e-FILING REPORT COVER SHEET

Annual Meter Test and Certification Report for 2017								
Idaho Power (Company							
submit only the	DENTIAL INFORMATION? No Yes cover letter electronically. Submit confidential information te terms of an applicable protective order.							
et designation:	 □ RE (Electric) □ RG (Gas) □ RW (Water) □ RO (Other) 							
○ OAR ○ Statute ○ Order	860-023-0015 757.250							
Other	RE 158							
ed with a specifocket number:	fic docket/case? No Yes							
t the PUC Sec	tion to which the report should be directed:							
Analysis and V	Vater Regulation							
and Policy Ana	alysis							
d Natural Gas	Revenue Requirements							
tes and Plannin	ng							
s Rates and Pla	anning							
ety, Reliability	& Security							
tive Hearings	Division							
Consumer Services Section								
	Idaho Power O ITAIN CONFI ubmit only the 001-0070 or the t designation: OAR Statute Order Other d with a specifi ocket number: t the PUC Sec Analysis and V and Policy Ana d Natural Gas tes and Planning s Rates and Planning s Rates and Planning ety, Reliability							

PLEASE NOTE: Do NOT use this form or e-filing with the PUC Filing Center for:

- Annual Fee Statement form and payment remittance or
- OUS or RSPF Surcharge form or surcharge remittance or
- Any other Telecommunications Reporting or
- Any daily safety or safety incident reports or
- Accident reports required by ORS 654.715.



LISA D. NORDSTROM Lead Counsel Inordstrom@idahopower.com

May 30, 2018

Public Utility Commission of Oregon Filing Center 201 High Street SE, Suite 100 P.O. Box 1088 Salem, Oregon 97301

Re: OPUC Docket No. RE 158

2017 Annual Meter Test and Certification Report

Attention Filing Center:

Enclosed for filing is Idaho Power Company's 2017 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

Lin D. Madotrom

LDN/kkt

Enclosure

IDAHO POWER COMPANY

2017 ANNUAL METER TEST AND CERTIFICATION REPORT

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 of the meters in its Oregon service territory into periodic meter groups ("PMG") by model and/or attribute.

The decision to place all of 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 will 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 2017.

Metering Corrective Action Plans

No failed PMG meter lots were found by testing or inspection programs in 2017; 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	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Total
A1D	Non-AMI			1	2		3		4	4	62	52			24				152
A1D+	Non-AMI	16	6	1	13	15	4		3	7	73	58							196
A1R-A	AMI																1		1
A1RL+	Non-AMI	1						1		11	3	28	12	2	3	2	3		66
A1TL+	Non-AMI								2								8		10
A3D	Non-AMI						5	10	1	2	15	4							37
A3R	AMI																1		1
A3RAL	AMI													18					18
AB1R	OMR								22	140	8	20			8				198
ALF	AMI					13		3	74	13437	238	379	224	119	204	222	154	1	15068
AXR-SD	Non-AMI													783	2	137	20		942
AXS4	Non-AMI		3	10	5	2	5	1	1		7								34
C1S	Non-AMI		7	5	2	17	18	9	8	52	86	13							217
C1SCT	Non-AMI		5		2			1		14									22
C1SD	Non-AMI		1	1	4	2	1	5	3	1									18
C1SR	OMR						6	4	5	51	51	58	2						177
C1SX	AMI						1												1
CN1SX	AMI							5											5
ION- 8600	AMI									4			2		1				7
ION- 8650	AMI											1			1	10	4		16
J5SR	OMR								6	100	3	2							111
KV2C	AMI								9	1214	83	112	153	157	303	217	197	25	2470
M5S9	AMI																5		5
Q4N-9	AMI																1		1
Total		17	22	18	28	49	43	39	138	15037	629	727	393	1079	546	588	394	26	19773

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 x .746) x .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 2017.

Metering Hazards and Defects

Idaho Power did not identify any metering hazards or defects through testing, inspection programs, or audits in 2017.

2017 Inspections for HMGs and PMGs

Idaho Power did not identify any PMGs that were due for testing in 2017. Idaho Power does not have meters in HMGs.

Metering Standard Practice Changes

There were no changes in 2017. 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 territory.

Policy Changes Requiring Commission Approval

Idaho Power Company's Electric Metering Practices and Policy will be reviewed to determine if revisions are necessary to address the impact of periodic meter testing with its AMI meters. Currently, AMI meters are on a 16-year periodic test cycle and the volume of testing will increase significantly as their original installation date draws closer. The amount of testing may not be practical or sustainable. Therefore, a statistical sampling plan in accordance with ANSI C12.1 2014 and ANSI Z1.9 will be assessed to determine the best way to limit unnecessary and costly meter maintenance in the future. If revisions are deemed necessary, Idaho Power will submit proposed changes to its Electric Metering Practices and Policy to the Commission for approval.