

e-FILING REPORT COVER SHEET

REPORT NAME: Annual Meter Test and Certification Report for 2019

COMPANY NAME: Idaho Power Company

DOES REPORT CONTAIN CONFIDENTIAL INFORMATION? No Yes

If yes, please submit only the cover letter electronically. Submit confidential information as directed OAR 860-001-0070 or the terms of an applicable protective order.

If known, please select designation: RE (Electric) RG (Gas) RW (Water)
 RO (Other)

Report is required by: OAR 860-023-0015
 Statute 757.250
 Order
 Other RE 158

Is this report associated with a specific docket/case? No Yes
If Yes, enter docket number:

Key words:

If known, please select the PUC Section to which the report should be directed:

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May 12, 2020

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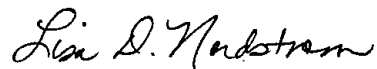
Re: OPUC Docket No. RE 158
2019 Annual Meter Test and Certification Report

Attention Filing Center:

Enclosed for filing is Idaho Power Company's 2019 Meter Test and Certification Report required by the Public Utility Commission of Oregon's Electric Utility Metering Policy that implements ORS 757.250 and OAR 860-023-0015.

If you have any questions about this report, please contact Regulatory Analyst Kristy Patteson at (208) 388-2982 or kpatteson@idahopower.com.

Very truly yours,



Lisa D. Nordstrom

LDN/kkt

Enclosure

IDAHO POWER COMPANY

2019 ANNUAL METER TEST AND CERTIFICATION REPORT

Overview Statement

Idaho Power Company's ("Idaho Power" or "Company") advanced metering infrastructure ("AMI") meters record, display, read, and reset peak demand. In alignment with ANSI C12.1 2008, the meters are subject to a periodic in-service test plan. The remaining solid-state non-AMI meters qualify for random sampling or period maintenance programs. In alignment with ANSI standards, the Company made the decision to divide all the meters in its Oregon service area into periodic meter groups ("PMG") by model and/or attribute.

The decision to place all the Oregon meters into PMGs is in line with ANSI standards and industry practices. However, Idaho Power recognizes that long-term grouping of all meters into PMGs is not sustainable and is actively working to develop and implement other in-service planned maintenance programs to be approved by the Public Utility Commission of Oregon ("Commission"). There are a number of meter maintenance programs currently being performed to validate meters in Oregon that are not required or addressed by ANSI or the Commission's Electric Metering Policy. A summary of meter validation programs being performed is provided in this report.

Management Review

The review of Idaho Power's metering policies, practices, and procedures, and the results of in-service meter maintenance and validations performed shows that the Company is in compliance with ANSI C12.1 2008 and the Commission's Electric Metering Policy.

All test equipment used to validate meter accuracy is traceable to the National Institute of Standards and Technology laboratory. Calibration standards are used to verify meter test equipment accuracy on a regularly scheduled interval of six months.

Significant Deficiencies

There were no significant meter defects found by Idaho Power through testing or inspection programs in 2019.

Metering Corrective Action Plans

No failed PMG meter lots were found by testing or inspection programs in 2019; therefore, no corrective action plans are necessary.

Listing of HMGs and PMGs

Below is the listing of Idaho Power Oregon meters by PMG. The list includes PMG model, technology, i.e., AMI, Non-AMI, and offsite meter reading (“OMR”), along with a breakdown of the last test year. Idaho Power does not have any meters in homogeneous meter groups (“HMG”) groupings.

Model	Tech	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Total
A1D	Non-AMI		1	1		2		4	2	50	44			15						119
A1D+	Non-AMI		1	5	11	2		2	3	54	47									125
A1RL+	AMI	1					1		9	2	31	6	4	3	1	3	1	2		64
A1TL+	Non-AMI							1												1
A3D	Non-AMI					1	9	1	1	13	2									27
A3RAL	AMI												11							11
AB1R	OMR							22	140	7	22			8						199
ALF	Non-AMI				11			1	6	16	183	1		2	5	3	5	10		243
ALF	AMI						3	69	13110	208	175	222	117	195	213	174	93	49	1	14629
AXR-SD	AMI												760	2	132	24	5	5		928
AXS4	Non-AMI		3	1						4										8
AXS4	AMI		2	1	2	5	1	1												12
C1S	Non-AMI		4	2	13	16	8	7	47	84	12									193
C1SCT	Non-AMI	1		2			1		10											14
C1SD	Non-AMI		1	2	1	1	5	2												12
C1SR	OMR					5	4	5	49	49	53	1		1	3					170
C1SX	AMI					1														1
CN1SX	AMI						5													5
ION-8600	AMI								3			2		1			1			7
ION-8650	AMI								3			2		1	5		8	5	1	25
J5SR	OMR							6	98	3	2									109
KV2C	AMI							6	977	70	92	123	127	281	203	253	239	256	80	2707
I210+	AMI																101	193	12	306
I210+RD	AMI																9	33		42
Total		2	12	14	38	33	37	127	14458	560	663	357	1019	509	562	457	462	553	94	19957

Metering Audits for PMGs

1. Voltage readings on AMI three-phase meters are taken three times daily. Any missing voltage is investigated onsite.
2. Automated communication meters are verified in the field if reading errors are detected or communication fails for two consecutive days.
3. Transformer-rated irrigation meter monthly billing kilowatts (“kW”) are compared to the connected horse power (“Hp”) ($kW = (Hp \times .746) \times .866$) deviations and are validated at the site.
4. All primary distribution service level meter sites are validated in the field every six months and a random selection of meters are tested annually.
5. Transmission level metering is validated every six months and meters are tested annually.

Inspections and Tests for HMGs

Idaho Power does not have any meters in HMG groupings. All meters are in solid state AMI, solid state non-AMI, or OMR PMG groups.

Uniquely Defective Meters

Idaho Power did not identify any uniquely defective meters through testing, inspection programs, or audits in 2019.

Metering Hazards and Defects

Idaho Power did not identify any metering hazards or defects through testing, inspection programs, or audits in 2019.

2019 Inspections for HMGs and PMGs

Idaho Power did not identify any PMGs that were due for testing in 2019. Idaho Power does not have meters in HMGs.

Metering Standard Practice Changes

There were no changes in 2019. Standard metering practices are in alignment with the Commission’s Electric Utility Metering Policy. The deployment of all solid-state metering post-AMI deployment in 2012 has resulted in all meters being in PMGs and being tested on a 16-year cycle.

Multi-State Metering Programs

Idaho Power meters in all states are audited as listed in “Metering Audits of PMGs”. There are no multi-state HMG groupings of meters.

Qualified Meter Technicians

Idaho Power has assigned two-meter technicians to the operational area covering its Oregon service area.

Policy Changes Requiring Commission Approval

Idaho Power is actively working to revise its Electric Metering Practices and Policy to address the impact of periodic meter testing with its AMI meters. Idaho Power is assessing a statistical sampling plan in accordance with ANSI C12.1 2014 and ANSI Z1.9 to determine the best way to limit unnecessary and costly meter maintenance in the future. Idaho Power plans to submit the proposed revisions to Idaho Power’s Electric Metering Practices and Policy to the Commission for approval later this year.