Case No. PAC-E-21-07 Exhibit No. 14 Witness: Ann E. Bulkley BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION ROCKY MOUNTAIN POWER Exhibit Accompanying Direct Testimony of Ann E. Bulkley **CAPM**

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CAPITAL ASSET PRICING MODEL -- LONG-TERM AVERAGE BETA

CAPM: $K = R_f + \beta (R_m - R_f) / ECAPM$: $K = Rf + 0.25(Rm - Rf) + 0.75\beta (Rm - Rf)$

	[4]	[5]	[6]	[7]	[8]	[9]
				Market		
	Risk-Free		Market	Risk		
	Rate	Beta	Return	Premium	CAPM	ECAPM
	(R_f)	(β)	(R _m)	$(R_m - R_f)$	(K)	(K)
Current 30-day average of 30-year U.S. Treasury bond yield [1]		0.726	13.71%	11.40%	10.58%	11.36%
Near-term projected 30-year U.S. Treasury bond yield (Q2 2021 - Q2 2022) [2]	2.60%	0.726	13.71%	11.11%	10.66%	11.42%
Projected 30-year U.S. Treasury bond yield (2022 - 2026) [3]		0.726	13.71%	10.91%	10.72%	11.47%
				Average:	10.65%	11.42%

Notes:
[1] Source: Bloomberg Professional, as of March 31, 2021
[2] Source: Blue Chip Financial Forecasts, Vol. 40, No. 4, April 1, 2021, at 2
[3] Source: Blue Chip Financial Forecasts, Vol. 39, No. 12, December 1, 2020, at 14
[4] See Notes [1], [2], and [3]
[5] Source: Exhibit No. 14, page 2
[6] Source: Exhibit No. 13, page 4
[7] Equals [6] - [4]
[8] Equals [4] + [5] x [7]
[9] Equals [4] + 0.25 x ([7]) + 0.75 x ([5] x [7])

HISTORICAL BETA - 2011 - 2020

		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]
Company	Ticker	12/31/11	12/31/12	12/31/13	12/31/14	12/31/15	12/31/16	12/31/17	12/31/18	12/31/19	12/31/20	Averag
ALLETE, Inc.	ALE	0.70	0.70	0.75	0.80	0.80	0.75	0.80	0.65	0.65	0.85	0.7
Alliant Energy Corporation	LNT	0.75	0.70	0.75	0.80	0.80	0.70	0.70	0.60	0.60	0.85	0.7
Ameren Corporation	AEE	0.80	0.80	0.80	0.75	0.75	0.65	0.70	0.55	0.55	0.85	0.7
American Electric Power Company, Inc.	AEP	0.70	0.65	0.70	0.70	0.70	0.65	0.65	0.55	0.55	0.75	0.0
Avista Corporation	AVA	0.70	0.70	0.70	0.80	0.80	0.70	0.75	0.65	0.60	0.90	0.
CMS Energy Corporation	CMS	0.75	0.75	0.70	0.70	0.75	0.65	0.65	0.55	0.50	0.80	0.
OTE Energy Company	DTE	0.75	0.75	0.80	0.75	0.75	0.65	0.65	0.55	0.55	0.95	0.
Ouke Energy Corporation	DUK	0.65	0.60	0.65	0.60	0.65	0.60	0.60	0.50	0.50	0.85	0
Entergy Corporation	ETR	0.70	0.70	0.70	0.70	0.70	0.65	0.65	0.60	0.60	0.95	0
Evergy, Inc.	EVRG								NMF	NMF	1.00	1.
NextEra Energy, Inc.	NEE	0.75	0.70	0.70	0.70	0.75	0.65	0.65	0.55	0.55	0.90	0.
NorthWestern Corporation	NWE	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.60	0.60	0.90	0.
OGE Energy Corporation	OGE	0.80	0.75	0.85	0.90	0.95	0.90	0.95	0.85	0.75	1.10	0.
Otter Tail Corporation	OTTR	0.90	0.90	0.95	0.90	0.85	0.85	0.90	0.75	0.70	0.85	0.
Pinnacle West Capital Corporation	PNW	0.70	0.70	0.70	0.70	0.75	0.70	0.70	0.60	0.55	0.85	0.
Portland General Electric Company	POR	0.75	0.75	0.75	0.80	0.80	0.70	0.80	0.60	0.60	0.85	0.
Southern Company	SO	0.55	0.55	0.55	0.55	0.60	0.55	0.55	0.50	0.50	0.90	0
Kcel Energy Inc.	XEL	0.65	0.65	0.65	0.70	0.65	0.60	0.60	0.55	0.50	0.80	0.
Mean		0.72	0.71	0.73	0.74	0.75	0.69	0.71	0.60	0.58	0.88	0.7

Notes:
[1] Value Line, dated November 4, 2011, November 25, 2011, and December 23, 2011.
[2] Value Line, dated November 2, 2012, November 23, 2012, and December 21, 2012.
[3] Value Line, dated November 1, 2013, November 22, 2013, and December 20, 2013.
[4] Value Line, dated October 31, 2014, November 21, 2014, and December 19, 2014.
[5] Value Line, dated October 30, 2015, November 20, 2015, and December 18, 2015.
[6] Value Line, dated October 28, 2016, November 18, 2016, and December 16, 2016.
[7] Value Line, dated October 27, 2017, November 17, 2017, and December 15, 2017.
[8] Value Line, dated October 18, 2018, November 16, 2018, and December 14, 2018.
[9] Value Line, dated October 25, 2019, November 15, 2019, and December 13, 2019.
[10] Value Line, dated October 23, 2020, November 13, 2020, and December 11, 2020.

^[11] Average ([1] - [10])