations	National Technical Systems
Arizona Public Service Co.	EPM, Inc.	NB Power (Canada)
Assurance Technical Services	Exelon Corporation	Nebraska Public Power Dist.
ATC Nuclear	Fauske & Associates	NEQ Consulting
Atlantic Nuclear Services, Ltd.	FirstEnergy Nuclear	NextEra Energy
AZZ Nuclear	Forsmarks Kraftgrupp AB, Vattenfall	NKW, Inc.
Barton Instruments	FPL Energy	Nuclear Energy Institute
Bechtel	GE-Hitachi Nuclear Energy	Nuclear Logistics, Inc.
Brookhaven National Lab	General Cable Corporation	Nuclear Regulatory Commission
Bruce Power	Glenair	Nuclear Research Inst. Rez (Czech Rep.)
CableLAN Products, Inc.	GLSEQ, LLC	Nuklearna Elektrarna Krško (Slovenia)
Cameron Measurement Systems	Habia Cable AB	Nutherm International
Canadian Nuclear Laboratories LTD.	Henry Controls, Inc. (Canada)	Oak Ridge National Laboratory
CNSC Canadian Nuclear Safety Commision	Hydro Québec (Canada)	Omaha Public Power District
CANDU Owners Group	IEEE-SA	Ontario Power Generation
Chubu Electric (Japan)	Iepson Consulting Enterprises	Pacific Gas & Electric
Clark Testing	Institute of Nuclear Energy Reseach Atomic Energy Council. R.O.C.	Palo Verde Nuclear Generating Station
Comisión Federal de Electricidad	Institute of Nuclear Power Ops	PBMR (Pty.) Ltd. (S. Africa)
Conax Technologies	Japan Atomic Power Company	Phoenix Contact
Constellation Energy	Japan Nuclear Energy Safety Org.	Progress Energy
Contech Inc.	Japan Nuclear Safety Institute	PSEG Nuclear LLC
Curtiss-Wright Nuclear Division Dessau (Canada)	Japan NUS Company, LTD.	Public Service Electric & Gas
DiBenedetto Associates	Kansai Electric Power Co.	RCM Technologies
Dominion Nuclear	KEPCO E&C	Red Wolf Associates
DTE Energy	Kernkraftwerk Leibstadt AG (Switzerland)	Ringhals AB
Duke Energy Corporation	Kinectrics, Inc. (US & Canada)	Rizzo Associates Czech
EDF Energy	Kiran Consultants, Inc. (KCI)	RSCC Wire & Cable LLC
Electric Power Research Institute	Korea Electric Power Corp.	Rotork Controls
Eletronuclear - Angra (Brazil)	Korea Institute of Machinery & Materials	Sandia National Laboratories
Emerson Rosemouont Nuclear Instruments, Inc.	Korea Power Engineering Co.	Sargent & Lundy Engineers



SCANNA/SCE&G  
Schultz Electric Company  
South Carolina Electric & Gas  
Southern California Edison  
Southern Nuclear Oper. Co.  
SNN-SA Cernavoda (Romania)  
Stevenson & Associates  
(Czech Rep.)  
Stone & Webster Engineering  
STP Nuclear Operating Co.  
Strategic Technologies & Resources  
Talen Energy  
TE Connectivity Energy/Raychem  
Teollisuuden Voima Oy (Finland)  
Tenera Environmental  
Tennessee Valley Authority  
Tokyo Electric Power Co. (Japan)  
Tractebel Energy Engineering  
United Controls International  
Ultra Electronics, NSPI  
US Nuclear Regulatory  
Commission  
Valcor Engineering  
Vattenfall AB (Sweden)  
Vectra Technologies  
Wardrop Engineering  
(Canada)  
Washington Laboratories,  
LTD.  
Weed Instrument Company  
Westinghouse Electric Co.  
Winston & Strawn  
Wolf Creek Nuclear Operating Corp.  
Worley/Parsons Group, Inc.  
Xcel Energy