



February 25, 2026

Mr. Rob Horensky
PA Public Utility Commission
Bureau of Transportation and Safety
P.O. Box 3265
Harrisburg, PA 17105-3265

M-2024-3047438

**Re: Test Results for Year 2025 Electric Meter Statistical Sampling Program
Docket # 2024-3047438**

Dear Mr. Horensky:

Enclosed are the PECO's test results for the year 2025 electric meter statistical sampling program. The selected meter populations are within the respective allowable ncf criteria. The tested meter populations of all the groups meets or exceeds the required testing amount.

If you have any questions regarding this information, please call me at (856) 723-9585.

Sincerely,

Harry Sheneman
Manager, Customer Operations

PUC REPORT – METERS BY GROUP AND STATUS - Electric Meters

Docket # M-2024-3047438

December 31, 2025

Meter Group	Group Population	Tested Amount	Required Amount	Group % ncf	Allowed %ncf	# of tests over 102%	# of tests below 98%	% of tests over 102%	% of tests below 98%
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STATUS: pass

ISA3-2SE-AMI	11,628	124	100	0	1.020	0	0	0.0%	0.0%
I-210-2S-AMI	87,670	1,184	150	0	0.946	0	0	0.0%	0.0%
I-210-25S-AMI	12,548	115	100	0	1.020	0	0	0.0%	0.0%
AXR-2S-AMI	1,534,188	16,250	200	0	0.945	3	0	0.0%	0.0%
SSA4-2S-AMI	14,252	245	100	0	1.020	0	0	0.0%	0.0%
SSIQ-2S	17,049	292	100	0	1.020	0	0	0.0%	0.0%
AXR-25S-AMI	50,286	523	150	0	0.946	0	0	0.0%	0.0%
AXR-16S-AMI	8,577	345	75	0	1.060	0	0	0.0%	0.0%
AXR-15S-AMI	3,820	113	75	0	1.060	0	0	0.0%	0.0%
A3RL-2SE-AMI	3,172	92	75	0	1.160	0	0	0.0%	0.0%
A3RL-2S-AMI	2,999	111	75	0	1.160	0	0	0.0%	0.0%
A3RL-1S-AMI	1,482	77	75	0	1.160	0	0	0.0%	0.0%
A3RL-16S-AMI	11,518	123	100	0	1.020	0	0	0.0%	0.0%
A3RL-15S-AMI	3,644	97	75	0	1.060	0	0	0.0%	0.0%
TOTAL:	1,762,833	19,691	1,450	N/A	1.04	3	0	0.0%	0.0%

ALL GROUPS TOTAL	1,762,833	19,691	1,450	N/A	1.04	3	0	0.0%	0.0%
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February 25, 2026

Mr. Rob Horensky
PA Public Utility Commission
Bureau of Transportation and Safety
P.O. Box 3265
Harrisburg, PA 17105-3265

Re: Certification Records
Docket # 2024-3047438

Dear Mr. Horensky:

Enclosed are PECO's calibration and certification records for our electric meter test equipment for the year 2025.

If you have any questions regarding this information, please call me at (856) 723-9585.

Sincerely,

Harry Sheneman
Manager, Customer Operations

Primary Standards Identification Form: Electric

Contact Person: Harry Sheneman Phone: 856-723-9585

Company Name: PECO Energy - Meter Services

Location: 1060 W. Swedesford Road, Berwyn, PA 19312

Equipment: Radian RD-21-112 Dytronic Portable Standard

Manufacturer: Radian

Model No: RD-21-112

Serial No: 209590

Accuracy Required: ± 0.025%

Date of Current Calibration (Radian): 10/17/24 Expires 10/17/25

Performed by: Accuracy Calibration Services, 32 Elycroft Ave, Rockaway NJ 07866

Date of Next Calibration (Shop Equipment W4268): On or before 04/29/26

Date Lab Scheduled to Perform Calibration: On or before 04/29/26

See page 3 - Copy of Original Manufacturers Calibration Certificate

List of Equipment to be calibrated by this Item and Accuracies Desired:

1. Certificate of Calibration for In-House Test Equipment: See page 2
 - Model = 2150; serial number = W4268

*This form applies to the following types of primary standards which might include:

- 1) Micro Jouel SC-60 or equivalent.
- 2) Radin Research 703A Calibrator with applicable software or equivalent.

Accepted Standard is NIST Certification.

***Annual Submittal Required**



CERTIFICATE of CALIBRATION

ACS certifies the data provided is accurate and true. The standards used are annually checked against reference standards that are traceable to NIST by an unbroken chain.

MFG: WECO SERIAL NO. W6379 DATE OF CERTIFICATION: 4/29/25
Model: 2300 ID: DUE DATE: 4/29/26
As received condition:

in tolerance out of tolerance inoperative not checked

Condition upon completion:

in tolerance out of tolerance limited calibration

Comments: Certified unit.

Equipment used for certification:

Manufacturer	Model	Serial No.	Date Cal.	Due Date
Radian	RD-21-112	209590	10/17/24	10/17/25

Certified By: *Ken Kearney*

Date: 4/29/25

ACS cannot be held responsible for test board performance after certification is completed. It is the user's responsibility to verify accuracy with a known good transfer standard prior to meter testing.



As Left Certificate of Calibration

Manufacturer: Radian Research, Inc.
Instrument Model: RD-21-102 Dytronic Portable Standard
Serial Number: 204579
Firmware Revision: 07.22.04
Error Specification: .02% worst case

ISO 9001:2015 Certified Quality Management System
 ISO/IEC 17025:2017 Accredited Laboratory

Customer Name: Accurate Calibration Services
Address: 32 Elycroft Ave
 Rockaway, NJ 07866

Calibration Lab Name: Radian Research, Inc.
Calibration Lab Address: 3852 Fortune Drive; Lafayette, IN 47905
Calibration Date: 5-Dec-24
Report Issue Date: 6-Dec-24

Environmental Conditions
Temperature: 23°C +/- 2°C
Humidity: between 30% and 60%

P.O. Number: care plan 690784
RMA: RO46903

Physical Condition: Undamaged
Radian Research's As-Found Test Results showed this instrument to be:
 New In Tolerance Out of Tolerance Inoperative Limited Calibration Repair Needed
Radian Research's As-Left Test Results showed this instrument to be:
 New In Tolerance Out of Tolerance Inoperative Limited Calibration
 For Out of Tolerance conditions, As-Found Data Reports are furnished.

Radian Research, Inc. certifies the instrument listed above meets or exceeds specifications and was calibrated in compliance with ANSI/NCSL Z540-1-1994 "Calibration Laboratories and Measuring and Test Equipment - General Requirements" using applicable Radian Research procedures which meet the requirements of ISO 9001:2015 and ISO/IEC Guide 98-3 "Uncertainty of measurement - Part 3: Guide to the expression of uncertainty in measurement (GUM:1995)".

This instrument was calibrated by a Radian Research RS-933 Syntron Automated Calibration System which is traceable to the National Institute of Standards and Technology (NIST) and/or other National Metrology Institute (NMI). The Automated Calibration system is cross checked and calibrated on a schedule which is adjusted to maintain required accuracies and traceability. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k=2.

Procedure used for Calibration: RS-703A Control Program Rel.04.30.03 Test Release Apr 6, 2010
Software used for Calibration: RS-703A Control Program Rel.04.30.03 Test Release Apr 6, 2010
RS-703A / 703A Tool Number: 991164

Standards Used in This Calibration:

Description	Serial Number(s):	Cal. Source	Cal. Number:	Cal. Due Date:
RS-740 Data Collection Module	704402	Radian Research	704402-20240529	5/29/2025
RS711 Syntron with RS932 Boost Module (Phase A)	703125	Radian Research	703125-20240213	2/13/2025
RS711 Syntron with RS932 Boost Module (Phase B)	703192	Radian Research	703192-20240214	2/14/2025
RS711 Syntron with RS932 Boost Module (Phase C)	703140	Radian Research	703140-20240215	2/15/2025

Laboratory Technician Signature

Jeff Muelken LAB 474

Template 9903258.08
 This report shall not be reproduced, except in full, without prior written approval of the Calibration Facility

Calibration Certificate Number:

Z-204579-20241205-AL



Primary Standards Identification Form: Electric

Contact Person: Harry Sheneman Phone: 856-723-9585
Company Name: PECO Energy - Meter Services
Location: 1060 W. Swedesford Road, Berwyn, PA 19312
Equipment: Radian RD-23-332 Dytronic Portable Standard

Manufacturer: Radian
Model No: RD-23-332
Serial No: 205463

Accuracy Required: $\pm 0.025\%$

Date of Current Calibration (Radian): 12/05/24 Expires 12/05/25.

Performed by: Accuracy Calibration Services, 32 Elycroft Ave, Rockaway NJ 07866
Date of Next Calibration (Shop equipment W3983): On or before 04/29/26
Date Lab Scheduled to Perform Calibration: On or before 04/30/26

Certificate of Calibration for In-House Test Equipment: See page 5

List of Equipment to be calibrated by this Item and Accuracies Desired

- Model 2150, serial number W3983

1. Copy of Original Manufacturers Calibration Certificate: See Page 6

*This form applies to the following types of primary standards which might include:

- 1) Micro Jouel SC-60 or equivalent.
- 2) Radian Research 703A Calibrator with applicable software or equivalent.

Accepted Standard is NIST Certification.

***Annual Submittal Required**



CERTIFICATE of CALIBRATION

ACS certifies the data provided is accurate and true. The standards used are annually checked against reference standards that are traceable to NIST by an unbroken chain.

MODEL: WECO 2150 SERIAL NO. W3983 DATE OF CERTIFICATION: 4/30/24
DUE DATE: 4/30/25

As received condition:

in tolerance out of tolerance inoperative not checked

Condition upon completion:

in tolerance out of tolerance limited calibration

Comments: Cleaned jaws as well as unit. Calibrated and Certified unit.

Equipment used for certification:

Manufacturer	Model	Serial No.	Date Cal.	Due Date
Radian	RD-21-102	204453	2/2/24	2/2/25

Certified By: *Ker Kearney*

Date: 4/30/24

ACS cannot be held responsible for test board performance after certification is completed. It is the user's responsibility to verify accuracy with a known good transfer standard prior to meter testing.



As Left Certificate of Calibration

Manufacturer: Radian Research, Inc.
Instrument Model: RD-23-332 Dytronic Portable Standard
Serial Number: 205463
Firmware Revision: 07.22.04
Error Specification: .01% worst case

ISO 9001:2015 Certified Quality Management System
 ISO/IEC 17025:2017 Accredited Laboratory

Customer Name: Accurate Calibration Services
Address: 32 Elycroft Ave
 Rockaway, NJ 07866

Calibration Lab Name: Radian Research, Inc.
Calibration Lab Address: 3852 Fortune Drive; Lafayette, IN 47905
Calibration Date: 5-Dec-24
Report Issue Date: 5-Dec-24

P.O. Number: care plan 690851
RMA: RD46885

Environmental Conditions
 Temperature: 23°C +/- 2°C
 Humidity: between 30% and 60%

Physical Condition: Undamaged

Radian Research's As-Found Test Results showed this instrument to be:

New In Tolerance Out of Tolerance Inoperative Limited Calibration Repair Needed

Radian Research's As-Left Test Results showed this instrument to be:

New In Tolerance Out of Tolerance Inoperative Limited Calibration

This "As Left Certificate of Calibration" indicates the instrument has been adjusted and calibrated to be within specifications. When the instrument was first tested in our lab, the results were out of tolerance. Out of tolerance results are provided in a separate "As Found" report.

Radian Research, Inc. certifies the instrument listed above meets or exceeds all published specifications and was calibrated in compliance with ANSI/NCSL Z540-1-1994 "Calibration Laboratories and Measuring and Test Equipment – General Requirements" using applicable Radian Research procedures which meet the requirements of ISO 9001:2015 and ISO/IEG Guide 98-3 "Uncertainty of measurement - Part 3: Guide to the expression of uncertainty in measurement (GUM:1995)".

This instrument was calibrated by a Radian Research RS-933 Syntron Automated Calibration System which is traceable to the National Institute of Standards and Technology (NIST) and/or other National Metrology Institute (NMI). The Automated Calibration system is cross checked and calibrated on a schedule which is adjusted to maintain required accuracy and traceability. Reported uncertainties represent expanded uncertainties expressed at approximately 95% confidence level using a coverage factor of k=2.

Procedure used for Calibration: 9912163
Software used for Calibration: RS-703A Control Program Rel.04.30.03 Test Release Apr 6, 2010
RS-933 / 703A Tool Number: 9911845

Standards Used in This Calibration:

<u>Description</u>	<u>Serial Number(s)</u>	<u>Cal. Source</u>	<u>Cal. Number:</u>	<u>Cal. Due Date:</u>
RS-740 Data Collection Module	704402	Radian Research	704402-20240529	5/29/2025
RS711 Syntron (Phase A)	703125	Radian Research	703125-20240213	2/13/2025
RS711 Syntron (Phase B)	703192	Radian Research	703192-20240214	2/14/2025
RS711 Syntron (Phase C)	703140	Radian Research	703140-20240215	2/15/2025

Laboratory Technician Signature

JH Mullen
LAB 474

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Calibration Certificate Number:

Z-205463-20241205-AL



Primary Standards Identification Form: Electric

Contact Person: Harry Sheneman Phone: 856-723-9585

Company Name: PECO Energy - Meter Services

Location: 1060 W. Swedesford Road, Berwyn, PA 19312

Equipment: Radian RD-23-352 - Dytronic Portable Standard

Manufacturer: Radian

Model No: RD-21-102

Serial No: 204579

Accuracy Required: ± 0.025%

Date of Current Calibration (Radian): 12/05/25 Expires 12/05/25

Performed by: Accuracy Calibration Services, 32 Elycroft Ave, Rockaway NJ 07866

Date of Next Calibration (Shop Equipment W4267): On or before 04/29/26

Date Lab Scheduled to Perform Calibration: On or before 04/30/26

Certificate of Calibration for In-House Test Equipment: See page 9

List of Equipment to be calibrated by this Item and Accuracies Desired:

- Model # 2150; serial # = W4267

1. Copy of Original Manufacturers Calibration Certificate : See page 8

*This form applies to the following types of primary standards which might include:

- 1) Micro Jouel SC-60 or equivalent.
- 2) Radian Research 703A Calibrator with applicable software or equivalent.

Accepted Standard is NIST Certification.

***Annual Submittal Required**



CERTIFICATE of CALIBRATION

ACS certifies the data provided is accurate and true. The standards used are annually checked against reference standards that are traceable to NIST by an unbroken chain.

MODEL: WECO 2150 SERIAL NO. W4267 DATE OF CERTIFICATION: 4/30/24
DUE DATE: 4/30/25

As received condition:

in tolerance out of tolerance inoperative not checked

Condition upon completion:

in tolerance out of tolerance limited calibration

Comments: Cleaned jaws as well as unit. Calibrated and Certified unit.

Equipment used for certification:

Manufacturer	Model	Serial No.	Date Cal.	Due Date
Radian	RD-23-352	206552	2/28/24	2/28/25

Certified By: *Ker Kearney*

Date: 4/30/24

ACS cannot be held responsible for test board performance after certification is completed. It is the user's responsibility to verify accuracy with a known good transfer standard prior to meter testing.



As Left Certificate of Calibration

Manufacturer Radian Research, Inc.
Instrument Model: RD-21-102 Dytronic Portable Standard
Serial Number 204579
Firmware Revision: 07.22.04
Error Specification .02% worst case

ISO 9001:2015 Certified Quality Management System
 ISO/IEC 17025:2017 Accredited Laboratory

Customer Name: Accurate Calibration Services
Address: 32 Elycroft Ave
 Rockaway, NJ 07866

Calibration Lab Name: Radian Research, Inc.
Calibration Lab Address: 3852 Fortune Drive; Lafayette, IN 47905
Calibration Date: 5-Dec-24
Report Issue Date: 6-Dec-24

Environmental Conditions
Temperature: 23°C +/- 2°C
Humidity: between 30% and 60%

P.O. Number: care plan 690784
RMA: RO46903

Physical Condition: Undamaged

Radian Research's As-Found Test Results showed this instrument to be:
 New In Tolerance Out of Tolerance Inoperative Limited Calibration Repair Needed
 Radian Research's As-Left Test Results showed this instrument to be:
 New In Tolerance Out of Tolerance Inoperative Limited Calibration
 For Out of Tolerance conditions, As-Found Data Reports are furnished.

Radian Research, Inc. certifies the instrument listed above meets or exceeds specifications and was calibrated in compliance with ANSI/NCSL Z540-1-1994 "Calibration Laboratories and Measuring and Test Equipment - General Requirements" using applicable Radian Research procedures which meet the requirements of ISO 9001:2015 and ISO/IEC Guide 98-3 "Uncertainty of measurement - Part 3: Guide to the expression of uncertainty in measurement (GUM:1995)".

This instrument was calibrated by a Radian Research RS-933 Syntron Automated Calibration System which is traceable to the National Institute of Standards and Technology (NIST) and/or other National Metrology Institute (NMI). The Automated Calibration system is cross checked and calibrated on a schedule which is adjusted to maintain required accuracies and traceability. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k=2.

Procedure used for Calibration: 991163
Software used for Calibration: Control Program Rel.04.30.03 Test Release Apr 6, 2010
RS-703A / 703A Tool Number: 991164

Standards Used in This Calibration:

<u>Description</u>	<u>Serial Number(s):</u>	<u>Cal. Source</u>	<u>Cal. Number:</u>	<u>Cal. Due Date:</u>
RS-740 Data Collection Module	704402	Radian Research	704402-20240529	5/29/2025
RS711 Syntron with RS932 Boost Module (Phase A)	703125	Radian Research	703125-20240213	2/13/2025
RS711 Syntron with RS932 Boost Module (Phase B)	703192	Radian Research	703192-20240214	2/14/2025
RS711 Syntron with RS932 Boost Module (Phase C)	703140	Radian Research	703140-20240215	2/15/2025

Laboratory Technician Signature

Jeff Mutton
LTS
474

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Calibration Certificate Number:

Z-204579-20241205-AL



Primary Standards Identification Form: Electric

Contact Person: Harry Sheneman Phone: 856-723-9585
Company Name: PECO Energy - Meter Services
Location: 1060 W. Swedesford Road, Berwyn, PA 19312
Equipment: Radian RD-23-332 - Dytronic Portable Standard

Manufacturer: Radian
Model No: RD-23-332
Serial No: 205463

Accuracy Required: ± 0.005%

Date of Current Calibration: 12/05/24 Expires 12/05/26

Performed by: Radian Research, Inc., 3852 Fortune Drive, Lafayette Indiana 47905
Date of Next Calibration (Shop equipment W3984) : On or before 04/29/26
Date Lab Scheduled to Perform Calibration: On or before 04/29/26

See page 12 - Copy of Original Manufacturers Calibration Certificate (as left)

List of Equipment to be calibrated by this Item and Accuracies Desired:

1. Certificate of Calibration for In-House Test Equipment: See page 11
 - Model = 2150; serial number = W3984

*This form applies to the following types of primary standards which might include:

- 1) Micro Jouel SC-60 or equivalent.
- 2) Radian Research 703A Calibrator with applicable software or equivalent.

Accepted Standard is NIST Certification.

***Annual Submittal Required**



CERTIFICATE of CALIBRATION

ACS certifies the data provided is accurate and true. The standards used are annually checked against reference standards that are traceable to NIST by an unbroken chain.

MODEL: WECO 2150 SERIAL NO. W3984 DATE OF CERTIFICATION: 4/30/24
DUE DATE: 4/30/25

As received condition:

in tolerance out of tolerance inoperative not checked

Condition upon completion:

in tolerance out of tolerance limited calibration

Comments: Cleaned jaws as well as unit. Calibrated and Certified unit.

Equipment used for certification:

Manufacturer	Model	Serial No.	Date Cal.	Due Date
Radian	RD-23-332	205463	2/20/24	2/20/25

Certified By: *Ken Kearney*

Date: 4/30/24

ACS cannot be held responsible for test board performance after certification is completed. It is the user's responsibility to verify accuracy with a known good transfer standard prior to meter testing.



As Left Certificate of Calibration

Manufacturer: Radian Research, Inc.
Instrument Model: RD-23-332 Dytronic Portable Standard
Serial Number: 205463
Firmware Revision: 07.22.04
Error Specification: .01% worst case

ISO 9001:2015 Certified Quality Management System
 ISO/IEC 17025:2017 Accredited Laboratory

Customer Name: Accurate Calibration Services
Address: 32 Elycroft Ave
 Rockaway, NJ 07866

Calibration Lab Name: Radian Research, Inc.
Calibration Lab Address: 3852 Fortune Drive, Lafayette, IN 47905
Calibration Date: 5-Dec-24
Report Issue Date: 5-Dec-24

P.O. Number: Radian 690851
RMA: RQ46885

Environmental Conditions
 Temperature: 23°C +/- 2°C
 Humidity: between 30% and 60%

Physical Condition: Undamaged

Radian Research's As-Found Test Results showed this instrument to be:

New In Tolerance Out of Tolerance Inoperative Limited Calibration Repair Needed

Radian Research's As-Left Test Results showed this instrument to be:

New In Tolerance Out of Tolerance Inoperative Limited Calibration

This "As Left Certificate of Calibration" indicates the instrument has been adjusted and calibrated to be within specifications. When the instrument was first tested in our lab, the results were out of tolerance. Out of tolerance results are provided in a separate "As Found" report.

Radian Research, Inc. certifies the instrument listed above meets or exceeds all published specifications and was calibrated in compliance with ANSI/NCSL Z540-1-1994 "Calibration Laboratories and Measuring and Test Equipment - General Requirements" using applicable Radian Research procedures which meet the requirements of ISO 9001:2015 and ISO/IEC Guide 99-3 "Uncertainty of measurement - Part 3: Guide to the expression of uncertainty in measurement (GUM:1995)".

This instrument was calibrated in a Radian Research RS-933 Syntron Automated Calibration System which is traceable to the National Institute of Standards and Technology (NIST) and/or other National Metrology Institute (NMI). The Automated Calibration system is cross checked and calibrated on a schedule which is adjusted to maintain required accuracy and traceability. Reported uncertainties represent expanded uncertainties expressed at approximately 95% confidence level using a coverage factor of k=2.

Procedure used for Calibration: 9912163
Software used for Calibration: RS-703A Control Program Rel.04.30.03 Test Release Apr 6, 2010
RS-933 / 703A Tool Number: 9911645

Standards Used in This Calibration:

<u>Description</u>	<u>Serial Number(s):</u>	<u>Cal. Source</u>	<u>Cal. Number:</u>	<u>Cal. Due Date:</u>
RS-740 Data Collection Module	704402	Radian Research	704402-20240529	5/29/2025
RS711 Syntron (Phase A)	703125	Radian Research	703125-20240213	2/13/2025
RS711 Syntron (Phase B)	703192	Radian Research	703192-20240214	2/14/2025
RS711 Syntron (Phase C)	703140	Radian Research	703140-20240215	2/15/2025

Laboratory Technician Signature

Jeff Mullen
LRS
474

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Calibration Certificate Number:

Z-205463-20241205-AL



Primary Standards Identification Form: Electric

Contact Person: Harry Sheneman Phone: 856-723-9585
Company Name: PECO Energy - Meter Services
Location: 1060 W. Swedesford Road, Berwyn, PA 19312
Equipment: Radian RD-21-112 - Dytronic Portable Standard

Manufacturer: Radian
Model No: RD-21-112
Serial No: 209590

Accuracy Required: ± 0.005%

Date of Current Calibration: 10/17/24 Expires 10/17/25

Performed by: Radian Research, Inc., 3852 Fortune Drive, Lafayette Indiana 47905
Date of Next Calibration (Shop equipment W6379) : On or before 04/29/26
Date Lab Scheduled to Perform Calibration: On or before 04/29/26

See page 15 - Copy of Original Manufacturers Calibration Certificate (as left)

List of Equipment to be calibrated by this Item and Accuracies Desired:

1. Certificate of Calibration for In-House Test Equipment: See page 14
 - Model = 2300; serial number = W6379

*This form applies to the following types of primary standards which might include:

- 1) Micro Jouel SC-60 or equivalent.
- 2) Radian Research 703A Calibrator with applicable software or equivalent.

Accepted Standard is NIST Certification.

***Annual Submittal Required**



CERTIFICATE of CALIBRATION

ACS certifies the data provided is accurate and true. The standards used are annually checked against reference standards that are traceable to NIST by an unbroken chain.

MODEL: WECO 2150 SERIAL NO. W4268 DATE OF CERTIFICATION: 4/30/24
DUE DATE: 4/30/25

As received condition:

in tolerance out of tolerance inoperative not checked

Condition upon completion:

in tolerance out of tolerance limited calibration

Comments: Cleaned jaws as well as unit. Calibrated and Certified unit.

Equipment used for certification:

Manufacturer	Model	Serial No.	Date Cal.	Due Date
Radian	RD-23-332	208674	2/20/24	2/20/25

Certified By: *Ken Kearney*

Date: 4/30/24

ACS cannot be held responsible for test board performance after certification is completed. It is the user's responsibility to verify accuracy with a known good transfer standard prior to meter testing.



As Left Certificate of Calibration

Manufacturer: **Radlan Research, Inc.**
Instrument Model: **RD-21-112 Dytronic Portable Standard**
Serial Number: **209590**
Firmware Revision: **07.22.04**
Error Specification: **.02% worst case**

ISO 9001:2015 Certified Quality Management System
ISO/IEC 17025:2017 Accredited Laboratory

Customer Name: **Accurate Calibration**
Address: **32 Elycroft Ave
Rockaway, NJ 07866**

Calibration Lab Name: **Radlan Research, Inc.**
Calibration Lab Address: **3852 Fortune Drive; Lafayette, IN 47905**
Calibration Date: **17-Oct-24**
Report Issue Date: **17-Oct-24**

Environmental Conditions

Temperature: **23°C +/- 2°C**

Humidity: **between 30% and 80%**

P.O.Number:

gratis

RMA:

RO46489

Physical Condition: Undamaged

Radlan Research's As-Found Test Results showed this instrument to be:

New In Tolerance Out of Tolerance Inoperative Limited Calibration Repair Needed

Radlan Research's As-Left Test Results showed this instrument to be:

New In Tolerance Out of Tolerance Inoperative Limited Calibration

For Out of Tolerance conditions, As-Found Data Reports are furnished.

Radlan Research, Inc. certifies the instrument listed above meets or exceeds specifications and was calibrated in compliance with ANSI/NCCL Z540-1-1994 "Calibration Laboratories and Measuring and Test Equipment -- General Requirements" using applicable Radlan Research procedures which meet the requirements of ISO 9001:2015 and ISO/IEC Guide 98-3 "Uncertainty of measurement - Part 3: Guide to the expression of uncertainty in measurement (GUM:1995)".

This instrument was calibrated by a Radlan Research RS-933 Syntron Automated Calibration System which is traceable to the National Institute of Standards and Technology (NIST) and/or other National Metrology Institute (NMI). The Automated Calibration system is cross checked and calibrated on a schedule which is adjusted to maintain required accuracies and traceability. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k=2.

Procedure used for Calibration: **9912163**
Software used for Calibration: **RS-703A Control Program Rel.04.30.03 Test Release Apr 6, 2010**
RS-703A / 703A Tool Number: **9911645**

Standards Used In This Calibration:

<u>Description</u>	<u>Serial Number(s):</u>	<u>Cal. Source</u>	<u>Cal. Number:</u>	<u>Cal. Due Date:</u>
RS-740 Data Collection Module	704402	Radlan Research	704402-20240529	5/29/2025
RS711 Syntron with RS932 Boost Module (Phase A)	703125	Radlan Research	703125-20240213	2/13/2025
RS711 Syntron with RS932 Boost Module (Phase B)	703192	Radlan Research	703192-20240214	2/14/2025
RS711 Syntron with RS932 Boost Module (Phase C)	703140	Radlan Research	703140-20240215	2/15/2025

Laboratory Technician Signature


LAB
474

Template 9903258.08

This report shall not be reproduced, except in full, without prior written approval of the Calibration Facility

Calibration Certificate Number:

Z-209590-20241017-AL

Page 1 of 5 Pages



Primary Standards Identification Form: Electric

Contact Person: Harry Sheneman Phone: 856-723-9585
Company Name: PECO Energy - Meter Services
Location: 1060 W. Swedesford Road, Berwyn, PA 19312
Equipment: TESCO KATC-C2

Manufacturer: TESCO
Model No: KATC-C2
Serial No: KATC-C2-00012

Accuracy Required: ± 0.005%

Date of Current Calibration: 11/15/24 Expires 11/15/25.

Performed by: TESCO LAB, 925 Canal Street, Bristol, Pa. 19007
Date of Next Calibration: On or before 11/15/25
Date Lab Scheduled to Perform Calibration: On or before 11/15/25.

See page 17 - Copy of Original Manufacturers Calibration Certificate

*This form applies to the following types of primary standards which might include:

- 1) Micro Jouel SC-60 or equivalent.
- 2) Radian Research 703A Calibrator with applicable software or equivalent.

Accepted Standard is NIST Certification.

***Annual Submittal Required**



A TESCO COMPANY

CERTIFICATE OF CALIBRATION

Bristol, PA Facility

Phone: 215-785-2338

Fax: 215-781-0508



THE EASTERN SPECIALTY COMPANY

Certificate #:	TESCO120425-03	Data Type:	As Found / As Left
Manufacturer:	TESCO The Eastern Specialty Company	Results Summary:	In Tolerance
Model:	KATC-V2	P.O. Number:	N/A
Highest Assembly-Serial #:	KATC-V2-00014	RMA Number:	CA-25-4005
Procedure:	WI-19-10-058	Revision:	Rev 2
Cal Date:	12/4/2025	Calibration Due Date:	12/4/2026

Error Specification: Within Spec. See second Sheet

Customer Name: PECO Berwyn
Address: 1060 West Swedesford Rd, Berwyn PA, 19312

Calibration Lab Name: TESCO - Bristol
Calibration Lab Address: 925 Canal ST Bristol, PA 19007
Site of Calibration: 925 Canal ST Bristol, PA 19007

Method / Environmental Conditions:

Temperature: 22.1 Deg. C
Humidity: 29.1 % Rh
Method: Binary Decision Acceptance
As-Found Condition: In Tolerance Out of Tolerance
As Left Condition: In Tolerance Out of Tolerance

This instrument is calibrated using standards traceable to the International System of Units (SI), through National Metrology Institutes (NIST, PTS, NRC, NPL, etc.) using ratiometric techniques, or natural physical constants and maintained within the factory recommended calibration cycle, where applicable. The above instrument was tested and calibrated by TESCO in compliance with ISO 9001 and ANSI/NCSL Z540.1 using applicable TESCO procedures.

Instrument Used in This Calibration:

Fluke 6105A SN# 212765352	Cert # TESCO120325-25	Cal Date: 12/3/2025	Cal Due: 3/3/2026
Fluke 6105A SN# 548178450	Cert # TESCO112825-25	Cal Date: 11/28/2025	Cal Due: 2/28/2026

Laboratory Staff Signature: Michael Wallace

The results above relate only to the item(s) calibrated. This certificate shall not be reproduced except in full without the written approval of TESCO. This document certifies that the unit conformed to applicable specifications upon successful completion of the calibration. Where applicable, the expanded uncertainty of measurement at the time of test is given in the following pages. They are calculated in accordance with the method described in the ISO Guide to the Expression of Uncertainty in Measurement (GUM). The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, such that the confidence level approximates 95%. The Phase setting is expressed in degrees and represents 60° current lagging voltage.

Primary Standards Identification Form: Electric

Contact Person: Harry Sheneman Phone: 856-723-9585
Company Name: PECO Energy - Meter Services
Location: 1060 W. Swedesford Road, Berwyn, PA 19312
Equipment: TESCO KATC-V2

Manufacturer: TESCO
Model No: KATC-V2
Serial No: KATC-V2-00014

Accuracy Required: ± 0.005%

Date of Current Calibration: 10/21/24 Expires 10/21/25.
Performed by: TESCO LAB, 925 Canal Street, Bristol, Pa. 19007
Date of Next Calibration: On or before 10/21/26
Date Lab Scheduled to Perform Calibration: On or before 10/21/26.

See page 19 23 - Copy of Original Manufacturers Calibration Certificate

*This form applies to the following types of primary standards which might include:

- 1) Micro Jouel SC-60 or equivalent.
- 2) Radian Research 703A Calibrator with applicable software or equivalent.

Accepted Standard is NIST Certification.

***Annual Submittal Required**



A TESCO COMPANY

CERTIFICATE OF CALIBRATION

Bristol, PA Facility

Phone: 215-785-2338

Fax: 215-781-0508



THE EASTERN SPECIALTY COMPANY

Certificate #:	TESCO112124-02	Data Type:	As Found & As Left
Manufacturer:	TESCO - The Eastern Specialty Company	Results Summary:	In Tolerance
Model:	KATC-C2	P.O. Number:	N/A
Highest Assembly-Serial #:	KATC-C2-1-00012	RMA Number:	CA-24-3489
Procedure:	WI-19-10-058	Revision:	2
Cal Date:	11/15/2024	Calibration Due Date:	11/15/2025
Error Specification:	Within Spec. See second Sheet		
Customer Name:	PECO Berwyn		
Address:	1060 West Swedesford Rd, Berwyn PA, 19312		
Calibration Lab Address:	TESCO - Bristol		
Calibration Lab Name:	925 Canal ST Bristol, PA 19007		
Method / Environmental Conditions:			
Temperature:	23 Deg. C		
Humidity:	34.3 %		
Method:	Binary Decision Acceptance		
As-Left Condition:	<input checked="" type="checkbox"/> In Tolerance <input type="checkbox"/> Out of Tolerance		
<p>This instrument is calibrated using standards traceable to the International System of Units (SI), through National Metrology Institutes (NIST, PTS, NRC, NPL, etc.) using ratiometric techniques, or natural physical constants and maintained within the factory recommended calibration cycle, where applicable. The above instrument was tested and calibrated by TESCO in compliance with ISO 9001 and ANSI/NCSL Z540.1 using applicable TESCO procedures.</p>			
Instrument Used in This Calibration:			
Fluke 6105A SN# 212765352	Cert # EVL973984	Cal Date: 6/3/2024	Cal Due: 6/3/2025
Fluke 6105A SN# 548178450	Cert # EVL951110	Cal Date: 2/28/2024	Cal Due: 2/28/2025
Laboratory Staff Signature:	<u>Michael Wallace</u>		
<p>The results above relate only to the item(s) calibrated. This certificate shall not be reproduced except in full without the written approval of TESCO. This document certifies that the unit conformed to applicable specifications upon successful completion of the calibration.</p> <p>Where applicable, the expanded uncertainty of measurement at the time of test is given in the following pages. They are calculated in accordance with the method described in the ISO Guide to the Expression of Uncertainty in Measurement (GUM). The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, such that the confidence level approximates 95%. The Phase setting is expressed in degrees and represents 60° current lagging voltage.</p>			