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Tucson Electric Power
88 East Broadway Blvd., P. O. Box 711
Tucson, Arizona 85702



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Arizona Corporation Commission

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April 11, 2017

Docket Control
Arizona Corporation Commission
1200 W. Washington
Phoenix, AZ 85007

Re: Notice of Filing - Tucson Electric Power Company's Annual Meter Maintenance and Testing Report
Docket No. E-00000D-17-0024

Pursuant to A.A.C. R14-2-209.E.2, "Each utility shall file an annual report with the Commission, through Docket Control, summarizing the results of the meter maintenance and testing program for that year." The report is required to include a) the total number of meters tested, at company initiative or upon customer request, and b) number of meters tested which were outside the acceptable error allowance +/- 3%. Please find enclosed Tucson Electric Power Company's Annual Meter Maintenance and Testing Report for 2016. All meter groups fall within the criteria for acceptability according to the Commission.

If you have any questions, please contact me at (520) 884-3680.

Sincerely,

Melissa Morales
Regulatory Services

cc: Compliance Section, ACC



Tucson Electric Power

New Meter Testing

All new Metering devices received in 2015 were 100% tested by the Manufacturer and documented to be within acceptable performance requirements.

A sample amount of single and three phase meters are tested to verify the manufacturer's test results and quality control practices.

In-Service Testing

Utilizing the "Variable-Interval plan" as outlined in **America National Standard for Electric Metering** (ANSI C12.1 2008) Section 5.1.4.3.2 in conjunction with section 5.1.5.1 "Determination of Average Percentage Registration – Method 1" the following quantities of meters were tested in 2014.

Six homogenous groups of meters have been selected for performance testing as defined:

- Group 1 - Single Phase, jeweled bearing, self contained
- Group 2 - Single Phase, magnetic suspension, self contained
- Group 3 - Polyphase, magnetic suspension, self contained
- Group 4 - Single and Polyphase, magnetic suspension, transformer rated
- Group 5 - Single and Polyphase, electronic transformer-rated
- Group 6 - Single and Polyphase electronic self-contained meters

Summary of Meters Tested by Group

Group Number	Number of Meter Tested	Number of Meters in Service beginning of 2015
1	0	0
2	1,280	76,778
3	871	1482
4	388	448
5	3070	8762
6	6,702	344,418
Total	12,311	431,888

Summary of Meters Tested Outside the Acceptable Error

Number of meters that tested 3% or faster:	Single Phase	20
	Three Phase	30
Number of meter tested 3% or slower:	Single Phase	93
	Three Phase	114
Number of meters with mechanical failure:	Single Phase	97
	Three Phase	116

Summary of Meter Tested at Customer Request

Meters tested at customer request:	Single Phase	54
	Three Phase	12