BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

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In Re: Proposed Amendment of Rules 25-6.022, 25-6.052, 25-6.054, 25-6.055, 25-6.056, 25-) ISSUED: March 6, 1997 6.058 and Repeal of Rules 25-6.053 and 25-6.057, F.A.C.

) DOCKET NO. 961379-EG) ORDER NO. PSC-97-0254-NOR-EG

The following Commissioners participated in the disposition of this matter:

JULIA L. JOHNSON, Chairman SUSAN F. CLARK J. TERRY DEASON JOE GARCIA DIANE K. KIESLING

NOTICE OF RULEMAKING

NOTICE is hereby given that the Florida Public Service Commission, pursuant to Section 120.54, Florida Statutes, has initiated rulemaking to amend Rules 25-6.022, 25-6.052, 25-6.054, 25-6.055, 25-6.056, 25-6.058 and repeal Rules 25-6.053 and 25-6.057, Florida Administrative Code, relating to electric meter testing and standards.

The attached Notice of Rulemaking will appear in the March 14, 1997 edition of the Florida Administrative Weekly.

If timely requested, a hearing will be held at the following time and place:

> Florida Public Service Commission 9:30 a.m., April 11, 1997 Betty Easley Conference Center Room 152, 4075 Esplanade Way Tallahassee, Florida 32399-0850

Written requests for hearing and written comments or suggestions on the rules must be received by the Director, Division of Records and Reporting, Florida Public Service Commission, 2540 Shumard Oak Blvd., Tallahassee, FL 32399-0862, no later than April 4, 1997.

DOCUMENT NUMBER-DATE

02481 MAR-65 FPSC-RECORDS/REPORTING

By ORDER of the Florida Public Service Commission, this 6th day of March, 1997.

BLANCA S. BAYÓ, Director Division of Records & Reporting

by: Kay H Chief, Bureau of ords

(SEAL)

RCB

FLORIDA PUBLIC SERVICE COMMISSION

Determination of Average Meter Error

DOCKET NO. 961379-EG

RULE TITLE:

RULE NO.:

25-6.058

Record of Metering Devices and Metering Device Tests	
Meters and Meter Tests	25-6.022
Test Procedures and Accuracies of	
Consumption Metering Devices Meters	25-6.052
Requirements as to Use of Instrument Transformers	25-6.053
Laboratory Standards Testing Equipment	25-6.054
Portable Standards	25-6.055
Metering Device Test Plans Periodic Meter Tests	25-6.056
Methods of Meter Test	25-6.057

PURPOSE AND EFFECT: The purpose and effect of these rule amendments and repeals is to update rules relating to electric metering.

SUMMARY: The proposed rule amendments would make rules relating to electric meter testing and standards more consistent with the American National Standard for Electric Meters-Codes for Electric Metering (ANSI C12.1-1995), which includes procedures for 1) New and In-Service Meter and Instrument Transformers Tests; 2) Standards Testing and Certification; 3) Periodic Testing; 4) Random Sample Testing; and 5) Required Vendor Testing. In addition, the proposed rule changes would clarify the types of meters and testing equipment covered, require the utility to collect and maintain

additional documentation, prescribe the requirements for seeking approval of meter testing procedures, allow the sample testing of all types of meters, and allow the use of manufacturers' test results for new meters. Finally, the contents of two existing rules would be moved to 25-6.052, F.A.C.

SUMMARY OF STATEMENT OF ESTIMATED REGULATORY COST: There would be additional costs to the Commission involving paperwork and staff time, but no additional costs to other state or local government entities.

The investor-owned electric utilities specified additional utility time and costs to comply with the new rules, but generally felt that long-run cost savings should exceed implementation costs.

There is no impact anticipated on small business, small counties or small cities. Tampa Electric Co., Gulf Power Co., and Florida Power and Light all argued that ANSI C12.1-1995 guidelines would be preferable to the Commission's rules as controlling.

Any person who wishes to provide information regarding the statement of estimated regulatory costs, or to provide a proposal for a lower cost regulatory alternative must do so in writing within 21 days of this notice.

SPECIFIC AUTHORITY: 366.05(1) FS.

LAW IMPLEMENTED: 366.05(1), 366.05(3) FS.

WRITTEN COMMENTS OR SUGGESTIONS ON THE PROPOSED RULE MAY BE SUBMITTED TO THE FPSC, DIVISION OF RECORDS AND REPORTING, WITHIN 21

DAYS OF THE DATE OF THIS NOTICE FOR INCLUSION IN THE RECORD OF THE PROCEEDING.

HEARING: IF REQUESTED WITHIN 21 DAYS OF THE DATE OF THIS NOTICE, A HEARING WILL BE HELD AT THE TIME, DATE, AND PLACE SHOWN BELOW: TIME AND DATE: 9:30 a.m., April 11, 1997

PLACE: Room 152, Betty Easley Conference Center, 4075 Esplanade Way, Tallahassee, Florida.

THE PERSON TO BE CONTACTED REGARDING THESE PROPOSED RULES IS: Director of Appeals, Florida Public Service Commission, 2540 Shumard Oak Blvd., Tallahassee, Florida 32399-0862.

THE FULL TEXT OF THESE PROPOSED RULES IS:

25-6.022 Record of <u>Metering Devices and Metering Device Tests</u> Meters and Meter Tests.

(1) For all types of utility-performed tests, a A test record shall be made whenever a unit of metering equipment is tested, but need not be retained after the equipment is again tested. The record shall show information to identify the unit and its location; equipment with which the unit is associated; the date of the test; reason for the test; readings before and after the test; if the meter creeps, a statement as to the rate of creeping; a statement of the "as found" accuracy; indications showing that all required checks have been made; a statement of repairs made, if any; and identification of the person making the test. The completion of each test will signify the "as left" accuracy falls

within the required limits specified in Rule 25-6.052, unless the meter is to be retired.

(2) No change.

(3) <u>Records of Test for Incoming Purchases. Regardless whether</u> the newly purchased metering equipment is tested under a Random Sampling Plan, each utility shall maintain and make available to the Commission for each purchase of new meters and associated devices made during the calendar or fiscal year, the following information: Each utility shall maintain its meter test records in such a manner that the following information is readily available to the Commission on request:

(a) Type of equipment, including manufacturer, model number, and any features which will subsequently be used to classify the units purchased into a population of units for in-service tests; The time elapsed between meter tests.

(b) <u>The number of units purchased;</u> The type of meter, such as single phase or polyphase watt hour meter.

(c) <u>The total number of units tested;</u> The number of meters which the full load "as found" tests indicate falls within each of the following accuracy classifications:

1. Under 98.0%

2. 98.0% to 102.0%

3. Over 102.0%

(d) <u>The number of units tested measuring each percent</u> <u>registration recorded</u>; For those meters tested under an approved statistical sampling plan, provision (c) shall be maintained by type or age groups.

(e) Average percent registration;

(f) Standard deviation about the average percent registration (population or sample standard deviation);

(g) Results regarding whether the units tested meet the utility's acceptance criteria; and

(h) If a utility does not perform its tests for incoming purchases, the data provided by equipment manufacturers concerning units tested on a 100 percent basis by the manufacturer, with the manufacturer's test results used as a basis for acceptance testing, shall also be retained.

(4) Records of Periodic and Annual In-Service Meters Tests. Each utility shall maintain test records for each periodic and annual in-service test of electric meters and associated devices in such a manner that the information listed in paragraphs (4)(a) through (h) is readily available to the Commission on request. These data shall be maintained for units of metering equipment tested under approved Random Sampling Plans and for units tested under periodic testing programs, and shall be summarized on an annual basis.

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(a) Type of equipment, including manufacturer, model number, and any features which are currently used to classify the units tested into a population of units for in-service tests;

(b) The number of units in the population;

(c) The total number of units tested;

(d) The number of units tested measuring each percent registration recorded;

(e) Average percent registration;

(f) Standard deviation about the average percent registration (population or sample standard deviation);

(g) Results showing whether the units tested under an approved random sampling program meet the utility's acceptance criteria; and

(h) A statement of the action to be taken to make further tests or replace inaccurate units, when the units tested under an approved random sampling program do not meet the acceptance criteria.

(i) The information regarding units tested during the year but not tested under a Random Sampling Plan or a periodic testing program need not be maintained as listed in paragraphs (4)(a) through (h) or be summarized on an annual basis. Specific Authority 366.05(1) FS. Law Implemented 366.05(1) FS. History--New 7-29-69, Formerly 25-6.22, Amended _____.

25-6.052 Test Procedures and Accuracies of <u>Consumption</u> <u>Metering Devices</u> <u>Meters</u>.

(1) <u>Watthour</u> Watt hour Meters. The performance of an inservice watthour watt hour meter shall is considered to be acceptable when the meter disk does not creep and when the average percentage registration is not more than 102 percent % nor less than 98 percent %, calculated in accordance with <u>Rule 25-6.058</u> USAS C12.

(2) <u>Demand Meters and Registers.</u> Watt hour Meter Test Procedures. The following procedures shall apply to the testing and adjusting of meters and/or associated devices.

(a) The performance of a mechanical or lagged demand meter or register shall be acceptable when the error of registration does not exceed four percent in terms of full-scale value, when tested at any point between 25 percent and 100 percent of full-scale value. The test of any unit of metering equipment shall consist of a comparison of its accuracy with the accuracy of a standard.

(b) The performance of an electronic demand meter or register shall be acceptable when the error of registration does not exceed two percent of reading, when tested at any point between 10 percent and 100 percent of full-scale value. Adjustment limits. When a test of a singlephase watt hour meter indicates that the error in registration exceeds 1% at either light load or heavy load, at unity power factor, the percentage registration shall be adjusted

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to within these limits of error as closely as practicable to the condition of zero error. When a test of a polyphase watt hour meter indicates that the error in registration exceeds 1% at either light load or heavy load, at unity power factor, or exceeds 2% at heavy load at approximately 0.5 power factor lag, the percentage registration of the meter shall be adjusted to within these limits of error as closely as practicable to the condition of zero error.

(c) <u>Demand meters shall indicate zero under no-load</u> <u>conditions.</u> <u>Meters shall not "creep", i.e., there shall be no</u> <u>continuous rotation of the moving element of a meter at a speed in</u> <u>excess of one revolution in ten minutes when the meter load has</u> <u>been removed and voltage is applied to the potential elements of</u> <u>the meter.</u>

(3) <u>Meter Equipment Test Procedures</u>. Demand Meters and Registers.

(a) The test of any unit of metering equipment shall consist of a comparison of its accuracy with the accuracy of a standard. The performance of a demand meter or register shall be acceptable when the error of registration does not exceed 4% in terms of full scale value when tested at any point between 25% and 100% of full scale value.

(b) <u>Watthour meters and associated devices shall be tested for</u> <u>accuracy and adjusted in accordance with ANSI C12.1 - 1995.</u> When a <u>test of a demand meter or register indicates that the error in</u>

registration exceeds plus or minus 4% in terms of full scale value, the demand meter or register shall be adjusted to within plus or minus 2% of full scale value. When a timing element also serves to keep a record of the time of day at which the demand occurs, it shall be adjusted if it is found to be in error by more than plus or minus two minutes per day.

(c) Totally solid-state meters that compute demand from watthour meter registration and programmed demand algorithms shall be tested and adjusted in accordance with ANSI Cl2.1 - 1995. Demand registration need not be tested, provided the meter has been inspected to contain the correct demand algorithm whenever watthour registration is tested. Demand meters which are direct driven shall be tested at a load point no less than 50% of full scale. However, they may be tested at a lower scale point-if conditions warrant.

Tests shall be continuous for at least one demand interval unless results over a portion of an interval can be accurately determined.

(d) Demand meters which are actuated by pulses shall be tested by transmitting enough pulses to cause the meter to register at a load point no less than 50% of full scale. If a pulse actuated demand meter is equipped with a device which records the number of pulses received by the meter, and if there is frequent and accurate comparison of such record with the number of kilo watt hours

registered on the associated watt hour meter, then it is not necessary to make a periodic field test of the demand meter.

(c) Demand meters shall be adjusted to indicate zero under no load conditions, and shall be checked to ascertain that the meter resets to zero.

(f) Impulse devices associated with demand meters must be checked for proper operation.

(g) The total time interval, including reset time, must be accurate within 0.5%, except that when a timing element also serves to keep a record of the time of day at which the demand occurs, it shall be adjusted if it is found to be in error by more than plus or minus two minutes per day.

(4) <u>Test Procedures.</u> Lagged Demand Meters. Lagged demand meters shall be tested and adjusted as prescribed in USAS C12.

(a) Each utility shall submit its test procedures for review and approval for all types of metering equipment, including:

1. Single-phase watthour meters;

2. Polyphase watthour meters;

3. Demand meters;

4. Pulse initiating meters;

5. Pulse recorders;

6. Time-of-use meters; and

7. Instrument Transformers.

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(b) Test procedures shall contain the following for each type of metering device covered:

1. Adjustment limits;

2. Test points;

3. Test duration;

<u>4. Type of test - single-phase test, polyphase test,</u> etc.; and

5. Description of the general steps involved.

(c) Any changes to a previously approved test procedure must be submitted to the Commission's Division of Electric and Gas for approval. Adding a meter type to a previously approved test procedure is a change which requires approval.

(d) Review of Proposed Test Procedures. Except where a utility has requested a formal ruling by the Commission, within 90 days after submission, the Division of Electric and Gas shall review each utility's proposed test procedures to determine whether they satisfy the criteria set forth in subsections (4) (a) and (b) above and shall notify the utility in writing of its decision accepting or rejecting the proposed procedures. If a proposed procedure is rejected, the written notice of rejection shall state clearly the reasons for rejecting the proposed procedure. If a utility's proposed procedure is rejected, the utility shall submit a revised procedure to the Commission within 60 days after receiving the notice of rejection. Where a utility has requested staff review of

its procedures and a procedure has been rejected, the utility may petition the Commission for approval of the procedure. If a utility has not submitted a satisfactory procedure within six months following the submission of the initially proposed procedure, the Commission may prescribe by order a procedure for the utility.

Specific Authority 366.05(1) FS.

Law Implemented 366.05(3) FS.

History-Amended 7-29-69, formerly 25-6.52, Amended .

25-6.053 Requirements as to Use of Instrument Transformers. Specific Authority 366.05(1) FS.

Law Implemented 366.05(1) FS.

History-Amended 7-29-69, formerly 25-6.53, Repealed .

25-6.054 Laboratory Standards Testing Equipment.

(1) Each utility shall have available one or more watthour meters to be used as basic reference standards. The watthour meters must have an adequate capacity and voltage range to test all portable standards used by the utility and must meet the requirements laboratory working standard watt hour meters to check each of the portable standard watt hour meters (shop standards) described in Rule 25-6.055(1).

(a) <u>Watthour meters used as basic reference standards</u> Laboratory working standard watt hour meters shall not be in error by more than plus or minus 0.05 percent at 1.00 power factor or by more than 0.10 percent at 0.50 power factor. 0.3% at loads and

voltages at which they are to be used, and Watthour meters shall not be used to check or calibrate portable standard watthour watt hour meters (shop standards) unless the basic reference standard watthour laboratory working standard watt hour meter has been checked and adjusted, if necessary, to the prescribed such accuracy within the preceding twelve months.

(b) The percent registration of each basic reference standard watthour meter shall be compared with the percent registration of all other basic reference standard watthour meters used by the utility at frequent intervals. Each laboratory working standard watt hour meter shall have a calibration history record available.

(2) Each utility shall establish traceability of its watthour standard to the national standards at least annually using one of the following methods: Each utility shall have available laboratory indicating working standards to check each of the portable indicating standards described in Rule 25 6.055(2).

(a) <u>Through the Measurement Assurance Program (MAP) in which</u> <u>the National Institute of Standards and Technology (NIST) has</u> <u>provided a transport standard; or</u> <u>Laboratory indicating working</u> <u>standards shall not be in error by more than plus or minus 0.25% of</u> <u>scale indication at commonly used scale deflection, and shall not</u> <u>be used to check or calibrate portable indicating shop instruments</u> <u>unless the laboratory indicating working standard has been checked</u> <u>and adjusted, if necessary, within the preceding twelve months.</u>

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(b) <u>Through a transport standard which is of the same nominal</u> value and of quality equal to the basic reference standards that are sent to NIST or to an independent laboratory approved by the <u>Commission. Each laboratory indicating working standard shall have</u> a calibration record available.

(3) If excessive variation in the percent registration of a watthour meter used as a basic reference standard is observed in the comparisons in Section 25-6.054(1b) and Section 25-6.054 (2b), the utility shall investigate the source of the variation. If the cause of the excessive variation cannot be corrected, use of the watthour meter as a basic reference standard shall be discontinued. Once each year, one laboratory working standard watt hour meter and one laboratory indicating working standard shall be submitted to a testing agency as approved by the Commission for a check for accuracy.

(4) Each utility shall maintain historical performance records for each watthour meter used as a basic reference standard for the following types of comparisons:

(a) Comparisons of basic reference standards with national standards; and

(b) Intercomparisons made with other basic reference standards.

Specific Authority 366.05(1) FS.

Law Implemented 366.05(1) FS.

History-New 7-29-69, Amended 4-13-80, 5-13-85, formerly 25-6.54, Amended

25-6.055 Portable Standards.

(1) Each utility shall have one or more <u>watthour meters to be</u> <u>used as portable standards</u>, <u>which shall have adequate</u> portable standard watt hour meters (shop standard) of capacity and voltage range <u>adequate</u> to test all <u>watthour</u> watt hour meters used by the utility for billing purposes.

(a) All portable standard <u>watthour</u> watt hour meters, (shop standard) when regularly used, shall be compared with a <u>basic</u> reference standard laboratory working standard once a <u>year</u>. week, or at such intervals as approved by this Commission, on a commonly used current and voltage range. A complete check should be made every three months. Such equipment infrequently used shall be compared before use.

(b) Each portable standard <u>watthour</u> watt hour meter (shop standard) shall be adjusted, if necessary, so that its accuracy will be within plus or minus 0.10 percent at 1.00 power factor and within plus or minus 0.20 percent at 0.50 power factor 0.3% at all voltages and loads at which the standard may be used.

(2) If excessive variation in the percent registration of a watthour meter used as a portable standard is observed in the comparisons in Section 25-6.055(1), the utility shall investigate the source of the variation. If the cause of the excessive

variation cannot be corrected, use of the watthour meter as a basic reference standard shall be discontinued. Each utility shall have one or more portable indicating shop standards of various types as required to determine the quality of service being rendered to customers, and to calibrate instruments used in field work.

(a) Portable indicating shop standards shall not be in error by more than plus or minus 0.5% of indication at full scale deflection.

(b) Each portable indicating shop standard shall be adjusted, if necessary, at quarterly intervals, and those in constant use should be checked at least every two weeks.

(3) The calibration history of each standard shall be made available to the Commission upon request. Each portable standard shall be accompanied at all times by a certificate or calibration card, duly signed and dated, on which are recorded the corrections required to compensate for errors found at the customary test points at the time of the last previous test.

(4) For standards used in survey work and for routine or general operating information, the limits of accuracy as specified above need not prevail, but such instruments shall be within the range of accuracy necessary to obtain reliable data. Specific Authority 366.05(1) FS.

Law Implemented 366.05(1), (3) FS.

History-New 7-29-69, Amended 5-13-85, formerly 25-6.55, Amended

25-6.056 Metering Device Test Plans Periodic Meter Tests.

(1) The test of any unit of metering equipment shall consist of a comparison of its accuracy with a standard of known accuracy. Units not meeting the accuracy or other requirements of Rule 25-6.052 at the time of the test shall be corrected to meet such requirements and adjusted to within the required accuracy and as close to 100 percent & accurate as practicable or their use discontinued.

(2) All metering device tests shall be retained by the utility and made available to the Commission pursuant to Rule 25-6.022.

(3)(2) New instrument transformers shall be tested before initial installation. Instrument transformers which have been removed from service shall be tested prior to reinstallation if the reason for removal, or physical appearance, or record of performance gives cause to doubt its reliability.

(4)(3) All metering equipment listed in Rule 6.052(4)(a) watt hour meters and demand meters associated with them shall be tested:

(a) Before initial and each successive installation, either by the utility or the manufacturer, with the exception of units of metering equipment watt hour meters which are statistically sample

tested by the utility under an approved Random Sampling Plan; and

(b) When they are suspected by the utility of being inaccurate or damaged.

(c) New single phase and polyphase, self contained watt hour meters shall be tested, either on a one hundred percent (100%) basis or a statistically sampled basis under an approved Random Sampling Plan, upon receipt from the manufacturer.

(d) In service, single phase and polyphase, self contained watt hour meters may be sample tested under an approved Random Sampling Plan.

(c) In service, single phase and polyphase self contained watt hour meters which are not included in an approved Random Sampling Plan, and single phase and polyphase meters used with instrument transformers shall be tested periodically, according to the following schedule:

1. meters with surge proof magnets at least once in sixteen (16) years.

2. meters without surge proof magnets at least once in eight (8) years.

(f) In service block interval demand register equipped watt hour meters shall be tested periodically according to the following schedule:

> 1. Meters with surge proof magnets at least once in twelve (12) years.

> 2. Meters without surge proof magnets at least once in eight (8) years.

(g) Block interval graphic watt hour demand meters shall be tested at least once in two (2) years.

(h) Lagged demand meters shall be tested at least once in eight (8) years.

(i) Pulse recorders and pulse operated demand meters used for billing in combination with pulse initiator equipped watt hour meters shall be tested at least once in two (2) years. If a comparison is made between the watt hour meter registration and the recording registration each billing period, and the recorder registration agrees within one percent (1%) of that registered by the associated watt hour meter, the schedule for pulse recorders and pulse operated demand meters should be as follows:

1. Meters with surge proof magnets at least once in sixteen (16) years.

2. Meters without surge proof magnets at least once in eight (8) years.

If the recorder meter registration checks do not agree within one percent (1%), the demand metering equipment should be tested.

(5) Acceptance Testing. Tests for all new units of metering equipment may be performed according to one of three plans:

(a) On a 100 percent basis, with testing performed by the utility;

(b) On a statistically sampled basis under an approved Random Sampling Plan, with testing performed by the utility; or (c) On a 100 percent basis, with testing performed by the manufacturer and the test results for each unit provided by the manufacturer and maintained by the utility.

(6) In-Service Testing.

(a) In-service metering devices may be sample tested under an approved Random Sampling Plan.

(b) In-service metering devices which are not included in an approved Random Sampling Plan shall be tested periodically. The periodic testing schedule for equipment not included in an approved Random Sampling Plan must be approved by the Commission.

(7) Random Sampling Plans and Periodic In-Service Testing Schedules Submitted for Approval.

(a) Commission approved Random Sampling Plans may be used to accept or reject shipments of newly purchased equipment and to estimate the average accuracy of equipment in service.

(b) Random Sampling Plans published by the United States Department of Defense or by The American Society for Quality Control, or any other sampling plans which have been approved by the Commission prior to the effective date of this rule need not be

re-approved for the types of equipment for which they were approved.

(c) Each Random Sampling Plan submitted for approval shall include, at a minimum, the following information:

1. Plans to more closely monitor populations of equipment in service for which estimates indicate accuracy problems, to determine if units in the population need to be adjusted or replaced (in-service sampling plans).

2. A statement of the plan's statistical design and the rationale for using the plan in lieu of testing 100 percent of the units in the population.

3. A precise statement of the plan's null hypothesis and alternative hypotheses, the probability of committing Type I error and Type II error, and the criteria for accepting or rejecting the null hypothesis.

(d) "Variables" sampling plans may use either of the "known variability" or the "unknown variability" acceptance criteria. The acceptance criteria shall be appropriately modeled. Variables sampling plans shall use the population standard deviation to measure variability unless the proposed plan is accompanied by adequate justification for using another parameter.

(8) The analysis of a proposed Random Sampling Plan, or a proposed periodic in-service testing schedule where applicable, shall include assessments of the plan's ability to detect the

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presence of inaccurate equipment, the economy of testing only a sample of the units in the population, the impact of having inaccurate units used for billing purposes, the number of units in the population, and the historical performance of the type of equipment covered by the proposed plan.

(9) Approval of Sampling Plans and In-Service Testing Schedules. All utilities subject to this rule shall submit to the Commission's Division of Electric and Gas a proposed Random Sampling Plan for each population of metering devices for which it intends to use a random sampling plan for acceptance testing or for in-service testing, and a proposed periodic testing schedule for each population of metering devices for which it does not submit a proposed in-service random sampling plan. Sampling plans and inservice testing schedules must be reviewed and approved prior to their use.

(10) Review of Proposed Test Plan. As used in this subsection, the word "plan" includes periodic testing schedules as well as Random Sampling Plans. Except where a utility has requested a formal ruling by the Commission, within 90 days after submission, the Division of Electric and Gas shall review each utility's plan to determine whether it satisfies the criteria set forth in subsections (7) and (8) above and shall notify the utility in writing of its decision accepting or rejecting the proposed plan. If a proposed plan is rejected, the written notice of rejection

shall state clearly the reasons for rejecting the proposed plan. If a utility's proposed plan is rejected, the utility shall submit a revised plan to the Commission within 60 days after receiving the notice of rejection. Where a utility has requested staff review of its plan and the plan has been rejected, the utility may petition the Commission for approval of the initially proposed plan. If a utility has not submitted a satisfactory plan within six months following the submission of the initially proposed plan, the Commission may prescribe by order a plan for the utility.

Specific Authority 366.05(1) FS.

Law Implemented 366.05(3) FS.

History-7-29-69, Amended 4-13-80, formerly 25-6.56, Amended .

25-6.057 Methods of Meter Test.

Specific Authority 366.05(1) FS.

Law Implemented 366.05(3) FS.

History-7-29-69, formerly 25-6.57, Repealed .

25-6.058 Determination of Average Meter Error. No change.

(1) No change.

(2) If a single-phase metering installation is used on a varying load, the average error shall be <u>determined in one of the</u> <u>following ways:</u> the weighted algebraic average of the error at approximately 10% and at approximately 100% of the rated test amperes of the meter, the latter being given a weighing of 4 times the former.

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(a) The weighted algebraic average of the error at approximately 10 percent and at 100 percent of the rated test amperes for the meter, the latter being given a weight of four times the former;

(b) The simple average of the error at approximately 10 percent and at approximately 100 percent of the rated test amperes of the meter, each being given an equal weight; or

(c) A single point, when calculating the error of a totally solid state meter, and the single point is an accurate representation of the error over the load range of the meter.

(3) If a polyphase metering installation is used on a varying load, the average error shall be <u>determined in one of the following</u> ways: the weighted algebraic average of its error at light load (approximately 10% rated test amperes) given a weighing of 1, its error at heavy load (approximately 100% rated test amperes) and 100% power factor given a weighing of 4, and at heavy load (approximately 100% rated test amperes) and 50% lagging power factor given a weighing of 2.

(a) The weighted algebraic average of its error at light load (approximately 10 percent rated test amperes) given a weight of one, its error at heavy load (approximately 100 percent rated test amperes) and 100 percent power factor given a weight of four, and at heavy load (approximately 100 percent rated test amperes) and 50 percent lagging power factor given a weight of two; or

(b) A single point, when calculating the error of a totally solid state meter, and the single point is an accurate representation of the error over the load range of the meter. Specific Authority 366.05(1) FS.

Law Implemented 366.05(3) FS.

History-7-29-69, formerly 25-6.58, Amended

NAME OF PERSON ORIGINATING PROPOSED RULES: Sid Matlock

NAME OF SUPERVISOR OR PERSONS WHO APPROVED THE PROPOSED RULES: Florida Public Service Commission.

DATE PROPOSED RULES APPROVED: FEBRUARY 4, 1997

DATE NOTICE OF PROPOSED RULE DEVELOPMENT PUBLISHED IN FAW:

DECEMBER 20, 1996

If any person decides to appeal any decision of the Commission with respect to any matter considered at the rulemaking hearing, if held, a record of the hearing is necessary. The appellant must ensure that a verbatim record, including testimony and evidence forming the basis of the appeal is made. The Commission usually makes a verbatim record of rulemaking hearings.

Any person requiring some accommodation at this hearing because of a physical impairment should call the Division of Records and Reporting at (904) 413-6770 at least five calendar days prior to the hearing. If you are hearing or speech impaired, please contact the Florida Public Service Commission using the Florida Relay Service, which can be reached at: 1-800-955-8771 (TDD).