Exh. AEB-2 Docket UG-240008 Witness: Ann E. Bulkley

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION,

Complainant,

v.

CASCADE NATURAL GAS CORPORATION,

Respondent.

DOCKET UG-240008

CASCADE NATURAL GAS CORPORATION

FIRST EXHIBIT TO THE DIRECT TESTIMONY OF ANN E. BULKLEY

Ann E. Bulkley

Boston

508.981.0866

Ann.Bulkley@brattle.com

With more than 25 years of experience in the energy industry, Ms. Bulkley specializes in regulatory economics for the electric and natural gas and water utility sectors, including valuation of regulated and unregulated utility assets, cost of capital, and capital structure issues.

Ms. Bulkley has extensive state and federal regulatory experience, and she has provided expert testimony on the cost of capital in nearly 100 regulatory proceedings before 32 state regulatory commissions and the Federal Energy Regulatory Commission (FERC).

In addition to her regulatory experience, Ms. Bulkley has provided valuation and appraisal services for a variety of purposes, including the sale or acquisition of utility assets, regulated ratemaking, ad valorem tax disputes, and other litigation purposes. In addition, she has experience in the areas of contract and business unit valuation, strategic alliances, market restructuring, and regulatory and litigation support.

Ms. Bulkley is a Certified General Appraiser licensed in the Commonwealth of Massachusetts and the State of New Hampshire.

Prior to joining Brattle, Ms. Bulkley was a Senior Vice President at an economic consultancy and held senior positions at several other consulting firms.

AREAS OF EXPERTISE

- Regulatory Economics, Finance & Rates
- Regulatory Investigations & Enforcement
- Tax Controversy & Transfer Pricing
- Electricity Litigation & Regulatory Disputes
- M&A Litigation

EDUCATION

Boston University

MA in Economics

Simmons College

BA in Economics and Finance

PROFESSIONAL EXPERIENCE

• The Brattle Group (2022–Present)

Principal

Concentric Energy Advisors, Inc. (2002–2021)

Senior Vice President

Vice President

Assistant Vice President

Project Manager

Navigant Consulting, Inc. (1997–2002)

Project Manager

Reed Consulting Group (1995-1997)

Consultant- Project Manager

Cahners Publishing Company (1995)

Economist

SELECTED CONSULTING EXPERIENCE & EXPERT TESTIMONY

REGULATORY ANALYSIS AND RATEMAKING

Have provided a range of advisory services relating to regulatory policy analysis and many aspects of utility ratemaking, with specific services including:

- Cost of capital and return on equity testimony, cost of service and rate design analysis and testimony, development of ratemaking strategies
- Development of merchant function exit strategies

- Analysis and program development to address residual energy supply and/or provider of last resort obligations
- Stranded costs assessment and recovery
 Performance-based ratemaking analysis and design
- Many aspects of traditional utility ratemaking (e.g., rate design, rate base valuation)

COST OF CAPITAL

Have provided expert testimony on the cost of capital and capital structure in nearly 100 regulatory proceedings before state and federal regulatory commissions in the United States.

RATEMAKING

Have assisted several clients with analysis to support investor-owned and municipal utility clients in the preparation of rate cases. Sample engagements include:

- Assisted several investor-owned and municipal clients on cost allocation and rate design issues
 including the development of expert testimony supporting recommended rate alternatives.
- Worked with Canadian regulatory staff to establish filing requirements for a rate review of a newly
 regulated electric utility. Along with analyzing and evaluating rate application, attended hearings
 and conducted investigation of rate application for regulatory staff and prepared, supported, and
 defended recommendations for revenue requirements and rates for the company. Additionally,
 developed rates for gas utility for transportation program and ancillary services.

VALUATION

Have provided valuation services to utility clients, unregulated generators, and private equity clients for a variety of purposes, including ratemaking, fair value, ad valorem tax, litigation and damages, and acquisition. Appraisal practices are consistent with the national standards established by the Uniform Standards of Professional Appraisal Practice.

Representative projects/clients have included:

- Prepared appraisals of electric utility transmission and distribution assets for ad valorem tax purposes.
- Prepared appraisals of hydroelectric generating facilities for ad valorem tax purposes.
- Conducted appraisals of fossil fuel generating facilities for ad valorem tax purposes.
- Conducted appraisals of generating assets for the purposes of unwinding sale-leaseback agreements.
- For a confidential utility client, prepared valuation of fossil and nuclear generation assets for financing purposes for regulated utility client.

- Conducted a strategic review of the acquisition of nuclear generation assets. Review included the
 evaluation of the operating costs of the facilities and the long-term liabilities associated with the
 assets including the decommissioning of the assets.
- Prepared a valuation of a portfolio of generation assets for a large energy utility to be used for strategic planning purposes. Valuation approach included an income approach, a real options analysis, and a risk analysis.
- Assisted clients in the restructuring of NUG contracts through the valuation of the underlying assets.
 Performed analysis to determine the option value of a plant in a competitively priced electricity market following the settlement of the NUG contract.
- Prepared market valuations of several purchase power contracts for large electric utilities in the sale
 of purchase power contracts. Assignment included an assessment of the regional power market,
 analysis of the underlying purchase power contracts, and a traditional discounted cash flow
 valuation approach, as well as a risk analysis. Analyzed bids from potential acquirers using income
 and risk analysis approached. Prepared an assessment of the credit issues and value at risk for the
 selling utility.
- Prepared appraisal of a portfolio of generating facilities for a large electric utility to be used for financing purposes.
- Conducted a valuation of regulated utility assets for the fair value rate base estimate used in electric rate proceedings in Indiana.
- Prepared an appraisal of a fleet of fossil generating assets for a large electric utility to establish the value of assets transferred from utility property.
- Conducted due diligence on an electric transmission and distribution system as part of a buy-side due diligence team.
- Provided analytical support and prepared testimony regarding the valuation of electric distribution system assets in five communities in a condemnation proceeding.
- Prepared feasibility reports analyzing the expected net benefits resulting from municipal ownership of investor-owned utility operations.
- Prepared independent analyses of proposal for the proposed government condemnation of the investor-owned utilities in Maine and the formation of a public power district.
- Valued purchase power agreements in the transfer of assets to a deregulated electric market.

STRATEGIC AND FINANCIAL ADVISORY SERVICES

Have assisted several clients across North America with analytically-based strategic planning, due diligence, and financial advisory services.

Representative projects include:

- Preparation of feasibility studies for bond issuances for municipal and district steam clients.
- Assisted in the development of a generation strategy for an electric utility. Analyzed various NERC regions to identify potential market entry points. Evaluated potential competitors and alliance partners. Assisted in the development of gas and electric price forecasts. Developed a framework for the implementation of a risk management program.
- Assisted clients in identifying potential joint venture opportunities and alliance partners. Contacted
 interviewed and evaluated potential alliance candidates based on company-established criteria for
 several LDCs and marketing companies. Worked with several LDCs and unregulated marketing
 companies to establish alliances to enter into the retail energy market. Prepared testimony in
 support of several merger cases and participated in the regulatory process to obtain approval for
 these mergers.
- Assisted clients in several buy-side due diligence efforts, providing regulatory insight and developing valuation recommendations for acquisitions of both electric and gas properties.

BULKLEY TESTIMONY LISTING

SPONSOR	DATE	CASE/APPLICANT	DOCKET / CASE NO.	SUBJECT		
Arizona Corporation Commission						
UNS Electric	11/22	UNS Electric	Docket No. E- 04204A-15-0251	Return on Equity		
Tucson Electric Power Company	6/22	Tucson Electric Power Company	Docket No. G- 01933A-22-0107	Return on Equity		
Southwest Gas Corporation	12/21	Southwest Gas Corporation	Docket No. G- 01551A-21-0368	Return on Equity		
Arizona Public Service Company	10/19	Arizona Public Service Company	Docket No. E- 01345A-19-0236	Return on Equity		
Tucson Electric Power Company	04/19	Tucson Electric Power Company	Docket No. E- 01933A-19-0028	Return on Equity		
Tucson Electric Power Company	11/15	Tucson Electric Power Company	Docket No. E- 01933A-15-0322	Return on Equity		
UNS Electric	05/15	UNS Electric	Docket No. E- 04204A-15-0142	Return on Equity		
UNS Electric	12/12	UNS Electric	Docket No. E- 04204A-12-0504	Return on Equity		
Arkansas Public Service Com	nmission					
Oklahoma Gas and Electric Co	10/21	Oklahoma Gas and Electric Co	Docket No. D-18-046- FR	Return on Equity		
Arkansas Oklahoma Gas Corporation	10/13	Arkansas Oklahoma Gas Corporation	Docket No. 13-078-U	Return on Equity		
California Public Utilities Commission						
PacifiCorp, d/b/a Pacific Power	5/22	PacifiCorp, d/b/a Pacific Power	Docket No. A-22-05- 006	Return on Equity		
San Jose Water Company	05/21	San Jose Water Company	A2105004	Return on Equity		

Public Service Company of Colorado Atmos Energy Corporation O5/15 Atmos Energy Docket No. 15AL-Q299G Atmos Energy Corporation O4/14 Atmos Energy Docket No. 14AL-Q299G Atmos Energy Corporation O5/13 Atmos Energy Docket No. 13AL-Q300G Atmos Energy Corporation O5/13 Atmos Energy Docket No. 13AL-Q496G Connecticut Public Utilities Regulatory Authority The Southern Connecticut O6/14 Atmos Energy Docket No. 23-11-02 Return on Equity Corporation Connecticut Public Utilities Regulatory Authority The Southern Connecticut Office Office of Connecticut Natural Gas Company Connecticut Natural Gas Company United Illuminating O9/22 United Illuminating Docket No. 22-08-08 Return on Equity	SPONSOR	DATE	CACE /ADDITIONAL	DOCKET /CASE NO	SUBJECT
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Corporation Corporation Connecticut Water Docket No. 23-08-32 Return on Equity Company			Company		
Connecticut Water Company Connecticut Water Docket No. 23-08-32 Return on Equity	Connecticut Natural Gas	11/23	Connecticut Natural Gas	Docket No. 23-11-02	Return on Equity
Company	Corporation		Corporation		
	Connecticut Water	10/23	Connecticut Water	Docket No. 23-08-32	Return on Equity
United Illuminating 09/22 United Illuminating Docket No. 22-08-08 Return on Equity	Company		Company		
	United Illuminating	09/22	United Illuminating	Docket No. 22-08-08	Return on Equity

SPONSOR	DATE	CASE/APPLICANT	DOCKET /CASE NO.	SUBJECT
United Illuminating	05/21	United Illuminating	Docket No. 17-12- 03RE11	Return on Equity
Connecticut Water Company	01/21	Connecticut Water Company	Docket No. 20-12-30	Return on Equity
Connecticut Natural Gas Corporation	06/18	Connecticut Natural Gas Corporation	Docket No. 18-05-16	Return on Equity
Yankee Gas Services Co. d/b/a Eversource Energy	06/18	Yankee Gas Services Co. d/b/a Eversource Energy	Docket No. 18-05-10	Return on Equity
The Southern Connecticut Gas Company	06/17	The Southern Connecticut Gas Company	Docket No. 17-05-42	Return on Equity
The United Illuminating Company	07/16	The United Illuminating Company	Docket No. 16-06-04	Return on Equity
Federal Energy Regulatory	Commissi	on		
Sea Robin Pipeline	12/22	Sea Robin Pipeline	Docket No. RP22	Return on Equity
Northern Natural Gas Company	07/22	Northern Natural Gas Company	Docket No. RP22	Return on Equity
Transwestern Pipeline Company, LLC	07/22	Transwestern Pipeline Company, LLC	Docket No. RP22	Return on Equity
Florida Gas Transmission	02/21	Florida Gas Transmission	Docket No. RP21-441	Return on Equity
TransCanyon	01/21	TransCanyon	Docket No. ER21- 1065	Return on Equity
Duke Energy	12/20	Duke Energy	Docket No. EL21-9- 000	Return on Equity
Wisconsin Electric Power Company	08/20	Wisconsin Electric Power Company	Docket No. EL20-57- 000	Return on Equity
Panhandle Eastern Pipe Line Company, LP	10/19	Panhandle Eastern Pipe Line Company, LP	Docket Nos. RP19-78-000 RP19-78-001	Return on Equity

SPONSOR	DATE	CASE/APPLICANT	DOCKET /CASE NO.	SUBJECT	
Panhandle Eastern Pipe	08/19	Panhandle Eastern Pipe	Docket Nos.	Return on Equity	
Line Company, LP		Line Company, LP	RP19-1523		
Sea Robin Pipeline	11/18	Sea Robin Pipeline	Docket# RP19-352-	Return on Equity	
Company LLC	ļ	Company LLC	000		
Tallgrass Interstate Gas	10/15	Tallgrass Interstate Gas	RP16-137	Return on Equity	
Transmission		Transmission			
Idaho Public Utilities Comm	ission				
Intermountain Gas Co	12/22	Intermountain Gas Co	C-INT-G-22-07	Return on	
				Equity	
PacifiCorp d/b/a Rocky	05/21	PacifiCorp d/b/a Rocky	Case No. PAC-E-21-	Return on	
Mountain Power		Mountain Power	07	Equity	
Illinois Commerce Commiss	ion				
Peoples Gas Light & Coke	01/23	Peoples Gas Light &	D-23-0069	Return on	
Company		Coke Company		Equity	
North Shore Gas Company	01/23	North Shore Gas	D-23-0068	Return on	
		Company		Equity	
Illinois American Water	02/22	Illinois American Water	Docket No. 22-0210	Return on	
				Equity	
North Shore Gas Company	02/21	North Shore Gas	No. 20-0810	Return on	
		Company		Equity	
Indiana Utility Regulatory Commission					
Southern Indiana Gas and	12/23	Southern Indiana Gas	IURC Cause No.	Return on	
Electric Company d/b/a		and Electric Company	45990	Equity	
CenterPoint Energy Indiana		d/b/a CenterPoint			
South		Energy Indiana South			
Indiana Michigan Power	08/23	Indiana Michigan	IURC Cause No.	Return on	
Co.		Power Co.	45933	Equity	

SPONSOR	DATE	CASE/APPLICANT	DOCKET / CASE NO.	SUBJECT	
Indiana American Water Company	03/23	Indiana and Michigan American Water Company	IURC Cause No. 45870	Return on Equity	
Indiana Michigan Power Co.	07/21	Indiana Michigan Power Co.	IURC Cause No. 45576	Return on Equity	
Indiana Gas Company Inc.	12/20	Indiana Gas Company Inc.	IURC Cause No. 45468	Return on Equity	
Southern Indiana Gas and Electric Company	10/20	Southern Indiana Gas and Electric Company	IURC Cause No. 45447	Return on Equity	
Indiana and Michigan American Water Company	09/18	Indiana and Michigan American Water Company	IURC Cause No. 45142	Return on Equity	
Indianapolis Power and Light Company	12/17	Indianapolis Power and Light Company	Cause No. 45029	Fair Value	
Northern Indiana Public Service Company	09/17	Northern Indiana Public Service Company	Cause No. 44988	Fair Value	
Indianapolis Power and Light Company	12/16	Indianapolis Power and Light Company	Cause No.44893	Fair Value	
Northern Indiana Public Service Company	10/15	Northern Indiana Public Service Company	Cause No. 44688	Fair Value	
Indianapolis Power and Light Company	09/15	Indianapolis Power and Light Company	Cause No. 44576 Cause No. 44602	Fair Value	
Kokomo Gas and Fuel Company	09/10	Kokomo Gas and Fuel Company	Cause No. 43942	Fair Value	
Northern Indiana Fuel and Light Company, Inc.	09/10	Northern Indiana Fuel and Light Company, Inc.	Cause No. 43943	Fair Value	
Iowa Department of Commerce Utilities Board					

SPONSOR	DATE	CASE/APPLICANT	DOCKET/CASE NO.	SUBJECT	
MidAmerican Energy	06/23	MidAmerican Energy	Docket No. RPU-	Return on	
Company		Company	2023	Equity	
MidAmerican Energy	01/22	MidAmerican Energy	Docket No. RPU-	Return on	
Company		Company	2022-0001	Equity	
Iowa-American Water	08/20	Iowa-American Water	Docket No. RPU-	Return on	
Company		Company	2020-0001	Equity	
Kansas Corporation Commis	ssion				
Evergy Kansas	04/23	Evergy Kansas	Docket No. 23-	Return on Equity	
			RTS		
Atmos Energy Corporation	08/15	Atmos Energy	Docket No. 16-	Return on Equity	
		Corporation	ATMG-079-RTS		
Kentucky Public Service Cor	nmission				
Kentucky American Water	06/23	Kentucky American	Docket No. 2023-	Return on Equity	
Company		Water Company			
Kentucky American Water	11/18	Kentucky American	Docket No. 2018-	Return on Equity	
Company		Water Company	00358		
Maine Public Utilities Comn	nission				
Central Maine Power	08/22	Central Maine Power	Docket No. 2022-	Return on Equity	
			00152		
Central Maine Power	10/18	Central Maine Power	Docket No. 2018-194	Return on Equity	
Maryland Public Service Commission					
Maryland American Water	06/18	Maryland American	Case No. 9487	Return on Equity	
Company		Water Company			
Massachusetts Appellate Tax Board					
Hopkinton LNG Corporation	03/20	Hopkinton LNG	Docket No.	Valuation of	
		Corporation		LNG Facility	
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SPONSOR	DATE	CASE/APPLICANT	DOCKET /CASE NO.	SUBJECT			
FirstLight Hydro Generating	06/17	FirstLight Hydro	Docket No. F-325471	Valuation of			
Company		Generating Company	Docket No. F-325472	Electric			
			Docket No. F-325473	Generation			
			Docket No. F-325474	Assets			
Massachusetts Department	Massachusetts Department of Public Utilities						
Massachusetts Electric	11/23	Massachusetts Electric	DPU 23-150	Return on Equity			
Company		Company		, ,			
Nantucket Electric		Nantucket Electric					
Company		Company					
d/b/a National Grid		d/b/a National Grid					
National Grid USA	11/20	Boston Gas Company	DPU 20-120	Return on Equity			
Berkshire Gas Company	05/18	Berkshire Gas Company	DPU 18-40	Return on Equity			
Unitil Corporation	01/04	Fitchburg Gas and	DTE 03-52	Integrated			
		Electric		Resource Plan;			
				Gas Demand			
				Forecast			
Michigan Public Service Con	nmission						
Indiana Michigan Power Co.	09/23	Indiana Michigan Power Co.	Case No. U-21461	Return on Equity			
Michigan Gas Utilities Corporation	03/23	Michigan Gas Utilities Corporation	Case No. U-21366	Return on Equity			
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Michigan Gas Utilities Corporation	03/21	Michigan Gas Utilities Corporation	Case No. U-20718	Return on Equity			
Wisconsin Electric Power	12/11	Wisconsin Electric	Case No. U-16830	Return on Equity			
Company		Power Company					
Michigan Tax Tribunal							
New Covert Generating Co.,	03/18	The Township of New	MTT Docket No.	Valuation of			
LLC.		Covert Michigan	000248TT and 16-	Electric			
			001888-TT	Generation			
				Assets			

SPONSOR	DATE	CASE/APPLICANT	DOCKET/CASE NO.	SUBJECT
Covert Township	07/14	New Covert Generating Co., LLC.	Docket No. 399578	Valuation of Electric Generation Assets
Minnesota Public Utilities C	ommissio	on		
ALLETE, Inc. d/b/a Minnesota Power	11/23	Allete, Inc. d/b/a Minnesota Power	D-E-015/GR-23-155	Return on Equity
CenterPoint Energy Resources	11/23	CenterPoint Energy Resources	D-G-008/GR-23-173	Return on Equity
Minnesota Energy Resources Corporation	11/22	Minnesota Energy Resources Corporation	Docket No. G011/GR- 22-504	Return on Equity
CenterPoint Energy Resources	11/21	CenterPoint Energy Resources	D-G-008/GR-21-435	Return on Equity
ALLETE, Inc. d/b/a Minnesota Power	11/21	Allete, Inc. d/b/a Minnesota Power	D-E-015/GR-21-630	Return on Equity
Otter Tail Power Company	11/20	Otter Tail Power Company	E017/GR-20-719	Return on Equity
ALLETE, Inc. d/b/a Minnesota Power	11/19	Allete, Inc. d/b/a Minnesota Power	E015/GR-19-442	Return on Equity
CenterPoint Energy Resources Corporation d/b/a CenterPoint Energy Minnesota Gas	10/19	CenterPoint Energy Resources Corporation d/b/a CenterPoint Energy Minnesota Gas	G-008/GR-19-524	Return on Equity
Great Plains Natural Gas Co.	09/19	Great Plains Natural Gas Co.	Docket No. G004/GR- 19-511	Return on Equity
Minnesota Energy Resources Corporation	10/17	Minnesota Energy Resources Corporation	Docket No. G011/GR- 17-563	Return on Equity
Missouri Public Service Com	nmission			

SPONSOR	DATE	CASE/APPLICANT	DOCKET /CASE NO.	SUBJECT	
		-	-		
Ameren Missouri	08/22	Ameren Missouri	File No. ER-2022- 0337	Return on Equity	
Missouri American Water Company	07/22	Missouri American Water Company	Case No. WR-2022- 0303 Case No. SR-2022- 0304	Return on Equity	
Evergy Missouri West	1/22	Evergy Missouri West	File No. ER-2022- 0130	Return on Equity	
Evergy Missouri Metro	1/22	Evergy Missouri Metro	File No. ER-2022- 0129	Return on Equity	
Ameren Missouri	03/21	Ameren Missouri	Docket No. ER-2021- 0240 Docket No. GR-2021- 0241	Return on Equity	
Missouri American Water Company	06/20	Missouri American Water Company	Case No. WR-2020- 0344 Case No. SR-2020- 0345	Return on Equity	
Missouri American Water Company	06/17	Missouri American Water Company	Case No. WR-17-0285 Case No. SR-17-0286	Return on Equity	
Montana Public Service Cor	nmission				
Montana-Dakota Utilities Co.	11/22	Montana-Dakota Utilities Co.	D2022.11.099	Return on Equity	
Montana-Dakota Utilities Co.	06/20	Montana-Dakota Utilities Co.	D2020.06.076	Return on Equity	
Montana-Dakota Utilities Co.	09/18	Montana-Dakota Utilities Co.	D2018.9.60	Return on Equity	
New Hampshire - Board of Tax and Land Appeals					

SPONSOR	DATE	CASE/APPLICANT	DOCKET / CASE NO.	SUBJECT
Liberty Utilities (EnergyNorth Natural Gas)	07/23	Liberty Utilities (EnergyNorth Natural Gas)	Docket No. DG 23- 067	Return on Equity
Liberty Utilities (Granite State Electric)	05/23	Liberty Utilities (Granite State Electric)	Docket No. DE 23- 039	Return on Equity
Public Service Company of New Hampshire d/b/a Eversource Energy	11/19 12/19	Public Service Company of New Hampshire d/b/a Eversource Energy	Master Docket No. 28873-14-15-16- 17PT	Valuation of Utility Property and Generating Assets
New Hampshire Public Utili	ties Comi	mission		
Public Service Company of New Hampshire	05/19	Public Service Company of New Hampshire	DE-19-057	Return on Equity
New Hampshire-Merrimack	County S	Superior Court		
Northern New England Telephone Operations, LLC d/b/a FairPoint Communications, NNE	04/18	Northern New England Telephone Operations, LLC d/b/a FairPoint Communications, NNE	220-2012-CV-1100	Valuation of Utility Property
New Hampshire-Rockingham	m Superio	or Court		l
Eversource Energy	05/18	Public Service Commission of New Hampshire	218-2016-CV-00899 218-2017-CV-00917	Valuation of Utility Property
New Jersey Board of Public	Utilities			
Public Service Electric and Gas Company	11/23	Public Service Electric and Gas Company	ER23120924 GR23120925	Return on Equity
New Jersey American Water Company, Inc.	01/22	New Jersey American Water Company, Inc.	WR22010019	Return on Equity
Public Service Electric and Gas Company	10/20	Public Service Electric and Gas Company	EO18101115	Return on Equity
New Jersey American Water Company, Inc.	12/19	New Jersey American Water Company, Inc.	WR19121516	Return on Equity

SPONSOR	DATE	CASE/APPLICANT	DOCKET/CASE NO.	SUBJECT
Public Service Electric and Gas Company	04/19	Public Service Electric and Gas Company	EO18060629 GO18060630	Return on Equity
Public Service Electric and Gas Company	02/18	Public Service Electric and Gas Company	GR17070776	Return on Equity
Public Service Electric and Gas Company	01/18	Public Service Electric and Gas Company	ER18010029 GR18010030	Return on Equity
New Mexico Public Regulati	on Comn	nission		'
Southwestern Public Service Company	07/19	Southwestern Public Service Company	19-00170-UT	Return on Equity
Southwestern Public Service Company	10/17	Southwestern Public Service Company	Case No. 17-00255- UT	Return on Equity
Southwestern Public Service Company	12/16	Southwestern Public Service Company	Case No. 16-00269- UT	Return on Equity
Southwestern Public Service Company	10/15	Southwestern Public Service Company	Case No. 15-00296- UT	Return on Equity
Southwestern Public Service Company	06/15	Southwestern Public Service Company	Case No. 15-00139- UT	Return on Equity
New York State Department	t of Publi	c Service		
Liberty Utilities (New York Water)	5/23	Liberty Utilities (New York Water)	Case 23-W-0235	Return on Equity
New York State Electric and Gas Company Rochester Gas and Electric	05/22	New York State Electric and Gas Company Rochester Gas and Electric	22-E-0317 22-G-0318 22-E-0319 22-G-0320	Return on Equity
Corning Natural Gas Corporation	07/21	Corning Natural Gas Corporation	Case No. 21-G-0394	Return on Equity
Central Hudson Gas and Electric Corporation	08/20	Central Hudson Gas and Electric Corporation	Electric 20-E-0428 Gas 20-G-0429	Return on Equity

SPONSOR	DATE	CASE/APPLICANT	DOCKET /CASE NO.	SUBJECT	
Niagara Mohawk Power Corporation	07/20	National Grid USA	Case No. 20-E-0380 20-G-0381	Return on Equity	
Corning Natural Gas Corporation	02/20	Corning Natural Gas Corporation	Case No. 20-G-0101	Return on Equity	
New York State Electric and Gas Company Rochester Gas and Electric	05/19	New York State Electric and Gas Company Rochester Gas and Electric	19-E-0378 19-G-0379 19-E-0380 19-G-0381	Return on Equity	
Brooklyn Union Gas Company d/b/a National Grid NY KeySpan Gas East Corporation d/b/a National Grid	04/19	Brooklyn Union Gas Company d/b/a National Grid NY KeySpan Gas East Corporation d/b/a National Grid	19-G-0309 19-G-0310	Return on Equity	
Central Hudson Gas and Electric Corporation	07/17	Central Hudson Gas and Electric Corporation	Electric 17-E-0459 Gas 17-G-0460	Return on Equity	
Niagara Mohawk Power Corporation	04/17	National Grid USA	Case No. 17-E-0238 17-G-0239	Return on Equity	
Corning Natural Gas Corporation	06/16	Corning Natural Gas Corporation	Case No. 16-G-0369	Return on Equity	
National Fuel Gas Company	04/16	National Fuel Gas Company	Case No. 16-G-0257	Return on Equity	
KeySpan Energy Delivery	01/16	KeySpan Energy Delivery	Case No. 15-G-0058 Case No. 15-G-0059	Return on Equity	
New York State Electric and Gas Company Rochester Gas and Electric	·	New York State Electric and Gas Company Rochester Gas and Electric	Case No. 15-E-0283 Case No. 15-G-0284 Case No. 15-E-0285 Case No. 15-G-0286	Return on Equity	
North Dakota Public Service Commission					

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SPONSOR	DATE	CASE/APPLICANT	DOCKET / CASE NO.	SUBJECT
Otter Tail Power Company	11/23	Otter Tail Power Company	Case No. PU-23	Return on Equity
Montana-Dakota Utilities Co.	11/23	Montana-Dakota Utilities Co.	Case No. PU-23	Return on Equity
Montana-Dakota Utilities Co.	05/22	Montana-Dakota Utilities Co.	C-PU-22-194	Return on Equity
Montana-Dakota Utilities Co.	08/20	Montana-Dakota Utilities Co.	C-PU-20-379	Return on Equity
Northern States Power Company	12/12	Northern States Power Company	C-PU-12-813	Return on Equity
Northern States Power Company	12/10	Northern States Power Company	C-PU-10-657	Return on Equity
Oklahoma Corporation Com	mission			
Oklahoma Gas & Electric	12/23	Oklahoma Gas & Electric	Cause No. PUD2023- 000087	Return on Equity
Oklahoma Gas & Electric	12/21	Oklahoma Gas & Electric	Cause No. PUD 202100164	Return on Equity
Arkansas Oklahoma Gas Corporation	01/13	Arkansas Oklahoma Gas Corporation	Cause No. PUD 201200236	Return on Equity
Oregon Public Service Comr	mission			
PacifiCorp d/b/a Pacific Power & Light	03/22	PacifiCorp d/b/a Pacific Power & Light	Docket No. UE-399	Return on Equity
PacifiCorp d/b/a Pacific Power & Light	02/20	PacifiCorp d/b/a Pacific Power & Light	Docket No. UE-374	Return on Equity
Pennsylvania Public Utility	Commissi	on		
American Water Works Company Inc.	11/23	Pennsylvania-American Water Company	Docket No. R-2023- 3043189 (water) Docket No. R-2023- 3043190 (wastewater)	Return on Equity

SPONSOR	DATE	CASE/APPLICANT	DOCKET/CASE NO.	SUBJECT
American Water Works Company Inc.	04/22	Pennsylvania-American Water Company	Docket No. R-2020- 3031672 (water) Docket No. R-2020- 3031673 (wastewater)	Return on Equity
American Water Works Company Inc.	04/20	Pennsylvania-American Water Company	Docket No. R-2020- 3019369 (water) Docket No. R-2020- 3019371 (wastewater)	Return on Equity
American Water Works Company Inc.	04/17	Pennsylvania-American Water Company	Docket No. R-2017- 2595853	Return on Equity
South Dakota Public Utilitie	es Commi	ssion		
MidAmerican Energy Company	05/22	MidAmerican Energy Company	D-NG22-005	Return on Equity
Northern States Power Company	06/14	Northern States Power Company	Docket No. EL14-058	Return on Equity
Texas Public Utility Commis	ssion			
Entergy Texas, Inc.	07/22	Entergy Texas, Inc.	D-53719	Return on Equity
Southwestern Public Service Commission	08/19	Southwestern Public Service Commission	Docket No. D-49831	Return on Equity
Southwestern Public Service Company	01/14	Southwestern Public Service Company	Docket No. 42004	Return on Equity
Texas Railroad Commission				
CenterPoint Energy Entex and CenterPoint Energy Texas Gas	10/23	CenterPoint Energy Entex and CenterPoint Energy Texas Gas	2023 Texas Division Rate Case Case No. OS-23- 00015513	Return on Equity
Utah Public Service Commi	ssion	1	1	

SPONSOR	DATE	CASE/APPLICANT	DOCKET/CASE NO.	SUBJECT	
PacifiCorp d/b/a Rocky Mountain Power	05/20	PacifiCorp d/b/a Rocky Mountain Power	Docket No. 20-035- 04	Return on Equity	
Virginia State Corporation Commission					
Virginia American Water Company, Inc.	11/23	Virginia American Water Company, Inc.	Docket No. PUR- 2023-00194	Return on Equity	
Virginia American Water Company, Inc.	11/21	Virginia American Water Company, Inc.	Docket No. PUR- 2021-00255	Return on Equity	
Virginia American Water Company, Inc.	11/18	Virginia American Water Company, Inc.	Docket No. PUR- 2018-00175	Return on Equity	
Washington Utilities Transp	ortation	Commission			
PacifiCorp d/b/a Pacific Power & Light	03/23	PacifiCorp d/b/a Pacific Power & Light	Docket No. UE- 230172	Return on Equity	
Cascade Natural Gas Corporation	06/20	Cascade Natural Gas Corporation	Docket No. UG- 200568	Return on Equity	
PacifiCorp d/b/a Pacific Power & Light	12/19	PacifiCorp d/b/a Pacific Power & Light	Docket No. UE- 191024	Return on Equity	
Cascade Natural Gas Corporation	04/19	Cascade Natural Gas Corporation	Docket No. UG- 190210	Return on Equity	
West Virginia Public Service Commission					
West Virginia American Water Company	05/23	West Virginia American Water Company	Case No. 23-0383-W- 42T	Return on Equity	
West Virginia American Water Company	04/21	West Virginia American Water Company	Case No. 21-02369- W-42T	Return on Equity	
West Virginia American Water Company	04/18	West Virginia American Water Company	Case No. 18-0573-W- 42T Case No. 18-0576-S- 42T	Return on Equity	
Wisconsin Public Service Commission					
Wisconsin Power and Light	05/23	Wisconsin Power and Light	Docket No. 6680-UR- 124	Return on Equity	

SPONSOR	DATE	CASE/APPLICANT	DOCKET / CASE NO.	SUBJECT	
Wisconsin Electric Power Company and Wisconsin Gas LLC	04/22	Wisconsin Electric Power Company and Wisconsin Gas LLC	Docket No. 05-UR- 110	Return on Equity	
Wisconsin Public Service Corp.	04/22	Wisconsin Public Service Corp.	6690-UR-127	Return on Equity	
Alliant Energy		Alliant Energy		Return on Equity	
Wisconsin Electric Power Company and Wisconsin Gas LLC	03/19	Wisconsin Electric Power Company and Wisconsin Gas LLC	Docket No. 05-UR- 109	Return on Equity	
Wisconsin Public Service Corp.	03/19	Wisconsin Public Service Corp.	6690-UR-126	Return on Equity	
Wyoming Public Service Commission					
PacifiCorp d/b/a Rocky Mountain Power	02/23	PacifiCorp d/b/a Rocky Mountain Power	Docket No. 20000- 633-ER-23	Return on Equity	
PacifiCorp d/b/a Rocky Mountain Power	03/20	PacifiCorp d/b/a Rocky Mountain Power	Docket No. 20000- 578-ER-20	Return on Equity	
Montana-Dakota Utilities Co.	05/19	Montana-Dakota Utilities Co.	30013-351-GR-19	Return on Equity	

CERTIFICATIONS/ACCREDITATIONS

Certified General Appraiser, licensed in the Commonwealth of Massachusetts