ABBREVIATIONS

 α slope angle

ACI American Concrete Institute

ALA American Lifelines Alliance

ASCE American Society of Civil Engineers

AWWA American Water Works Association

CEMP Comprehensive Emergency Management Plan

CESSL Cedar Eastside Supply Line

COOP Continuity of Operations Plan

CMU concrete masonry unit

CRPL Cedar River Pipeline

CSZ Cascadia Subduction Zone

Cygna Energy Services

EOP Emergency Operations Plan

EPANET hydraulic modeling software developed by the Environmental Protection

Agency

ERDIP earthquake-resistant ductile-iron pipe

EWD emergency drinking water distribution

FEMA Federal Emergency Management Agency

FERC Federal Energy Regulatory Commission

FS factor of safety

g acceleration due to gravity

G&E G&E Engineering Systems Inc.

GMPEs ground motion prediction equations

ABBREVIATIONS

gpm gallons per minute

HDPE high-density polyethylene

HSS hollow structural section

ISO International Organization for Standardization

KN kilonewton

k_y ground acceleration that triggers landsliding

LADWP Los Angeles Department of Water and Power

LCI Lettis Consultants International

M7.0, M9.0, etc. magnitude 7, magnitude 9, etc.

M7.0 SFZ magnitude 7.0 Seattle Fault Zone

M9.0 CSZ magnitude 9.0 Cascadia Subduction Zone

mg million gallons

mgd million gallons per day

NGA West2 Phase 2 of Next Generation Attenuation Models

OCC Operations and Control Center

OSSPAC Oregon Seismic Safety Policy Advisory Commission

PGA peak ground acceleration

PGD permanent ground displacement

PGV peak ground velocity

psi pounds per square inch

PVC polyvinyl chloride

SCADA supervisory control and data acquisition

ABBREVIATIONS

SEI Structural Engineering Institute

SFZ Seattle Fault Zone

SODO south of downtown or south of the King Dome

SPU Seattle Public Utilities

SSI soil structure interaction

SSRA System Storage and Reliability Analysis

SWIF South Whidbey Island Fault

TCA TCA Architecture Planning

TESSL Tolt Eastside Supply Line

TIC Tank Industry Consultants

TPL Tolt Pipeline

UBC Uniform Building Code

USGS United States Geological Survey

V_s30 average shear wave velocity in the top 30 meters of the earth's surface