

ITEM NO. CA9

PUBLIC UTILITY COMMISSION OF OREGON  
AHD REPORT  
PUBLIC MEETING DATE: June 9, 2015

REGULAR \_\_\_\_\_ CONSENT  X  EFFECTIVE DATE \_\_\_\_\_ N/A \_\_\_\_\_

DATE: June 2, 2015

TO: Public Utility Commission

FROM: Diane Davis

THROUGH: Michael Grant, Lori Koho, and Paul Birkeland

SUBJECT: OREGON PUBLIC UTILITY COMMISSION ADMINISTRATIVE HEARINGS DIVISION: (Docket No. AR 586) Adopt permanent rule changes to OAR 860-023-0081, IEEE Standard 1366.

**AHD RECOMMENDATION:**

Adopt the rule modifications as proposed.

**DISCUSSION:**

This rulemaking updates from 2003 to 2012 the adopted edition of the Institute of Electrical Engineers (IEEE) Standard 1366 entitled "IEEE Guide for Electric Power Distribution Reliability Indices." PacifiCorp filed comments supporting the rule changes; no other comments were filed.

**PROPOSED COMMISSION MOTION:**

Adopt the modifications to 860-023-0081 as set forth in Appendix A of the attached draft order.

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**BEFORE THE PUBLIC UTILITY COMMISSION  
OF OREGON**

AR 586

In the Matter of Adoption of 2012 Version  
of IEEE-1366 in Division 023 Rules.

ORDER

DISPOSITION: MODIFICATIONS TO RULE ADOPTED

**I. INTRODUCTION**

In this order, we adopt changes to OAR 860-023-0081 to update from the 2003 edition to the most recent edition of the Institute of Electrical Electronic Engineers (IEEE) Standard 1366 entitled, "IEEE Guide for Electric Power Distribution Reliability Indices."

**II. PROCEDURAL HISTORY**

On April 10, 2015, we filed a Notice of Proposed Rulemaking and Statement of Need and Fiscal Impact for this rulemaking with the Secretary of State. On April 16, 2015, we provided notice to all interested persons on the service lists established under OAR 860-001-0030(1)(b) and to legislators specified in ORS 183.335(1)(d). Notice of the rulemaking was published in the May 2015 *Oregon Bulletin*. The notice established a comment due date of May 22, 2015. PacifiCorp, dba Pacific Power, filed comments supporting the rule changes. No other comments were filed.

**III. ORDER**

IT IS ORDERED that:

1. The modifications to OAR 860-023-0081, as shown in Appendix A, are adopted.

2. The rule changes become effective upon filing with the Secretary of State.

Made, entered, and effective \_\_\_\_\_.

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**Susan K. Ackerman**  
Chair

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**John Savage**  
Commissioner

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**Stephen M. Bloom**  
Commissioner

A person may petition the Public Utility Commission of Oregon for the amendment or repeal of a rule under ORS 183.390. A person may petition the Oregon Court of Appeals to determine the validity of a rule under ORS 183.400.

## Electric Service Reliability

### 860-023-0081

#### Definitions and Terms for Electric Service Reliability

(1) Effective beginning January 1, 2012, the definitions in IEEE 1366, as defined in subsection (2)(b) of this rule, are adopted unless otherwise expressly modified by this rule. If there is a conflict between the definitions in IEEE 1366 and this rule, the definitions in this rule govern.

(2) The following definitions apply to the Electric Service Reliability Rules, OAR 860-023-0081 through 860-023-0161:

(a) "Electric company" means a public utility, as defined in ORS 757.005, that supplies electricity.

(b) "IEEE 1366" means the Institute of Electrical Electronic Engineers (IEEE) Standard 1366 entitled "IEEE Guide for Electric Power Distribution Reliability Indices" (the ~~2003~~2012 edition), approved on ~~December 10, 2003~~May 14, 2012 by IEEE-SA Standards Board ~~and on April 26, 2004 by the American National Standards Institute.~~

(c) "Loss of Supply — Substation" or "Power Supply — Substation" means an interruption cause category related to an outage of a distribution substation component.

(d) "Loss of Supply — Transmission" or "Power Supply — Transmission" means an interruption cause category related to the interruption of the electrical supply by the electric company's transmission system or by another electrical utility or operator.

(e) "Reliability reporting area" means a grouping of one or more operating areas, for which the electric company calculates major event thresholds.

(f) "Reporting Period" means the 12-month period, based on a calendar year, for which the electric company is reporting reliability performance.

(g) "System-wide" means pertaining to and limited to the electric company's customers in Oregon.

(3) For reference only, some IEEE 1366 acronyms or terms commonly used in OAR 860-023-0081 through 860-023-0161 are repeated herein. (Note - refer to exact definitions and calculation methodologies in IEEE 1366.)

- (a) "CAIDI" means customer average interruption duration index.
- (b) "Customer" means a metered electrical service point for which an active bill account is established at a specific location (e.g., premise).
- (c) "Interruption" means the loss of service to one or more customers connected to the distribution portion of the system. It is the result of one or more component outages, depending on system configuration.
- (d) "MAIFI<sub>E</sub>" means momentary average interruption event frequency index. (Note -This index does not include events immediately preceding a lockout.)
- (e) "SAIDI" means system average interruption duration index.
- (f) "SAIFI" means system average interruption frequency index.
- (g) "Major Event" designates an event that exceeds the reasonable design and or operational limits of the electric power system. A major event includes at least one Major Event Day (MED).
- (h) "Major Event Day" or "MED" means a day in which the daily system SAIDI exceeds a threshold value,  $T_{MED}$ . For the purposes of calculating daily system SAIDI, any interruption that spans multiple calendar days is accrued to the day on which the interruption began. Statistically, days having a daily system SAIDI greater than  $T_{MED}$  are days on which the energy delivery system experienced stresses beyond that normally expected (such as severe weather). Activities that occur on major event days should be separately analyzed and reported. ~~(See section 4.5 of IEEE 1366.)~~
- (i) " $T_{MED}$ " means a major event day identification threshold value.

[Publications: Publications referenced in this rule are available for review at the agency.]

Stat. Auth.: ORS 183, 756 & 757

Stats. Implemented: ORS 757.020

Hist.: PUC 10-2011, f. 10-14-11, cert. ef. 1-1-12 (Order No. 11-416)