



# N U P I C

NUCLEAR PROCUREMENT ISSUES CORPORATION

Issue: December 2018

## Chair's Message

By: Mark Coren  
Duke Energy

“As we continue to transform and innovate for the future there will be more opportunities...that the industry may be able to take advantage of.”

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## Chair's Message

At the end of 2018 and throughout 2019 it is a very good chance that our industry will continue to change and reshape itself. Throughout the U.S. each nuclear utility is in the process of evaluating its worth and trying to figure out how to remain a viable part of the energy portfolio. Some will be successful and others will need to make some tough decisions. In addition to the utilities making some hard choices many suppliers are doing the same. Each month I hear of a long-time supplier to our industry discontinuing their safety-related QA Program. Although this is a business decision by the suppliers this change often causes the utilities to look for alternative methods for procuring equipment.

Over the past few years we have seen some relief provided from our regulator with regard to conducting audits and commercial grade surveys. The situation that comes to mind first is the change requested by Arizona Public Service back in 2004 that proposed the acceptance of accreditation of commercial-grade calibration services, specifically ANSI/ISO/IEC 17025. The initial request was for domestic calibration services. But now in 2018 we can utilize NEI 14-05A to include international calibration and testing services (ILAC). For more information regarding the use of NEI 14-05A for calibration and testing services please read Earl Mayhorn's article.

As we continue to transform and innovate for the future there will be more opportunities similar to the ILAC process that the industry may be able to take advantage of. I don't want to go into a lot of detail at this point, but to say that the Electric Power Research Institute (EPRI), Nuclear Energy Institute (NEI) and NUPIC are working on another potential opportunity. EPRI and NEI have been researching the possibility of procuring and accepting digital equipment for nuclear safety-related applications that have a safety integrity level (SIL) certification. As stated in the NEI draft document NEI 17-06 "making use of internationally accredited SIL certification services benefits licensees and their suppliers through reduced cost, expanded access to expert services, improved standardization on equipment quality evaluations, and improved regulatory confidence. Hopefully by the end of 2019 we will have approval to utilize the SIL process as another innovative way to procure safety-related equipment.

There are more opportunities out there that need to be researched and proven as an acceptable alternative. As the saying goes, "keep thinking outside the box." Maybe way outside.



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NUCLEAR PROCUREMENT ISSUES CORPORATION

## AUDITOR INDEPENDENCE

*By: John Simmons (Luminant)*

Auditor independence continues to be a topic of discussion with suppliers during NUPIC audits. Especially in regard to personnel who perform audits of the internal audit process that were considered by the audit team to have direct responsibilities in this area contrary to 10CFR50 Appendix B Criterion XVIII. Some suppliers have continued to have the same individual perform their annual internal audit year after year which results in this individual typically evaluating an audit they previously performed in order to evaluate the implementation of the supplier's internal audit process.

Recently, NUPIC issued a letter (ADAMS ML18179A347) to the NRC requesting interpretation of 10CFR50 Appendix B Criterion XVIII, Audits, specifically concerning the requirement that audits be performed by appropriately trained personnel not having direct responsibilities in the areas being audited. The request for interpretation of this requirement was based on NUPIC audits continuing to identify instances where suppliers are performing a single internal audit annually to verify compliance with all aspects of the quality assurance program utilizing the same person to perform the supplier's internal audit in consecutive years. The same internal auditor utilizes the previous internal audit as objective evidence to determine if the supplier is complying with Criterion XVIII of 10CFR50 Appendix B. By utilizing the previous internal audit as objective evidence to assess compliance with the internal audit controls of the supplier's QA program and 10CFR50 Appendix B, it is the position of NUPIC that the auditor is evaluating their own work. This position appeared to be consistent with NRC Inspection Procedure 43002 which requires verification that auditors are not auditing their own work during NRC inspection of this area. NUPIC requested an interpretation from the NRC based on the following question:

With regard to appropriately trained personnel not having direct responsibilities in the areas being audited, would this requirement be met if an individual responsible for evaluating the internal audit controls during an annual internal audit utilized the internal audit from the previous year performed by the same individual as objective evidence that the supplier's internal audit controls were in compliance with the supplier's QA program and 10CFR50 Appendix B Criterion XVIII?

NRC provided the following response (ADAMS ML18179A348):

"If a person performed an audit of the previous audit (for which the person was directly responsible) with the twin goals of verifying compliance with Criterion XVIII aspect of the quality assurance program and determining the effectiveness of the previous Criterion XVIII audit, then the audit of the Criterion XVIII aspect of the previous audit likely would not meet the "not having direct responsibilities" clause of Criterion XVIII.

However, if a person simply noted the existence of the previous audit (for which the person was directly responsible), but made no assertions concerning compliance or effectiveness of the previous audit, then the practice likely would not run afoul of Criterion XVIII. Noting the existence of the previous audit is not the same as carrying out an audit of the previous audit. In this scenario, another individual would be required to do the audit to verify the effectiveness of the previous internal audit consistent with the requirements of Criterion XVIII."

Based on the NRC response, the following condition is not considered acceptable where suppliers perform only one internal audit each year evaluating all elements of their QA program for effective implementation and compliance with 10CFR50 Appendix B:

The same internal auditor who performed the previous internal audit of the supplier's QA program (including internal audit process) utilizes the previous internal audit as objective evidence to determine compliance/effective implementation of Criterion XVIII of 10CFR50 Appendix B.



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## RICH MCINTYRE RETIRES FROM THE NRC

By: Earl Mayhorn (Ameren)

For those of you who have not heard, Mr. Richard McIntyre retired from the US Nuclear Regulatory Commission effective June 30, 2018. Mr. McIntyre ended a very successful and decorated 34 year career with the NRC. At the time of his retirement, Mr. McIntyre was a Senior Reactor Operations Engineer in the NRC's Office of New Reactors. Mr. McIntyre also served as an acting Branch Chief for a period of time. Prior to joining the NRC in 1984, he worked at ITT Grinnell in Providence, RI for nine (9) years in the design engineering organization.



During his time with the NRC, Mr. McIntyre served as a vendor inspection team leader in the Office of Inspection and Enforcement, the Office of Nuclear Reactor Regulation and in the Office of New Reactors. His considerable experience related to quality assurance, procurement, and commercial-grade item dedication made Rich a valuable asset to the NRC and the nuclear industry. Mr. McIntyre was a significant contributor in the development of NRC's commercial grade dedication guidance provided to industry in the late 80s and early 90s and was a participant on the EPRI Technical Advisory Group that revised the EPRI NP-5652 Dedication Guideline (3002002982) that was issued in September 2014.

In 2009, Mr. McIntyre received the NRC Meritorious Service Award in recognition of sustained outstanding service to the NRC in support of oversight of the design, licensing, and construction of commercial nuclear reactors, including agency efforts to improve the quality of parts and services provided to commercial nuclear power reactors.

Mr. McIntyre was the NRC's representative on several ASME Section III and ASME NQA-1 committees for over 20 years, and at the time of his retirement was the Chair of the ASME Section III Subgroup on General Requirements. In October 2017, Rich was awarded the *2017 NQA Outstanding Service Medal*. In November 2017, Rich received the *ASME Dedicated Service Award* for his years of service to ASME Section III Committee on Nuclear Certification.

In 2004, Mr. McIntyre began serving as NUPIC's primary contact to the NRC, replacing Mr. Joe Petrosino in this capacity. Over the years, Rich has provided countless presentation during NRC Workshop, NUPIC Vendor Meeting, and other industry forums. His presentations were always well received as Rich never shied away from the tough topics or questions. Also, Rich is known for his energy and passion for interacting with licensees, procurement personnel, and suppliers of services and components to the nuclear industry.

While, NUPIC and the industry's positive and constructive interactions with the NRC will no doubt continue, Mr. McIntyre will be missed. Rich indicated that during his retirement, he will spend more time with his family and more traveling. However, do not be surprised if Rich resurfaces in some capacity to continue his service to the nuclear industry. Whatever the case may be, please join me in wishing Rich a long, healthy and happy retirement.





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## STATUS OF NRC'S ENDORSEMENT OF ISO/IEC 17025:2017

By: Earl Mayhorn (Ameren)

On October 1, 2018 the NUPIC/NEI ILAC Committee issued a letter to the United States Nuclear Regulatory Commission (USNRC) requesting their endorsement of ISO/IEC 17025:2017 during the transition period that runs through November 30, 2020. The NRC endorsed the International Laboratory Accreditation Cooperation (ILAC) process through their endorsement of Nuclear Energy Institute (NEI) 14-05A, "Guidelines for the Use of Accreditation in Lieu of Commercial Grade Surveys for Procurement of Laboratory Calibration and Test Services" on February 9, 2015. The ILAC process allows nuclear utilities and their suppliers of basic components to accept testing and calibration services (in lieu of a commercial grade survey) from laboratories that are accredited to ISO/IEC 17025:2005 by Accreditation Bodies (AB) that are signatories to the ILAC Mutual Recognition Agreement (MRA). Use of the ILAC process is contingent on meeting the conditions specified in NEI 14-05A; one of which is the laboratory must be accredited to ISO/IEC 17025:2005.

This presents a major challenge to the nuclear industry since ISO (International Organization for Standardization) published a new version of ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories" on November 30, 2017. ISO has designated a three (3) year transition for the ISO/IEC 17025:2017 standard that ends on November 30, 2020. This means that after November 30, 2020, only accreditation to ISO/IEC 17025:2017 will be recognized under the ILAC MRA. In order to meet this deadline, each AB that is a signatory to the ILAC MRA has developed a transition plan for accrediting their laboratories and prospective laboratories. To ensure successful transitions, some ABs have started the process of accrediting laboratories to ISO/IEC 17025:2017. Therefore, during the three transition period, some laboratory may be accredited to ISO/IEC 17025:2005 and some to ISO/IEC 17025:2017 since accreditation can only be to one version of the standard.

As mentioned above, the NRC has already endorsed ISO/IEC 17025:2005. However, in order for nuclear utilities and their suppliers to utilize the ILAC process during commercial grade dedication of calibration and testing services from laboratories that are accredited to ISO/IEC 17025:2017, the nuclear industry must first gain the NRC's acceptance of ISO/IEC 17025:2017. NUPIC, in conjunction with NEI, is seeking the NRC's endorsement of ISO/IEC 17025:2017. The NUPIC/NEI ILAC Committee performed a detailed review of the 2005 and 2017 versions of ISO/IEC 17025 to substantiate that the ISO/IEC 17025:2017 does not reduce technical commitments or quality requirements. This review verified that the major changes included reformatting the standard to align with the new ISO guidelines for formatting; a stronger focus on Information Technologies (IT) such as incorporating the use of computers, electronic records and the production of electronic results and reports; and adding a new chapter on risk-based thinking along with other additions which enhance the ISO/IEC 17025 standard. A Requirements Traceability/Cross Reference Matrix was developed to perform this review. As a result, the NEI/NUPIC Committee ILAC concluded that the ISO/IEC 17025:2017 is equivalent to, or better than, ISO/IEC 17025:2005 in both technical and quality requirements. This is the same conclusion that has been reached by other industry reviewers, stakeholders, specifiers, and governmental agencies.

The NUPIC/NEI Committee has requested endorsement of ISO/IEC 17025:2017 as well as maintaining the endorsement of ISO/IEC 17025:2005 by the NRC on behalf of the nuclear industry during this transition period. This request for endorsement is in recognition that licensees and suppliers with 10CFR50, Appendix B quality assurance programs that implement NEI 14-05A or the Arizona Public Service (APS) SER will not be able to utilize laboratories based on accreditation to ISO/IEC 17025:2017 until the new standard is endorsed by the NRC.

Based on a mid-November 2018 meeting with NUPIC/NEI and the NRC, the NRC should complete their review by March 31, 2019. In the meantime, NUPIC/NEI is compiling a list of laboratories used by licensees (or suppliers of basic components) which have been or will be accredited to ISO/IEC 17025:2017 by March 31, 2019. This information will be shared with the NRC to highlight the urgency for gaining the NRC's endorsement of ISO/IEC 17025:2017. If you are aware of any such laboratories, please send this information via email to [emayhorn@ameren.com](mailto:emayhorn@ameren.com). Please include the name of the laboratory, location, the name of the Accreditation Body, and the date the lab was or will be accredited to ISO/IEC 17025:2017.

*(continued on page 5)*



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## STATUS OF NRC'S ENDORSEMENT OF ISO/IEC 17025:2017 *(continued)*

*By: Earl Mayhorn (Ameren)*

Again, we will work with the NRC to gain this endorsement in the form of an NRC Safety Evaluation Report (SER) as soon as reasonably achievable and by March 31, 2019.

While we, as an industry, await the NRC's endorsement, the following options can be considered as applicable when calibration or testing services are needed from a laboratory that is accredited to ISO/IEC 17025:2017:

For Calibration of M&TE, consider extending the calibration due date of the item in question. Note that calibration extensions must be performed in accordance with the user's quality assurance program and must include a documented justification.

Consider performing a commercial grade survey of the laboratory to verify the laboratory adequately controls the critical characteristics for testing or calibration services (See NEI 14-05A for a list of these critical characteristics.)

Consider performing a source verification of the testing or calibration service while the service is being performed to verify the laboratory adequately controls the identified critical characteristics. Note that if source verification is selected as the dedication acceptance method, the source verification must be performed on each item being calibrated or tested by the laboratory.

**Please note that while NUPIC does not specifically advocate any of the above options, they are listed as potential options to bridge any gaps until the industry receives the NRC endorsement of ISO/IEC 17025:2017.**

We anticipate gaining the NRC's endorsement of ISO/IEC 17025:2017 during this three year period through an NRC Safety Evaluation Report (SER) by March 31, 2019. After this endorsement has been obtained, the NUPIC / NEI Committee will submit a second request to the NRC asking for endorsement of ISO/IEC 17025:2017 beyond the transition period that ends on November 30, 2020. The second request will processed via a revision to NEI 14-05A. Questions and comments can be addressed to the NUPIC/NEI ILAC Committee at [emayhorn@ameren.com](mailto:emayhorn@ameren.com).

## NUCLEAR FUEL COMMITTEE ACTIVITIES

*By: John Larson (Nebraska Public Power)  
NFC Chair*

The Nuclear Fuel Committee held its annual combined Affinity Group (AG) Meeting at the Fall NUPIC Meeting in Memphis TN on October 15. Those members who participated heard summaries of Westinghouse, Framatome, and Global Nuclear Fuel AG Meetings in 2018. There is a renewed effort to have these AGs play a greater role in the planning and performance of each fuel fabricator's NUPIC QA Program Audit. In particular, the Westinghouse AG needs greater QA participation in order to support this effort. The three Fuel Affinity Groups are chaired by:

Westinghouse - Erich Wurtz, Exelon, [erich.wurtz@exeloncorp.com](mailto:erich.wurtz@exeloncorp.com), 630-657-2163

Framatome - Charlie Brown, Duke, [Charles.brown2@duke-energy.com](mailto:Charles.brown2@duke-energy.com), 980-875-5762

Global Nuclear Fuel (GNF) - John Larson, NPPD, [jslarso@nppd.com](mailto:jslarso@nppd.com), 402-825-5822

The NUPIC audit of the Framatome QA Program was completed in 2018. The NUPIC audit of the Global Nuclear Fuel QA Program is scheduled for July of 2019 and Westinghouse will be audited in 2020.

The GNF Affinity Group Meeting will be held in April 2019. At that time the plan is to have established a method to credit the results of AG Joint Surveillances toward completion of selected checklist and PBSA Worksheet items. NUPIC Document 24 is under review and revision for that purpose. The Framatome and Westinghouse AGs will be meeting a few weeks later.

This is a great time to become more involved in the AG activities. Nuclear fuel is one product that every NUPIC Member Utility purchases. It's hard to imagine what other plant system or equipment has more impact on safe and reliable operation. Contact your AG Chairman above to find out how you can be more engaged in this important area of oversight. Opportunities abound, including the opportunity to chair the Framatome AG in 2019, due to a retirement.



# NUPIC

NUCLEAR PROCUREMENT ISSUES CORPORATION

## NUPIC TRAINING COMMITTEE: BIG CHANGES WITH A NEW CHAIR, NEW COMMITTEE, AND NEW IDEAS

By: Al Fonner (AEP)  
Diona Russell (DTE)

The NUPIC Training Committee has a new Chair, Diona Russell (DTE), and many new committee members with creative and innovative ideas! The NUPIC Training Committee has been hard at work getting ready for the upcoming Auditor Training Meeting on January 30 and 31, 2019 in St. Petersburg, FL. The Committee has some fascinating topics in the works! A few highlights for the 2019 Training include: the NRC response to Auditor Independence, Obsolescence and Reverse Engineering, the NRC’s Regulatory Issue Summary (RIS) 2018-05 on Supplier Oversight issues identified during recent NRC Vendor Inspections, Best Practices for Audit Time Management, ASME Certifications/N-Stamp and how they related to NUPIC, and Nuclear Leadership Training. For this list of topics and the other exciting topics, the Training Committee is in progress and presentations are being diligently created for our 2019 Training Meeting. Come and see what’s in store!

Over the course of 2018, the NUPIC Training Committee helped with updating the EPRI Lead Auditor Course material. The updated course was successfully presented in August 2018, and is scheduled again for August 2019.

In addition to getting ready for the 2019 Auditor Training Meeting, the Training Committee is working to create Training Modules and a Knowledge Transfer Database that will be available on the NUPIC website for various topics related to NUPIC tasks and performing audits/surveys. The Training Committee is also partnering with the IT Committee and ETHANY to restructure the Training portion of the NUPIC website. These changes will make it easier to navigate, and will include the new Training Modules and Knowledge Transfer Database.

Speaking of the new Training Modules and Knowledge Transfer Database, the Training Committee needs Training Module topic requests and Knowledge Transfer Database items. We need your ideas and thoughts on how we conduct business to help make us all more successful auditors! Start thinking of potential topics/ideas now. The Training Committee will have more details to come at the January, 2019 Auditor Training Meeting.

The Auditor Training Meeting and NUPIC Training Modules, Presentations, and Knowledge Transfer Database are for ALL to benefit. It is important, therefore, that we all take ownership. Your input and feedback concerning NUPIC training are always welcomed and appreciated. Contact your utility’s NUPIC representative or one of the NUPIC Training Committee members with ideas, or if you would like to participate with the training committee. See you all at the 2019 NUPIC Auditor Training Meeting!!

To register for the January 2019 NUPIC Auditor Training:

1. Go to NUPIC Website and Login
2. Go to Future NUPIC Meeting Page

Click the Register Button at the top of the page. The box will change from ‘Register (You are not registered)’ to ‘Unregister (You are already registered)’ if registered successfully.

Note: Each person attending the 2019 NUPIC Auditor Training will have to login to the NUPIC website and register.



# NUPIC

NUCLEAR PROCUREMENT ISSUES CORPORATION

## 2019 NUPIC MEETING & AUDITOR TRAINING

**General Membership Meeting: Monday-Tuesday 1/28-29/19, 8 AM to 5 PM**  
**NUPIC Auditor Training: Wednesday-Thursday 1/30-31/19, 8 AM to 5 PM**

**REGISTRATION DEADLINE: January 5, 2019**

**HILTON ST. PETERSBURG BAYFRONT HOTEL ST. PETERSBURG, FL 33701-4342**

333 1<sup>st</sup> St. SE Saint Petersburg, FL 33701-4342, USA TEL: +1-7278945000

On-line **Booking Link:** <http://group.hilton.com/2019NupicConference>

By phone call Hilton reservations at 1 (800) Hiltons (800-445-8667), mention conference code NUPIC Training. The room block is valid till January 5, 2019. For rep's arriving early, the on-line reservation will allow reservations to start as early as Friday 1/25/19.

Tampa International Airport (TPA) is 23 miles/45 minute drive to hotel, Taxi about \$50. A SuperShuttle Kiosk is just past baggage claim belt 7, outside door 2 in a shaded area. You can book on line: [www.SuperShuttle.com](http://www.SuperShuttle.com) or via their app or click this special hotel link: <https://group.supershuttle.com/group-page/hilton-st-petersburg-bayfront/>. Super Shuttle to our hotel is \$23 using discount code 9LPQ9.

The St. Pete-Clearwater Airport (PIE) is serviced by discount airlines, such as Allegiant. See list at: <https://www.fly2pie.com/flights-airlines/airlines-destinations>

Hilton St. Petersburg Bayfront has onsite parking for conference rate of – \$12/day. Public parking garages are located 2 blocks away for \$5 -\$10 per night. See below.

Hilton St. Petersburg Bayfront is located 4 blocks south of Central Ave and is across from the harbor and the Al Lang (baseball) Stadium. Many restaurants are located North and West of the hotel and along Central Ave (4 blocks North of hotel).

**Bring comfortable walking shoes**

Fun Local Transport: Pinellas Suncoast Transit Authority operates three local trolleys. The St. Petersburg downtown Looper Trolley stops across from the hotel. The trolley is 50 cents and runs around the downtown ([www.looperrolley.com](http://www.looperrolley.com)). The looper trolley connects with the Central Avenue Trolley going West to St. Pete Beach on the Gulf of Mexico for \$2.25. A 3<sup>rd</sup> trolley, the Suncoast Beach Trolley then runs North/South up to Clearwater Beach. 3 trolleys, lots of beaches, no rental car needed. ([www.PSTA.net](http://www.PSTA.net))

Check out the Meeting Flyer at <https://www.nupic.com/NUPIC/Home/FutureMeetings.aspx>

See you in St. Pete in January !

Hotel Questions – Call Jeff Kaar; 805-545-4176 or email: [jbk1@pge.com](mailto:jbk1@pge.com)



# NUPIC

NUCLEAR PROCUREMENT ISSUES CORPORATION

2019 NUPIC MEETING & AUDITOR TRAINING (continued)

## General Membership Meeting: Monday-Tuesday 1/28-30/19 NUPIC Auditor Training: Wednesday-Thursday 1/30-31/19

St. Petersburg Looper Trolley Map: Hilton St. Petersburg Bayfront Hotel is Stop #15  
Downtown Looper Trolley is 50 Cents (\$0.50).

Connecting Central Ave Trolley to St. Pete Beach on Gulf of Mexico is \$2.25  
<https://loopertrolley.com/wp-content/uploads/2018/10/elooper-print-brochure.pdf>



Discover Downtown St. Petersburg  
[https://www.discoverdowntown.com/public/printableMaps/Printable\\_dtstpete.pdf](https://www.discoverdowntown.com/public/printableMaps/Printable_dtstpete.pdf)

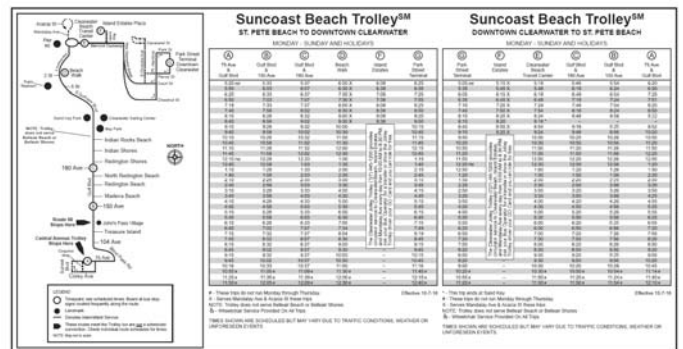
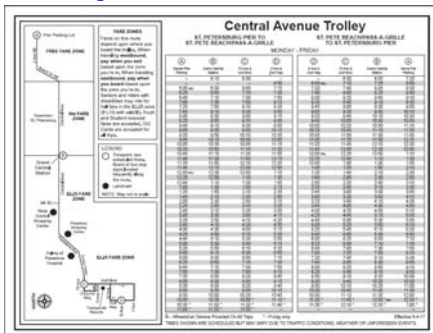


Suncoast Beach Trolley North-South

<https://www.psta.net/riding-psta/schedulesmap/suncoast-beach-trolley/>

Central Ave Trolley to Gulf of Mexico

<https://www.psta.net/media/2371/cat-060516.pdf>



Check out some of these restaurants:



- ◆ 400 Beach Seafood & Tap House
- ◆ The Moon Under Water Welsh Style Pub
- ◆ Ruth Chris Steakhouse
- ◆ Sea Salt Seafood Dining
- ◆ Gratzzi Italian Cuisine
- ◆ BellaBrava
- ◆ Parkshore Grille
- ◆ Tryst Gastro Lounge
- ◆ Stillwaters Tavern
- ◆ Cassie Brasserie
- ◆ Ceviche Tapas
- ◆ Z Grille
- ◆ The Oyster Bar
- ◆ Lucky Dill
- ◆ MacDinton's
- ◆ Caddy's On Central
- ◆ The Mill Restaurant
- ◆ Sushi Inc.
- ◆ Rollbotto Sushi
- ◆ Lemon Grass Tapas
- ◆ Red Mesa Cantina





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NUPIC VENDOR CONFERENCE WEDNESDAY-THURSDAY, JUNE 19-20, 2019

## 28th annual NUPIC Vendor Meeting in Jacksonville, FL on June 19-20, 2019



NUPIC will host its 28th annual NUPIC Vendor Meeting in Jacksonville, FL on June 19-20, 2019, Wednesday-Thursday (airport code JAX). The meeting will be held at the Hyatt Regency Jacksonville Riverfront Hotel. The hotel is in the downtown area on the St. John's River at 225 E. Coastline Drive, Jacksonville, FL 32202. An informational flyer will be posted on the NUPIC website and emailed to all NUPIC members, Vendors and past attendees when registration opens January 2019.

This meeting continues to serve as our principal annual outreach which brings together utility personnel, suppliers, potential suppliers, NRC, EPRI, and other stakeholders in the nuclear supply chain. The meeting will include both general and breakout sessions. Tentative meeting topics will include the following: Keynote Address; NRC Updates; NUPIC Initiatives; Developments with NEI 14-05A and ILAC as it relates to Calibration and Testing Lab services; Update on New Nuclear Power Plant Construction; Commercial Grade Dedication; Fraud/Counterfeit items; Maintaining Independence during Internal Audits; Additive Manufacturing/3D Printing; Software QA; NUPIC and NIAC chair updates; ASME material acceptance process; Overview of Reactor types; Other hot industry topics; and Q & A Sessions.

We invite participants of previous meeting and new participants as well to come and experience first-hand the information sharing, dialogue, and networking. Additional meeting details including hotel and registration information can be obtained by visiting [www.nupic.com](http://www.nupic.com) and accessing the Supplier Information tab (left side of screen), then "Hot Topics" tab starting January 2019. While this is not a trade show, information tables will be available for suppliers to set out brochures, pamphlets, and other literature and information.



**N U P I C**

NUCLEAR PROCUREMENT ISSUES CORPORATION

**2019  
Joint Audit and  
Limited Scope Audit  
Schedule  
January - June**

## Audit/Survey Information - Summary

Search Criteria: Category = Audits - NJ, LA and GA ONLY, Member Criteria = Leads Only, Audit/Survey Status = All Audit/Surveys, Start Date = 01/01/2019, End Date = 06/30/2019, Report Type = Summary

Supp #	Supplier Name, Location	Aud #	Lead Utility	Cat	Scheduled	Audit End Date	Closed Date	Team Members	Peer Review	Last Update Date	Days Open
1565 (SR/PR/NP)	AAF FLANDERS - WASHINGTON, NC	24706	TLN	NJ	04/2019			AEP, DOM, ENT, XEL	SOC		
1031 (SR/PR/NP)	ABB , INC. - FLORENCE, SC	24707	XEL	LA	03/2019			KNP, SNC, SOC			
6062 (SR/PR/NP)	ALDEN RESEARCH LABORATORY, INC. - HOLDEN, MA	24709	NEE	NJ	05/2019			ENT, SNC	APS		
5237 (SR/PR/NP)	ALION SCIENCE & TECHNOLOGY - NUCLEAR SERV DIV - ALBUQUERQUE, NM	24710	ENT	NJ	06/2019			AEP, FEC, SNC, STP	AUE		
1121 (SR/PR/NP)	ANALYSIS & MEASUREMENT SERVICES CORPORATION - KNOXVILLE, TN	24712	SNC	NJ	06/2019			LUM, PSE, STP	AEP		
4763 (SR/PR)	BASIC-PSA, INC. - JOHNSTOWN, PA	24715	TVA	NJ	02/2019			BPL, EXL, LUM, SNN, TLN	PGE		
4686 (SR/PR/NP)	BERGEN PIPE SUPPORTS, INC. - DONORA, PA	24717	DTE	NJ	05/2019			DOM, ENT, NEE, PGE, SOC	TVA		
	1215 (SR/EX) BERGEN PIPE SUPPORTS, INC. - WOBURN, MA										
1176 (SR/PR/NP)	BWXT - CAMBRIDGE, ON	24719	FEC	NJ	02/2019			AEP, APS, BPL, DPC, EXL, NBP, NEE, OPG, SNC	NEE		
5785 (SR/PR/NP)	BWXT NUCLEAR ENERGY, INC. - FOREST, VA	24720	DOM	NJ	01/2019			AEP, EXL, FEC	DPC		
	6136 (SR/EX) BWXT, NE SERVICES - LYNCHBURG, VA										

**Audit/Survey Information - Summary**

**Search Criteria:** Category = Audits - NJ, LA and GA ONLY, Member Criteria = Leads Only, Audit/Survey Status = All Audit/Surveys, Start Date = 01/01/2019, End Date = 06/30/2019, Report Type = Summary

4480 (SR/PR/NP)	CAMERON - CALDON ULTRASONICS TECHNOLOGY CENTER - CORAOPOLIS, PA	24721	ENT	NJ	01/2019	DPC, ETN, EXL, IBE	EXL
1785 (SR/PR/NP)	CAMERON VALVES & MEASUREMENT - CITY OF INDUSTRY, CA	24722	DTE	NJ	06/2019	AUE, ETN, PGE, WCN	NEE
1450 (SR/PR/NP)	CERADYNE, INC. (A 3M COMPANY) - QUAPAW, OK	24725	FEC	NJ	06/2019	AEP, NEE, TVA, XEL	TLN
1375 (SR/PR/NP)	CHEMPUMP, A DIVISION OF TEIKOKU USA, INC. - WARMINSTER, PA	24726	WCN	NJ	02/2019	DPC, ENT, KNP, SNC	APS
1342 (SR/PR/NP)	CONSOLIDATED POWER SUPPLY - BIRMINGHAM, AL	24727	EXL	NJ	05/2019	ENT, OPG, SNC, TVA	ENW
1504 (SR/PR/NP)	CURTISS-WRIGHT, NUCLEAR DIVISION:BREA OPERATIONS - BREA, CA	24732	TLN	NJ	06/2019	BPL, DPC, NPP, PGE, SNN, WCN, XEL	STP
1284 (SR/PR/NP)	DELPHI CONTROL SYSTEMS, INC. - POMONA, CA	24733	ENT	NJ	02/2019	AEP, FEC, KNP, SOC	NEE
6144 (SR/PR/NP)	DRESSER, LLC - JACKSONVILLE, FL	24735	DPC	NJ	03/2019	AEP, CFE, NEE	SNC
1500 (SR/PR/NP)	ENERCON SERVICES, INC. - KENNESAW, GA	24736	TVA	NJ	03/2019	DTE, NEE, OPP, WCN	DOM
5332 (SR/EX)	ENERCON SERVICES, INC. - GERMANTOWN, MD						
5938 (SR/EX)	ENERCON SERVICES, INC. - DULUTH, GA						
5939 (SR/EX)	ENERCON SERVICES, INC. - NAPERVILLE, IL						
5627 (SR/EX)	ENERCON SERVICES, INC. -						

**Audit/Survey Information - Summary**

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5016 (SR/EX) OKLAHOMA CITY, OK  
ENERCON SERVICES, INC. -  
PARSIPPANY, NJ

1736 (SR/PR/NP)	ENERGY & PROCESS CORPORATION - TUCKER, GA	24737	SNC	NJ	05/2019	APS, ENW, NEK, PGE	EXL
1510 (SR/PR/NP)	ENGINEERING PLANNING & MANAGEMENT - FRAMINGHAM, MA	24739	NEE	NJ	01/2019	EXL, LUM, NPP, TVA	PGE
1897 (SR/PR)	FLOWSERVE, FLOW CONTROL DIVISION (LIMITORQUE) - LYNCHBURG, VA	24743	EXL	NJ	06/2019	CFE, ENT, NEE, NEK, PGE	TVA
1604 (SR/PR/NP)	GARLOCK SEALING TECHNOLOGIES - PALMYRA, NY	24745	AEP	NJ	02/2019	AUE, DOM, EXL, PGE, XEL	FEC
2341 (SR/PR/NP)	GENERAL ATOMICS - SAN DIEGO, CA	24748	ENT	NJ	06/2019	AUE, ETN, TVA, WCN	EXL
1726 (SR/PR/NP)	HOLTEC INTERNATIONAL - CAMDEN, NJ	24753	EXL	NJ	05/2019	AEP, DOM, ENT, FEC, IBE, NEE, POR, SOC, TVA	SNC
	2495 (SR/EX) HOLTEC MANUFACTURING DIVISION (HMD) - TURTLE CREEK, PA						
	6174 (SR/EX) HOLTEC INTERNATIONAL - ORRVILLE, OH						
1739 (SR/PR/NP)	HYDROAIRE SERVICE, INC. - CHICAGO, IL	24755	DPC	NJ	02/2019	IBE, LUM, NEK, NPP, SNC, XEL	ENT
5911 (SR/PR/NP)	INTEGRATED POWER SERVICES - CLEVELAND, OH	24757	EXL	NJ	05/2019	AEP, FEC, LUM, SNC, STP	SNC
	5969 (SR/EX) INTEGRATED POWER SERVICES (IPS) - SHREVEPORT, LA						

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2761 (SR/PR/NP)	INTEGRATED RESOURCES - NEBRASKA CITY, NE	24758	TVA	NJ	01/2019	ENT, EXL, SNC, TLN	DPC
1395 (SR/PR/NP)	INTERNATIONAL QUALITY CONSULTANTS INC. - BUTLER, PA	24759	AEP	NJ	03/2019	AUE, LUM	DOM
1529 (SR/PR/NP)	JENSEN HUGHES - CONCORD, CA	24851	TVA	NJ	06/2019	APS, DOM, STP	DPC
1385 (SR/EX)	JENSEN HUGHES (PREVIOUSLY CYGNA ENERGY) - WALNUT CREEK, CA						
2374 (SR/EX)	JENSEN HUGHES - WAKEFIELD, MA						
5897 (SR/EX)	JENSEN HUGHES-OAKBROOK TERRACE, IL - OAKBROOK TERRACE, IL						
6238 (SR/EX)	JENSEN HUGHES - OTTAWA, ON						
6064 (SR/EX)	JENSEN HUGHES - CHARLOTTE, NC						
4804 (SR/PR/NP)	KCI ENGINEERING CONSULTANTS - DOWNERS GROVE, IL	24761	WCN	NJ	01/2019	AEP, BPL, DTE, EXL	PSE
5270 (SR/PR/NP)	KINECTRICS, INC. - TORONTO, ON	24762	DTE	NJ	03/2019	DPC, NEE, OPG, SNN, SOC, TVA	PSE
5976 (SR/EX)	KINECTRICS US - CINCINNATI, OH						
4838 (SR/PR/NP)	LISEGA, INC. - KODAK, TN	24763	DPC	NJ	06/2019	EXL, NEE, NEK, TVA	FEC
1902 (SR/EX)	LISEGA CORPORATION - BINDOUELE, FR						
1905 (SR/EX)	LISEGA CORPORATION - ZEVEN, GY						
1911 (SR/PR/NP)	MACKSON NUCLEAR LLC - ROCK HILL, SC	24764	LUM	NJ	06/2019	AUE, DPC, EXL	DOM
1914 (SR/PR/NP)	MAGNETROL INTERNATIONAL INC. - AURORA, IL	24765	TVA	NJ	06/2019	APS, CFE, LUM, NPP	DOM

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2611 (SR/PR/NP)	NTS HUNTSVILLE - HUNTSVILLE, AL	24822	DPC	LA	03/2019	TVA, WCN	
2067 (SR/PR)	NUMERICAL APPLICATIONS, DIVISION OF ZACHRY NUCLEAR - RICHLAND, WA	24768	EXL	NJ	05/2019	ENT, NPP, STP	TVA
	5933 (SR/EX) NUMERICAL APPLICATIONS, DIVISION OF ZACHRY NUCLEAR - CARY, NC						
2072 (SR/PR/NP)	NUTHERM INTERNATIONAL INC. - MOUNT VERNON, IL	24770	DOM	NJ	01/2019	APS, KNP, PSE, XEL	ENT
4252 (SR/PR/NP)	PENTAS CONTROLS, INC. - PHOENIX, AZ	24773	DPC	NJ	06/2019	APS, ENT, TLN	NEE
5615 (SR/PR/NP)	PKMJ TECHNICAL SERVICES, INC. - MOON TOWNSHIP, PA	24774	TVA	NJ	05/2019	EXL, LUM, PGE, TLN	STP
	6179 (SR/EX) PKMJ TECHNICAL SERVICES, INC. - BROWNSTOWN, MI						
2168 (SR/PR/NP)	POOLED EQUIPMENT INVENTORY COMPANY - BIRMINGHAM, AL	24775	NEE	NJ	02/2019	DOM, ENW, EXL, LUM	TVA
	2169 (SR/EX) POOLED EQUIPMENT INVENTORY COMPANY - MEMPHIS, TN						
2191 (SR/PR)	PRIME TECHNOLOGY, LLC - NORTH BRANFORD, CT	24776	SNC	NJ	06/2019	BPL, EXL, FEC	ENT
2226 (SR/PR/NP)	RALPH A HILLER COMPANY - EXPORT, PA	24777	DPC	NJ	01/2019	IBE, PSE, STP, TLN	EXL
2329 (SR/PR/NP)	S&ME, INC. - LOUISVILLE, TN	24778	TVA	NJ	01/2019	DPC, EXL, NEE	DTE

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2284 (SR/PR/NP)	SARGENT & LUNDY, LLC - CHICAGO, IL	24779	XEL	NJ	02/2019	AEP, APS, BPL, DTE, OPG, PGE, PSE	FEC
5359 (SR/EX)	SARGENT & LUNDY, LLC - WILMINGTON, DE						
5784 (SR/EX)	SARGENT & LUNDY, LLC - CHATTANOOGA, TN						
5902 (SR/EX)	SARGENT & LUNDY, LLC - PHOENIX, AZ						
5903 (SR/EX)	SARGENT & LUNDY, LLC - WARRENVILLE, IL						
2339 (SR/PR/NP)	SONIC SYSTEMS INTERNATIONAL - HOUSTON, TX	24783	STP	NJ	06/2019	DPC, ENW, NEE	NPP
2387 (SR/PR/NP)	STUDSVIK SCANDPOWER, INC. - IDAHO FALLS, ID	24786	DOM	NJ	01/2019	DPC, ENT, FEC	TLN
5213 (SR/PR/NP)	SULZER PUMPS (US) INC. - CHATTANOOGA, TN	24827	TVA	LA	05/2019	ENT	
5740 (SR/PR/NP)	SUPER RADIATOR COILS - CHASKA, MN	24798	PGE	NJ	06/2019	DPC, TVA, WCN, XEL	DPC
1461 (SR/PR/NP)	SYSTEM ONE HOLDINGS LLC, QUALITY SOLUTIONS - CHESWICK, PA	24787	EXL	NJ	02/2019	DPC, ENT, SOC, TLN	WCN
6063 (SR/EX)	SYSTEM ONE HOLDINGS, LLC QUALITY PROGRAMS - FORT MILL, SC						
3083 (SR/PR/NP)	TAMPA ARMATURE WORKS - TAMPA, FL	24788	EXL	NJ	01/2019	FEC, NEE, SNC, TVA	FEC
3254 (SR/PR/NP)	TE CONNECTIVITY ENERGY DIVISION (RAYCHEM) - FUQUAY-VARINA, NC	24790	DOM	NJ	02/2019	AUE, DPC, ENW, STP	EXL
2229 (SR/EX)	TYCO ELECTRONICS - RAYCHEM -						



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MENLO PARK, CA

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2427 (RA/PR/NP)	TELEDYNE BROWN ENG. ENVIRONMENTAL SERVICES - KNOXVILLE, TN	24791	EXL	NJ	03/2019	CFE, NPP, PSE, TVA	NEE
2424 (SR/PR/NP)	TELEDYNE LECROY TEST SERVICES - MARION, MA	24792	EXL	NJ	03/2019	DOM, ENW, LUM, TVA, XEL	NEE
1155 (SR/PR/NP)	WEIR VALVES & CONTROLS USA, INC. - IPSWICH, MA	24794	APS	NJ	06/2019	DTE, NBP, NPP, PSE, SNC, SOC	AEP
1005 (SR/PR/NP)	WESTINGHOUSE ELECTRIC SWEDEN AB - VASTERAS, SW	24795	EXL	NJ	06/2019	CFE, DPC, IBE, IBE, PSE, TLN, VAT, XEL	DPC

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**N U P I C**

NUCLEAR PROCUREMENT ISSUES CORPORATION

**2019  
Survey Schedule  
January - June**

**Audit/Survey Information - Summary****Search Criteria:** Category = Surveys - Surveys ONLY, Member Criteria = Leads Only, Audit/Survey Status = All Audit/Surveys, Start Date = 01/01/2019, End Date = 06/30/2019, Report Type = Summary

Supp #	Supplier Name, Location	Aud #	Lead Utility	Cat	Scheduled	Audit End Date	Closed Date	Team Members	Peer Review	Last Update Date	Days Open
4667 (CG/PR/NP)	EMERSON PROCESS MANAGEMENT/CSI - KNOXVILLE, TN	24801	SOC	NC	02/2019			ENT, EXL			
5633 (CG/PR)	ENGINEERING SOLUTIONS - GOODYEAR, AZ	24802	DOM	NC	06/2019			APS, FEC			
4187 (CG/PR/NP)	MET ONE INSTRUMENTS, INC. - ROWLETT, TX	24806	NEE	NC	06/2019			NPP, WCN			
2128 (CG/PR/NP)	PARKER HANNIFIN CORP (O-RING DIV) - LEXINGTON, KY	24808	AUE	NC	04/2019			APS, LUM, NPP			
4873 (CG/EX)	PARKER SEALS OF MATAMOROS - MATAMOROS, MX										
3280 (CG/PR/NP)	PDMA CORPORATION - TAMPA, FL	24809	DPC	NC	05/2019			DOM, ENT			
5043 (CG/PR)	PLASTOCOR, INC. - HINGHAM, MA	24810	EXL	NC	06/2019			DTE, SOC			
4363 (CG/EX)	DUROMAR, INC. - PEMBROKE, MA										
2320 (CG/PR/NP)	SHORTRIDGE INSTRUMENTS - SCOTTSDALE, AZ	24813	FEC	NC	03/2019			DPC, DTE, PGE			
2482 (CG/PR/NP)	TSI INCORPORATED - ST. PAUL (SHOREVIEW), MN	24812	DPC	NC	02/2019			EXL, XEL			