BEFORE THE PUBLIC UTILITY COMMISSION OF THE STATE OF OREGON

UE 319

General Rate Case Filing For Prices Effective January 1, 2018

PORTLAND GENERAL ELECTRIC COMPANY

Executive Summary

February 28, 2017

BEFORE THE PUBLIC UTILITY COMMISSION

OF THE STATE OF OREGON

UE 319

In the Matter of)
PORTLAND GENERAL ELECTRIC COMPANY) EXECUTIVE SUMMARY OF) PORTLAND GENERAL) ELECTRIC COMPANY
Request for a General Rate Revision)

I. INTRODUCTION

Portland General Electric Company ("PGE") is an electric company and public utility pursuant to ORS 757.005. The Public Utility Commission of Oregon has jurisdiction over the price and terms of service for PGE's customers. PGE is filing this request to revise its tariff schedules pursuant to ORS 757.205 and ORS 757.220. This executive summary is submitted to meet the requirements of OAR 860-022-0019.

PGE's last general rate case was filed two years ago. That case, and the case that preceded it, were driven by the addition of new generating plants. The request in this case is largely centered on meeting customers' expectations for quality service in a safe and reliable manner. PGE's mission is to be a company on which customers and communities can depend for electric service provided in a safe, sustainable and reliable manner, with excellent customer service, at reasonable prices. To that end, this case includes investments in technology and infrastructure improvements in several areas including:

- 1) Strengthening the power grid against earthquakes, cyberattacks, and other potential threats.
- Enhancing our cyber security program using risk-based prioritization of enterprise-wide initiatives recommended by outside consultants.
- 3) Continuing to follow our business continuity and emergency management roadmap, with the goal to achieve a level of preparedness and resilience appropriate for a provider of a critical public service.
- 4) As part of the Customer Engagement Transformation program ("CET") that has been discussed in PGE's last three rate cases, PGE is replacing its outdated Customer Information System ("CIS") and Meter Data Management System ("MDMS"). This will

improve the way we interact with customers, enable better business processes, and provide more efficient billing through automation. These systems are expected to be placed in service in the second quarter of 2018 and represent the culmination of CET efforts over many years.

- 5) Participation in the Western Energy Imbalance Market ("Western EIM"), beginning October 1, 2017. This will enable the most efficient use of regional power plants and provide lower costs to customers.
- 6) Adding necessary infrastructure to support new customers and making strategic capital improvements to the Transmission and Distribution system to reduce reliability risk.

An additional driver is lower forecasted energy sales. PGE has long supported efficiency measures, and on average residential customers are decreasing their electric consumption. An additional factor in reduced projected residential use is the trend in heating and cooling degree days. The change in load forecast does impact the recovery of fixed costs which is a factor in this case.

PGE has taken a number of steps to reduce the requested price increase in this case. PGE's benchmarking and continuous improvement cycle implemented in the past several years has yielded savings and decreased upward pressure on costs. PGE also reduced its request in this docket by: 1) removing 100% of Officer Long-term Incentive Program costs and 50% of all other incentive plan costs, 2) removing 50% of the costs of certain layers of directors and officer insurance, 3) requesting a return on equity in the lower portion of the range supported by its expert witness, and 4) excluding the CIS and MDMS investments described above from the revenue requirement in this case. PGE will seek alternatives to incorporate these investments into customer prices after they are in-service.

The overall request is an increase in revenues of approximately \$99.9 million, or 5.60% relative to currently approved prices.

II. SUMMARY OF THIS CASE

As described below, fourteen pieces of testimony discuss the basis for our request in this case. The witnesses are all, with the exception of the witness on the appropriate return on equity, PGE officers and/or employees. The testimony discusses the cost drivers in each area and the projected 2018 costs incorporated into this case.

This case is based on a normalized future test period of calendar year 2018, except that for rate base we use the balance as of December 31, 2017. In order to comply with IRS normalization requirements, we base depreciation expense on 2017 rate base. PGE seeks a schedule in this docket that will allow for a Commission order by December and revised tariff schedules implemented on January 1, 2018. The dollar amounts of the changes are discussed above.

PGE requests an authorized return on equity ("ROE") of 9.75% with a forecasted capital structure of 50% equity and 50% debt. The projected test year results show that without a price increase, PGE will earn an ROE of approximately 7.23%. That is significantly below PGE's currently authorized ROE, and below the level needed to maintain PGE's credit and attract capital.

As set forth in the testimony in this docket, PGE is making significant infrastructure and technological investments to meet our customers' needs for safe, reliable service. Prices need to be set to allow PGE the opportunity to earn a return on invested capital that is commensurate with similar companies, allowing it to maintain its credit and attract capital on terms that will

ultimately be beneficial to customers.

Accounting Orders. PGE also requests that as part of this rate case the Commission approve the following:

An accounting order for pension expense necessary to mitigate an increase that would otherwise occur due to a change in FASB accounting standards. This is discussed in PGE Exhibit 400.

An accounting order related to CET costs to authorize 2018 CET program development O&M costs be booked to a regulatory asset along with all remaining balances from prior CET expense deferrals, and that the remaining balance of all 2014-2018 deferrals be amortized in base prices over ten years beginning in 2018. This proposal is discussed in PGE Exhibit 900.

Implementation of a major maintenance accrual for the Colstrip power plant similar to the accruals for the Port Westward 1, Coyote Springs, Port Westward 2, and Carty generating plants. This proposal is discussed in PGE Exhibit 700.

Changing the major storm accrual to a balancing account similar to that used for major maintenance accruals. This is discussed in PGE Exhibit 800.

Net Variable Power Costs. Each year under Schedule 125, PGE's prices are adjusted to reflect projected net variable power costs ("NVPC") for the coming year, and transition charges or credits for those customers opting for an alternate electricity supplier are calculated. Schedule 125 requires PGE to file estimates of the adjustments on or before April 1. In addition to the NVPC forecast and Minimum Filing Requirements ("MFRs") with this filing, PGE intends to file an update, with additional MFR documentation, by April 1. PGE requests a schedule that will allow for a Commission decision of NVPC issues by mid-October consistent with the requirements of PGE's Tariff Schedules 125 and 128, and the November 2017 direct access

window.

Compliance with OAR 860-022-0019. Attached as Exhibit 1 is the information required by OAR 860-022-0019. That exhibit shows the impact of the proposed price change on each customer class. The impact on residential customers of the requested price change is an increase of 7.1%, and the increase for an average residential customer using 820 kWh per month is \$7.30.

III. TESTIMONY

PGE's testimony and exhibits demonstrate that the Commission should approve this Application. The prices and tariffs proposed result in prices that are just and reasonable. PGE is introducing fourteen pieces of testimony sponsored by the following witnesses:

EXHIBIT NO.	TITLE	WITNESSES	
100	Policy	James J. Piro and Jim Lobdell	
200	Revenue Requirement	Alex Tooman and Rebecca Brown	
300	Net Variable Power Costs	Mike Niman, Terri Peschka and Aaron Rodehorst	
400	Total Compensation	Anne Mersereau and Jardon Jaramillo	
500	Information Technology and Cyber Security	Cam Henderson, Behzad Hosseini and Travis Anderson	
600	Corporate Support/A&G	Jim Lobdell and Alex Tooman	
700	Production O&M	Brad Jenkins and Aaron Rodehorst	
800	Transmission and Distribution	Bill Nicholson and Larry Bekkedahl	
900	Customer Service	Kristin Stathis and Carol Dillin	
1000	Cost of Capital	Patrick Hager and Chris Liddle	
1100	Return on Equity	Bente Villadsen	

1200	Load Forecast	Sarah Dammen and Amber Riter
1300	Marginal Cost of Service	Marc Cody and Robert Macfarlane
1400	Pricing	Marc Cody and Robert Macfarlane

IV. SUMMARY OF TESTIMONY

Exhibit 100. James J. Piro, President and Chief Executive Officer ("CEO") and Jim Lobdell, Sr. Vice President, Finance, Chief Financial Officer ("CFO"), and Treasurer present the opening testimony. They explain the business context for this filing including the investments being made to strengthen the power grid against physical and cyber threats, support for and participation in the Western EIM, new infrastructure required for new customers, and other key proposals. They continue describing the efficiency efforts PGE has successfully implemented, and measures proposed to mitigate the price increase requested in this docket. As the CEO and CFO, Messrs. Piro and Lobdell explain the policy drivers behind PGE's requests in this case, and why they are in the interests of customers. Messrs. Piro and Lobdell also introduce the other testimony in this docket.

Exhibit 200. Project Manager Alex Tooman and Senior Analyst Rebecca Brown summarize the overall 2018 test year revenue requirement and compare the request with 2016 costs. Their testimony also discusses PGE's rate base at year end 2017, associated depreciation and amortization, and unbundled results.

Exhibit 300. PGE Managers Mike Niman and Terri Peschka, and Senior Analyst Aaron Rodehorst present PGE's NVPC. The initial NVPC forecast for 2018 is \$353.6 million. This is a decrease of about \$29.3 million from the 2017 NVPC determined in PGE's recent Annual Update Tariff proceeding, Docket UE 308.

As stated above, PGE requests that a schedule be implemented in this docket to allow for

a Commission decision of NVPC issues by mid-October consistent with the requirements of PGE's Tariff Schedules 125 and 128, and the November 2017 direct access window.

Exhibit 400. Anne Mersereau, Vice President of Human Resources, Diversity and Inclusion, and Jardon Jaramillo, previously the Director of Compensation and Benefits and currently Controller and Assistant Treasurer, testify on compensation and human resource issues. These witnesses describe compensation costs for 2018, changes to PGE compensation policies and plans, and a proposed pension cost recovery and pension investment strategy.

Exhibit 500. Cam Henderson, Vice President of Information Technology and Chief Information Officer ("CIO"), and Behzad Hosseini, Director of the Office of CIO, and Travis Anderson, Information Security Director and Manager of IT Risk Management, explain the costs and drivers related to information technology and cyber security.

Exhibit 600. Jim Lobdell, Senior Vice President, Finance, CFO and Treasurer, and Alex Tooman, Project Manager, explain PGE's costs related to corporate support including business continuity and emergency management, safety, insurance, research and development and environmental services.

Exhibit 700. PGE's long-term power supply resources and associated costs are presented by Bradley Jenkins, Vice President of Power Supply Generation, and Aaron Rodehorst, Senior Analyst. These witnesses discuss plant performance and PGE's proposal to create a major maintenance accrual for the Colstrip generating plant.

Exhibit 800. Bill Nicholson, Senior Vice President of Customer Service, Transmission and Distribution, and Larry Bekkedahl, Vice President of Transmission and Distribution, testify regarding PGE's transmission and distribution ("T&D") system. These witnesses explain the test-year costs necessary to provide service, capital improvement efforts, and how they support

PGE's goal of operational excellence. These witnesses also present PGE's proposal for a balancing account for major storm restoration costs.

Exhibit 900. Kristin Stathis, Vice President of Customer Service Operations, and Carol Dillin, Vice President of Customer Strategies and Business Development, address PGE's Customer Service functions and costs for 2018. They explain customer service O&M costs, details regarding the CET program, and initiatives that support the customer experience.

Exhibit 1000. Patrick Hager, Manager of Regulatory Affairs, and Chris Liddle, Assistant Treasurer and Manager of Corporate Finance and Investor Relations, present PGE's testimony on cost of capital and capital structure for 2018. On behalf of PGE, these witnesses request a 7.46% weighted average cost of capital for PGE. This includes an ROE of 9.75% and long-term debt cost of 5.17%. The witnesses address the impact of the Commission's decision regarding ROE on PGE's credit quality and the future cost of raising capital.

These witnesses also address PGE's current and proposed test-year capital structure. In this docket PGE proposes the same capital structure for ratemaking as was approved in immediately previous rate cases, 50% equity and 50% debt. Finally, the witnesses address some of the specific risks PGE encounters that are relevant to PGE's cost of capital and to the appropriate ROE to be used in this docket.

Exhibit 1100. Bente Villadsen, economist and principal at The Brattle Group, addresses PGE's equity costs. Dr. Villadsen concludes that PGE's required return on equity falls in a range of 9.3% to 10.3%, with a recommendation that PGE's authorized ROE be no less than 9.75%.

Exhibit 1200. Sarah Dammen, Manager of Financial Forecasting and Economic Analysis, and Amber Riter, Economist and lead Load Forecasting Analyst, present PGE's load forecast for 2018 and explain the method in forecasting 2018 load, including: 1) a change in

methodological approach to forecasting peak demand to a proposed regression-based model; and 2) a change in forecast modeling from assuming normal weather to a proposed trended weather approach. As has been done in previous cases, PGE will update the load forecast during this case as updated economic and customer data become available.

Exhibit 1300. Marc Cody and Robert Macfarlane, Senior Analysts, present PGE's marginal cost studies for generation, transmission, distribution, and customer service. Those studies are then used in determining rate spread, rate design, and proposed prices in this docket, as explained in Exhibit 1400.

Exhibit 1400. Marc Cody and Robert Macfarlane, Senior Analysts, testify on pricing. These witnesses discuss how they develop prices for the price schedules, a proposed one dollar change to the residential basic charge, and the changes to various supplemental schedules.

V. COMMUNICATIONS

PGE requests that communications regarding this filing be addressed to:

Jay Tinker
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VI. REQUEST FOR APPROVALS

PGE requests that the Commission issue an order:

- (1) Approving the requested price changes;
- (2) Approving the proposed tariffs;
- (3) Approving the requested accounting order for pension expense;
- (4) Approving the requested accounting order for CET costs;

- (5) Approving a major maintenance accrual for the Colstrip power plant; and
- (6) Approving a balancing account mechanism for major storms.

Dated: this 28th day of February, 2017.

Respectfully submitted,

DOUGLAS C. TINGEY, OSB No. 044366

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Exhibit 1 Case Summary (\$000)

Total Revenue Requirement		\$1,883,332
	nge in Revenues Requested	
To	otal Change in Revenues Requested	\$99,897
To	otal Change net of RPA	\$99,897
Perc	ent Change in Base Revenues Requested	5.60%
Pe	ercent Change net of RPA	5.81%
Test	Period	2018
Requested Rate of Return on Capital (Rate Base)		7.46%
	uested Rate of Return on Common Equity	9.75%
	osed Rate Base	\$4,594,052
	alts of Operation	+ 1,111 1,111
	. Before Price Change	
	Utility Operating Income	\$284,665
	Rate Base	\$4,592,534
	Rate of Return on Capital	6.20%
	Rate of Return on Common Equity	7.23%
В	After Price Change	
	Utility Operating Income	\$342,716
	Rate Base	\$4,594,052
	Rate of Return on Capital	7.46%
	Rate of Return on Common Equity	9.75%
Base	e Rate Effect of Proposed Price Change	
A	. Residential Customers	7.08%
В	Small Non-residential Customers	5.66%
_	. Large Non-residential Customers	3.39%
	. Lighting & Signal Customers	2.14%

401k – Portland General Electric 401(k) Plan

4-CP or 4-Coincident Peak – The monthly peak hours contained in the months of January, July, August, and December

A&G – Administrative and General

A/P – Accounts Payable

ACC – Arizona Corporation Commission

ACH – Automated Clearing House

ACI – Annual Cash Incentive

AFDC/AFUDC – Allowance for Funds Used during Construction

AGC – Automatic Generation Control

AMI – Advance Metering Infrastructure

AOP - Annual Operating Plan

ARM – Asset and Resource Manager

ASC – Accounting Standards Codification

ATWACC - After-Tax Weighted Average Cost of Capital

AUT - Annual Update Tariff

B - Base

BA – Balancing Authority

BAA – Balancing Authority Area

BAL – Bank of America Leasing LLC

BCEM – Business Continuity and Emergency Management

Bcf – Billion Cubic Feet

BETC – Business Energy Tax Credits

BI – Business Intelligence Reporting Tool

BPA – Bonneville Power Administration

Brattle – The Brattle Group

BVPS – Book Value per Share

CAISO – California Independent System Operator

CAPM – Capital Asset Pricing Model

CCCT – Combined Cycle Combustion Turbine

CC&B – Customer Care and Billing

CE – Cost Element

CEI – Critical Energy Infrastructure

CEO – Chief Executive Officer

CET – Customer Engagement Transformation

CFA – Chartered Financial Analyst

CFO – Chief Financial Officer

CIAC – Contributions in Aid of Construction

CIP – Critical Infrastructure Protection

CIS – Customer Information System

CMC – Customer Marginal Costs

CME - Chicago Mercantile Exchange

CMS – Centers for Medicare and Medicaid Services

COS – Cost of Service

CPP - Critical Peak Pricing

CRPC – Columbia River Power Constructors

CRRA – Certified Rate of Return Analyst

CS&BD – Customer Strategies and Business Development

CSI – Centralization, Standardization and Integration

CSO – Customer Service Operations

CTG – Combustion Turbine Generator

CVR – Conversation Voltage Reduction

CWIP – Construction Work in Progress

D&O – Directors and Officers

DCF – Discounted Cash Flow

DDP – Dynamic Dispatch Program

DEQ - Department of Environmental Quality

DOE – Department of Energy

DNV-GL – Garrad Hassan America, Inc.

DP – Dynamic Programming

DPS – Dividends per Share

DR – Demand Response

DR – Data Request

DRA – Division of Ratepayer Advocates

DSG – Dispatchable Standby Generation

DSI - Dry Sorbent Injection

DTH – Decatherm

E – Post Price-Effect

EBITDA – Earnings Before Interest, Taxes, Depreciation and Amortization

EDD – Employment Development Department

EDI – Electronic Data Interchange

EE – Energy Efficiency

EEI – Edison Electric Institute

EFSC – Energy Facility Siting Council

EIA – Energy Information Administration

EIM – Energy Imbalance Market

ELS – Environmental Licensing Services

EOH – Equivalent Operating Hours

EPA – Environmental Protection Agency

EPRI – Electric Power Research Institute

EPS – Earnings per Share

ERISA – Employee Retirement Income Security Act

ERPs – Equity Risk Premiums

ES – Environmental Service

ES - Energy Storage

ESS – Energy Service Supplier

ETO - Energy Trust of Oregon

EU – European Union

EV – Electric Vehicle

F&A – Finance and Accounting

FAS – Financial Accounting Standards

FASB – Financial Accounting Standards Board

Fed – Federal Reserve

FERC – Federal Energy Regulatory Commission

FICA – Federal Insurance Contributions Act

FITNES - Facility Inspections and Treatment to the National Electric Safety Code

FMBs – First Mortgage Bonds

FS – Feasibility Study

FSEC – Financial Systems Effectiveness Committee

FSRP - Financial Systems Replacement Project

FTE – Full Time Equivalent

GAAP – Generally Accepted Accounting Principles

GAC - G-Class Air Cooled

GAWE - Guaranteed Availability and Warranty Extension

GDP - Gross Domestic Product

GECC – General Electric Credit Corporation

GF – General Foreman

GIS – Geospatial Information System

GRC - General Rate Case

GTN – Gas Transmission Northwest, LLC

GWD - Graphic Work Design

HDHP – High Deductible Health Plan

HP/IP – High Pressure and Intermediate Pressure turbine

HPS – High pressure sodium

HR – Human Resources

HRA – Health Reimbursement Account

HRSG – Heat Recovery Steam Generator

I&C – Instrument and Control

IBEW – International Brotherhood of Electrical Workers

IC – Industrial Composite

ICE – IntercontinentalExchange

IE – Independent Evaluator

IPC – Idaho Power Company

IRP – Integrated Resource Plan

ISFSI – Independent Spent Fuel Storage Installation

ISO – Independent System Operator

IT – Information Technology

ITC - Investment Tax Credits

IVR – Interactive Voice Response

kW - Kilowatt

kWh – Kilowatt hours

kV – Kilovolt

kvar – Kilovolt ampere reactive

LEA – Line Extension Allowance

LED – Light-emitting diode

LGIA – Large Generator Interconnection Agreement

LRRA – Lost Revenue Recovery Adjustment

LSR – Lower Snake River

LTSA – Long-term Service Agreement

MAIFI – Momentary Average Interruption Frequency Index

MAP-21 – Moving Ahead for Progress in the 21st Century Act

MRP – Market Risk Premium

MBA – Masters of Business Intelligence

MDCP – Managers Deferred Compensation Plan

MDMS – Meter Data Management System

MFRs - Minimum Filing Requirements

MH - Metal Halide

MHPSA – Mitsubishi Hitachi Power Systems America

Mid-C – Mid-Columbia

MMS - Maximo, Mobile and Scheduling

MONET - Multi-area Optimization Network Energy Transaction model

MPPS - Market Price per Share

MSI – Market Strategies International

MT – Magnetic Particle Testing

MV – Mercury Vapor

MWa – Megawatt average

MWh – Megawatt hours

NAICS - North America Industry Classification System

NCP – Non-coincident peak

NDE – Non-Destructive Examination

NDT – Nuclear Decommissioning Trust

NEPA - National Environmental Policy Act

NERC – North American Electric Reliability Corporation

NGTL – NOVA Gas Transmission, Ltd (TransCanada)

NIST – National Institute of Standards and Technology

NNMREC - Northwest National Marine Renewable Energy Center

NRC – Nuclear Regulatory Commission

NRSS – Non-running Station Service

NTTG – Northern Tier Transmission Group

NVPC - Net Variable Power Cost

NWN - Northwest Natural

NWPP MC – Northwest Power Pool Members Market Assessment and Coordination Committee

O&M – Operations and Maintenance

OATT - Open Access Transmission Tariff

OBI - Oracle Business Intelligence

OCIO - Office of the Chief Information Officer

ODEQ - Oregon Department of Environmental Quality

OE – Operational Efficiency

OEA – Office of Economic Analysis

OMB – Office of Management and Budget

OMS – Outage Management System

OMSI - Oregon Museum of Science and Industry

OOA – Ownership and Operation Agreement

OPIS – Oil Price Information Service

OPUC -Public Utility Commission of Oregon

OSHA – Occupational Safety and Health Administration

OTC – Over-the-Counter

P - Price-Effect

PAC - PacifiCorp

PAS - Publicly Available Specification PBO - Pension Benefit Obligation

PCAM – Power Cost Adjustment Mechanism

PCB – Polychlorinated

PDL – Polynomial Distributed Lag

PEAK – PEAK Reliability

P/E – Price-to-Earnings

PG&E – Pacific Gas and Electric

PGE – Portland General Electric

PIC – Performance Incentive Compensation

PNCA - Pacific Northwest Coordination Agreement

PPA – Pension Protection Act

PPA – Prepaid Pension Asset

PPA – Power Purchase Agreement

PPC - Public Purpose Charges

PRB – Pelton and Round Butte plants

PRC – Power Resources Cooperative

PRPs – Potentially Responsible Parties

PSC - Portland Service Center

PSE – Puget Sound Energy

PSES – Power Supply Engineering Services

PSU – Portland State University

PT – Liquid penetrant method

PTCs – Production Tax Credits

PTP – Point-to-Point

PTSA – Precedent Transmission Service Agreement

PUD – Public Utility District

PwC – Price Waterhouse Coopers

PW1 – Port Westward 1

PW2 – Port Westward 2

R&D – Research and Development

R&ME – Reliability and Maintenance Excellence

RAP – Remedial Action Report

RC – Responsibility Center

RCA – Root Cause Analysis

RCM – Reliability Centered Maintenance

RE – Regional Entity

RES – Renewable Energy Standard

RFP – Request for Proposals

RI – Remedial Investigation

RLCOE – Real Levelized Cost of Energy

ROE – Return on Equity

ROM – Resource Optimization Model

RROE - Required Return on Equity

RP – Risk Premium

RP – Renewable Power

RPS - Renewable Portfolio Standard

RRMP - Recreation Resources Management Plan

RSP – Retirement Savings Plan

RTDT – Real Time Dispatch Tool

RTO – Regional Transmission Organization

S&P – Standard & Poor's

SAIDI – System Average Interruption Duration Index

SAIFI – System Average Interruption Frequency Index

SB - Senate Bill

SCADA – Supervisory Control and Data Acquisition

SCCT – Simple Cycle Combustion Turbine

SCD – Scheduling Control and Dispatch

SCED – Security Constrained Economic Dispatch

SEC – Securities Exchange Commission

SEDC - Safe and Efficient Design Construction

SEI – Siemens Energy

SEM – Scanning Electron Microscope

SERP – Supplemental Executive Retirement Plan

SFAS – Statement of Financial Accounting Standards

SG - Smart Grid

SHARP – Safety and Health Achievement Recognition Program

SIP – Strategic Investment Program

SITF – Supervisor in the Field

SMA – Service and Maintenance Agreement

SME – Soy Methyl Ester

SNA – Sales Normalization Adjustment

SQM – Service Quality Measure

SR – System Reliability

SSPC - Salem Smart Power Center

STD – Short-term Disability

SY – System Resiliency

T&D – Transmission and Distribution

TCC - Tualatin Contact Center

TID – Turlock Irrigation District

TIV – Total Insured Value

TOU – Time-of-Use

TQS – TQS Research, Inc.

TSRs – Transmission Service Requests

UAM – Utility Asset Management

UG – Underground

USWC – US West Communications

UT – Ultrasonic testing

VER – Variable Energy Resource

VERBS – Variable Energy Resource Balancing Service

VIE – Variable Interest Entities

VoIP – Voice over Internet Protocol

VPP – Voluntary Protection Program

W&S – Wages and Salaries

WACC – Weighted Average Cost of Capital

WECC – Western Energy Coordinating Council

WIES – Western Interconnected Electric Systems

WMS – Work Management System

WNA – Wärtsilä North America

WSATA – Western States Association of Tax Administrators

WSPWE – Warm Spring Power and Water Enterprises

WTG – Wind Turbine Generators