

April 26, 2016

Mr. Edward Guarino, Manager Quality Integration  
Exelon PowerLabs, LLC  
175 North Caln Rd.  
Coatesville, PA 19320

SUBJECT: NUCLEAR REGULATORY COMMISSION INSPECTION OF EXELON  
POWERLABS, LLC REPORT NO. 99901465/2016-201

Dear Mr. Guarino:

From March 21–24, 2016, the U.S. Nuclear Regulatory Commission (NRC) staff conducted an inspection at the Exelon PowerLabs, LLC facility (hereinafter referred to as EPL) in Coatesville, PA. The inspection assessed EPL's compliance with Title 10 of the *Code of Federal Regulations* (10 CFR) Part 21, "Reporting of Defects and Noncompliance," and selected portions of Appendix B, "Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants," to 10 CFR Part 50, "Domestic Licensing of Production and Utilization Facilities." The technically focused inspection specifically evaluated quality assurance (QA) activities associated with the testing and calibration of safety equipment supplied to U.S. nuclear power plants. This NRC inspection report does not constitute NRC endorsement of EPL's overall QA or 10 CFR Part 21 programs.

Within the scope of this inspection, no violations or nonconformances were identified.

In accordance with 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding," which is part of the NRC's "Rules of Practice," a copy of this letter and its enclosures will be made available electronically for public inspection in the NRC Public Document Room or from the NRC's Agencywide Documents Access and Management System which is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

Sincerely,

**/RA/**

Terry W. Jackson, Chief  
Quality Assurance Vendor Inspection Branch 1  
Division of Construction Inspection  
and Operational Programs  
Office of New Reactors

Docket No.: 99901465

Mr. Edward Guarino, Manager Quality Integration  
Exelon PowerLabs, LLC  
175 North Caln Rd.  
Coatesville, PA 19320

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/RA/

Terry W. Jackson, Chief  
Quality Assurance Vendor Inspection Branch 1  
Division of Construction Inspection  
and Operational Programs  
Office of New Reactors

Docket No.: 99901465

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\*via e-mail

NRO-002

OFC	NRO/DCIP/QVIB-1	NRO/DCIP/QVIB-1	NRO/DCIP/QVIB-1	NRO/DCIP/QVIB-1	NRO/DCIP/QVIB-1/BC
NAME	SSmith	JJacobson*	TKendzia*	BClarke*	TJackson
DATE	04/26/16	04/18/16	04/18/16	04/18/16	04/26/16

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**U.S. NUCLEAR REGULATORY COMMISSION  
OFFICE OF NEW REACTORS  
DIVISION OF CONSTRUCTION INSPECTION AND OPERATIONAL PROGRAMS  
VENDOR INSPECTION REPORT**

Docket No.: 99901465

Report No.: 99901465/2016-201

Vendor: Exelon PowerLabs, LLC  
175 North Caln Rd.  
Coatesville, PA 19320

Vendor Contact: Mr. Edward Guarino  
Quality Integration, Quality Assurance Manager

Nuclear Industry Activity: Exelon PowerLabs, LLC, located in Coatesville, PA, provides mechanical/electrical testing services in support of licensee commercial grade dedication activities, failure analysis, and calibration of measuring and test equipment.

Inspection Dates: March 21-24, 2016

Inspection Team Leader: Stacy Smith NRO/DCIP/QVIB-1

Inspection Team Members: Jeffrey Jacobson NRO/DCIP/QVIB-1  
Thomas Kendzia NRO/DCIP/QVIB-3  
Brent Clarke NRO/DCIP/QVIB-2

Approved by: Terry W. Jackson, Chief  
Quality Assurance Vendor Inspection Branch 1  
Division of Construction Inspection  
and Operational Programs  
Office of New Reactors

Enclosure

## **EXECUTIVE SUMMARY**

Exelon PowerLabs, LLC  
99901465/2016-201

The U.S. Nuclear Regulatory Commission (NRC) conducted this inspection to verify that the Exelon PowerLabs, LLC (hereinafter referred to as EPL) facility implemented an adequate quality assurance (QA) program for the testing and calibration of safety-related items and measuring and test equipment supplied to U.S. nuclear power plants that complied with the requirements of Appendix B, "Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants," to Title 10 of the *Code of Federal Regulations* (10 CFR) Part 50, "Domestic Licensing of Production and Utilization Facilities." In addition, the NRC performed this inspection to verify that EPL implemented a Part 21 program that complied with the requirements of 10 CFR Part 21, "Reporting of Defects and Noncompliance."

The NRC conducted the inspection at the EPL facility in Coatesville, PA, March 21-24, 2016.

These regulations served as the bases for the NRC inspection:

- Appendix B to 10 CFR Part 50, and
- 10 CFR Part 21.

During this inspection, the NRC inspection team implemented Inspection Procedure (IP) 43002, "Routine Inspections of Nuclear Vendors," and IP 36100, "Inspection of 10 CFR Part 21 and Programs for Reporting Defects and Noncompliance."

The NRC inspection team observed various activities associated with testing and calibration and reviewed documents to determine if EPL performed these activities in accordance with the applicable calibration, test control, and technical requirements imposed in purchase orders (POs). Some of the activities the NRC inspection team observed included:

- Testing supporting commercial-grade dedication (CGD) activities, including:
  - Pressure integrity and flow capacity testing for Conoflow and Fisher regulators for Areva,
  - Stability testing of an Acopian Power Supply, 28 volt DC, for Calvert Cliffs Nuclear Power Station, and
  - Current carrying and destructive interrupt testing of Bussmann fuses (.5 amp glass tube) for stock code 0011698012.
- Calibration services, including calibration of:
  - Mensor CPL6000 1000in (water) Transducer Set,
  - Snap-on QC1FTT100 Electronic Torque Tester,
  - WIKA Dial Thermometer (0 - 200F),
  - Omega K Profile, Dual Sensor Thermocouple, and
  - Omega KQSS, Single Sensor Thermocouple.

The NRC inspection team also performed a walk down of the facility to verify segregation of nonconforming equipment. The NRC inspection team observed two daily planning meetings and the weekly metrology meeting.

The attachment to this inspection report lists the individuals interviewed and documents reviewed by the NRC inspection team.

The NRC inspection team concluded that EPL's QA policies and procedures comply with the applicable requirements in 10 CFR Part 21 and Appendix B to 10 CFR Part 50, and that EPL's personnel are effectively implementing their policies and procedures. The results of this inspection are summarized below.

#### 10 CFR Part 21 Program Implementation

The NRC inspection team concluded that EPL is implementing its procedures that govern the Part 21 evaluation and reporting programs consistent with the regulatory requirements of 10 CFR Part 21.

#### Test Control

The NRC inspection team concluded that EPL is implementing its procedures that govern the procurement and test control, in support licensee CGD activities for safety-related items, consistent with the regulatory requirements of Criterion IV, "Procurement Document Control," and Criterion XI, "Test Control," in Appendix B to 10 CFR Part 50.

#### Control of Measuring and Test Equipment (internal)

The NRC inspection team concluded that EPL is implementing its policies and implementing procedures that govern the measuring and test equipment (M&TE) program consistent with the regulatory requirements of Criterion XII, "Control of Measuring and Test Equipment," in Appendix B to 10 CFR Part 50.

#### Calibration of M&TE for Nuclear Industry (external)

The NRC inspection team concluded that EPL is implementing its policies and implementing procedures that govern the M&TE program consistent with the regulatory requirements of Criterion IV, "Procurement Document Control," and Criterion XII, "Control of Measuring and Test Equipment," in Appendix B to 10 CFR Part 50.

#### Oversight of Contracted Activities

The NRC inspection team concluded that EPL is implementing its policies and procedures that govern the oversight of contracted activities consistent with the regulatory requirements of Criterion IV, "Procurement Document Control," and Criterion VII, "Control of Purchased Material, Equipment, and Services," in Appendix B to 10 CFR Part 50.

#### Corrective Action and Nonconforming Materials, Parts, or Components

The NRC inspection team concluded that EPL is implementing its policies and procedures that govern the control of nonconforming material, parts, and components and corrective actions consistent with the regulatory requirements of Criterion XV, "Nonconforming Materials, Parts, or Components," and Criterion XVI, "Corrective Action," in Appendix B to 10 CFR Part 50.

## **REPORT DETAILS**

### **1. 10 CFR Part 21**

#### **a. Inspection Scope**

The U.S. Nuclear Regulatory Commission (NRC) inspection team reviewed EPL's policies and implementing procedures that govern its program under 10 CFR Part 21, "Reporting of Defects and Noncompliance," to verify compliance with this regulation. The NRC inspection team reviewed a sample of nonconformance reports (NCRs) and reverse trace reports that contained 10 CFR Part 21 evaluations. The NRC inspection team also verified the content of EPL's 10 CFR Part 21 postings, as well as the location of the postings.

The NRC reviewed Lab Procedure 115, "Reporting of Defects and Nonconformances Under 10 CFR Part 21," Revision 8, dated October 30, 2012, and Knowledge Module 702, "10 CFR Part 21 Orientation - Reporting of Defects and Noncompliance," Revision 5, dated September 16, 2015.

#### **b. Observations and Findings**

No findings of significance were identified.

#### **c. Conclusions**

The NRC inspection team concluded that EPL is implementing its procedures that govern the Part 21 evaluation and reporting programs consistent with the regulatory requirements of 10 CFR Part 21. No findings of significance were identified.

### **2. Test Control**

#### **a. Inspection Scope**

The NRC inspection team reviewed EPL's policies and implementing procedures that govern failure analysis and testing, in support of licensee CGD activities, to verify compliance with the regulatory requirements of Appendix B to 10 CFR Part 50. The NRC inspection team reviewed test plans and lab procedures to verify that applicable customer specifications were translated correctly into test plans, procedures, or instructions. Additionally, the NRC inspection team reviewed that EPL personnel performing the specific testing were trained with the appropriate skill and knowledge modules.

Specifically, the team reviewed the following samples:

- NMP-00048, "CGD Testing of: Manifold assembly, differential pressure, 3 valve, stock code/cat ID: 0001699772," and
- PEA-49158, "CGD Testing of: Switch, Electrical, Switch, Selector, 3 Positions" (Peach Bottom).

In addition, the team observed the following tests:

- Pressure integrity and flow capacity for Conoflow and Fisher regulators for Areva project ARE-50616,
- Stability testing of Acopian Power Supply, 28 volt DC, for Calvert Cliffs Nuclear Power Station project CCN-47895, and
- Current carrying and destructive interrupt testing of Bussmann fuses (.5 amp glass tube) for stock code 0011698012.

b. Observations and Findings

No findings of significance were identified.

c. Conclusions

The NRC inspection team concluded that EPL is implementing its procedures that govern the procurement and test control, in support licensee CGD activities for safety-related items, consistent with the regulatory requirements of Criterion IV, "Procurement Document Control," and Criterion XI, "Test Control," in Appendix B to 10 CFR Part 50.

3. Control of Measuring and Test Equipment (internal)

a. Inspection Scope

The NRC inspection team reviewed EPL's policies and implementing procedures that govern the EPL M&TE Program to verify compliance with the regulatory requirements of Criterion XII, "Control of Measuring and Test Equipment," in Appendix B to 10 CFR Part 50. Additionally, the NRC inspection team reviewed the calibration certificates for the equipment used during the CGD process. The team verified a sample of M&TE equipment out of calibration were electronically segregated in accordance with EPL's policies and implementing procedure. The team observed several in process calibration activities, both those performed manually and those performed via automated processes.

Specifically, the team reviewed the following samples:

- Automated Procedure for Calibrating Fluke Model 189 Multimeter, #31669, and
- Calibration of a Mensor CPL6000 1000in (water) Transducer Set.

In addition, the team verified that M&TE used during the observed testing was calibrated. This included the M&TE for:

- Pressure integrity and flow capacity for Conoflow and Fisher regulators for Areva project ARE-50616,
- Acopian Power Supply, 28 volt DC, for Calvert Cliffs Nuclear Power Station project CCN-47895, and
- Testing of Bussmann fuses (.5 amp glass tube) for stock code 0011698012.



b. Observations and Findings

No findings of significance were identified.

c. Conclusions

The NRC inspection team concluded that EPL is implementing its policies and implementing procedures that govern the M&TE program consistent with the regulatory requirements of Criterion XII, "Control of Measuring and Test Equipment," in Appendix B to 10 CFR Part 50. No findings of significance were identified.

4. Calibration of M&TE for Nuclear Industry (external)

a. Inspection Scope

The NRC inspection team reviewed EPL's policies and implementing procedures that govern the QA criteria applicable to calibration services that EPL provides to the nuclear industry to verify compliance with the regulatory requirements of Appendix B to 10 CFR Part 50. Additionally, the NRC inspection team reviewed the calibration certificates and calibration labels for the equipment used to perform customer calibrations as well as the training records of the individuals responsible for each of these activities.

Specifically, the team reviewed the following samples:

- Calibration of a Snap-on QC1FTT100 Electronic Torque Tester for Westinghouse Electric Company,
- Calibration of an Omega K Profile, Dual Sensor Thermocouple for General Electric Company,
- Calibration of an Omega KQSS, Single Sensor Thermocouple for General Electric Company, and
- Calibration of WIKA Dial Thermometer (0 - 200F) for General Electric Company.

b. Observations and Findings

No findings of significance were identified.

c. Conclusions

The NRC inspection team concluded that EPL is implementing its policies and implementing procedures that govern the M&TE program consistent with the regulatory requirements of Criterion IV, "Procurement Document Control," and Criterion XII, "Control of Measuring and Test Equipment," in Appendix B to 10 CFR Part 50.

5. Oversight of Contracted Activities

a. Inspection Scope

The NRC inspection team reviewed EPL's policies and implementing procedures that govern the QA criteria applicable to oversight of contracted activities to verify compliance with the regulatory requirements of Appendix B to 10 CFR Part 50. The NRC inspection

team reviewed EPL procedure OJT-731, "Vendor Evaluation," which contained guidance for evaluating vendors performing safety-related activities. EPL subcontracts a small percentage of calibration activities while the majority of calibrations are performed internally by EPL.

The NRC inspection team assessed the adequacy and implementation of the methods used by EPL to procure and oversee subcontracted calibration services, including: procurement from a supplier with an approved 10 CFR Part 50, Appendix B program; CGD of the International Laboratory Accreditation Cooperation (ILAC) calibration service providers in accordance with the guidance contained in Nuclear Energy Institute 14-05A, "Guidelines for the Use of Accreditation in Lieu of Commercial Grade Surveys for Procurement of Laboratory Calibration and Test Services;" and the CGD of non-ILAC approved calibration service providers, either via a commercial-grade survey or source surveillance. The team reviewed a sample of completed EPL procurements in each of these areas to confirm that the guidance contained in OJT-731 was being properly implemented and that controls were implemented to oversee the contracted activities. Documents reviewed included POs, certificates of conformance, calibration reports, surveillance reports, and a commercial-grade survey.

The NRC inspection team also assessed the adequacy with which EPL procured calibration standards to be used at the Coatesville, PA facility. The team noted that such standards are typically procured as commercial-grade items and dedicated, with the calibration certificates traceable back to the National Institute of Standards.

b. Observations and Findings

No findings of significance were identified.

c. Conclusions

The NRC inspection team concluded that EPL is implementing its policies and procedures that govern the oversight of contracted activities consistent with the regulatory requirements of Criterion IV, "Procurement Document Control," and Criterion VII, "Control of Purchased Material, Equipment, and Services," in Appendix B to 10 CFR Part 50. No findings of significance were identified.

6. Corrective Action and Nonconforming Materials, Parts, or Components

a. Inspection Scope

The NRC inspection team reviewed policies, implementing procedures, and a sample of records that governed conditions adverse to quality, which included significant conditions adverse to quality and the control of nonconforming materials, parts, or components, to verify compliance with Criterion XV, "Nonconforming Materials, Parts, or Components," and Criterion XVI, "Corrective Action," of Appendix B to 10 CFR Part 50. The NRC inspection team reviewed the EPL's Quality Assurance Manual (QAM), Revision 22, to ensure it addressed the regulatory requirements for nonconforming items and corrective action.

In addition, the NRC inspection team reviewed EPL Procedure, OJT-703, "Control of Nonconformance and Customer Complaints," Revision 16, dated December 28, 2011, that governs identification, control and correction of conditions adverse to quality including nonconforming items. The NRC inspection team reviewed a sample of internal and external audits, customer feedback, and trend reviews to ensure that EPL used the NCR process when appropriate. The NRC inspection team discussed the NCR process with the EPL director and managers who administered the process to ensure they understood the regulatory requirements. In addition, the NRC inspection team discussed the NCR process with EPL technical staff to ensure they understood when NCRs were required to be initiated, and to verify that they could initiate a NCR.

The NRC inspection team verified for nonconforming items that accept as is, repair, rework, and reject were documented as appropriate. The NRC inspection team verified that EPL implemented their corrective action process for the NCRs reviewed, that conditions adverse to quality were promptly identified and corrected, and for significant conditions adverse to quality that, the cause was determined and action taken to prevent recurrence, and that appropriate EPL management were being notified.

b. Observations and Findings

No findings of significance were identified.

c. Conclusions

The NRC inspection team concluded that EPL is implementing its policies and implementing procedures that govern the control of nonconforming material, parts, or components and corrective actions consistent with the regulatory requirements of Criterion XV, "Nonconforming Materials, Parts, or Components," and Criterion XVI, "Corrective Action," in Appendix B to 10 CFR Part 50. No findings of significance were identified.

7. Entrance and Exit Meetings

On March 21, 2016, the NRC inspection team discussed the scope of the inspection with Mr. Robert M. McNamara, Director of EPL, and other members of EPL management and staff. On March 24, 2016, the NRC inspection team presented the inspection results and observations during an exit meeting with Mr. McNamara, and other EPL staff. The attachment to this report lists the entrance and exit meeting attendees, as well as those individuals the NRC inspection team interviewed.

## ATTACHMENT

### 1. PERSONS CONTACTED

Name	Title	Affiliation	Entrance	Exit	Interviewed
Robert M. McNamara	Director	EPL	X	X	X
Edward Guarino	Manager Quality Integration	EPL	X	X	X
Joanne Santini	Process Solutions Manager	EPL	X	X	
Thomas G. Wait	General Manager Calibration Services	EPL	X	X	
Scott Danehower	Technical Services	EPL	X	X	
Cory Peters	Chief Metrologist	EPL	X	X	X
Thomas Pessa	Manager, Process Solutions	EPL	X	X	
Janice N. Yakonick	Manager, Support Services	EPL	X	X	
David Neff	Licensing Engineer	Exelon Nuclear	X	X	
Scott Davidson	Lead Process Engineer	EPL			X
Kirk Marshall	Lead Mechanical Technician	EPL			X
Brian Higgins	Level II Technician	EPL			X
Fred Blake	Level II Technician	EPL			X
Chris Bamford	Level II Technician	EPL			X
Lance Walls	Electrical Engineer, Level III Technician	EPL			X
Dave Nowakowski	QA Technician	EPL			X
Joseph Mulcahy	Laboratory Technician	EPL			X
Stacy Smith	Inspection Team Lead	NRC	X	X	
Thomas Kendzia	Inspection Team Member	NRC	X	X	
Brent Clarke	Inspection Team Member	NRC	X	X	
Jeff Jacobson	Inspection Team Member	NRC	X	X	
Terry Jackson	Branch Chief, Office of New Reactors	NRC		X	

## **2. INSPECTION PROCEDURES USED**

Inspection Procedure 36100, "Inspection of 10 CFR Part 21 and Programs for Reporting Defects and Noncompliance," dated February 13, 2012 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML113190538)

Inspection Procedure 43002, "Routine Inspections of Nuclear Vendors," dated July 15, 2013 (ADAMS Accession No. ML13148A361)

## **3. LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED**

None.

## **4. DOCUMENTS REVIEWED**

### Format Sheets

- EPL Format Sheet for Ultrasonic Flow Instrument, Equipment ID 0003112022
- EPL Format Sheet for Fluke Model 189 Multimeter, 12304, dated 6/16/2009, Revision 16

### Procedures

- Exelon PowerLabs, Quality Assurance Program, Revision 22, dated October 30, 2012
- LAB-100, "Preparation and Control of Instructions and Procedures," Revision 13, dated October 30, 2012
- LAB-101, "Training, Qualification, and Certification," Revision 14, dated October 30, 2012
- LAB-104, "Preparation and Control of Instructions, Procedures, & Drawings," Revision 13, dated October 30, 2012
- LAB-107, "Records Retention," Revision 13, dated October 30, 2012
- LAB-112, "Retention and Disposal of Calibration Standards," Revision 14, dated October 30, 2012
- LAB-113, "Calibration and Standardization," Revision 16, dated October 30, 2012
- LAB-115, "Reporting of Defects and Nonconformances Under 10 CFR Part 21," Revision 8, dated October 30, 2012
- Automated Procedure for Calibrating Fluke Model 189 Multimeter, #31669, Revision 7, Dated April 23, 2013

### Knowledge Modules

- Module 147, "Format/Service Type Development," Revision 29, dated September 12, 2013
- Module 702, "10 CFR Part 21 Orientation – Reporting of Defects and Noncompliance," Revision 5, dated September 16, 2015

### On the Job Training

- OJT-730, "Analysis and Documentation of OOTR for PowerLabs Laboratory Equipment," Revision 11, dated October 8, 2012
- OJT-740, "Commercial Grade Dedication Testing," Revision 2, dated January 8, 2015
- OJT-731, Vendor Evaluation, Revision 15, dated January 15, 2016
- OJT-7, Multi meters, Basic Analog and Digital, Revision 3, dated September 19, 2001
- OJT-707, "Out-of-Tolerance and Inoperable Equipment," Revision 25, dated July 24, 2012
- OJT-703, "Control of Nonconformance and Customer Complaints," Revision 16, dated December 28, 2011

### Test Plans

- Test plan for ARE-50616 (Fisher regulators)
- Test plan for CCN-47895 (Acopian Power Supply 28 volt DC)
- Test plan for stock code 0011698012 (Bussmann .5 amp fuses)

### Purchase Orders (POs)

- PO 2015080262 to Foerster Instruments, no date listed
- PO 2015100270 to Keysight Technologies, no date listed
- PO 00059935-00001-2014100325 to NIST for the purchase of Infrared Transmission Wavelength Standard, no date listed
- PO 02314598, from NextEra Energy Point Beach, LLC to Exelon PowerLabs for, "Calibration and Repair of MTE Equipment," Release 00024, dated November 6, 2014
- PO 2015100272 from Exelon PowerLabs to AKO Inc. for, "Calibration of Torque Transducer Model TSD1011, Serial No., 1685," Revision 0, no date listed
- PO 10047413 from Entergy to Exelon PowerLabs for, Calibration Services," Revision 0, dated November 4, 2003
- PO 0059961-00001-2016010306 from Exelon PowerLabs to Northrup Grumman Space Technology for, "Calibration of Airflow Vane Anemometer Model No., LCA30 VT, Serial No., 120916," Revision 0, dated January 3, 2016
- PO 437101530 from General Electric to Exelon PowerLabs for, "Various Calibration Services," Revision 0, dated January 4, 2016
- PO 4400144606 from Westinghouse Electric Company to Exelon PowerLabs for, "Various Calibration Services," Revision 0, dated March 19, 2015

### Test Samples

- NMP-00048, "CGD Testing of: Manifold assembly, differential pressure, 3 valve, stock code/cat ID: 0001699772," dated August 20, 2015
- PEA-49158, "CGD Testing of: Switch, Electrical, Switch, Selector, 3 Positions," dated March 21, 2016

### Calibration Samples

- Heise ST-2H (Serial No. 49609), calibration due August 27, 2016
- Heise HQS-2 (Serial No. HQS-23011), calibration due August 8, 2016
- Heise HQS-2 (Serial No. HQS-15890), calibration due May 16, 2016
- Key Instruments GD-10310-AM-SVV-NL (Serial No. SSA373 R1), calibration due November 16, 2016
- F&J Specialty CD-550V.2-1 (Serial No. 3682), calibration due March 9, 2017
- EAI S-570, calibration due April 30, 2016
- Mensor CPL6000 1000in (water) Transducer Set, ID No., 830120
- Newport Wireless Environmental Standard, ID #10012021
- Wika Dial Thermometer (0-200F) for General Electric Company, ID# W18254
- Hart Scientific High Precision Bath, Model # 7025, Serial No., 95311, ID No., 522130
- Thermacal Cool/Heat Source, Model 18B, ID No., 521417
- Fluke Temperature / Pressure Calibrator, Model No., 525A, ID # 799170
- Hart Scientific Temperature Bath, Model No., 7380, ID No., 529689
- Hart Scientific Super Thermometer, Model No., 1575, ID No., 529654
- Calibrated Arm, ID No., 0016649
- Calibrated Weight Set, ID No., 040466
- Omega Environmental Sensor, ID No., 0015717
- Newport Wireless Environmental Standard, ID No., 10012021

### Nonconformances (NCRs)

- 37120, 39243, 29919, 40940, 41429, 41543, 42782, 42848, 43455, 43461, 43697, 43771, 43978, 44047, 44141, 44204, 44633, 44805, 45491, 45518, 45609, 45958, 46816, 47757, 47801, 48487, 48548, 48643, 48972

### Certificates of Conformance (C of C)

- EPL C of C to Energy Northwest, 0010920369, dated December 28, 2015
- Keysight Technologies CofC to EPL, 1-7340654821-1, dated December 9, 2015
- EPL C of C to Curtiss-Wright Corporation, 0010909283, dated September 1, 2015
- Foerster Instruments C of C to EPL, 201500286-54654, dated August 27, 2015
- EPL C of C to CCNPP- Calvert Cliffs Maint, 0010938502, dated January 25, 2016
- EPL C of C to PECO, 0010851036, dated October 29, 2014
- NIST C of C to EPL, 0016881, dated February 29, 2015
- C of C 0010901265 for NextEra Energy Point Beach LLC Purchase Order 02314598 for CDI Torque Transducer Model No. 2000-12-02, Serial No., 0605810, dated July 22, 2015
- C of C 0010912865 for Braidwood Maintenance for Multi-amp Relay/Circuit Breaker Test Set, Model No., PS9160PLC2000, Serial No., 130440-001/1, dated September 8, 2015
- C of C 0010939002 for Entergy Arkansas Nuclear One for Airflow Vane Anemometer, Serial No., 120916, dated February 10, 2016

### Training Records

- Training Record for Mr. Fred Blake, ANSI Level II Technician
- Training Record for Mr. Brian Higgins, ANSI Level II Technician
- Training Record for Mr. Kirk Marshall, ANSI Level III Technician
- Training Record for Mr. Christopher Bamford, ANSI Level II Technician
- Training Record for Mr. Lance Walls, ANSI Level III Technician

### Other

- Reverse Trace Report for Standard 181408
- Reverse Trace Report for Standard 579176
- Reverse Trace Report for Standard 342159
- Reverse Trace Report for Standard 799035
- Reverse Trace Report for Standard 194629
- Electronic record for Fluke meter certificate number 0010933411
- Electronic record for Yokogawa volt meter certificate number 0002614288
- Source Verification Report 47573 of Foerster Instruments, dated, August 27, 2015
- Implemented Source Verification Checklist for calibration services contained in procedure OJT-731.
- Calibration Report from Keystone Technologies to EPL for calibration #66250, Model 3458A, dated December 9, 2015
- OEM Technical Manual for FLUXUS F601 Ultrasonic Flow Transducers, dated January 9, 2012
- EPL Commercial Grade Survey Report of LUDECA, dated October 6, 2014
- Skill #002, "Use of Multimeters," Revision 2, dated February 18, 2002
- Customer Feedback, Tickets 218768, 230302, 218163
- Customer Feedback report for January 15, 2015 to March 21, 2016