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June 9, 2023

Mr. John Burbridge  
Wyoming Public Service Commission  
Hansen Building, Suite 300  
2515 Warren Avenue  
Cheyenne, WY 82002

Re: Docket No. 10014-229-CT-23/ Record No. 17274  
Supplemental Filing No. 1 to Application for Changes to Rules and Regulations

Dear Mr. Burbridge

Per suggested changes sited in Commission Staff Investigative Request Set 1 on the above referenced Docket, please accept this Supplemental Filing containing revised Exhibits F and G pertaining to pages 49R-54R.

An original printed version has been mailed to your attention.

Thank you for your consideration.

Sincerely,

A handwritten signature in black ink that reads "Brian J. Mills".

Brian J. Mills  
Chief Executive Officer

BJM/sjp

Enclosures

Meter Testing and Verification Program

Section IX

RULES AND REGULATIONS OF SERVICE

Section IX

METER TESTING AND VERIFICATION PROGRAM

I. GENERAL STATEMENT

In compliance with the Wyoming Public Service Commission's (Commission's) adopted Rule in Chapter 3, Section 18 (Meter Testing Program), the Corporation has developed and submitted the following Meter Testing and Verification Program. The intent of this Meter Testing and Verification Program is to develop a program for the calibration, recertification, care, and maintenance of meters, recording devices, field testing equipment, and meter calibration equipment ~~in order to~~ keep the equipment in proper working condition. The Corporation, or its certified contractors, has all necessary meters, instruments, meter calibration equipment, and facilities necessary to carry out its meter-testing program. The facilities and equipment are available for inspection by any authorized representative of the Commission. Finally, meter verifications, test results, and audit data as well as equipment calibration records are kept electronically and available upon Commission request or as otherwise required by the Commission's and Corporations Rules and Regulations ~~with regard to~~ regarding member requests.

II. RULES AND GUIDELINES

~~B.A.~~ The Corporation's Meter Testing and Verification program shall conform as applicable to the following guidelines and rules:

1. RUS Bulletin 1730-1;
2. RUS Form 300;
3. Wyoming Public Service Commission, Chapter 3, Section 18.

III. METER ACCURACY

A. The Corporation's Meter Testing and Verification program will statistically verify meter accuracy according to:

1. ANSI for Electric Meters Code for Electric Metering (ANSI C12.1)
2. American National Standard Sampling Procedures and Tables for Inspection by Variables for Percent Non-Conforming (ANSI/ASQ Z1.9-2008) for sampling.

B. The Corporation will verbally advise members about the contents of the ANSI Standards in person or by phone. If the member desires to personally review the ANSI Standards, they may

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Issued by

~~Michael E. Easley~~ Brian J. Mills, Chief Executive Officer

Issued: ~~June 9, 2023~~ May 4, 2021

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Dkt. No. 10014-~~217229~~-CT-~~231~~

Meter Testing and Verification Program

Section IX

do so in one of the Corporation's main offices in Sundance, Gillette, or Sheridan. Prior to such review, they must read and acknowledge the ANSI Standards licensing requirements and affirm that they will not copy or reproduce them in any manner.

III. METER ACCURACY cont'd

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**Meter Testing and Verification Program**

**Section IX**

METER ACCURACY (cont'd)

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All in-service billing/revenue meters in the Corporation's service territory will be divided into homogeneous test groups based on form factor. A random sample from each homogeneous lot will be selected, tested, and statistically analyzed. The random test sample program as described below will be conducted annually thereafter. Meters will be considered accurate for billing purposes if they register within +/- two percent (2%) under test conditions.

**IV. QUALIFICATIONS**

A. The Corporation will meet the following qualifications:

1. One hundred percent (100%) testing of all meters by the manufacturer prior to shipment to the Corporation;
- ~~1. Quality assurance testing of all meters by Corporation personnel before initial installation (testing information will be loaded into the Corporation's billing system for historical reference);~~
2. Minimum of eight percent (8%) (eight [8] of ninety-six [96] per pallet) of meters received new by Corporation personnel shall be quality assurance tested by the Corporation.;
- ~~2.3. Ability to monitor all in-service meters for performance through daily read rates;~~
- ~~3.4. Ability to evaluate member usage abnormalities through daily reads; Ability to monitor member usage abnormalities on a daily basis;~~
5. Field test and verify all instrument rated meters and associated instrumentation transformers once every three (3) years; and
6. Meter forms other than instrument rated meter forms will be random sample tested per the Metering Testing and Verification Schedule.
- ~~4. Random sample testing and field verification of meters after ten (10) years in service (explained in detail below);~~
- ~~5. Field test and verify all instrument rated meters and associated instrumentation transformers once every three (3) years; and~~
7. Testing results will be stored in the Corporation's billing system for historical reference.

Table 1. Meter Forms and Associated Information

<u>Meter Number Starting Letter</u>	<u>NEMA Form</u>	<u>Number of Phases</u>	<u>Class in Amps</u>	<u>Voltage</u>	<u>Application</u>	<u>Number of Wires</u>
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Meter Testing and Verification Program

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<u>Z or TZ</u>	<u>1S</u>	<u>1</u>	<u>100 or 200</u>	<u>120</u>	<u>Self-contained</u>	<u>2</u>
<u>T</u>	<u>2S</u>	<u>1</u>	<u>200</u>	<u>240</u>	<u>Self-contained</u>	<u>3</u>
<u>J</u>	<u>2S</u>	<u>1</u>	<u>200</u>	<u>240</u>	<u>Self-contained</u>	<u>3</u>
<u>HJ</u>	<u>2S</u>	<u>1</u>	<u>200</u>	<u>240</u>	<u>Self-contained</u>	<u>3</u>
<u>HT</u>	<u>2S</u>	<u>1</u>	<u>200</u>	<u>240</u>	<u>Self-contained</u>	<u>3</u>
<u>U</u>	<u>2S</u>	<u>1</u>	<u>200</u>	<u>240</u>	<u>Self-contained</u>	<u>3</u>
<u>H</u>	<u>2S</u>	<u>1</u>	<u>200</u>	<u>240</u>	<u>Self-contained</u>	<u>3</u>
<u>A or DA</u>	<u>2S</u>	<u>1</u>	<u>320</u>	<u>240</u>	<u>Self-contained</u>	<u>3</u>
<u>N</u>	<u>12S</u>	<u>1 &amp; 3</u>	<u>200</u>	<u>120-480</u>	<u>Self-contained</u>	<u>3</u>
<u>E</u>	<u>16S</u>	<u>3</u>	<u>20</u>	<u>120-480</u>	<u>Self-contained</u>	<u>4</u>
<u>V or DV</u>	<u>3S</u>	<u>1</u>	<u>10 or 20</u>	<u>120, 240, 480</u>	<u>Instrument-rated</u>	<u>2</u>
<u>Y</u>	<u>4S</u>	<u>3</u>	<u>10 or 20</u>	<u>240</u>	<u>Instrument-rated</u>	<u>3</u>
<u>M</u>	<u>5S</u>	<u>3</u>	<u>20</u>	<u>120-480</u>	<u>Instrument-rated</u>	<u>4</u>
<u>R</u>	<u>5S, 6S, 9S</u>	<u>3</u>	<u>20</u>	<u>120-480</u>	<u>Instrument-rated</u>	<u>3 or 4</u>

Table 1. Meter Forms and Associated Information

<u>Meter Number Starting Letter</u>	<u>NEMA Form</u>	<u>Number of Phases</u>	<u>Class in Amps</u>	<u>Voltage</u>	<u>Application</u>	<u>Number of Wires</u>
<u>Z or TZ</u>	<u>1S</u>	<u>1</u>	<u>100 or 200</u>	<u>120</u>	<u>Self-contained</u>	<u>2</u>
<u>T</u>	<u>2S</u>	<u>1</u>	<u>200</u>	<u>240</u>	<u>Self-contained</u>	<u>3</u>
<u>J</u>	<u>2S</u>	<u>1</u>	<u>200</u>	<u>240</u>	<u>Self-contained</u>	<u>3</u>
<u>HJ</u>	<u>2S</u>	<u>1</u>	<u>200</u>	<u>240</u>	<u>Self-contained</u>	<u>3</u>
<u>HT</u>	<u>2S</u>	<u>1</u>	<u>200</u>	<u>240</u>	<u>Self-contained</u>	<u>3</u>
<u>U</u>	<u>2S</u>	<u>1</u>	<u>200</u>	<u>240</u>	<u>Self-contained</u>	<u>3</u>
<u>H</u>	<u>2S</u>	<u>1</u>	<u>200</u>	<u>240</u>	<u>Self-contained</u>	<u>3</u>
<u>A or DA</u>	<u>2S</u>	<u>1</u>	<u>320</u>	<u>240</u>	<u>Self-contained</u>	<u>3</u>
<u>N</u>	<u>12S</u>	<u>1 &amp; 3</u>	<u>200</u>	<u>120-480</u>	<u>Self-contained</u>	<u>3</u>
<u>E</u>	<u>16S</u>	<u>3</u>	<u>20</u>	<u>120-480</u>	<u>Self-contained</u>	<u>4</u>
<u>V or DV</u>	<u>3S</u>	<u>1</u>	<u>10 or 20</u>	<u>120, 240, 480</u>	<u>Instrument-rated</u>	<u>2</u>
<u>Y</u>	<u>4S</u>	<u>3</u>	<u>10 or 20</u>	<u>240</u>	<u>Instrument-rated</u>	<u>3</u>
<u>M</u>	<u>5S</u>	<u>3</u>	<u>20</u>	<u>120-480</u>	<u>Instrument-rated</u>	<u>4</u>
<u>R</u>	<u>5S, 6S, 9S</u>	<u>3</u>	<u>20</u>	<u>120-480</u>	<u>Instrument-rated</u>	<u>3 or 4</u>

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Meter Number Starting Letter	NEMA Form		Phase	Class (Amps)	Voltage	Application	Number of Wires
TZ	1S		1 $\square$	100 <del>or</del> 200	120	Self-contained	2
T	2S		1 $\square$	200	240	Self-contained	3
U	2S		1 $\square$	200	240	Self-contained	3

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Meter Testing and Verification Program

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QUALIFICATIONS (cont'd)

H	2S	1□	200	240	Self-contained	3
A	2S	1□	200	240	Self-contained	3
N	12S	1□ & 3□	200	120-480	Self-contained	3
V	3S	1□	10 or 20	120, 240, 480	Instrument-rated	2
Y	4S	3□	10 or 20	240	Instrument-rated	3
W	16S	3□	200	120-480	Self-contained	4
E	16S	3□	20	120-480	Self-contained	4- Reactive
M	5S	3□	20	120-480	Instrument-rated	4
P	6S	3□	20	120-480	Instrument-rated	4
X	9S	3□	20	120-480	Instrument-rated	4
R	5S, 6S, 9S	3□	20	120-480	Instrument-rated	3 or 4 Reactive

IV. QUALIFICATIONS cont'd

AAAAAA. Test Equipment

B. The Corporation uses a variety of equipment to test meters and associated instrumentation. This equipment includes the following list along with the calibration schedule. All calibrations on test equipment conform to ANSI standards and manufacturer recommendations. All calibration is done by a third-party, certified contractor, or by the manufacturer of the equipment. These calibration records are available for inspection upon request or as required by the Commission. All equipment has protective cases which are used for transport between job locations to ensure there is no damage or issues that may affect testing results. These cases are stored in temperature-controlled environments when not in use and are only taken out during actual testing procedures. In cases where results may not seem correct to the technician, there are several devices for each model type so results can be cross checked between two devices, as appropriate, to provide correct validation.

1. Laboratory Meter Test Boards (calibrated annually)
  - a. Radian Research – Models RFL 5800, WECO 2350, and WECO 4050
2. Portable Test Sets (calibrated annually)

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Powder River Energy Corporation  
P.O. Box 930  
Sundance, WY 82729

Wyoming PSC No. 10

~~2<sup>nd</sup> 1<sup>st</sup> Revised Sheet No. 500R~~  
Cancels ~~Original 1<sup>st</sup> Revised Sheet No. 500R~~

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Meter Testing and Verification Program

Section IX

- a. Probewell – Models MT-1, MT-1/NT9, MT-1NT
3. Instrumentation Test Equipment (calibrated bi-annually)
  - a. SpinLab Bird Dog – Models 5000, 6000

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Meter Testing and Verification Program

Section IX

V. METER TESTING AND VERIFICATION SCHEDULE

A. The schedule for meter testing and verification will consist of the following:

1. All ~~single phase~~ and ~~three phase~~ demand billed accounts, including ~~three phase~~ instrument rated metered accounts and substation meters, will be tested, and verified at least once every three (3) years. The Current Transformers (CTs) and Potential Transformers (PTs) for these metering points will also be tested with test results stored in the Corporation's records.
2. All 69-kV metered accounts will be tested and verified once every six (6) months. The Current Transformers (CTs) and Potential Transformers (PTs) for these metering points will also be tested with test results stored in the Corporation's records.
3. A random sample, from each of the remaining meter form types (specifically 2S, 12S, and 16S) will be selected to be tested/verified annually according to the ANSI guidelines listed above. If more than four (~~4~~) percent (~~4~~%) of the meters within each meter form type listed above are not within a +/- two percent (2%) compliance, another random sampling of meters from that form type will be chosen to be tested/verified. Additionally, if a Corporation meter, when tested, in any form group varies more than +/- two percent (-2%), the Corporation will replace that meter at the time of test/verification. Once a meter has been randomly selected for testing, it will be taken out of the list of potential meters for random selection for the next five (5) years.

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V. METER TESTING AND VERIFICATION SCHEDULE (cont'd)

Please refer to Table 1 above for a complete list and description of each NEMA meter type currently used in active meters on the Corporation's system. Additionally, forms for verifying field information are taken directly from the Service Orders for each test/verification. Service Orders are generated out of information currently residing in the Corporation's billing system (CIS). After field information is gathered/verified, the Corporation's billing system is matched/updated with all appropriate information.

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Meter Testing and Verification Program

Section IX

~~METER TESTING AND VERIFICATION SCHEDULE (cont'd)~~

~~D.B. Meter Testing and Verifications~~

For meter tests and verifications, the following information is gathered or verified:

- Meter number
- Secondary meter number
- Meter type
- ~~Register type~~
- ~~Usage dials~~
- ~~Meter phase~~
- Number of wires
- Manufacturer
- Meter type description
- NEMA form
- Class
- Amps
- Volts
- Base KH
- Register ratio
- Technician name
- ~~Actual number of dials~~
- Rate
- Revenue Class
- Seal
- Billing multiplier
- Present reading
- Previous reading
- Demand reading (if applicable)
- ~~Power factor~~
- ~~Township, Range, Section~~
- ~~Latitude/Longitude~~
- ~~Transformer capacity~~
- Date of test/verification

~~E.C. Potential Transformer (PT) Tests and Verifications~~

For field meter tests and verifications, the following information is gathered or verified:

- System voltage
- Ratio
- Accuracy
- Fused (yes/no)
- ~~Latitude/Longitude~~
- Date of test
- Technician name

~~F.D. Current Transformer (CT) Tests and Verifications~~

For field meter tests and verifications, the following information is gathered or verified:

- System voltage
- Ratio
- Accuracy
- Short time rating
- ~~Latitude/Longitude~~
- Date of test
- Technician name

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Meter Testing and Verification Program

Section IX

METER TESTING AND VERIFICATION SCHEDULE (cont'd)

~~G.E.~~ Instrument Rated Services

The Corporation is required to test instrument rated services once every three (3) years.

~~H.F.~~ Self-Contained Services

The Corporation will conduct the following inspection and testing at each self-contained service within the randomly sampled NEMA form type groups:

1. Conduct a visual inspection of the service noting or completing anything that needs to be fixed:
  - a. Meter;
  - b. Seal;
  - c. Meter base;
  - d. Display;
  - e. General appearance of service (e.g., excellent, good, fair, poor, needs attention);
2. Take a picture of the service;
3. Record meter reading from dials or electronic display.

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Wyoming PSC No. 10

~~2<sup>nd</sup> 1<sup>st</sup>~~-Revised Sheet No. ~~544~~R  
Cancels ~~1<sup>st</sup> Revised~~~~Original~~ Sheet No. ~~544~~R

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Meter Testing and Verification Program

Section IX

Reserved for Future Use~~Record endpoint reading;~~  
~~4. If there is a 100 kWh or more discrepancy~~  
~~between the endpoint and the meter, the meter~~  
~~will be replaced at the time of testing.~~

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**Meter Testing and Verification Program**

**Section IX**

RULES AND REGULATIONS OF SERVICE  
Section IX  
METER TESTING AND VERIFICATION PROGRAM

**I. GENERAL STATEMENT**

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**II. RULES AND GUIDELINES**

- A. The Corporation's Meter Testing and Verification program shall conform as applicable to the following guidelines and rules:
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  2. RUS Form 300;
  3. Wyoming Public Service Commission, Chapter 3, Section 18.

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  2. American National Standard Sampling Procedures and Tables for Inspection by Variables for Percent Non-Conforming (ANSI/ASQ Z1.9-2008) for sampling.
- B. The Corporation will verbally advise members about the contents of the ANSI Standards in person or by phone. If the member desires to personally review the ANSI Standards, they may do so in one of the Corporation's main offices in Sundance, Gillette, or Sheridan. Prior to such review, they must read and acknowledge the ANSI Standards licensing requirements and affirm that they will not copy or reproduce them in any manner.

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**Meter Testing and Verification Program**

**Section IX**

III. METER ACCURACY cont'd

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IV. QUALIFICATIONS

- A. The Corporation will meet the following qualifications:
1. One hundred percent (100%) testing of all meters by the manufacturer prior to shipment to the Corporation;
  2. Minimum of eight percent (8%) (eight [8] of ninety-six [96] per pallet) of meters received new by Corporation personnel shall be quality assurance tested by the Corporation;
  3. Ability to monitor all in-service meters for performance through daily read rates;
  4. Ability to evaluate member usage abnormalities through daily reads;
  5. Field test and verify all instrument rated meters and associated instrumentation transformers once every three (3) years; and
  6. Meter forms other than instrument rated meter forms will be random sample tested per the Metering Testing and Verification Schedule.
  7. Testing results will be stored in the Corporation's billing system for historical reference.

Table 1. Meter Forms and Associated Information

<b>Meter Number Starting Letter</b>	<b>NEMA Form</b>	<b>Number of Phases</b>	<b>Class in Amps</b>	<b>Voltage</b>	<b>Application</b>	<b>Number of Wires</b>
Z or TZ	1S	1	100 or 200	120	Self-contained	2
T	2S	1	200	240	Self-contained	3
J	2S	1	200	240	Self-contained	3
HJ	2S	1	200	240	Self-contained	3
HT	2S	1	200	240	Self-contained	3
U	2S	1	200	240	Self-contained	3
H	2S	1	200	240	Self-contained	3
A or DA	2S	1	320	240	Self-contained	3
N	12S	1& 3	200	120-480	Self-contained	3
E	16S	3	20	120-480	Self-contained	4
V or DV	3S	1	10 or 20	120, 240, 480	Instrument-rated	2
Y	4S	3	10 or 20	240	Instrument-rated	3
M	5S	3	20	120-480	Instrument-rated	4
R	5S, 6S, 9S	3	20	120-480	Instrument-rated	3 or 4

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**Meter Testing and Verification Program**

**Section IX**

IV. QUALIFICATIONS cont'd

- B. Test Equipment - The Corporation uses a variety of equipment to test meters and associated instrumentation. This equipment includes the following list along with the calibration schedule. All calibrations on test equipment conform to ANSI standards and manufacturer recommendations. All calibration is done by a third-party, certified contractor, or by the manufacturer of the equipment. These calibration records are available for inspection upon request or as required by the Commission. All equipment has protective cases which are used for transport between job locations to ensure there is no damage or issues that may affect testing results. These cases are stored in temperature-controlled environments when not in use and are only taken out during actual testing procedures. In cases where results may not seem correct to the technician, there are several devices for each model type so results can be cross checked between two devices, as appropriate, to provide correct validation.
1. Laboratory Meter Test Boards (calibrated annually)
    - a. Radian Research – Models RFL 5800, WECO 2350, and WECO 4050
  2. Portable Test Sets (calibrated annually)
    - a. Probewell – Models MT-1, MT-1/NT9, MT-1NT
  3. Instrumentation Test Equipment (calibrated bi-annually)
    - a. SpinLab Bird Dog – Models 5000, 6000

V. METER TESTING AND VERIFICATION SCHEDULE

- A. The schedule for meter testing and verification will consist of the following:
1. All single phase and three phase demand billed accounts, including three phase instrument rated metered accounts and substation meters, will be tested, and verified at least once every three (3) years. The Current Transformers (CTs) and Potential Transformers (PTs) for these metering points will also be tested with test results stored in the Corporation's records.
  2. All 69 kV metered accounts will be tested and verified once every six (6) months. The Current Transformers (CTs) and Potential Transformers (PTs) for these metering points will also be tested with test results stored in the Corporation's records.
  3. A random sample, from each of the remaining meter form types (specifically 2S, 12S, and 16S) will be selected to be tested/verified annually according to the ANSI guidelines listed above. If more than four percent (4%) of the meters within each meter form type listed above are not within a +/- two percent (2%) compliance, another random sampling of meters from that form type will be chosen to be tested/verified. Additionally, if a Corporation meter, when tested, in any form group varies more than +/- two percent (2%), the Corporation will replace that meter at the time of test/verification. Once a meter has been randomly selected for testing, it will be taken out of the list of potential meters for random selection for the next five (5) years.

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**Meter Testing and Verification Program**

**Section IX**

V. METER TESTING AND VERIFICATION SCHEDULE cont'd

Please refer to Table 1 above for a complete list and description of each NEMA meter type currently used in active meters on the Corporation's system. Additionally, forms for verifying field information are taken directly from the Service Orders for each test/verification. Service Orders are generated out of information currently residing in the Corporation's billing system (CIS). After field information is gathered/verified, the Corporation's billing system is matched/updated with all appropriate information.

B. Meter Testing and Verifications

For meter tests and verifications, the following information is gathered or verified:

- Meter number
- Secondary meter number
- Meter type
- Number of wires
- Manufacturer
- Meter type description
- NEMA form
- Class
- Amps
- Volts
- Base KH
- Register ratio
- Technician name
- Rate
- Revenue Class
- Seal
- Billing multiplier
- Present reading
- Previous reading
- Demand reading (if applicable)
- Date of test/verification

C. Potential Transformer (PT) Tests and Verifications

For field meter tests and verifications, the following information is gathered or verified:

- System voltage
- Ratio
- Accuracy
- Fused (yes/no)
- Date of test
- Technician name

D. Current Transformer (CT) Tests and Verifications

For field meter tests and verifications, the following information is gathered or verified:

- System voltage
- Ratio
- Accuracy
- Short time rating
- Date of test
- Technician name

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Meter Testing and Verification Program

Section IX

METER TESTING AND VERIFICATION SCHEDULE (cont'd)

E. Instrument Rated Services

The Corporation is required to test instrument rated services once every three (3) years.

F. Self-Contained Services

The Corporation will conduct the following inspection and testing at each self-contained service within the randomly sampled NEMA form type groups.

1. Conduct a visual inspection of the service noting or completing anything that needs to be fixed:
  - a. Meter;
  - b. Seal;
  - c. Meter base;
  - d. Display;
  - e. General appearance of service (e.g., excellent, good, fair, poor, needs attention);
2. Take a picture of the service;
3. Record meter reading from dials or electronic display.

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**Powder River Energy Corporation  
P.O. Box 930  
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**Wyoming PSC No. 10  
2<sup>nd</sup> Revised Sheet No. 54R  
Cancels 1<sup>st</sup> Revised Sheet No. 54R**

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**Meter Testing and Verification Program**

**Section IX**

**Reserved for Future Use**

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