

Application No. 18-04-002
Exhibit PAC/1514
Witness: Kurt G. Strunk

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA

PACIFICORP

Exhibit Accompanying Rebuttal Testimony of

Kurt G. Strunk

PacifiCorp California Allowed ROE

November 2018

PacifiCorp California
Allowed ROE for Other Electric Utilities (2015)

State	Company Name	Docket Number	Allowed Return on Equity (%)
Colorado	Public Service Co. of CO	D-14AL-0660E	9.83
Idaho	Avista Corp.	C-AVU-E-15-05	9.50
Illinois	Ameren Illinois	D-15-0305	9.14
Illinois	Commonwealth Edison Co.	D-15-0287	9.14
Kansas	Kansas City Power & Light	D-15-KCPE-116-RTS	9.30
Michigan	Consumers Energy Co.	C-U-17735	10.30
Michigan	DTE Electric Co.	C-U-17767	10.30
Michigan	Wisconsin Public Service Corp.	C-U-17669	10.20
Minnesota	Northern States Power Co. - MN	D-E-002/GR-13-868	9.72
Missouri	Kansas City Power & Light	C-ER-2014-0370	9.50
Missouri	Union Electric Co.	C-ER-2014-0258	9.53
Mississippi	Mississippi Power Co.	D-2015-UN-0080	9.23
New Jersey	Jersey Cntrl Power & Light Co.	D-ER-12111052	9.75
New York	Central Hudson Gas & Electric	C-14-E-0318	9.00
New York	Consolidated Edison Co. of NY	C-15-E-0050/C-13-E-0030 (Ext)	9.00
New York	Orange & Rockland Utlts Inc.	C-14-E-0493	9.00
Oregon	Portland General Electric Co.	D-UE-294	9.60
Texas	Cross Texas Transmission	D-43950	9.60
Texas	Southwestern Public Service Co	D-43695	9.70
Virginia	Virginia Electric & Power Co.	C-PUE-2014-00103 (Rider BW)	11.00
Virginia	Virginia Electric & Power Co.	C-PUE-2014-00050 (Rider B)	12.00
Virginia	Virginia Electric & Power Co.	C-PUE-2014-00052 (Rider R)	11.00
Virginia	Virginia Electric & Power Co.	C-PUE-2014-00051 (Rider S)	11.00
Virginia	Virginia Electric & Power Co.	C-PUE-2014-00042 (Rider W)	11.00
Washington	PacifiCorp	D-UE-140762	9.50
Wisconsin	Northern States Power Co - WI	D-4220-UR-121 (Elec)	10.00
Wisconsin	Wisconsin Public Service Corp.	D-6690-UR-124 (Elec)	10.00
West Virginia	Appalachian Power Co.	C-14-1152-E-42T	9.75
Wyoming	PacifiCorp	D-20000-469-ER-15	9.50
Wyoming	PacifiCorp	D-20000-446-ER-14	9.50
Average			9.85

Source: SNL Financial

PacifiCorp California
Allowed ROE for Other Vertically Integrated Electric Utilities (2015)

State	Company Name	Docket Number	Allowed Return on Equity (%)
Colorado	Public Service Co. of CO	D-14AL-0660E	9.83
Idaho	Avista Corp.	C-AVU-E-15-05	9.50
Kansas	Kansas City Power & Light	D-15-KCPE-116-RTS	9.30
Michigan	Consumers Energy Co.	C-U-17735	10.30
Michigan	DTE Electric Co.	C-U-17767	10.30
Michigan	Wisconsin Public Service Corp.	C-U-17669	10.20
Minnesota	Northern States Power Co. - MN	D-E-002/GR-13-868	9.72
Missouri	Kansas City Power & Light	C-ER-2014-0370	9.50
Missouri	Union Electric Co.	C-ER-2014-0258	9.53
Oregon	Portland General Electric Co.	D-UE-294	9.60
Texas	Southwestern Public Service Co	D-43695	9.70
Washington	PacifiCorp	D-UE-140762	9.50
Wisconsin	Northern States Power Co - WI	D-4220-UR-121 (Elec)	10.00
Wisconsin	Wisconsin Public Service Corp.	D-6690-UR-124 (Elec)	10.00
West Virginia	Appalachian Power Co.	C-14-1152-E-42T	9.75
Wyoming	PacifiCorp	D-20000-469-ER-15	9.50
Wyoming	PacifiCorp	D-20000-446-ER-14	9.50
Average			9.75

Source: SNL Financial

PacifiCorp California
Allowed ROE for Other Electric Utilities (2016)

State	Company Name	Docket Number	Allowed Return on Equity (%)
North Dakota	MDU Resources Group Inc.	C-PU-15-703	10.50
Washington	Avista Corp.	D-UE-150204	9.50
Arkansas	Entergy Arkansas Inc.	D-15-015-U	9.75
Virginia	Virginia Electric & Power Co.	C-PUE-2015-00058 (Rider B)	11.60
Virginia	Virginia Electric & Power Co.	C-PUE-2015-00059 (Rider R)	10.60
Virginia	Virginia Electric & Power Co.	C-PUE-2015-00060 (Rider S)	10.60
Virginia	Virginia Electric & Power Co.	C-PUE-2015-00061 (Rider W)	10.60
Indiana	Indianapolis Power & Light Co.	Ca-44576	9.85
Virginia	Virginia Electric & Power Co.	C-PUE-2015-00075 (Rider GV)	9.60
Massachusetts	Fitchburg Gas & Electric Light	DPU 15-80	9.80
Maryland	Baltimore Gas and Electric Co.	C-9406 (elec)	9.75
New Mexico	El Paso Electric Co.	C-15-00127-UT	9.48
New York	NY State Electric & Gas Corp.	C-15-E-0283	9.00
New York	Rochester Gas & Electric Corp.	C-15-E-0285	9.00
Virginia	Virginia Electric & Power Co.	C-PUE-2015-00102 (Rider BW)	10.60
Virginia	Virginia Electric & Power Co.	C-PUE-2015-00104 (Rider US-2)	9.60
Indiana	Northern IN Public Svc Co.	Ca-44688	9.98
Tennessee	Kingsport Power Company	D-16-00001	9.85
Arizona	UNS Electric Inc.	D-E-04204A-15-0142	9.50
New Jersey	Atlantic City Electric Co.	D-ER-16030252	9.75
Washington	PacifiCorp	D-UE-152253	9.50
Michigan	Upper Peninsula Power Co.	C-U-17895	10.00
New Mexico	Public Service Co. of NM	C-15-00261-UT	9.58
Massachusetts	Massachusetts Electric Co.	DPU-15-155	9.90
Virginia	Appalachian Power Co.	C-PUE-2016-00038	9.40
Wisconsin	Madison Gas and Electric Co.	D-3270-UR-121 (Elec)	9.80
Oklahoma	Public Service Co. of OK	Ca-PUD201500208	9.50
Maryland	Potomac Electric Power Co.	C-9418	9.55
Wisconsin	Wisconsin Power and Light Co	D-6680-UR-120 (Elec)	10.00
Florida	Florida Power & Light Co.	D-160021-EI	10.55
California	Liberty Utilities CalPeco Ele	A-15-05-008	10.00
Illinois	Ameren Illinois	D-16-0262	8.64
Illinois	Commonwealth Edison Co.	D-16-0259	8.64
South Carolina	Duke Energy Progress LLC	D-2016-227-E	10.10
New Jersey	Jersey Cntrl Power & Light Co.	D-ER-16040383	9.60
Connecticut	United Illuminating Co.	D-16-06-04	9.10
Colorado	Black Hills Colorado Electric	D-16AL-0326E	9.37
Maine	Emera Maine	D-2015-00360	9.00
North Carolina	Virginia Electric & Power Co.	D-E-22, Sub 532	9.90
Nevada	Sierra Pacific Power Co.	D-16-06006	9.60
Idaho	Avista Corp.	C-AVU-E-16-03	9.50
Virginia	Appalachian Power Co.	C-PUE-2016-00024 (G-RAC)	10.00
Average			9.77

Source: SNL Financial

PacifiCorp California
Allowed ROE for Other Vertically Integrated Electric Utilities (2016)

State	Company Name	Docket Number	Allowed Return on Equity (%)
Washington	Avista Corp.	D-UE-150204	9.50
Arkansas	Entergy Arkansas Inc.	D-15-015-U	9.75
Indiana	Indianapolis Power & Light Co.	Ca-44576	9.85
New Mexico	El Paso Electric Co.	C-15-00127-UT	9.48
Indiana	Northern IN Public Svc Co.	Ca-44688	9.98
Tennessee	Kingsport Power Company	D-16-00001	9.85
Arizona	UNS Electric Inc.	D-E-04204A-15-0142	9.50
Washington	PacifiCorp	D-UE-152253	9.50
Michigan	Upper Peninsula Power Co.	C-U-17895	10.00
New Mexico	Public Service Co. of NM	C-15-00261-UT	9.58
Wisconsin	Madison Gas and Electric Co.	D-3270-UR-121 (Elec)	9.80
Oklahoma	Public Service Co. of OK	Ca-PUD201500208	9.50
Wisconsin	Wisconsin Power and Light Co	D-6680-UR-120 (Elec)	10.00
Florida	Florida Power & Light Co.	D-160021-EI	10.55
California	Liberty Utilities CalPeco Ele	A-15-05-008	10.00
South Carolina	Duke Energy Progress LLC	D-2016-227-E	10.10
Colorado	Black Hills Colorado Electric	D-16AL-0326E	9.37
North Carolina	Virginia Electric & Power Co.	D-E-22, Sub 532	9.90
Nevada	Sierra Pacific Power Co.	D-16-06006	9.60
Idaho	Avista Corp.	C-AVU-E-16-03	9.50
Average			9.77

Source: SNL Financial

PacifiCorp California
Allowed ROE for Other Electric Utilities (2017)

State	Company Name	Docket Number	Allowed Return on Equity (%)
Alaska	Alaska Electric Light Power	D-U-16-086	11.95
Arkansas	Oklahoma Gas and Electric Co.	D-16-052-U	9.50
Arizona	Arizona Public Service Co.	D-E-01345A-16-0036	10.00
Arizona	Tucson Electric Power Co.	D-E-01933A-15-0322	9.75
California	Pacific Gas and Electric Co.	Advise No. 3887-G/5148-E	10.25
California	San Diego Gas & Electric Co.	Advice No. 3120-E	10.20
California	Southern California Edison Co.	Advice No. 3665-E	10.30
District of Columbia	Potomac Electric Power Co.	FC-1139	9.50
Delaware	Delmarva Power & Light Co.	D-16-0649	9.70
Florida	Gulf Power Co.	D-160186-EI	10.25
Florida	Tampa Electric Co.	D-20170210-EI	10.25
Idaho	Avista Corp.	D-AVU-E-17-01	9.50
Idaho	Idaho Power Co.	C-IPC-E-16-24	9.50
Illinois	Ameren Illinois	D-17-0197	8.40
Illinois	Commonwealth Edison Co.	D-17-0196	8.40
Kentucky	Kentucky Utilities Co.	C-2016-00370	9.70
Kentucky	Louisville Gas & Electric Co.	C-2016-00371 (elec.)	9.70
Massachusetts	NSTAR Electric Co.	DPU 17-05 (NSTAR)	10.00
Massachusetts	Western Massachusetts Electric	DPU 17-05 (WMECO)	10.00
Maryland	Delmarva Power & Light Co.	C-9424	9.60
Maryland	Potomac Electric Power Co.	C-9443	9.50
Michigan	Consumers Energy Co.	C-U-17990	10.10
Michigan	DTE Electric Co.	C-U-18014	10.10
Minnesota	Northern States Power Co. - MN	D-E-002/GR-15-826	9.20
Minnesota	Otter Tail Power Co.	D-E-017/GR-15-1033	9.41
Missouri	Kansas City Power & Light	C-ER-2016-0285	9.50
North Dakota	MDU Resources Group Inc.	C-PU-16-666	9.65
New Hampshire	Liberty Utilities Granite St	D-DE-16-383	9.40
New Hampshire	Unitil Energy Systems Inc.	D-DE-16-384	9.50
New Jersey	Atlantic City Electric Co.	D-ER-17030308	9.60
New Jersey	Rockland Electric Company	D-ER-16050428	9.60
New Mexico	Public Service Co. of NM	C-16-00276-UT	9.58
Nevada	Nevada Power Co.	D-17-06003	9.40
New York	Consolidated Edison Co. of NY	C-16-E-0060	9.00
Oklahoma	Oklahoma Gas and Electric Co.	Ca-PUD201500273	9.50
Oregon	Portland General Electric Co.	D-UE-319	9.50
Texas	El Paso Electric Co.	D-46831	9.65
Texas	Electric Transmission Texas	D-45636-ETT	9.60
Texas	Oncor Electric Delivery Co.	D-46957	9.80
Texas	Southwestern Electric Power Co	D-46449	9.60
Virginia	Virginia Electric & Power Co.	C-PUE-2016-00136 (Rider U)	9.40
Virginia	Virginia Electric & Power Co.	C-PUE-2016-00111 (Rider DSM)	9.40
Virginia	Virginia Electric & Power Co.	PUE-2016-00112 (Rider BW)	10.40
Virginia	Virginia Electric & Power Co.	C-PUE-2016-00113 (Rider US-2)	9.40
Virginia	Virginia Electric & Power Co.	C-PUE-2016-00059 (Rider B)	11.40
Virginia	Virginia Electric & Power Co.	C-PUE-2016-00060 (Rider GV)	9.40
Virginia	Virginia Electric & Power Co.	C-PUE-2016-00061 (Rider R)	10.40
Virginia	Virginia Electric & Power Co.	C-PUE-2016-00062 (Rider S)	10.40
Virginia	Virginia Electric & Power Co.	C-PUE-2016-00063 (Rider W)	10.40
Vermont	Green Mountain Power Corp.	C-17-3112-INV	9.10
Washington	Puget Sound Energy Inc.	D-UE-170033	9.50
Wisconsin	Northern States Power Co - WI	D-4220-UR-123 (Elec)	9.80
Average			9.74

Source: SNL Financial

PacifiCorp California
Allowed ROE for Other Vertically Integrated Electric Utilities (2017)

State	Company Name	Docket Number	Allowed Return on Equity (%)
Alaska	Alaska Electric Light Power	D-U-16-086	11.95
Arkansas	Oklahoma Gas and Electric Co.	D-16-052-U	9.50
Arizona	Arizona Public Service Co.	D-E-01345A-16-0036	10.00
Arizona	Tucson Electric Power Co.	D-E-01933A-15-0322	9.75
California	Pacific Gas and Electric Co.	Advise No. 3887-G/5148-E	10.25
California	San Diego Gas & Electric Co.	Advice No. 3120-E	10.20
California	Southern California Edison Co.	Advice No. 3665-E	10.30
Florida	Gulf Power Co.	D-160186-EI	10.25
Florida	Tampa Electric Co.	D-20170210-EI	10.25
Idaho	Avista Corp.	D-AVU-E-17-01	9.50
Kentucky	Kentucky Utilities Co.	C-2016-00370	9.70
Kentucky	Louisville Gas & Electric Co.	C-2016-00371 (elec.)	9.70
Michigan	Consumers Energy Co.	C-U-17990	10.10
Michigan	DTE Electric Co.	C-U-18014	10.10
Minnesota	Northern States Power Co. - MN	D-E-002/GR-15-826	9.20
Minnesota	Otter Tail Power Co.	D-E-017/GR-15-1033	9.41
Missouri	Kansas City Power & Light	C-ER-2016-0285	9.50
North Dakota	MDU Resources Group Inc.	C-PU-16-666	9.65
New Mexico	Public Service Co. of NM	C-16-00276-UT	9.58
Nevada	Nevada Power Co.	D-17-06003	9.40
Oklahoma	Oklahoma Gas and Electric Co.	Ca-PUD201500273	9.50
Oregon	Portland General Electric Co.	D-UE-319	9.50
Texas	El Paso Electric Co.	D-46831	9.65
Texas	Southwestern Electric Power Co	D-46449	9.60
Vermont	Green Mountain Power Corp.	C-17-3112-INV	9.10
Washington	Puget Sound Energy Inc.	D-UE-170033	9.50
Wisconsin	Northern States Power Co - WI	D-4220-UR-123 (Elec)	9.80
Average			9.81

Source: SNL Financial

PacifiCorp California
Recent FERC Authorized Returns on Equity

Date	Filing Entity	Return on Equity (%)
(a)	(b)	(c)
ELECTRIC TRANSMISSION		
Oct 2014	ISO-New England	10.57
May 2015	Niagara Mohawk Power	9.80
Oct 2015	American Transmission Systems	10.38
Oct 2015	Southwestern Public Service	10.00
Nov 2015	Duke Energy Florida	10.00
Feb 2016	Atlantic City Electric	10.00
Feb 2016	Baltimore Gas & Electric	10.00
Feb 2016	Delmarva Power & Light	10.00
Feb 2016	Potomac Electric Power	10.00
Mar 2016	Westar	9.80
Mar 2016	New York Transco	9.50
Sep 2016	Midcontinent Independent System Operator	10.32
Nov 2016	Duke Energy Carolinas	10.00
Nov 2016	Duke Energy Progress	10.00
May 2017	Public Service Electric & Gas	11.18
Nov 2017	New York Transco	9.65
Nov 2017	NextEra Energy Transmission Midwest	10.32
Average		10.09
NATURAL GAS PIPELINES		
Sep 2016	Sabal Trail Transmission, LLC	14.00
Feb 2017	Rover Pipeline LLC	13.00
Feb 2017	Transcontinental Gas Pipe Line Company, LLC	15.34
Oct 2017	Atlantic Coast Pipeline, LLC	14.00
Average		14.09

Notes:

Source: FERC e-library, SNL