Commonwealth of Kentucky
**Public Service Commission**
211 Sower Blvd.
Frankfort, Kentucky 40601-8294
Telephone: (502) 564-3940
psc.ky.gov



June 15, 2026

PARTIES OF RECORD

Re: Case No. 2026-00028

Notice is given to all parties that the attached Customer Meter Test Report has been filed into the record of this proceeding.

If you have any comments you would like to make regarding the contents of the document, please do so within five days of receipt of this letter. If you have any questions, please contact John Park, Staff Attorney III, at John.Park@ky.gov.

Sincerely,

Linda C. Bridwell, PE
Executive Director

Attachment

Commonwealth of Kentucky
**Public Service Commission**
211 Sower Blvd.
Frankfort, Kentucky 40601-8294
Telephone: (502) 564-3940
psc.ky.gov



June 15, 2026

| | |
|---|---|
| RE: | Customer Meter Test Report |
| Case No. | 2026-00028 |
| Inspection ID: | 14429 |
| Customer: | David Ethington |
| Utility: | Jackson Energy Cooperative Corporation |
| Test Date: | June 9, 2026 |
| Test Facility: | Luthan Electric Meter Testing |

On December 19, 2025, the Kentucky Public Service Commission (Commission) received a formal complaint from David Ethington, a customer of Jackson Energy Cooperative Corporation (JEC). On May 28, 2026, the Commission ordered JEC to make meter #66978801 available for testing by Commission staff pursuant to 807 KAR 5:041, Section 17. Records indicate that JEC previously tested Mr. Ethington's meter on November 6, 2025 (Attachment A).

On June 9, 2026, Commission staff arrived at JEC's facility located at 115 Jackson Energy Lane, McKee, KY 40447, to take custody of David Ethington's meter #66978801. Commission staff transported the meter to Luthan Meter Testing located at 625 Birkhead Avenue, Owensboro, Kentucky 42303 for testing. Luthan Electric Meter Testing is an independent third-party testing facility.

The meter test was performed in accordance with 807 KAR 5:041, Section 17 (1). Based on Luthan's meter test results, meter #66978801 met the allowable accuracy requirements of Commission regulation of +/- 1% (Attachment B).

Please review the enclosed report, as you will find further information regarding the complaint. If you have any questions regarding this report, please contact John Redfern at john.redfern@ky.gov or 502-545-7478.

Sincerely,

Brandon S. Bruner
Director, Division of Inspections

Enclosure

Commonwealth of Kentucky
**Public Service Commission**
211 Sower Blvd.
Frankfort, Kentucky 40601-8294
Telephone: (502) 564-3940
psc.ky.gov

# Complaint Meter Test Report
## June 10, 2026
## Case Number: 2026-00028
## Report ID: 14429

Utility: Jackson Energy Cooperative Corporation
Address: 115 Jackson Energy Lane, McKee, KY 40447
Contact: April Renner
Title: Vice President of Corporate Services
Phone: (606) 364-9232
Email: aprilrenner@jacksonenergy.com

Customer: David Ethington
Address: 636 Rush Rd W, London, KY 40244

Testing Facility: Luthan Electric Meter Testing
Test Date: June 9, 2026
Tester: Sara Redenius
PSC Tester ID: E0929

Meter Information:

Manufacturer: Aclara
Meter Serial #: 90678746
Voltage: 240V
Kh: 10.0
Class: 200
Form: 2S
Register Ratio: 1:1

Utility Meter ID #: 66978801
Meter Test Amps (TA): 30
As Found Reading: 71219
As Left Reading: 71219
Type: I-210+
Register Type: Digital
Meter Cover Seal: YES

**Discussion:**
Kentucky Public Service Commission (PSC) received a written complaint from David Ethington, a customer of Jackson Energy Cooperative Corporation (JEC), on December 19, 2025. Prior to the complaint being filed with the PSC, JCE tested meter #66978801 and found the meter to test within the requirements pursuant to regulation 807 KAR 5:041, Section 17 (1) (See Attachment A).

Mr. Ethington's written complaint requested that the PSC test meter #66978801. The meter was picked up at JEC on June 9, 2026, by Commission staff and transported to Luthan Meter Testing in Owensboro, Kentucky. Luthan meter test results are noted in Attachment B.

**Conclusion:**
Based on JEC and Luthan's meter test results, meter #66978801 performed within the allowable tolerance in accordance with KPSC regulation: 807 KAR 5:041, Section 17 (1).

**Staff Finding:**
According to the JEC and Luthan's meter test results, meter #66978801 met the allowable accuracy requirements of KPSC regulation 807 KAR 5:041, Section 17, (1) of +/- 1%. Meter to be secured at PSC pending resolution of proceedings.

John Redfern

Utility Inspector
Division of Inspections
Public Service Commission

Attachments:

A. Customer Complaint and JEC Meter Test Results
B. Luthan Meter Test Results
C. Chain-of-Custody Form
D. Photos of Meter #66978801
E. Luthan Master and Working Watthour Standard Certification
F. Luthan Master Watthour Standard to Working Watthour Standard Comparison

**Case No. 2026-00028**

ATTACHMENT A

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the matter of:

RECEIVED
DEC 19 2025
PUBLIC SERVICE COMMISSION

David Ethington
(Your Full Name)
COMPLAINANT

VS.

Jackson Energy
(Name of Utility)
DEFENDANT

COMPLAINT

The complaint of David Ethington respectfully shows:
(Your Full Name)

(a) David Ethington
(Your Full Name)

636 Rush Rd. Lo. London KY 40744
(Your Address)

(b) Jackson Energy
(Name of Utility)

177 Barbarsville Rd London KY 40744
(Address of Utility)

(c) That: Our last 3 months including current
(Describe here, attaching additional sheets if necessary,

month our utility Bill has doubled. We
the specific act, fully and clearly, or facts that are the reason

have also not been using as much electric.
and basis for the complaint.)

We requested our meter be tested and

Continued on Next Page

Formal Complaint

David Ethridge vs. Jackson Energy



total dispute $ 6746.20

replaced. It was tested or so they say but we were not permitted to see testing and the meter was not replaced We are requesting the bill be ammended and the meter change cost. We feel the meter is not correct.

Wherefore, complainant asks that the bill be ammended and the meter be replaced with a new one and the old meter be tested by a third party not Jackson Energy also they are also trying to say to do budget they go by last years billing using a wheel year

(Specifically state the relief desired.)

Dated at London, Kentucky, this 5 day

(Your City)

of December, 20 25

(Month)

(Your Signature*)

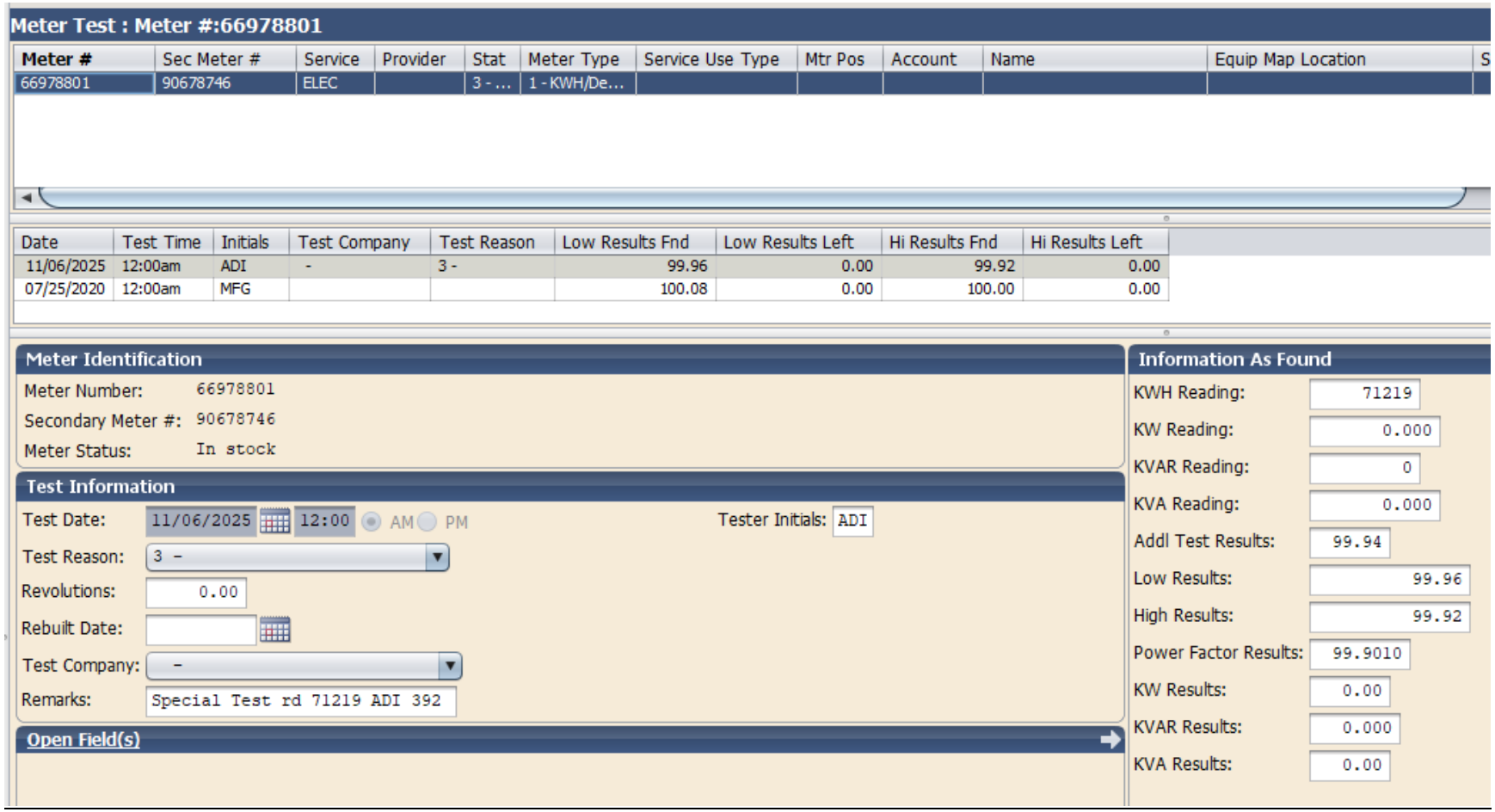
(Name and address of attorney, if any)

12-5-25

Date

*Complaints by corporations or associations, or any other organization having the right to file a complaint, must be signed by its attorney and show his post office address. No oral or unsigned complaints will be entertained or acted upon by the commission.

# PRIOR METER TEST AFTER REMOVAL




David Ethington Jr - Meter test results on previous meter and current meter

# Kentucky Public Service Commission (KPSC)
# Meter Standards Laboratory
## Meter Test Results (Electric)

ATTACHMENT B



### Testing Facility Information

| | | | | | |
|---|---|---|---|---|---|
| Testing Agency: | LUTHAN ELECTRIC METER TESTING | Address: | 625 BIRKHEAD AVENUE | Manager: | CHUCK BOOK |
| Phone Number: | 270-683-2474 | Email: | SREDENIUS@LUTHANMETER.COM | Fax Number: | 270-683-2262 |
| Received By: | SARA REDENIUS | Date Received: | 6/9/2026 | Test Date: | 6/9/2026 |

### Meter Information

| | | | | | |
|---|---|---|---|---|---|
| Manufacture: | ACLARA | Form: | 2S | Multiplier: | 1 |
| Meter Number: | 90678746 | Type: | I210+ | Kh: | 1 |
| Serial Number: | 90678746 | Voltage: | 240V | Meter Cover Sealed: | YES |
| Test Amps (TA): | 30 | Register Type: | DIGITAL | Meter Condition: | GOOD |
| Class: | 200 | Register Ratio: | | Mechanical/Solid State | SS |

### Test Equipment Used

| | | | | | |
|---|---|---|---|---|---|
| Master Std. Type: | RADIAN 10-06 | Working Std. Type: | RADIAN | Test Bench Used: | RADIAN WECO 4150 |
| Master Std. SN: | 508811 | Working Std. SN: | 301534 | Test Bench SN: | 7629 |
| Meter Tester Name: | SARA REDENIUS | KPSC ID: | E0929 | | |

### Test Bench Information Required

1. Attach copy of the latest certification on master watt-hour standard.
2. Attach copy of the latest comparison test between the working watt-hour standard and master watt-hour standard.

### Test Measurements

(complete tests for each of the load conditions specified in the series before repeating additional test series)

| DISC REVS (min) | | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEST AMPS (TA) | | 0.25 | 0.50 | 1 | 1.5 | 2.5 | 3 (LL) | 5 | 10 | 15 | 25 | 30 (FL) | 50 | 30 (0.5 PF) | |
| SERIES | As Found | | | | | | | | | | | | | | As Left |
| 1 | 71219 | NT | NT | 100.06 | 100.12 | 100.00 | 100.02 | 100.05 | 100.01 | 100.01 | 100.01 | 100.01 | 100.03 | 100.03 | 71219 |
| 2 | 71219 | NT | NT | 100.18 | 100.02 | 100.06 | 100.06 | 100.00 | 100.02 | 100.03 | 100.01 | 100.01 | 99.99 | 100.00 | 71219 |
| 3 | 71219 | NT | NT | 100.09 | 100.03 | 100.09 | 100.04 | 100.02 | 100.03 | 100.02 | 100.00 | 100.00 | 99.99 | 100.02 | 71219 |
| 4 | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
| Average | | #DIV/0! | #DIV/0! | 100.11 | 100.06 | 100.05 | 100.04 | 100.02 | 100.02 | 100.02 | 100.01 | 100.01 | 100.00 | 100.02 | |

### Average Meter Error

| | Average | +/- 1% | +/- 2% |
|---|---|---|---|
| FL at 0.5 PF | 100.02 | PASS | PASS |
| (FL + LL) / 2 | 100.02 | PASS | PASS |
| (4FL + LL) / 5 | 100.01 | PASS | PASS |

**Important Notes:**

807 KAR 5:041, Section 17, Test Procedures and Accuracy Requirements.
Pursuant to 807 KAR 5:041, Section 17(1) - AC Watthour meters and associated devices shall be tested at the loads prescribed below and shall not exceed +/- 1% allowable tolerance:

LL - "Light Load" tests are performed at 10% of rated test current (TA) at unity (1.0) Power Factor (PF)
FL - "Full Load" tests are performed at 100% of rated test current (TA) at unity (1.0) Power Factor (PF)
PF - "Power Factor" tests are performed at 100% of rated test current (TA) at 50% (.5) Power Factor (PF)

Pursuant to 807 KAR 5:041, Section 17(1)(b) - When a meter is tested on complaint or request, additional test runs shall be made and care exercised to insure that any trouble with the meter will be detected. (A minimum of 3 series of tests at various load conditions should be performed. If the meter accuracy for any test condition is greater than +/- 1% additional test series shall be performed to verify the accuracy of the meter.)

Pursuant to 807 KAR 5:041, Section 17(1)(c) - For refund and back billing purposes, accuracy of the meter shall be determined by adding the average registration at LL (10% of test current) and the average registration at full load (100 % of test current) and dividing by 2.

Pursuant to 807 KAR 5:006, Section 11(2)(a) - If test results on a customer's meter show an average meter error greater than 2% fast or slow, or if a customer has been incorrectly billed for another reason, except if a utility has filed a verified complaint with the appropriate law enforcement agency alleging fraud or theft by a customer, the utility shall:

1. Immediately determine the period during which the error has existed;
2. Recompute and adjust the customer's bill to either provide a refund to the customer or collect an additional amount of revenue from the underbilled customer; and
3. Readjust the account based upon the period during which the error is known to have existed.

ATTACHMENT C



Commonwealth of Kentucky
**Public Service Commission**
211 Sower Blvd.
Frankfort, Kentucky 40601-8294
Telephone: (502) 564-3940
psc.ky.gov



# PSC Division of Inspections
## METER CHAIN-OF-CUSTODY

**Utility/Agency:** Jackson Energy Cooperative
**Address:** 115 Jackson Energy Lane McKee, KY 40447
**Complainant:** David Ethington
**Address:** 636 Rush Rd W, London KY 40244
**Meter Number:** 66978801
**Case Number:** 2026-00028

| Manufacture | Form | Class | Volts | Type | Kh | TA | Multiplier | M/SS * |
|---|---|---|---|---|---|---|---|---|
| Aclara | 2S | 200 | 240V | N/A | 10.0 | 30 | 1 | SS |

* Mechanical (M) Solid State (SS)

| Released by (Print/Sign) | Received by (Print/Sign) | Time | Date | Meter Reading |
|---|---|---|---|---|
| Brian Turner Brian Turner | John Redfern John Redfern | 8:35 AM | 6/9/26 | As Found: 71219 |
| 1 | 1 | | | As Left: 71219 |

**PSC Seal Installed:** Yes ☑ No ☐ **Meter cover sealed:** Yes ☑ No ☐

| Installed by (Print/Sign) | Date Installed | Removed by (Print/Sign) | Date Removed | PASS/FAIL |
|---|---|---|---|---|
| John Redfern John Redfern | 6/9/26 | 1 | | PASS |

# Complaint Meter Test

Utility requirements per 807 KAR 5:006, Section 19 (1), before a commission meter test can be performed.

Section 19: Request Tests.
(1) A utility shall make a test of a meter upon written request of a customer if the request is not made more frequently than once each twelve (12) months.

(a) The customer shall be given the opportunity to be present at the requested test.

(b) If the tests show the as-found meter accuracy is within the limits allowed by 807 KAR 5:022, Section 8(3)(a)1[1]., 5:022, Section 8(3)(b)1[2]., 5:041, Section 17(1)[3], or 5:066, Section 15(4)[4], the utility may make a reasonable charge for the test.

(c) The commission-approved amount of the charge shall be established in the utility's filed tariff.

(d) The utility shall maintain a meter removed from service for testing, in a secure location under the utility's control, for a period of six (6) months from the date the customer is notified of the finding of the investigation and the time frame the meter will be secured by the utility or if the customer has filed a formal complaint pursuant to KRS 278.260, the meter shall be maintained until the proceeding is resolved, or the meter is picked up for testing by personnel from the commission's Meter Standards Laboratory.

Customer option per 807 KAR 5:006, Section 19 (2), after the utility has performed meter test.

(2) After having first obtained a test from the utility, a customer of the utility may request a meter test by the commission upon written application.

(a) The request shall not be made more frequently on one (1) meter than once each twelve (12) months.

(b) Upon request, personnel from the commission's Meter Standards Laboratory shall pick up the meter from the utility and maintain the meter for a minimum of six (6) months from the date the customer is notified of the finding of the investigation and the time frame the meter will be secured by the commission's Meter Standards Laboratory or if the customer has filed a formal complaint pursuant to KRS 278.260, the meter shall be maintained until the proceeding is resolved.

---

[1] (3) Accuracy requirements for meters. All tests to determine accuracy of registration of any gas meters shall be made by a qualified meter tester and with suitable facilities.
(a) Diaphragm displacement meters:
1. Before being installed for use by any customer, every diaphragm displacement gas meter, whether new, repaired or removed from service for any cause shall be in good working condition and shall be adjusted to be correct to within one-half (1/2) of one (1) percent, plus or minus when passing gas at approximately twenty (20) percent and 100 percent of the rated capacity of the meter as specified by the manufacturer based on five-tenths (0.5) inch water column differential. A pilot test or quartering test to determine that the meter will register at one-half (1/2) of one (1) percent of the rated capacity shall be made before placing meters in service.

[2] (b) Other than diaphragm displacement meters.
1. All meters other than diaphragm displacement meters shall be tested at approved intervals by the utility meter tester using flow provers or other approved methods either in the shop or at the location of use at the utility's option and with the commission's approval of facilities and methods used. Accuracy of these meters shall be maintained as near 100 percent as possible. Test ranges and procedures shall be as prescribed in adopted standards or approved by the commission.

[3] Test Procedures and Accuracy Requirements. (1) Meters and associated devices shall be tested at the loads indicated below and adjusted as close as practicable to zero error when found to exceed the tolerance prescribed below.

| AC Watt-hour Meters | | |
|---|---|---|
| % of Test Current | Power Factor | Allowable Tolerance |
| 100 | 1.0 | + or - 1.0% |
| 10 | 1.0 | + or - 1.0% |
| 100 | 0.5 | + or - 1.0% |
| DC Watt-hour Meters | | |
| % of Test Current | | Allowable Tolerance |
| 100 | 1.0% | |
| 10 | 1.0% | |

[4] (4) Determination of meter error for bill adjustment purposes. When upon periodic, request or complaint test, a meter is found to be in error in excess of the limits allowed by the commission's administrative regulations, three (3) additional tests shall be made: one (1) at seventy-five (75) percent of rated maximum capacity; one (1) at fifty (50) percent of rated maximum capacity; one (1) at twenty-five (25) percent of the rated maximum capacity. The average meter error shall be the algebraic average of the errors of the three (3) tests.

ATTACHMENT D

METER NUMBER

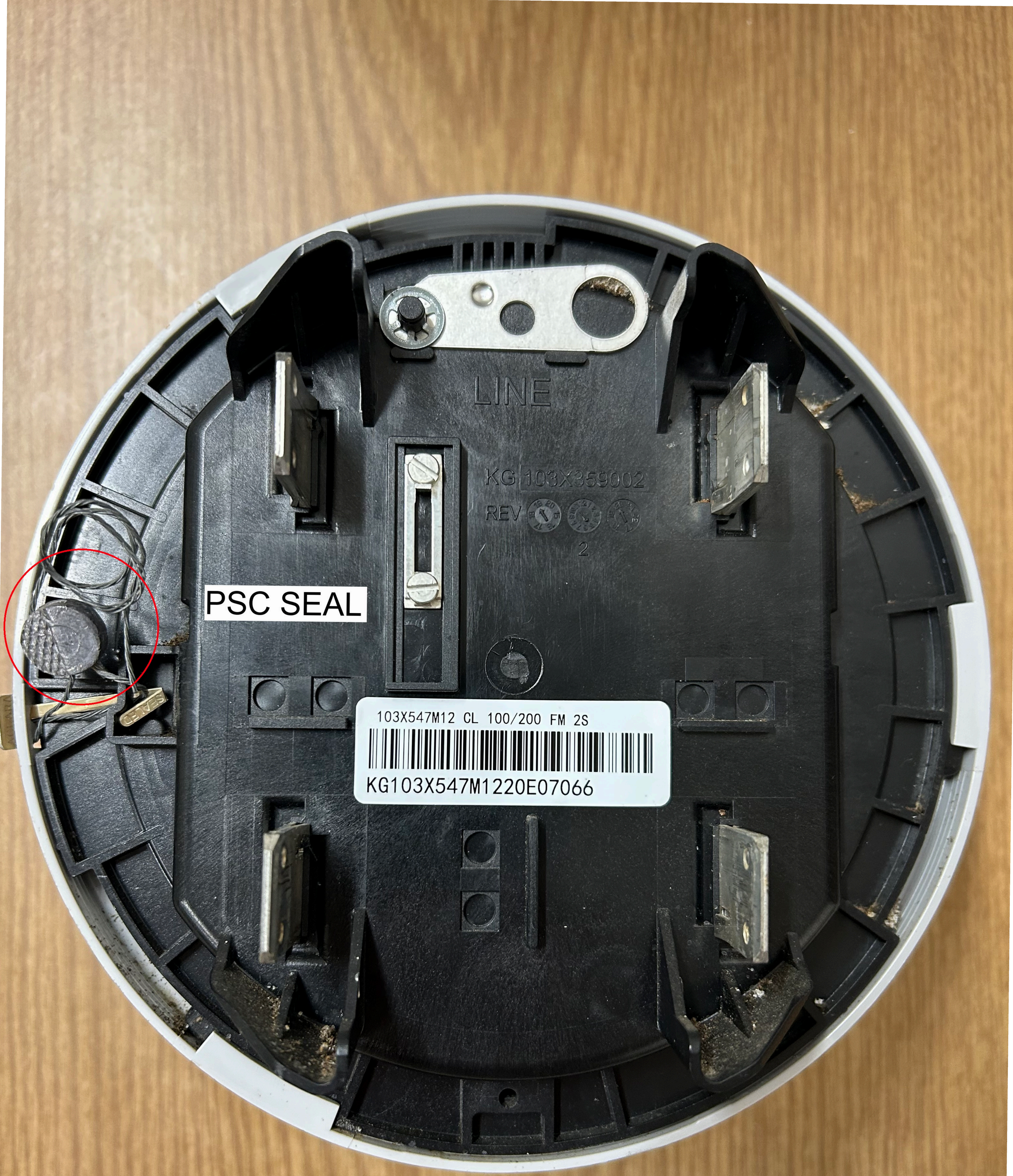
UMT-R-ACB
66978801
Y72454-1B

Aclara
I-210+
O F2
V2 J2
U2
90 678 746
0720
CL 200 240V 3W FM2S
727X231117 60HZ TA 30 Kh 10.0 Kt 1.0

JACKSON ENERGY

90678746


LINE
KG103X359002
REV
2
UTILITY SEAL
103X547M12 CL 100/200 FM 2S
KG103X547M1220E07066


LINE
KG 103X359002
REV
2
PSC SEAL
103X547M12 CL 100/200 FM 2S
KG103X547M1220E07066

Radian Research, Inc. | 3852 Fortune Drive, Lafayette, Indiana 47905 | Ph: 765-449-5500 Fax: 765-448-4614 | www.radianresearch.com

# As Left Certificate of Calibration

| | |
|---|---|
| Manufacturer | **Radian Research, Inc.** |
| Instrument : | **Metronic Portable Standard** |
| Model: | **RM-10-06** |
| Serial Number | **508811** |
| Error Specification | +/-.05% Watthour, +/-.1%Other |

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

| | |
|---|---|
| Customer Name: | LUTHAN METER TESTING |
| Address: | 625 BIRKHEAD AVENUE<br>OWENSBORO, KY 42303 |
| Calibration Lab Name: | Radian Research, Inc. |
| Calibration Lab Address: | 3852 Fortune Drive; Lafayette, IN 47905 |
| Calibration Date: | 1/10/2026 |
| Report Issue Date: | 1/16/2026 |

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

P.O.Number: CREDIT CARD
RMA / Certificate Number: 49923

**Physical Condition:** Undamaged

**Radian Research's As-Found Test Results showed this Instrument to be:**
[ ] New [X] In Tolerance [ ] Out of Tolerance [ ] Inoperative [ ] Limited Calibration [ ] Repair Needed

**Radian Research's As-Left Test Results showed this Instrument to be:**
[ ] New [X] 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-703A 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: | 9912203 |
| Software used for Calibration: | RS-703A Control Program Rel. 04.30.03 |
| RS-703A / 933 Tool Number: | 9911835 |

***Standards Used In This Calibration:***

| Description | Serial Number(s): | Cal. Source | Cal. Number: | Cal. Due |
|---|---|---|---|---|
| RS-740 Data Collection Module | 704108 | Radian Research | 704108-20250408 | 4/8/2026 |
| RS-711 Syntron with RS-932 Boost Module (Phase A) | 703111 | Radian Research | 703111-20251219 | 12/19/2026 |

**Laboratory Technician Signature**

Daniel L. Roberts LAB 282

*Template 9903043.F*


Calibration Certificate Number:

508811-20260110-AL



RADIAN Research

Radian Research, Inc. | 3852 Fortune Drive, Lafayette, Indiana 47905 | Ph: 765-449-5500 Fax: 765-448-4614 | www.radianresearch.com

# As Left Calibration Report

**RM-10-06 Metronic Portable Standard**

**Mode.....Watt-hour 60 Hz**

**Date..... 10-Jan-26**

**Serial Number..... 508811**

The following data was collected by a Radian Research RS-703A Automated Calibration System. The RS-703A Watt-hour calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and/or other National Metrology Institute (NMI). Test time is 15 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as percent error. The Automated Calibration System has at least a 4 times greater accuracy than the instrument under test.

## Voltage & Phase Angle

| Amps | 120 Unity | 120 60°Lag | 240 Unity | 240 60°Lag | 480 Unity | 480 60°Lag | 600 Unity | 600 60°Lag |
|---|---|---|---|---|---|---|---|---|
| 0.25 | 0.005 | -0.002 | 0.004 | -0.001 | 0.003 | -0.001 | 0.001 | -0.005 |
| 0.5 | 0.004 | 0.004 | 0.005 | 0.003 | 0.005 | 0.003 | 0.002 | -0.001 |
| 1.0 | 0.004 | 0.001 | 0.004 | 0.002 | 0.003 | 0.002 | 0.002 | -0.001 |
| 2.0 | 0.003 | 0.003 | 0.003 | 0.002 | 0.004 | 0.003 | 0.001 | 0.000 |
| 2.5 | 0.004 | 0.001 | 0.003 | 0.003 | 0.003 | 0.000 | 0.001 | -0.001 |
| 3.0 | 0.004 | 0.002 | 0.003 | 0.002 | 0.004 | 0.000 | 0.001 | -0.001 |
| 5.0 | 0.004 | 0.001 | 0.002 | 0.002 | 0.002 | -0.001 | 0.000 | -0.003 |
| 10.0 | 0.003 | 0.002 | 0.003 | 0.001 | 0.003 | 0.001 | 0.000 | -0.002 |
| 12.0 | 0.003 | -0.001 | 0.003 | 0.000 | 0.002 | 0.000 | -0.001 | -0.003 |
| 15.0 | 0.003 | 0.002 | 0.002 | 0.001 | 0.002 | 0.000 | -0.001 | -0.003 |
| 20.0 | 0.004 | 0.000 | 0.002 | 0.000 | 0.002 | 0.000 | -0.001 | -0.002 |
| 25.0 | 0.002 | 0.000 | 0.002 | 0.001 | 0.002 | 0.001 | 0.000 | -0.002 |
| 30.0 | 0.005 | 0.002 | 0.005 | 0.004 | 0.004 | 0.002 | 0.002 | 0.000 |
| 40.0 | 0.003 | 0.002 | 0.003 | 0.000 | 0.002 | 0.002 | 0.000 | -0.002 |
| 45.0 | 0.003 | 0.001 | 0.002 | 0.002 | 0.003 | 0.002 | 0.000 | -0.002 |
| 50.0 | 0.003 | 0.001 | 0.002 | 0.000 | 0.002 | 0.001 | -0.001 | -0.003 |
| Average | 0.004 | 0.001 | 0.003 | 0.001 | 0.003 | 0.001 | 0.000 | -0.002 |
| Minimum | 0.002 | -0.002 | 0.002 | -0.001 | 0.002 | -0.001 | -0.001 | -0.005 |
| Maximum | 0.005 | 0.004 | 0.005 | 0.004 | 0.005 | 0.003 | 0.002 | 0.000 |

| *Overall* | Unity | 60°Lag |
|---|---|---|
| Average | 0.002 | 0.000 |
| Minimum | -0.001 | -0.005 |
| Maximum | 0.005 | 0.004 |

Calibration Certificate Number:

508811-20260110-AL



RADIAN Research

Radian Research, Inc. | 3852 Fortune Drive, Lafayette, Indiana 47905 | Ph: 765-449-5500 Fax: 765-448-4614 | www.radianresearch.com

# As Left Calibration Report

**RM-10-06 Metronic Portable Standard**

**Mode.....VAR-hour 60 Hz**

**Date..... 10-Jan-26**

**Serial Number..... 508811**

The following data was collected by a Radian Research RS-703A Automated Calibration System. The RS-703A VAR-Hour calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and/or other National Metrology Institute (NMI). Test time is 15 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as percent error. The Automated Calibration System has at least a 4 times greater accuracy than the instrument under test.

## Voltage & Phase Angle

| Amps | 120 90°Lag | 120 30°Lag | 240 90°Lag | 240 30°Lag | 480 90°Lag | 480 30°Lag | 600 90°Lag | 600 30°Lag |
|---|---|---|---|---|---|---|---|---|
| 0.25 | -0.026 | -0.024 | -0.032 | -0.021 | -0.033 | -0.015 | -0.033 | -0.018 |
| 0.5 | -0.026 | -0.027 | -0.032 | -0.023 | -0.032 | -0.020 | -0.035 | -0.024 |
| 1.0 | -0.027 | -0.028 | -0.033 | -0.024 | -0.033 | -0.021 | -0.035 | -0.023 |
| 2.0 | -0.028 | -0.028 | -0.034 | -0.026 | -0.035 | -0.023 | -0.036 | -0.028 |
| 2.5 | -0.030 | -0.029 | -0.033 | -0.027 | -0.033 | -0.023 | -0.038 | -0.026 |
| 3.0 | -0.030 | -0.027 | -0.033 | -0.027 | -0.033 | -0.021 | -0.036 | -0.026 |
| 5.0 | -0.031 | -0.030 | -0.033 | -0.025 | -0.033 | -0.022 | -0.036 | -0.027 |
| 10.0 | -0.032 | -0.030 | -0.035 | -0.027 | -0.034 | -0.025 | -0.038 | -0.029 |
| 12.0 | -0.032 | -0.032 | -0.036 | -0.029 | -0.035 | -0.024 | -0.037 | -0.029 |
| 15.0 | -0.034 | -0.031 | -0.034 | -0.027 | -0.035 | -0.024 | -0.037 | -0.029 |
| 20.0 | -0.033 | -0.033 | -0.035 | -0.029 | -0.034 | -0.025 | -0.038 | -0.027 |
| 25.0 | -0.034 | -0.032 | -0.035 | -0.029 | -0.035 | -0.023 | -0.038 | -0.028 |
| 30.0 | -0.032 | -0.034 | -0.035 | -0.030 | -0.034 | -0.027 | -0.038 | -0.031 |
| 40.0 | -0.034 | -0.034 | -0.036 | -0.030 | -0.035 | -0.029 | -0.039 | -0.030 |
| 45.0 | -0.036 | -0.035 | -0.035 | -0.033 | -0.036 | -0.028 | -0.038 | -0.031 |
| 50.0 | -0.037 | -0.034 | -0.037 | -0.031 | -0.035 | -0.027 | -0.039 | -0.030 |
| Average | -0.031 | -0.031 | -0.034 | -0.027 | -0.034 | -0.024 | -0.037 | -0.027 |
| Minimum | -0.037 | -0.035 | -0.037 | -0.033 | -0.036 | -0.029 | -0.039 | -0.031 |
| Maximum | -0.026 | -0.024 | -0.032 | -0.021 | -0.032 | -0.015 | -0.033 | -0.018 |

| ***Overall*** | **90°Lag** | **30°Lag** |
|---|---|---|
| **Average** | -0.034 | -0.027 |
| **Minimum** | -0.039 | -0.035 |
| **Maximum** | -0.026 | -0.015 |

Calibration Certificate Number:

508811-20260110-AL

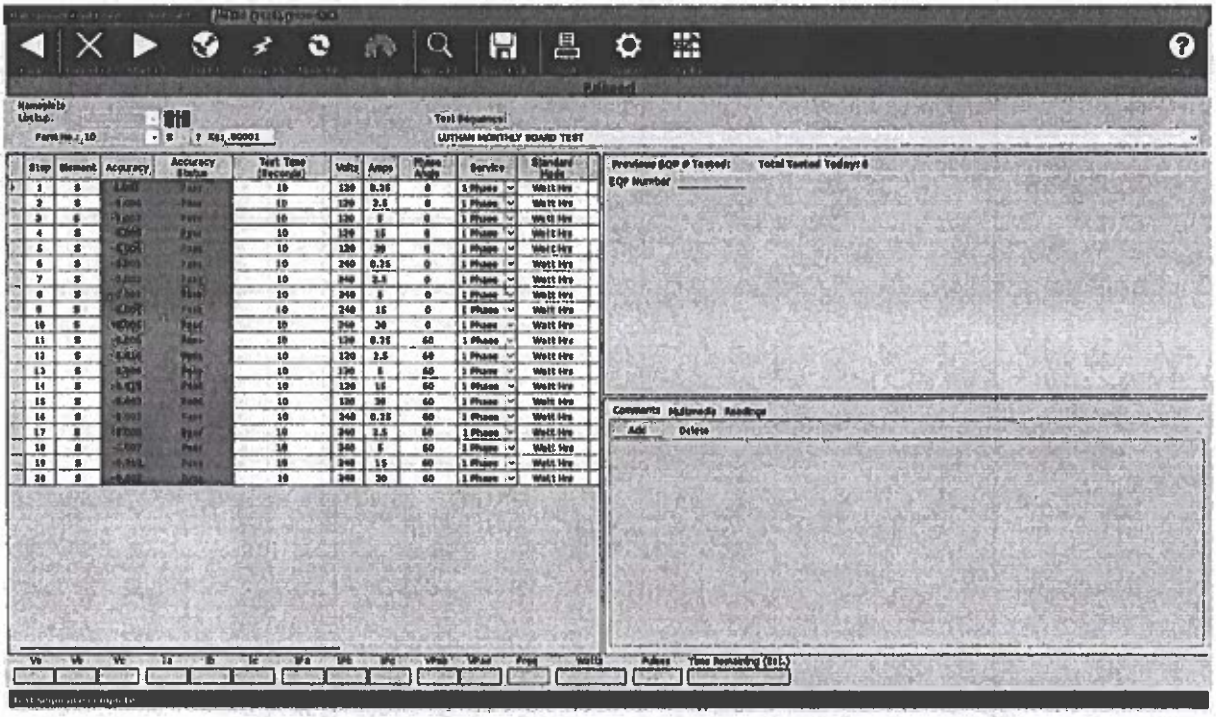


RADIAN Research

ATTACHMENT F

Testboard #2

6-1-2026




4150 - SN - 7629

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* Denotes served by Email