




UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

July 23, 2024

MEMORANDUM TO: Kerri Kavanagh, Chief
Quality Assurance Vendor Inspection Branch
Division of Reactor Oversight
Office of Nuclear Reactor Regulation  Signed by Fitzgerald, Michael
on 07/23/24

FROM: Michael Fitzgerald, Reactor Operations Engineer
Quality Assurance Vendor Inspection Branch
Division of Reactor Oversight
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF THE NUCLEAR REGULATORY COMMISSION
WORKSHOP ON VENDOR OVERSIGHT

On June 13, 2024, the Office of Nuclear Reactor Regulation (NRR), Division of Reactor Oversight (DRO), hosted the Nuclear Regulatory Commission (NRC) Workshop on Vendor Oversight in Baltimore, Maryland. This workshop followed the Nuclear Procurement Issues Committee (NUPIC) vendor meeting to enable maximum participation by suppliers to the nuclear industry. The NRC Vendor Workshop included a keynote address by the Deputy Director, Division of Operating Reactor Licensing, Aida Rivera-Varona, as well as presentations by members of the NRC staff, NUPIC, the Electric Power Research Institute (EPRI), the American Society of Mechanical Engineers (ASME), the National Board of Boiler & Pressure Vessel Inspectors, authorized inspection agency (AIA), reactor licensees and nuclear vendors. This was the 9th Workshop on Vendor Oversight.

The Workshop on Vendor Oversight included a plenary session on such issues as the control of items under Appendix B to 10 CFR Part 50; NRC safety culture; and safety conscious work environment (SCWE) guidelines for vendors. The workshop also included afternoon panel discussions about navigating part 21 and presentations of the different roles of ASME, NB, AIA, and NRC play in the oversight of ASME components.

The audience included approximately 350 attendees representing companies and organizations from 9 countries including vendors, industry groups, government regulatory agencies, and both foreign and domestic utilities.

A list of attendees is provided in Enclosure 1. The list of speakers is provided in Enclosure 2. All presentations are provided in Enclosure 3 and are available in the NRC's Agencywide Documents Access and Management

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301-415-0420

System (ADAMS) at accession numbers in Enclosure 3. The presentations are also available on the NRC public website at <http://www.nrc.gov/reactors/new-reactors/oversight/quality-assurance/vendor-oversight.html>.

Morning Plenary Session

The 9th NRC Workshop on Vendor Oversight began with Ms. Kerri Kavanagh, Chief, Quality Assurance and Vendor Inspection Branch (IQVB) providing safety and logistical expectations for the workshop. Ms. Kavanagh introduced Mr. Russell Felts, Director, Division of Reactor Oversight (DRO) in the Office of Nuclear Reactor Regulation (NRR), for the opening remarks. Mr. Felts welcomed the attendees of the 2024 Workshop and provided remarks about the NRC's mission and principles of good regulation, as well as the importance of the nuclear supply chain. Mr. Felts introduced the keynote speaker Ms. Aida Rivera-Varona, the Deputy Director for Division of Operating Reactor Licensing in NRR.

Ms. Aida Rivera-Varona provided the keynote address from her perspective from nearly 30 years at the NRC. She highlighted the coordination between the NRC staff and the nuclear industry to ensure adequate oversight of vendors was executed during the COVID-19 public health emergency in early 2020, the importance of the NRC's mission in providing reasonable assurance of public health and safety, promoting the common defense and security, and protecting the environment, and how quality assurance programs are essential to delivering high quality SSCs to the nuclear industry. She defined safety culture and discussed the contribution of safety culture to Safety Conscious Work Environment (SCWE). Ms. Rivera-Varona encouraged vendor workshop discussions and urged vendors to ask questions to the staff throughout the day. Ms. Rivera-Varona was also recognized for her leadership in the coordination of the first NRC Workshop on Vendor Oversight in 2008. The keynote was followed by presentation from Mr. Marc Tannenbaum from the Electric Power Research Institute (EPRI).

Mr. Marc Tannenbaum, Principal Technical Executive, EPRI, presented the historical background on Appendix B to 10 CFR Part 50, and the basis for Commercial Grade Dedication (CGD) in 10 CFR Part 21. Mr. Tannenbaum expressed that CGD is an alternative process for accepting a commercial product. He noted that dedication is not a shortcut and the basis of the four methods is found in Criterion VII of Appendix B to 10 CFR Part 50. Mr. Tannenbaum discussed how CGD, as a process, is intended to provide "adequate confidence" or "reasonable assurance" that the dedication is "equivalent to" an item designed and manufactured under an Appendix B quality assurance program. Mr. Tannenbaum highlighted the important aspects to consider when determining whether to procure an item that was designed and manufactured to an Appendix B quality assurance program or to procure the item as commercial grade and perform CGD.

The morning session on "NRC Safety Culture & Safety Conscious Work Environment Guidelines for Vendors" included presentations from the three panel members of the NRC staff: Ms. Carleen Parker, Mr. Odunayo Ayegbusi, and Mr. George Khouri.

Ms. Carleen Parker, Allegation Coordinator, Office of Enforcement, provided a discussion of safety culture and SCWE. Ms. Parker informed the audience of the NRC policy on safety culture, and reminded that the policy is not a regulation, however, is a collective commitment which should include suppliers and vendors. The presentation included NRC's definition of nuclear safety culture, safety culture traits, safety culture common language initiative, NRC's

approach to safety culture, input to the Reactor Oversight Process, event and allegation follow-up, and chilling effect letters.

Mr. Odunayo Ayegbusi, Reactor Operations Engineer, NRC, extended the safety culture topic with a case study on the safety culture challenges at the Chicago Bridge and Iron Lake Charles (CB&I LC) (formerly known as Shaw Modular Solutions) facility and its impact on the quality of items supplied to AP1000 construction sites.

Mr. George Khouri, Construction Project Manager in the Division of Construction Oversight (DCO), Region II, closed the morning session with a presentation on the Safety Culture Issues at Lake Charles Module Fabrication Facility and its impact on Vogtle and VC Summer AP1000 Construction Sites. Overall, the safety culture issues at Lake Charles facility caused a 4-year delay in the construction of the Vogtle AP1000 units.

Panel Session A: Navigating Part 21

Mr. Frankie Vega, Reactor Operations Engineer, NRC, moderated the session, provided opening remarks; and introduced the speakers for the first afternoon panel session.

Mr. Aaron Armstrong, Reactor Operations Engineer, NRC provided a presentation highlighting important practices for navigating Part 21. Mr. Armstrong described reporting requirements under Part 21 including the reporting timeline, responsibilities and described the reporting entity's ability to use other regulations to meet the Part 21 regulation. Mr. Armstrong also provided an overview on Part 21 electronic reporting requirements.

Mr. Earl Mayhorn, Principal Engineer, Ameren (Callaway Energy Center) presented NUPIC's perspective on Part 21. Specifically, Mr. Mayhorn presented important Part 21 aspects covered during the NUPIC joint utility audits, provide an overview of Part 21 reporting avenues and presented several examples of common NUPIC joint utilities audit findings.

Mr. Jeffrey Kaar, Supervisor, Supplier Quality, Pacific Gas & Electric presented on utilities perspective on Part 21. Mr. Kaar presented background information on Part 21, described the process used by PG&E when implementing Part 21 and provided several examples, specific to PG&E, of lessons learned when implementing Part 21 requirements.

Mr. Dan Roberts, Quality Manager, Engine Systems, Inc. (ESI) presented on Part 21 from a vendor perspective. Specifically, Mr. Roberts described ESI's Part 21 implementation process and provided several examples in which ESI had implemented Part 21 requirements.

Mr. Dong Park, Reactor Operations Engineer, NRC, provided an overview of NRC's Technical Review Group (TRG) 21. Mr. Park provided an overview of the NRC's Operating Experience (OpE) and TRG programs. Mr. Park described the specific roles and responsibilities of TRG 21 and explained its value within NRC's oversight function.

Track B: ASME-Oversight and Conformity Assessment

Ms. Andrea Keim, Reactor Operations Engineer, NRC, moderated the session, provided opening remarks, and introduced the speakers for the Track B session.

Mr. Yamir Diaz-Castillo, Reactor Operations Engineer, NRC, presented on the NRC's recognition of ASME's Conformity Assessment Process. Mr. Diaz-Castillo discussed the NRC's

participation in consensus codes and standards and the legal basis. Mr. Diaz-Castillo introduced ASME's Conformity Assessment process, the supporting exchange of correspondence, and how it is endorsed by the NRC through Information Notice (IN) 86-21 "Recognition of American Society of Mechanical Engineers Accreditation Program for N Stamp Holders."

Mr. Michael Lockwood, Vice President Code Services, Hartford Steam Boiler, presented on usage of ASME B&PV Code by industry and foreign countries, and advantages to certification to the purchaser and regulator. Mr. Lockwood presented on the goals of ASME Conformity Assessment and aspects expected to be present in written processes, training, and quality checks. Mr. Lockwood introduced ASME's "Nuclear Certification Program – Applicant Information Handbook" as a resource to parties interested in becoming Certificate Holders. Mr. Lockwood also reviewed the process that certificates are issued by and the types of certificates available.

Mr. Edgar Whittle, Director, Codes & Standards, Bureau Veritas Inspection and Insurance Company, presented on the role of Authorized Inspection Agencies (AIA). Mr. Whittle discussed the basis of qualifications of AIAs from ASME QAI-1-2023 "Qualifications for Authorized Inspection" and the basis from ASME B&PV Code. Mr. Whittle presented on the requirements for accreditation of an AIA and additional responsibilities. Mr. Whittle also presented on the duties of Authorized Nuclear Inspector Supervisors and Authorized Nuclear Inspectors. Mr. Whittle presented on the role of AIAs as they relate to Owner's Certificates, highlighting that only one Owner Certificate is active.

Mr. Gary Scribner, Assistant Executive Director-Technical, the National Board of Boiler and Pressure Vessel Inspectors (NBBI), presented on the relationship between the NRC, ASME, AIA, and the NBBI. Mr. Scribner presented on the qualifications for authorized inspectors, including required experience, examinations, and specific endorsements. Mr. Scribner discussed operational and administrative activities of Authorized Inspectors, including duties, the inspector diary, code of ethics, and resolution of complaints.

NRC Regulatory Updates and Closing Remarks

Ms. Kerri Kavanagh provided closing remarks and opened the floor for questions to be answered by senior NRC staff.

Summary and Conclusions

Several key messages were developed from the interactions during the workshop:

- Rigorous quality assurance and vendor oversight is important to maintaining the integrity of the global supply chain and nuclear safety. The primary responsibility for oversight lies with licensees and vendors with regards to their suppliers.
- Safety culture enhances overall quality by the raising of safety concerns that need to be corrected. Poor safety culture can result in NRC enforcement action. A robust and positive safety culture promotes quality in the global supply chain.
- Ensure Appendix B to 10 CFR Part 50 and 10 CFR Part 21 are imposed in procurement documents. Otherwise, the procurement is not different from procuring a commercial grade item. Original Equipment Manufacturers, for components which they have design control, may transform a product into a safety-related structure, system, or component

(SSC) through the controls within their Appendix B quality assurance program, without the need to procure subcomponents safety-related or dedicate them.

- All parties are required to have procedures to evaluate deviations and failures to comply. While there are alternatives to meeting the Part 21 reporting requirements within regulations, i.e., 10 CFR 50.72/73, all the information required for a Part 21 report must be submitted. Coordination between vendors and licensees in Part 21 reporting is a best practice.
- The NRC is able to incorporate ASME BP&V Code by reference and endorse ASME's Conformity Assessment process through IN 86-21 through the agency's active involvement in consensus standard development and observance of Conformity Assessment activities.

Consistent with the previous vendor workshops, the NRC staff received many questions throughout the day and responded to these questions during the designated question and answer time, as well as the final plenary session at the close of the workshop. Interested parties who sought further clarification on any of the topics discussed during the workshop were encouraged to utilize the Frequently Asked Questions section of the NRC public website, or to contact Michael Fitzgerald at Michael.Fitzgerald@nrc.gov to solicit more detailed responses.

To enhance the next vendor workshop, the NRC solicited suggestions from the attendees. The NRC included a solicitation for suggested topics at future workshops in the workshop program. NRC Public Meeting Feedback forms were also distributed to attendees, and a few public meeting feedback forms were received at the close of the workshop. In general, the attendees expressed interest in the NRC's continued conduct of similar outreach activities and suggested that the NRC continue to coordinate its workshop with the annual NUPIC Vendor Meeting. Additional feedback forms are expected by mail. These feedback forms will be used to improve future vendor workshops and to focus on the appropriate topics at future workshops.

In summary, the workshop brought together regulated utilities, government agencies, nuclear component vendors, and other interested stakeholders to discuss such issues as producing components under an Appendix B quality assurance program, SCWE, Part 21 evaluations and reporting and ASME Conformity Assessment.

Enclosures:

1. List of Attendees
2. List of Speakers
3. List of Presentations

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ON VENDOR OVERSIGHT DATE: July 23, 2024

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OFFICE	NRR/DRO/IQVB	NRR/DRO/IQVB	NRR/DRO/IQVB
NAME	MFitzgerald	ABowie	KKavanagh
DATE	7/23/2024	7/15/2024	7/22/2024

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NRC Workshop on Vendor Oversight
June 13, 2024

Registered Attendee List

First Name	Last Name	Affiliation	Country
Andrea	Boynton	Duke Energy	USA
Chih-Hsiang	Lee	Taiwan Power Company	Taiwan
Zack	Betsill	Southern Nuclear Operations	USA
Marc	Tannenbaum	Electric Power Research Institute	USA
Odunayo	Ayegbusi	NRC	USA
Bill	Simmons	NextEra Energy	USA
Dong	Park	NRC	USA
Roger	Mills	DTE	USA
Katie	Burke	Dominion Energy	USA
Leon	Payne	NB Power	USA
Carleen	Parker	NRC	USA
Cynthia	Larson	AEP-NUPIC	USA
Jon	Talbott	Tennessee Valley Authority	USA
George	Khouri	NRC	USA
John	Ott	Xcel Energy	USA
Joshua	Luppert	Vistra Corp	USA
Katie	Burke	Dominion Energy	USA
Andrea	Keim	NRC	USA
Kaylie	Page	LTS	USA
Guy	Robinson	Entergy Nuclear	USA
Susan	Miller	Talen Energy	USA
Lydia	Heatwole	NextEra Energy	USA
Brian	Vickery	Entergy Operations	USA
Philip	McKenna	NRC	USA
Gerald	Machalick	Tennessee Valley Authority	USA
Ed	Whittle	Bureau Veritas Inspection & Insurance Company	USA
Andreas	Torralba	IBERDROLA	Spain
Ky	Nguyen	HydroAire	USA
Pablo	Ruiz	HydroAire	USA
Jeffrey	Kaar	Pacific Gas & Electric/ NUPIC	USA
Christina	Barnosky	Swagelok	USA
Michael	Dunkelburger	MPR	USA
Robert	Jacobs	Centrus Energy Corp	USA
Gene	Wasson	Hopper Engineering Associates	USA
Patrick	Gergory	Baker Hughes	USA
Robert	Bunz	Wolf Creek Nuclear Station	USA

Herbert	Mayes	Entergy	USA
Yaqoub	Alhasmi	Nawah Energy Company	UAE
Russell	Felts	NRC	USA
Howard	LeCompte	Paragon Energy Solutions	USA
Michael	Hedden	Dominion Energy	USA
Axia	Belen Ojeda	X-Energy LLC	USA
Fawaz	Jabali	General Atomics	USA
Greg	Przyjemski	Talen Energy	USA
Carrie	Brewer	Alden Research Laboratory	USA
Gabrielle	Giobbe	Canadian Nuclear Safety Commission	Canada
Nick	Kerr	Engine Systems Inc.	USA
Zach	Rumora	AMETEK Solistate Controls	USA
Randy	Eubanks	X-Energy	USA
Victor	Romano	ABB	USA
Melanie	Dirks	SOR Controls Group	USA
Brad	Boothe	Acuity Quality Assurance	USA
Rebekah	Needham	Ametek Solidstate Controls	USA
Cindy	Larson	American Electric Power	USA
Dave	Colegrove	Reuter-Strokes	USA
Joseph	Drago	Marathon Consulting Group	USA
Joyce	Hamman	NAC International	USA
Olimpio	Torres	Urenco USA	USA
Dustin	Nuese	Emerson Automation Solutions	USA
Ron	Detwiler	TVA	USA
Jay	Alexander	SAECO	USA
Stanley	Griffin	Vendor	USA
Benjamin	Gordon	Ametek SCI	USA
Walter	Knox	CMC	USA
Wilbert	Meadows	Flowserve	USA
Randy	Hugenroth	Omaha Public Power District	USA
Stew	Shannon	Curtiss-Wright	USA
Sara	Roos	SOR Inc.	USA
Mihai	Pletosu	Ontario Power Generation	Canada
Leanne	Noyes	Curtiss-Wright EMD	USA
Mark	Rhoads	Urenco	USA
Joshua	Hart	Jensen Hughes, Inc.	USA
Leslie	Casey	Jensen Hughes, Inc.	USA
Duska	Jovicic	NEK	USA
Tiffany	Lee	Hayward Tyler, Inc.	USA
Dennis	Snow	NIAC	USA
Cornell	Turrentine	Dynapar DBA Namco Controls	USA
Frank	Yurich	American Crane & Equipment Corp	USA

Milton	Concepcion	Constellation Energy	USA
Ashley	Carter	Morehouse Instrument Co	USA
Steven	Infanti	Morehouse Instrument Co.	USA
Richard	Pruzinsky	Morehouse Instrument Co.	USA
Victoria	Dennis	Tennessee Valley Authority	USA
Troy	Wetzel	American Crane & Equipment Corp.	USA
Quentin	Bourdat	IMI Critical Engineering LLC	USA
Terry	Casteel	Vendor	USA
Dan	Roberts	Engine Systems	USA
Gary	Scribner	National Board of Boiler and Pressure Vessel Inspectors	USA
Diona	Russel	Burns & McDonell	USA
Rodrigo	Da Silva Abreu	Electronuclear	USA
Tracy	Bolt	Westinghouse Electric Company	USA
James	McIntyre	Sargent & Lundy	USA
Raj	Jolly	Bechtel Corp	USA
Tayla	Langbaum	Zeno Power	USA
Alka	Malur	HydroAire	USA
Dan	Hunt	Curtiss-Wright	USA
Richard	Knott	Paragon Energy Solutions	USA
Kenny	Morrison	Paragon Energy Solutions	USA
Gene	Wasson	Hopper Engineering	USA
Earl	Mayhorn	Ameren	USA
Mirinda	Shiner	Curtiss-Wright	USA
Joshua	Grimm	DuBose NES	USA
Dibu	Chowdhury	HydroAire	USA
Rich	Buechler	Zimmerman Inc.	USA
Annemarie	Appleton	Appleton Quality Concepts LLC	USA
Jason	Fellone	BNL Industries	USA
Roger	Sims	Jensen Hughes	USA
Mike	Cox	BWXT AT	USA
Robert	Sizemore	Flowserve	USA
Cody	Soares	Teledyne LeCroy Test Services	USA
John	Karrick	Vistra /CPNPP	USA
Anupama	Kulkarni	United Controls International	USA
Brian	Baxter	Energy Steel	USA
Robert	Fogel	Stantec	USA
Morris	Mitchell	MNES	USA
Paul	Triska	System One Holdings, LLC	USA
Robert	Seipel	SHINE Technologies	USA
Amarpreet	Reen	Kinectrics Inc	Canada
James	McDaniel	Teikoku USA, Inc.	USA
Ron	Burdick	Curtiss-Wright	USA

Bradley	Cellier	Hi Tech Solutions, LLC	USA
Robert	Thompson	Energy Harbor	USA
Justn	Bates	Celeros Flow Technology	USA
Scott	Fairburn	BWX Technologies	USA
Jacob	Lyngdal	Emerson-Fisher Control Valves	USA
Griffin	Eckert	J.F. Brennan Co.	USA
Scott	Baker	Idaho National Laboratory	USA
Daniel	Gonzalez	Fluid Components International	USA
Christian	Tiani	Dynamic Solutions USA	USA
Tom	Cannon	Bruce Power LP	Canada
Bill	Coll	Vistra / Energy Harbor	USA
Amara	Griswold	Integrated Power Services	USA
Gwen	Sarti-Prelle	Constellation Energy Generation	USA
Hal	Koudelka	Mistras Group, Inc.	USA
Bill	Simmons	NUPIC Representative	USA
Todd	Johnson	Curtiss-Wright	USA
Shane	Alsop	BNL Industries	USA
Robert	Villegas	EPRI	USA
Ghassan	Ghrear	Prysmian	USA
Chris	Stanfill	Henry Pratt Co	USA
Brian	Tuteur	Henry Pratt Co	USA
Paul	Gracia	Framatome	USA
Pat	McQuade	Framatome	USA
Tina	Robertson	Westinghouse	USA
Les	Taggart	Taggart Quality Consultants	USA
David	Madsen	Pacific Gas and Electric	USA
Devin	Fitzgerald	Nawah Energy Company	USA
Adrian	Dudu	Societatea Nationala Nuclearelectrica (SNN)	Romania
Yamir	Diaz-Castillo	NRC	USA
C.	Isert	AFF International	USA
William	Davis	Sulzer Pumps (US) Inc.	USA
Timonthy	Kindelberger	Structural Technologies	USA
Tracy	Honeycutt	Southern Nuclear	USA
Thomas	Shearer	Howden USA	USA
Dennis	Segres	SNC	USA
Wiliam	Ross	EnerSys	USA
Yukie	Palmer	Prysmian Cables and Systems	USA
John	Brewer	Nuclear	USA
Benjamin	Gordon	Ametek SCI	USA
Micheal	Annaia	SAECO	USA
Robert	Paton	Energy steel	USA
Deanna	Zhang	NRC	USA
Jennifer	Marinas	Operation Technology Inc	USA

Rachel	Au	Operation Technology Inc	USA
Andrea	Segiet	Curtiss-Wright	USA
Jeffrey	Cartin	Curtiss-Wright	USA
Darrell	Redd	TerraPower	USA
Roberta	Ashdown	Vendor	Canada
Camille	Allred	Salado Isolation Mining Contractors	USA
Veronica	Ballew	Salado Isolation Mining Contractors	USA
Nolan	Wright	InfoTech NorthStar	USA
Seth	Singletary	Electric Power Research Institute	USA
Mike	Lockwood	HBS	USA
Jude	Elwood	MetalTek International	USA
Troy	Wetzel	American Crane & Equipment Corp	USA
Sara	Alzaabi	Nawah	USA
Alan	Bryant	Energy & Process Corp.	USA
Crystal	Allen	Sonic Systems	USA
Paul	Robinson	Ametek	USA
Stephen	Ferrar	Curtiss-Wright	USA
Serena	Patton	CMCSteel Tennessee	USA
Ryan	Joschak	Vendor	USA
Tonya	Jackson	Superheat	Canada
James	Martin	Hayward Tyler	USA
Kari	Osborne	Southern Nuclear	USA
Edgar	Whittle	Bureau Veritas Inspection & Insurance Company	USA
Masato	Ono	Nuclear Regulation Authority	Japan
Kazuyuki	Tomoda	IHI Corporation	Japan
Maria	Padilla	Southern Company	USA
Gayle	Elliott	Framatome	USA
Brian	Ocampos	Orana TN	USA
Lloyd	Mills	PAR Systems	USA
Reema	Agarwai	Ontario Power Generation	USA
Abhijit	Sengupta	USDOE ORP	USA
Kanako	Oshikawa	IHI Corporation	Japan
Meredith	Anderson	Baker Construction	USA
Matthew	Ellis	Hayward Tyler	USA
Ben	Waterland	VSP Technologies	USA
Catherine	McKnight	Sargent & Lundy	USA
Keith	Floyd	Continental Field Systems	USA
Keith	Miller	Sargent & Lundy	USA
Zemenu	Demeke	DNFSB	USA

Solomon	Abdi	DNFSB	USA
Mike	Fussell	PGE	USA
Dominic	Evans	Enercon Services	USA
Ed	Pugh	Enercon Services	USA
Paul	Gladieux	GQM Nuclear Advisors	USA
Jason	Mayse	SIMCO	USA
Richard	McIntyre	Independent	USA
John	Larson	Nebraska Public Power District	USA
Rachel	Czuba	Sonic Systems International LLC	USA
John	Karrick	Vistra/CPNPP	USA
Leonard	Laskowski	PSEG	USA
Stew	Shannon	Curtiss-Wright	USA
Lisa	Brown	Constellation	USA
Sierra	Shaugabay	Sonic Systems International	USA
Bill	Coll	Nuclear Utility	USA
Susan	Miller	Talen Energy	USA
Rachel	Sczurek	ASC	USA
Michael	King	NRC	USA
Tiffany	Lee	Hayward Tyler	USA
Solomon	Abdi	NFSB	USA
Randy	Eubanks	X Energy	USA
Mindy	Villalba	SGS North America	USA
Carol	Riley	Vendor	USA
Alexander	Berndt	IMI Bopp	USA
Terry	Casteel	Toshiba Energy Systems Solution	USA
Brean	Fetterman	Flow America	USA
Marcus	Ledford	Mirion Technologies	USA
James	McDaniel	Teikoku	USA
Glennis	McNeish	Westinghouse	USA
Kaylie	Page	LTS	USA
R.J.	Burns	Laurentis Energy Partners	USA
Alex	Jackson	Weldstar	USA
Dan	Meisch	Weldstar	USA
Al	Pitts	Vendor	USA
Tim	Keller	Nucon International	USA
Paul	Kovach	NUCON International	USA
Leo	Nadeau	Structural Technologies	USA
Donald	Wiwczar	Zachary Nuclear Engineering	USA
Michael	Day	Zachary Nuclear Engineering	USA
Mark	Hand	Howden	USA
Andrew	Douthwaite	PSEG	USA
Manuela	Debegue	Wartsila France SAS	France
Alex	Pizycki	Framatome	Canada

Jessie	Brown	Technetics	USA
Trevor	Nowlan	Framatome	USA
Ada	Bowie	NRC	USA
Kerri	Kavanagh	NRC	USA
Frankie	Vega	NRC	USA
Yiu	Law	NRC	USA
Aaron	Armstrong	NRC	USA
Michael	Fitzgerald	NRC	USA
Deanna	Zhang	NRC	USA
Merrie	Johnson	PG&E	USA
Wilbert	Meadows	Flowserve	USA
Oliver	Bertrand	Wartsila	France
Myriam	Mallas	Wartsila	France
Nathalie	Hubschwerlin	Wartsila	France
Jay	Gardner	Curtiss-Wright	USA
Scott	Dohse	Constellation	USA
John	Burchfield	TNF	USA
R. Scott	Hobbs	United Engineers & Construction	USA
Charles	Elias	InCap Electronics	USA
Dipai	Jani	Curtiss-Wright	USA
Alka	Malur	HydroAire	USA
Timonthy	Czuba	Sonic Systems	USA
Jeffrey	Jacobson	Nuclear Assurance Services	USA
Latia	Gary	Reuter-Stokes	USA
David	Peiffer	Constellation	USA
Jason	Cretelle	Garlock Sealing Technologies	USA
Mark	Papke	Curtiss-Wright	USA
Victor	Cusamano	NRC	USA
Brad	Boothe	Acuity Quality Assurance	USA
Jessi	Roberts	Electric Motor & Contracting	USA
Nicole	Smith	Electric Motor & Contracting	USA
Chuck	Spraggon	STP	USA
Alisha	Johnson-Thomas	Entergy	USA
Cassandra	Patterson	Entergy	USA
Jamie	Weigandt	Kinetics	USA
Jeffrey	Curry	Entergy	USA
James	Jones	Entergy	USA
Brenda	Mills	Entergy	USA
Deborah	Ball	SCL	USA
Anupama	Kulkami	United Controls International	USA
Tracey	Classey	Dominion Energy	USA
Matthew	Harrington	Energy Northwest	USA
Martin	Kurr	Fairbanks Morse Engine	USA
Brian	Baxter	Vendor	USA

Jennifer	Marinas	Operation Technology	USA
Richard	Sammons	Vendor	USA
Martin	Murphy	Curtiss-Wright	USA
Robert	Carvel	Livensee	USA
Greg	Richardson	VSP Technologies	USA
Pablo	Ruiz	HydroAire	USA
Dan	Roberts	Engine Systems	USA
Harish	Vishwanathan	Victoreen, fluke health solutions	USA
Monica	Anderson	Garlock Sealing Technologies	USA
Jessie	Brown	Technetics	USA
Meredith	Armstrong	Consumers Energy Lab Services	USA
Leigh	Skorupskas	Millspaw Electronics	USA
Kyle	Quinn	Curtiss-Wright	USA
Burt	Tanaka	Fluid Components International	USA
Jude	Elwood	Metal Tek International	USA
Gergory	Guokas	SGS	USA
Carrie	Brewer	Vendor	USA
Jesus	Navejas	Constellation	USA
Agustin	Grajales	CFE NPS	Mexico
Nancy	Macias	Flowserve	USA
Jose	Freme	APS	USA
James	Wingfield	Constellation	USA
Doug	Burget	Westinghouse	USA
James	Gaslevic	NRC	USA
Dale	Locke	Public	USA
Richard	Alsop	Leonardo DRS	USA
Patrick	Iyere	Integrated Power Services	USA
Sara	Finley	IPS	USA
Daniel	Hunt	Curtiss-Wright	USA
Paul	Stankiewicz	DRS	USA
Samuel	Moore	Joseph Oat Corp	USA
Christian	Tiani	Dynamic Solutions USA	USA
Gergory	Guokas	SGS	USA
Abigail	Johnson	Leonardo DRS	USA
Brad	Perigo	C&D Technologies	USA
Chris	Alar	Super Radiator Coil	USA
Pamela	Kovach	Nucon	USA
Eric	Draper	Georgia Power	USA
Daryl	Wells	Fluke	USA
Gwen	Sarli-Pelle	CEG	USA
Dennis	Snow	Xylem	USA
Cody	Soares	Teledyne Lecroy Test Services	USA
Allen	Davidson	Curtiss-Wright	USA

John	Ott	Xcel Energy	USA
Julio	Nunez	TFV	Mexico
James	Mena	Leonardo DRS	USA
Jeff	Krauss	Leonardo DRS	USA
James	Spindler	Constellation	USA
Pamela	Cave	Flowserve	USA
Aaron	Roob	Applied Technical Services	USA
Scott	Baker	Battelle Energy Alliance	USA
Ed	Guarino	Constellation Power Labs	USA
James	Wilson	Flowserve	USA
Jasmine	Hampton	Five Star Products, Inc	USA
Sarah	Grumman	Five Star Products, Inc.	USA
Michael	Lockwood	Hartford Steam Boiler	USA

List of Speakers

Speaker	Affiliation
Aida Rivera-Varona	U.S. Nuclear Regulatory Commission
Russell Felts	U.S. Nuclear Regulatory Commission
Kerri Kavanagh	U.S. Nuclear Regulatory Commission
Odunayo Ayegbusi	U.S. Nuclear Regulatory Commission
Carleen Parker	U.S. Nuclear Regulatory Commission
George Khoury	U.S. Nuclear Regulatory Commission
Aaron Armstrong	U.S. Nuclear Regulatory Commission
Dong Park	U.S. Nuclear Regulatory Commission
Yamir Diaz-Castillo	U.S. Nuclear Regulatory Commission
Marc Tannenbaum	Electric Power Research Institute
Earl Mayhorn	AmerenUE
Jeffrey Kaar	Pacific Gas & Electric
Dan Roberts	Engine Systems, Inc
Michael Lockwood	Hartford Steam Boiler
Gary Scribner	The National Board of Boiler & Pressure Vessel Inspectors
Edgar Whittle	Bureau Veritas Inspection & Insurance Company

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