

-BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH-

**IN THE MATTER OF APPLICATION OF DOMINION
ENERGY UTAH TO INCREASE DISTRIBUTION
RATES AND CHARGES AND MAKE TARIFF
MODIFICATIONS**

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**DOCKET No. 22-057-03
Exhibit No. DPU 2.0 SR

Phase I Surrebuttal**

FOR THE DIVISION OF PUBLIC UTILITIES
DEPARTMENT OF COMMERCE
STATE OF UTAH

Surrebuttal Testimony of

Casey J. Coleman

October 13, 2022

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1 **INTRODUCTION**

2 **Q. PLEASE STATE YOUR NAME, EMPLOYER AND TITLE, AND BUSINESS**
3 **ADDRESS.**

4 A. My name is Casey J. Coleman. I am employed as a Utility Technical Consultant by
5 the Division of Public Utilities (DPU or Division) for the State of Utah. My business
6 address is 160 East 300 South Salt Lake City, UT 84114.

7 **Q. ON WHOSE BEHALF ARE YOU TESTIFYING?**

8 A. I am testifying on the Division's behalf.

9 **Q. ARE YOU THE SAME CASEY J. COLEMAN WHO FILED DIRECT**
10 **TESTIMONY IN THIS PROCEEDING?**

11 A. Yes, I am.

12 **Q. WHAT IS THE PURPOSE OF YOUR SURREBUTTAL TESTIMONY?**

13 A. I respond to the rebuttal testimony and calculations provided by Ms. Jennifer E.
14 Nelson and Mr. Kelly B. Mendenhall for Dominion Energy Utah (DEU) regarding cost
15 of equity and the fair rate of return.

16 Silence on any topic or criticism raised by DEU in its rebuttal testimony should not be
17 construed to mean agreement with its comments or criticisms.

18 **Q. DO YOU HAVE ANY GENERAL COMMENTS CONCERNING THE ANALYSIS**
19 **YOU PERFORMED IN THIS PROCEEDING?**

20 A. Yes. I stand by the analysis and recommendations that I made on behalf of the
21 Division in my direct testimony. My analysis is consistent in the application of the
22 discounted cash flow (DCF) model, Capital Asset Pricing Model (CAPM), and risk
23 premium models. Furthermore, a reduction in the authorized rate of return from the
24 current level of 9.50 percent to 9.30 percent is reasonable and provides a
25 reasonable rate of return.

26 **HOPE AND BLUEFIELD STANDARD OF UTILITY REGULATION**

27 **Q. WILL YOU DISCUSS THE HOPE AND BLUEFIELD STANDARD OF UTILITY**
28 **REGULATION AND HOW IT IMPACTS THIS RATE CASE?**

29 A. Yes. Much of Ms. Nelson’s rebuttal testimony deals with standards set by the *Hope*
30 and *Bluefield* cases.¹ A few references to her direct testimony are helpful to give
31 context to her rebuttal testimony. Ms. Nelson discussed the *Hope* and *Bluefield*
32 cases and summarizes them as follows:

33 [T]he Supreme Court has recognized that the fair rate of return on equity
34 should be: (1) comparable to returns investors expect to earn on other
35 investments of similar risk (the “comparable risk” standard); (2) sufficient to
36 assure confidence in the company’s financial integrity (the “financial integrity”
37 standard); and (3) adequate to maintain and support the company’s credit
38 and to attract capital (the “capital attraction” standard). Importantly, a fair and
39 reasonable return satisfies all three of these standards.²

40 She continued to explain what the Public Service Commission of Utah (Commission)
41 should include in its order. Her testimony, which is largely based on the *Hope* and
42 *Bluefield* decisions, stated:

43 The outcome of the Commission’s order in this case, therefore, should
44 provide DEU with the opportunity to earn an ROE that is: (1) adequate to
45 attract capital at reasonable terms; (2) sufficient to ensure its financial
46 integrity; and (3) commensurate with returns on investments in enterprises
47 having corresponding risks.³

48 Another important outcome of the *Hope* case was the fact the case affirmed the
49 three primary standards of the *Bluefield* case (i.e., comparable earnings, financial
50 integrity, and capital attraction) as discussed by Ms. Nelson above, as well as the
51 public interest standard of the *Natural Gas Pipeline* case. The *Hope* case also

¹ Dominion Energy Utah, Docket No. 22-057-03, September 21, 2022, Rebuttal Testimony of Ms. Jennifer E. Nelson lines 68—69.

² Dominion Energy Utah, Docket No. 22-057-03, May 2, 2022, Direct Testimony of Ms. Jennifer E. Nelson lines 191—197.

³ *Ibid* 230—234.

52 established the “end result” doctrine—how the rate of return and rate base is
53 determined are not as important as long as the end result is reasonable.⁴

54 The Society of Utility and Regulatory Financial Analysts (SURFA) has opined on the
55 end result doctrine as established by the watershed *Hope* decision as follows:

56 [T]he “end result” doctrine of the *Hope* case suggests that the regulatory
57 methods utilized by a Commission are immaterial as long as the end result is
58 reasonable to ratepayers and investors. The end result doctrine is
59 reminiscent of the philosophy of economic positivism, which states that the
60 value of a model or theory should not be assessed by the severity or realism
61 of its assumptions, but rather by its ability to explain or predict economic
62 phenomena.⁵

63 In the current regulatory environment, when discussing the cost of capital and
64 specifically the fair rate of return for utility investors, a driving factor in decisions is
65 whether the end result is reasonable to ratepayers and investors.

66 **Q. IN HER REBUTTAL TESTIMONY MS. NELSON, STATES THAT THE ROE**
67 **RECOMMENDATIONS FROM OPPOSING WITNESSES DO NOT SATISFY**
68 **THE COMPARABLE RISK STANDARD IN THE *HOPE* AND *BLUEFIELD***
69 **CASES. WILL YOU DISCUSS THIS CLAIM?**

70 A. Yes. Ms. Nelson argues that because the Opposing Witnesses recommended a rate
71 reduction their recommendations do not meet the comparable risk, financial integrity,
72 and capital attraction standard of utility regulation.⁶ The basis of her argument is on
73 indicators she suggests are raising the costs of capital and more specifically the cost
74 of equity.

75 Ms. Nelson argues that the “Opposing Witnesses’ ROE and capital structure
76 recommendations are particularly unreasonable when viewed in the context of the

⁴ Society of Utility and Regulatory Financial Analysts, David C. Parcell, *The Cost of Capital—A Practitioners’ Guide*, 2020 Edition, page 30.

⁵ *Ibid.* page 35.

⁶ Dominion Energy Utah, Docket No. 22-057-03, September 21, 2022, Rebuttal Testimony of Ms. Jennifer E. Nelson lines 66—71.

77 many market-based indicators of increasing capital costs and returns currently
78 available to other natural gas utilities.”⁷

79 Finally, Ms. Nelson claims that:

80 [I]f adopted, the Opposing Witnesses’ recommendations would be viewed as
81 a departure from the Commission’s practices, increasing the Company’s
82 regulatory and financial risk and diminishing DEU’s ability to compete for
83 capital. In the end, it would likely have the counterproductive effect of
84 increasing the Company’s overall cost of capital, ultimately to the detriment of
85 customers.⁸

86 As I will illustrate throughout my testimony, these claims by Ms. Nelson are
87 inaccurate. Supporting an authorized rate of return decrease for DEU does not
88 deviate from the standards established by *Hope* and *Bluefield*, is not significantly
89 different than returns recommended by other utility commissions, and does not
90 depart from past Commission practices.

91 **COMMISSION PRACTICES IN PAST RATE PROCEEDINGS**

92 **Q. LET’S START WITH YOUR STATEMENT THAT A RATE DECREASE IS NOT**
93 **A DEPARTURE FROM PAST COMMISSION PRACTICES. PLEASE EXPLAIN**
94 **YOUR ANALYSIS AND CONCLUSION.**

95 A. DEU filed a rate case⁹ in 2019 requesting an increase in rates and revenues. Many
96 factors were considered by the Commission and ultimately a rate decrease of 30
97 basis points was ordered for DEU. This reduced the cost of equity to its current level
98 of 9.5 percent.

99 In its Order, the Commission discussed its “starting point for this evaluation is our
100 most recently approved ROE for DEU.”¹⁰ The Commission continued its evaluation
101 by “considering the extent to which financial conditions have changed since that

⁷ *Ibid* lines 70—72.

⁸ *Ibid* lines 86—91.

⁹ Utah Public Service Commission, Report and Order Docket No. 19-057-02, February 25, 2020, page 9.

¹⁰ *Ibid* page 6.

102 decision, and the impacts those changed conditions should have on DEU's
103 authorized ROE."¹¹

104 In that Order the Commission recognized that some factors and conditions would
105 positively impact the authorized ROE, and some would negatively impact the ROE.
106 This point is illustrated by the following comment made by the Commission:

107 Issues that can be viewed as 'credit negative' for DEU, potentially leading to
108 an increase in its authorized ROE, include federal tax reform enacted in late
109 2017 and the Federal Reserve's cessation of injecting capital into the market.
110 Conversely, declining U.S. Treasury rates since February 2014 could indicate
111 a need to reduce DEU's authorized ROE. DEU's 191 account recovery
112 mechanism, infrastructure rate adjustment mechanism, and Integrity
113 Management Deferred Account all existed prior to 2014, and continue to
114 reduce DEU's financial risk.¹²

115 From these statements, it is obvious that the Commission weighed current market
116 conditions, analyzed whether these conditions would be either negative or positive
117 for DEU's ROE, and ultimately decided to lower DEU's ROE. The Commission
118 simply stated, "[a]s we consider the totality of these high-level issues, we find that a
119 reduction in DEU's authorized ROE is appropriate"¹³

120 To suggest that a rate reduction is a departure from past Commission procedures is
121 blatantly false. The Commission has shown that as market conditions warrant, it will
122 decrease or an increase a utility's ROE.

123 The Commission is required to establish a fair rate of return for DEU according to
124 market conditions and the risk DEU's investors face in comparison to other utilities
125 with comparable risk. Both a fair rate of return and comparable risks to DEU will be
126 discussed further in my testimony.

¹¹ *Ibid* page 6.

¹² *Ibid* page 6.

¹³ *Ibid* page 7.

127 **FAIR RATE OF RETURN**

128 **Q. WHAT FACTORS SHOULD THE COMMISSION CONSIDER IN SETTING A**
129 **FAIR RATE OF RETURN?**

130 A. Throughout Ms. Nelson’s rebuttal testimony she discusses the factors of utility
131 regulation. Specifically in rebuttal testimony she outlines when discussing risk and
132 investor’s expectations “the more important task for the Commission is to determine
133 whether the ‘end result’ is just and reasonable and meets the *Hope and Bluefield*
134 comparable risk, capital attraction, and financial integrity standard in the current
135 market environment.”¹⁴ The end result of any ROE determination should be on fair
136 and reasonable rates and whether those rates are setting a fair rate of return.

137 In my direct testimony I explain why the DPU recommends the 9.30 percent ROE
138 and why this rate is just and reasonable and meets the comparable risk, capital
139 attraction, and financial integrity standards of *Hope and Bluefield*.¹⁵ My testimony
140 illustrates that when setting allowed rates of return, utility commissions have an
141 upper and lower threshold for rates. My ROE recommendation follows Dr. James C.
142 Bonbright in that calculated rates should act as a minimum cost when determining
143 the fair rate of return.¹⁶ Dr. Bonbright is even more direct in his conviction when he
144 writes when “calculating the cost of equity for any given company the only such cost
145 that can be determined with confidence is a *minimum cost*.”¹⁷

146 According to Dr. Bonbright, the minimum cost or floor for a regulated utility is the
147 cost of equity. Cost of equity is a starting point for regulatory commissions to set
148 rates and then adjustments are made according to policy considerations. An allowed

¹⁴ Dominion Energy Utah, Docket No. 22-057-03, September 21, 2022, Rebuttal Testimony of Ms. Jennifer E. Nelson 679—681.

¹⁵ Division of Public Utilities, Docket No. 22-057-03, August 26, 2022, Direct Testimony Mr. Casey J. Coleman pages 66—67.

¹⁶ James C. Bonbright, *Principles of Public Utility Rates* (New York: Columbia University Press, 1961), republished on the web (July 2005) Page 255:

<http://www.terry.uga.edu/bonbright/publications>

¹⁷ James C. Bonbright, *Principles of Public Utility Rates* (New York: Columbia University Press, 1961), republished on the web (July 2005) Page 255:

<http://www.terry.uga.edu/bonbright/publications>

149 rate of return may include some component of the cost of equity in addition to a rate
150 to compensate for other policy considerations. An allowed rate of return should
151 capture all elements necessary for just and reasonable rates for a regulated utility.

152 In DPU Exhibit 2.7 SR YTD ROE, the Division updated the calculated regulated
153 natural gas utility average ROE for 2022 at 9.42 percent. Following Dr. Bonbright's
154 theory, an average of 9.42 percent allowed ROE suggests the cost of equity was
155 below 9.42 percent. When setting the just and reasonable rate for each utility,
156 presumably, the commissions started with some calculated cost of equity. The cost
157 of equity would be adjusted according to the appropriate risks and financial
158 constraints specific to that company that each commission felt "best represented" the
159 allowed rate of return.

160 **ALLOWED RATE OF RETURN OF COMPARABLE COMPANIES**

161 **Q. CAN YOU ILLUSTRATE HOW MS. NELSON AND THE DPU DIFFER IN THE**
162 **CURRENT EVALUATION OF ALLOWED RATE OF RETURN?**

163 A. Yes. I reviewed the testimony filed by Ms. Nelson dealing with the allowed rate of
164 return¹⁸ and noticed that we have a significantly different opinion on the current
165 market and the allowed rate of return environment of regulated utilities. Ms. Nelson
166 uses authorized ROEs for natural gas utilities from 2017-2022 to illustrate that there
167 has been no trend in authorized ROE.¹⁹ The Commission should put little weight on
168 this argument because Ms. Nelson is looking at each individual case over the past
169 five years without showing what the average for each year has been. Additionally,
170 the period used is short and obscures the real trend.

171 My direct testimony clearly illustrates that the average allowed rate of return, as
172 reported by Regulatory Research Associates (RRA), has trended downward and
173 there is a distinct trend. It is appropriate in this comparison to use an average
174 because it will smooth out any anomalies that may only be specific to a utility. The

¹⁸ Dominion Energy Utah, Docket No. 22-057-03, September 21, 2022, Rebuttal Testimony of Ms. Jennifer E. Nelson lines 150—275.

¹⁹ *Ibid.* lines 149—177.

175 average period must be chosen with care. Ms. Nelson claims the New York
176 Commission routinely sets rates lower than the average.²⁰ Ms. Nelson's argument
177 illustrates exactly why using an average is best.

178 In rebuttal testimony Ms. Nelson' Figure 2 plots all the companies' allowed rates of
179 return, to argue there has been no trend in the last five years.²¹ For the sake of
180 discussion,²² let's assume that the data of Figure 2 is appropriate to use. As stated
181 above, Ms. Nelson includes all the published results from state commissions over
182 the last five years, but not an average.

183 Nothing in her presentation discusses the average or what it has been over the last
184 five years. There is no discussion as to why five years is the appropriate measure of
185 time to evaluate. As stated in my direct testimony, the trend in the **average** rate of
186 return has been downward for years. As illustrated in my direct testimony and
187 calculated by RRA the year-to-date average as of June 30, 2022 was 9.33 percent.
188 This 9.33 percent average follows that downward trend.²³

189 To argue otherwise misses the mark and obscures the simple fact that allowed rates
190 of return have been trending down for a number of years. The DPU is not surprised
191 that there is a dispersion of rates over the last five years as shown in Ms. Nelson's
192 Figure 2. The dispersion fits the common belief that commissions throughout the
193 country are evaluating each of its companies and setting allowed rates of return on
194 the specific risks and economic factors of each regulated utility. And each point
195 represents a snapshot in time of all the factors relevant to that utility.

196 **Q. CAN YOU EXPAND ON MS. NELSON'S RATES OF RETURN ARGUMENTS**
197 **AND WHY THEY ARE INCORRECT?**

²⁰ *Ibid* lines 185—188.

²¹ *Ibid.* line 167.

²² The DPU critiques Ms. Nelson's Figure 2 later in this testimony.

²³ Division of Public Utilities, Docket No. 22-057-03, August 26, 2022, Direct Testimony Mr. Casey J. Coleman line 161.

198 A. Yes. In lines 181 to 185 of her rebuttal testimony, Ms. Nelson’s argues how the
199 sample size when calculating the average rates of return for 2022 is small. Ms.
200 Nelson then points out how “between June 30, 2022, and August 31, 2022, there
201 had been seven more ROE determinations”²⁴ which averaged 9.55 percent. This
202 whole line of reasoning is faulty. First, Ms. Nelson criticized a small sample size for
203 the first half of the year in 2022, yet she uses a “small” sample size of seven ROE
204 determinations in just 60 days. Additionally, she discusses how the seven ROE
205 determinations average 9.55 percent. Ms. Nelson does not calculate a year-to-date
206 calculation, instead she uses two months of the year to suggest the average rate of
207 return is going higher.

208 The DPU has calculated the current year-to-date average rate of return as of
209 September 30, 2022, which is illustrated in DPU Exhibit 2.07 SR YTD ROE. The
210 updated average rate of return over this period is 9.42 percent. Ms. Nelson’s
211 argument again is an attempt to distract the Commission and deflect the argument.
212 Over several years, the average rate of return has had a downward trend.²⁵ As
213 included in Ms. Nelson’s testimony, seven results in one quarter have not negated
214 that trend based on any evidence the DPU has reviewed.

215 **Q. CAN YOU DISCUSS IN FURTHER DETAIL FIGURE 2 IN MS. NELSON’S**
216 **REBUTTAL TESTIMONY AND THE CONFUSION ITS PRODUCED?**

217 A. Yes. DEU and its witnesses’ arguments are contradictory. While Mr. Mendenhall
218 argues a settled ROE number should not be used, Ms. Nelson includes dozens of
219 them in her analysis.

220 In Mr. Mendenhall’s rebuttal testimony, lines 220–240, he discusses the Wyoming
221 settlement and argues that the Settlement Stipulation “by its very express terms,
222 makes clear that it *does not* constitute an admission contrary to Ms. Nelson’s
223 testimony, and that it *may not* be used to resolve any issue in any other proceeding

²⁴ Dominion Energy Utah, Docket No. 22-057-03, September 21, 2022, Rebuttal Testimony of Ms. Jennifer E. Nelson 185—188.

²⁵ Division of Public Utilities, Docket No. 22-057-03, August 26, 2022, Direct Testimony Mr. Casey J. Coleman line 161.

224 (including this one). Mr. Coleman’s attempt to utilize it in a way contrary to express
225 terms is inappropriate and should be disregarded.”²⁶

226 To the Contrary, Wyoming’s ROE from that settlement is published in a variety of
227 places, investors will use 9.35 percent to determine the opportunity cost of investing
228 capital in Dominion Energy depending on the specific risks and other economic
229 factors applicable to the utility. The agreed-upon ROE of 9.35 percent is one of many
230 economic factors that investors will consider.

231 Second, that the settled ROE may be counteracted by a higher equity percentage, or
232 some other metric is, of course, relevant and should be considered. All of the terms
233 and conditions of a settlement are relevant at arriving at just and reasonable rates,
234 regardless of whether there’s any legal effect in Wyoming of them arising in a
235 settlement stipulation. Surely DEU considered the effect of these public numbers on
236 the investing public in agreeing to the settlement’s terms. To not do so would be
237 imprudent.

238 Third, the DPU does not argue a negotiated element of the Wyoming settlement
239 should apply to DEU in this case because DEU agreed to the rate. Instead, the ROE
240 of 9.35 will be used by the investing community and, therefore, is a relevant data
241 point when analyzing DEU’s ROE that the Commission should consider. The capital
242 structure agreed to in Wyoming is another data point. The Commission is well-
243 equipped to balance those factors.

244 Fourth, Ms. Nelson throughout her testimony, uses data that includes settled ROEs.
245 Figure 2 is a great example. In the chart, Ms. Nelson uses 184 data points. What she
246 does not show in her exhibit is how many of those are fully litigated or settled cases.
247 DPU Exhibit 2.06 SR Settled ROE shows the same 184 data points used by Ms.
248 Nelson but shows a major portion of the ROEs used by Ms. Nelson resulted from
249 negotiated settlements.²⁷ Exhibit DPU SR 2.06 Settled ROE shows that 126 cases

²⁶ Dominion Energy Utah, Docket No. 22-057-03, September 21, 2022, Rebuttal Testimony Mr. Kelly B. Mendenhall, lines 220—240.

²⁷ Division of Public Utilities, Exhibit 2.06 SR Settled ROE.

250 out of 184 resulted from negotiated settlement stipulations. Would Mr. Mendenhall
251 exclude what Ms. Nelson includes?

252 Finally, Mr. Mendenhall's line of reasoning, that settled cases should not be
253 considered by the Commission, adds another level of complexity if generally
254 accepted. The complexity surfaces when looking at any analysis done by other
255 parties, (for example the trend of average rates of return as calculated by RRA,
256 which was used by the DPU in its direct testimony). The data would be worthless if
257 the Commission was unable to consider settled cases and the rates of return from
258 those cases. If parties were to accept Mr. Mendenhall's argument, the Commission
259 would need to determine if the calculation done by any outside party included any
260 settled ROE cases. This would be practically impossible to determine and would
261 render any outside information as meaningless.

262 **Q. HAVE YOU ANY FURTHER COMMENTS ON DEU'S INCONSISTENCY?**

263 A. Yes. As a final note on this topic, if the Commission were to adopt Mr. Mendenhall's
264 observation about excluding settled ROEs and how the Commission should use that
265 type of information, Ms. Nelson's calculated percentile ranking²⁸ is incorrect because
266 her calculations include settled cases.

267 **Q. MS. NELSON SUGGESTS THE DPU'S RECOMMENDATION OF 9.30**
268 **PERCENT IS LARGELY BASED ON THE AVERAGE RATE OF RETURN OF**
269 **OTHER REGULATED UTILITIES. CAN YOU EXPLAIN WHY THIS**
270 **STATEMENT IS FALSE?**

271 A. Yes. Again, when discussing the average rate of return and the DPU's
272 recommendation, Ms. Nelson tries to suggest the DPU's recommended ROE of 9.30
273 percent is primarily based on the average rate of return of other utilities.²⁹ It is
274 apparent Ms. Nelson did not understand the DPU's recommendation, I will briefly
275 discuss this point again. Generally, the average rate of return of other utilities is

²⁸ Dominion Energy Utah, Docket No. 22-057-03, September 21, 2022, Rebuttal Testimony Ms. Nelson lines 216—219.

²⁹ *Ibid.* lines 178—180 and lines 604—613.

276 another data point to consider when setting the ROE of DEU. It would be much
277 simpler and easier if the ROE of the utility was the average of a sample of awarded
278 rates of return, then parties could just look to the average rate of return to determine
279 the appropriate ROE. Unfortunately, utility ratemaking does not support this
280 simplicity.

281 Because the regulatory reality is complex and varied, the DPU uses several factors.
282 Among these are the analysis suggested by Dr. Bonbright discussed earlier in my
283 testimony. There is a framework of financial models used to determine the cost of
284 capital for a utility. With that framework and seasoned judgment, the cost of capital
285 will be adjusted for other factors, i.e., the average rate of return of other utilities
286 along with several other considerations and inputs. The DPU's recommended ROE
287 of 9.30 percent takes numerous financial models, the current market conditions, the
288 specific risks of DEU, and recommends a fair and reasonable rate for the utility and
289 ratepayers. To suggest the DPU did not use the results from its financial models
290 when recommending the 9.30 percent cost of equity is incorrect.³⁰

291 Finally, Ms. Nelson seems to misunderstand what the DPU is illustrating with its use
292 of the average rate of return. When parties know the average rate of return for
293 utilities, this number gives guidance to what the appropriate or reasonable range of
294 ROE would be for regulated utilities. In my direct testimony,³¹ the appropriate range
295 of ROE for a natural gas utility was within 8.93 percent to 9.73 percent. The
296 appropriate ROE for DEU depends on specific risk factors and the economic
297 conditions of the company. While there is an element of circularity in these types of
298 analyses of other companies' ROE, this exercise helps identify the costs of
299 companies of roughly comparable risk by using known allowed returns on equity as
300 a measure of the range of reasonableness. From there, regulators must address
301 more specific risks.

³⁰ *Ibid.* lines 178—180.

³¹ Division of Public Utilities, Docket No. 22-057-03, August 26, 2022, Direct Testimony Mr. Casey J. Coleman line 67.

302 **RISK ANALYSIS**

303 **Q. WHAT ROLE DOES RISK PLAY IN AN ROE ANALYSIS?**

304 A. When discussing risk and investor's expectations, as discussed before, Ms. Nelson
305 stated "the more important task for the Commission is to determine whether the 'end
306 result' is just and reasonable and meets the *Hope* and *Bluefield* comparable risk,
307 capital attraction, and financial integrity standard in the current market
308 environment."³² Ms. Nelson also discusses investor expectations when looking at
309 utility investments. She states "in exchange for the obligation to serve, equity
310 investors expect utilities to have a reasonable opportunity to earn a fair return on
311 prudent investments"³³

312 When determining the cost of capital and the appropriate return on equity for a utility,
313 parties and the Commission are attempting to quantify the risk investors are taking.
314 The concept of setting the appropriate return on risk is addressed in the *Hope* and
315 *Bluefield* decisions, specifically the importance of attracting and compensating
316 investors according to the opportunity cost principle. In a cost of capital manual
317 published by SURFA, the author, Mr. Parcell explained this concept as follows:

318 The established legal standards are consistent with the opportunity cost
319 principle. The two Supreme Court cases most frequently cited (*Bluefield* and
320 *Hope*) hold that: the return to the equity owners be sufficient to maintain the
321 credit of the enterprise and confidence in its financial integrity; to permit the
322 enterprise to attract required capital on reasonable terms; and to provide the
323 enterprise and its investors with an earnings opportunity commensurate with
324 the returns available on investments in other enterprises having
325 corresponding risks.

326 These three interrelated criteria constitute a succinct statement of the
327 opportunity cost principle. An expected return on equity to that which can be
328 realized on alternative investments of corresponding risk will, in turn, be
329 sufficient to assure confidence in the financial integrity of the enterprise, to

³² Dominion Energy Utah, Docket No. 22-057-03, September 21, 2022, Rebuttal Testimony of Ms. Jennifer E. Nelson lines 679—681.

³³ *Ibid.* lines 452—454.

330 maintain its credit, and to permit it to attract new capital on reasonable
331 terms.³⁴

332 Essentially, the investor is determining the specific opportunity cost of investing in
333 any number of investment choices. As Dr. Roger A. Morin professor of finance and
334 author of *New Regulatory Finance* explained,

335 The concept of cost of capital is firmly anchored in the opportunity cost notion
336 of economics. The cost of a specific source of capital is basically determined
337 by the risk of that investment in light of alternate opportunities and equals the
338 investor's current opportunity cost of investing in the securities of that utility. A
339 rational investor is maximizing the performance of his or her portfolio only if
340 returns expected on investments of comparable risks are the same. If not, the
341 investor will switch out of those investments yielding low returns at a given
342 risk level in favor of those investments offering higher returns for the same
343 degree of risk. This implies that a utility will be able to attract capital unless it
344 can offer returns to capital suppliers comparable to those achieved or
345 alternate competing investments of similar risk.³⁵

346 Investors are constantly evaluating the risks of each investment and the costs
347 associated with those investments. If the risks are too high, a rational investor will
348 transfer its capital to another less risky investment. The opportunity cost and capital
349 attraction principles work together to explain the objectives of rational investors.

350 **Q. THE DIVISION'S ROE OF 9.30 PERCENT IS SLIGHTLY LOWER THAN THE**
351 **AVERAGE AUTHORIZED ROE FOR NATURAL GAS UTILITIES. CAN YOU**
352 **EXPLAIN WHY THE ROE FOR DEU SHOULD BE LOWER THAN THE**
353 **AVERAGE FOR NATURAL GAS UTILITIES?**

354 A. Yes. Ms. Nelson argues that "even if DEU's relative business risk has not changed
355 since its last rate case, market conditions have significantly changed, increasing the
356 cost of capital. That point is not in dispute."³⁶ There is, in fact a dispute about which
357 costs have increased and whether equity is one of those.

³⁴ Society of Utility and Regulatory Financial Analysts, *The Cost of Capital—A Practitioner's Guide*, David C. Parcell, 2020 Edition page 117.

³⁵ Morin, Roger A, *New Regulator Finance* (Public Utilities Reports, 2006) 21-22.

³⁶ Dominion Energy Utah, Docket No. 22-057-03, September 21, 2022, Rebuttal Testimony Ms. Nelson lines 1361 to 1363.

358 Ms. Nelson continues to argue that if the Opposing Witnesses' recommendations
359 were adopted, it would increase the:

360 Company's financial and regulatory risk and diminish[] DEU's ability to
361 compete for capital. In the end, [adopting the Opposing Witnesses'
362 recommendation] would likely have the counterproductive effect of increasing
363 the Company's overall cost of capital ultimately to the detriment of
364 customers.³⁷

365 There is significant dispute as to the effect of business risk, financial risk, and
366 regulatory risk in addition to how each of these risks will affect the cost of capital for
367 DEU. To suggest there is no dispute glosses over the underlying information
368 important to this specific docket.

369 When looking at business risk, financial risk, regulatory risk, and other risks to DEU,
370 the simple answer is that DEU is less risky than other natural gas utilities. Dr. Morin,
371 discusses various risks that are determinants of required return.³⁸ Dr. Morin explains
372 that the Risk Premium is made up of a variety of risks, those risks include; (1)
373 Interest rate risk, (2) Business Risk, (3) Regulatory Risk, (4) Financial Risk, and (5)
374 Liquidity Risk. Required return is the sum of the risk-free rate and the risk premium.

375 Ms. Nelson bases much of her argument on the fact that market risks have
376 increased since DEU's last rate case.³⁹ Ms. Nelson claims that the increased market
377 risks, have increased DEU's capital costs and therefore it must be compensated with
378 a higher ROE. However Modern Portfolio Theory (MPT) suggests Ms. Nelson is
379 wrong.⁴⁰

380 MPT assesses how risk-averse investors can build portfolios to maximize expected
381 returns based on a given level of risk. Investors will select companies with
382 characteristics that will diversify its portfolio according to market conditions to meet

³⁷ *Ibid.* lines 87—91.

³⁸ Morin, Roger A, *New Regulator Finance* (Public Utilities Reports, 2006) 35-45.

³⁹ Dominion Energy Utah, Docket No. 22-057-03, September 21, 2022, Rebuttal Testimony Ms. Nelson lines 1343—1363.

⁴⁰ Elton, E.J., Gruber, M.J., Brown, S.J. and Goetzmann (2007) *Modern Portfolio Theory and Investment Analysis*. 7th Edition, John Wiley and Sons, Inc., Hoboken, NJ.

383 their goals and offset many of the current market risks. Therefore as Dr. Morin
384 suggests above, when calculating a risk premium for investors, the appropriate risks
385 to consider are interest rate risk, business risk, regulatory risk, financial risk, and
386 liquidity risk.

387 As stated in my direct testimony, DEU's business risk and financial risk is extremely
388 low.⁴¹ The credit markets also perceive that the business risk, regulatory risk, and
389 financial risk of DEU are favorable.⁴² The Commission previously indicated DEU has
390 lower financial risk when it stated, "DEU's 191 account recovery mechanism,
391 infrastructure rate adjustment mechanism, and Integrity Management Deferred
392 Account all existed prior to 2014, and continue to reduce DEU's financial risk."⁴³
393 Even Ms. Nelson agrees DEU's regulatory risk is at least comparable to other similar
394 companies.⁴⁴ There seems to be a broad consensus that DEU does not face
395 significantly higher risks than other regulated natural gas utilities and the broad
396 market as a whole.

397 Of the risks listed above, business risk is the area where DEU differs extensively
398 from the market as a whole and is noticeably different from a comparable list of
399 regulated natural gas utilities. To begin the discussion, let's refer to Dr. Morin's
400 statement, "Business risk encompasses all the operating factors that collectively
401 increase the probability that expected future income flows accruing to investors may
402 not be realized."⁴⁵

403 He continues, stating that:

404 Business risk is due to sales volatility and operating leverage. Sales volatility
405 is the uncertainty in the demand for the company's products due in part to
406 external non-controllable factors, such as the basic cyclical of the demand
407 for the company's products, the products' income and price elasticity, the

⁴¹ Division of Public Utilities, Docket No. 22-057-03, August 26, 2022, Direct Testimony Mr. Casey J. Coleman line 454.

⁴² *Ibid.* lines 1142—1170.

⁴³ Utah Public Service Commission Report and Order Docket No.19-057-02, February 25, 2020, page 9.

⁴⁴ Dominion Energy Utah, Docket No. 22-057-03, May 2, 2022, Direct Testimony of Ms. Jennifer E. Nelson line 827.

⁴⁵ Morin, Roger A, *New Regulator Finance* (Public Utilities Reports, 2006) page 38.

408 degree of competition, the availability of product substitutes, the risk of
409 technological obsolescence, the degree and quality of regulation, weather
410 variations, and the conditions of the labor and raw materials market.

411 Sales volatility is also related to internal or controllable factors. The reactions
412 of a company's management to the business environment, such as adoption
413 of a particular cost structure, are important dimensions of business risk.⁴⁶

414 Dr. Morin also outlines how business risk is assessed:

415 [B]y examining the strength of the long-term demand for utility products and
416 services. Many factors have an impact on business risk, including the size
417 and growth rate of the market, the diversity of the customer base and its
418 economic solidity, the availability of substitutes and degree of competition,
419 and the utility's relative competitive standing in its major markets, including
420 residential, industrial, and commercial markets.⁴⁷

421 Finally, Dr. Morin makes this important observation, "The regional economics of a
422 utility's service territory exert a strong influence on the company's risk."⁴⁸

423 The economic conditions of Utah have been strong for several years, lowering
424 DEU's business risk. The American Legislative Exchange Council (AMLEC)
425 publishes a report, *Rich States, Poor States* that details states' individual
426 performances over several years based on State Gross Domestic Product, Absolute
427 Domestic Migration, and Non-Farm Payroll Employment.⁴⁹ In its most recent report
428 Utah is ranked number one, and has been number one for at least three consecutive
429 years. Contrary to Ms. Nelson's argument, Dominion has benefited from the strong
430 economy in Utah and has averaged over 26,500 new customers each year for the
431 past five years.⁵⁰ In this case, as part of the calculation for the Conservation
432 Enabling Tariff (CET), DEU estimates that it will add approximately 25,000 additional
433 new customers in the test period.⁵¹ Consistent with Dr. Morin's explanation, DEU's

⁴⁶ *Ibid* page 38.

⁴⁷ *Ibid* page 39.

⁴⁸ *Ibid* page 39.

⁴⁹ The entire report from ALEC is included as DPU Exhibit 2.05 SR.

⁵⁰ Dominion Energy Utah, Conservation Enabling Tariff Report (CET), August 2022.

⁵¹ Dominion Energy Utah, Exhibit 4.20 Model, CET Calculation Tab.

434 own forecast supports a healthy and growing market and a strong economy and is
435 an indication of its lower business risk.

436 As part of my research, I reviewed multiple reports when evaluating the risks of
437 DEU. With Utah ranking number one and none of the proxy group companies
438 located in the State of Utah, the economic climate for DEU is likely better than the
439 proxy group companies. As it does with any rate case, the DPU completed an
440 analysis to confirm that the economic environment in Utah was superior to the
441 economies of the companies in the proxy group, and thus results in lower risk than
442 the comparable group of companies.

443 In all the pages of testimony and rebuttal testimony filed by Ms. Nelson, there is no
444 compelling evidence to support an ROE higher than the average allowed rate of
445 return for comparable natural gas utilities of similar risk. When comparing DEU to the
446 entire market, it is difficult to conclude that DEU faces more competition, has a
447 greater risk of technological obsolescence, and its amount of business risk as a
448 regulated utility is higher than a software developer or myriad other businesses
449 seeking capital in the market. Rather, DEU is lower risk because it is a regulated
450 utility with a strong and vibrant regional economy for its customer base, a growing
451 population in the State of Utah that increases demand for its products, the majority of
452 the population using natural gas as the primary source to heat their homes during
453 the winter season, and legislation preventing cities from forbidding the use of natural
454 gas for new construction.⁵²

455 In summary, the claim by Ms. Nelson that DEU is required to have a higher ROE
456 because of higher risks is simply unsupported. If anything, the information supports a
457 lower ROE for DEU because the financial, business, regulatory, and liquidity risks
458 are lower than a comparable group of regulated utilities.

⁵² Utah Code § 10-9a-531. Utility service connections.

459 **CAPITAL ATTRACTION**

460 **Q. A MAJOR FACTOR THE APPROPRIATE ROE FOR DEU IS THE ABILITY TO**
461 **ATTRACT CAPITAL FOR ITS FINANCING NEEDS. HAS DEU HAD TROUBLE**
462 **ATTRACTING CAPITAL?**

463 A. No. Throughout Ms. Nelson’s rebuttal testimony she discusses the capital attraction
464 standard and how the recommendations by the Opposing Witnesses violate the
465 capital attraction standard.⁵³ Ms. Nelson states repeats in her rebuttal testimony,
466 “The most important task for the Commission is to determine whether the ‘end result’
467 is just and reasonable and meets the *Hope* and *Bluefield* comparable risk, capital
468 attraction, and financial integrity standards in the current environment.”⁵⁴ In the
469 current environment DEU has not had difficulty attracting capital and finding willing
470 investors.

471 DEU detailed how its total capital structure has increased over the years.⁵⁵ Table 1
472 shows the changes.

473 **Table 1**

Year	Total Long Term Debt	Total Common Equity	Total Capital
2017	\$727,743,789	\$725,010,810	\$1,452,754,599
2021	\$994,735,014	\$1,245,648,229	\$2,240,433,242
Percent Change	36.69 %	71.82 %	54.22 %

474 As illustrated, in 2017 DEU had \$1.45 billion in total capital. Total Capital increases
475 to \$2.24 billion in 2021. That is an increase of \$787.6 million in five years or 54.22

⁵³ Dominion Energy Utah, Docket No. 22-057-03, September 21, 2022, Rebuttal Testimony Ms. Nelson lines 681—683, 1141—1142, and 66—70.

⁵⁴ *Ibid.* lines 679—682.

⁵⁵ Dominion Energy Utah Docket No. 22-057-03 Data Request Response #11 to the Division of Public Utilities.

476 percent. The five-year time period included in my analysis covers rate decreases by
477 the Commission as well as the lower ROE in Wyoming. The years from 2017 to 2021
478 also cover some of the most unsettling times in the financial markets because of a
479 world-wide pandemic and all its implications. Despite rate decreases, difficult
480 financial markets and other factors, DEU was able to increase its equity and debt
481 portions and attract the necessary capital over those five years. There is no
482 evidence that the higher market risks as suggested by Ms. Nelson or a decrease in
483 the ROE will cause investors to pivot to other investments. The reality is that DEU
484 has been able to attract capital and increase both its debt and equity.

485 The financial community has displayed a willingness to invest in DEU because of its
486 lower business, financial, and regulatory risk. As the data shows, capital attraction
487 has not been an issue with DEU. Because it appears DEU will continue to have low
488 business risk, financial risk, and regulatory risk, the company should be able to
489 continue to attract capital for its business needs.

490 **WEIGHTED AVERAGE COST OF CAPITAL**

491 **Q. CAN YOU DISCUSS HOW A CHANGING BOND MARKET CAN IMPACT**
492 **THE CAPITAL COSTS OF A UTILITY AND HOW THAT WOULD IMPACT THE**
493 **WEIGHTED AVERAGE COST OF CAPITAL (WACC)?**

494 A. Yes. The concept of a WACC is developed from the idea that there is a cost to the
495 company for both the bond and equity portions of its capital structure. In most
496 financing decisions made by an organization, a balance between how much debt
497 and equity to use to finance its operations is always a significant choice. Ms. Nelson
498 uses an increase in Treasury bond and utility bond yields and widening credit
499 spreads as justification for increasing the ROE for DEU.⁵⁶ In her rebuttal testimony,
500 Ms. Nelson's states, "Despite increases in government and utility bond yields of
501 approximately 150 to 200 basis points since the Commission's order in the
502 Company's last rate case, the Opposing Witnesses disregard current market data

⁵⁶ Dominion Energy Utah, Docket No. 22-057-03, September 21, 2022, Rebuttal Testimony Ms. Nelson pages lines 96—97.

503 that indicate higher costs of capital and recommend the Commission reduce the
504 authorized ROE [of DEU].”⁵⁷

505 Ms. Nelson again misstates DPU’s position and how it has dealt with current market
506 conditions. There has been little disagreement about the changing bond market, and
507 how those changes will impact the cost of capital for DEU. The biggest impact of
508 increasing bond yields will likely come on the debt portion of the capital structure of
509 DEU. DEU calculated what its appropriate cost of debt should be, the DPU has
510 accepted those calculations as fairly compensating investors for all the debt
511 obligations of DEU. As the bond markets continue to change, the DPU would expect
512 the cost of debt to DEU to continue to increase. This increased cost of debt would
513 impact the overall cost of capital to DEU, which would be reflected in the WACC
514 calculation. While there will be a need for additional debt in the future, the existing
515 debt obligations have fixed interest rates and long maturities with some extending as
516 far as 2051.⁵⁸

517 It would be premature for the Commission and parties to simply accept that because
518 of a changing bond market the ROE calculations of DEU should also automatically
519 increase. As the DPU indicated, the Commission should carefully evaluate all of the
520 data, information from the financial models, and other applicable risks that DEU may
521 face to determine the appropriate ROE. Because both the cost of debt and the cost
522 of equity comprise the WACC, the impacts of the changing bond market are likely to
523 have the greatest impact on the cost of debt. The increasing cost of debt should be
524 factored into the cost of capital on the debt portion of the WACC calculation, not a
525 significant adjustment to the ROE.

526 **Q. MS. NELSON SUGGESTS DEU SHOULD HAVE A HIGHER ROE BECAUSE**
527 **OF ELEVATED MARKET RISKS, ARE THERE CURRENT RATE CASES**
528 **THAT SUPPORT A HIGHER ROE FOR DEU, AS A RESULT OF MARKET**
529 **CONDITIONS?**

⁵⁷ *Ibid.* lines 72—76.

⁵⁸ Dominion Energy Utah Exhibit 4.20 Model, Capital Structure Tab.

530 A. No. An RRA Regulatory Focus report titled *Rate case totals take a tumble, hit 5-year*
531 *low in September*, published October 10, 2022, discusses current decisions
532 regarding ROE. The report states “regarding returns on equity, regulators authorized
533 four new returns during the month, ranging from 9.30 percent to 9.50 percent.”⁵⁹ In
534 that same report, RRA Regulatory Focus specifically mentions Piedmont Natural
535 Gas Company which had a rate case settled September 15, 2022. The South
536 Carolina Commission ordered an ROE of 9.30 percent and a capital structure of
537 52.20 percent equity and 47.8 percent debt. If we assume a cost of debt of 4.25
538 percent for Piedmont Natural Gas Company, the WACC for Piedmont is 6.89 percent
539 very close to the 6.82 percent WACC being suggested by the DPU for DEU in this
540 proceeding.

541 **Q. CAN YOU DISCUSS THE OPTIMAL CAPITAL STRUCTURE AND HOW IT**
542 **IMPACTS THE FINANCIAL RISK OF A COMPANY?**

543 A. Yes. Ms. Nelson discusses the capital structure of a company and how that capital
544 structure impacts the cost of capital for a utility.⁶⁰ Specifically, she states, “The
545 increase in debt increases the Company’s financial risk, and if anything, would
546 indicate an increase in the cost of equity, not a decrease (all else equal).”⁶¹

547 However, the Commission should recognize that this point is only true **if a company**
548 **is at or beyond its optimal capital structure.** A company adding debt to its capital
549 structure is not always going to increase the financial risk of the company, as Figure
550 1 illustrates:⁶²

⁵⁹ DPU Exhibit SR 2.08.

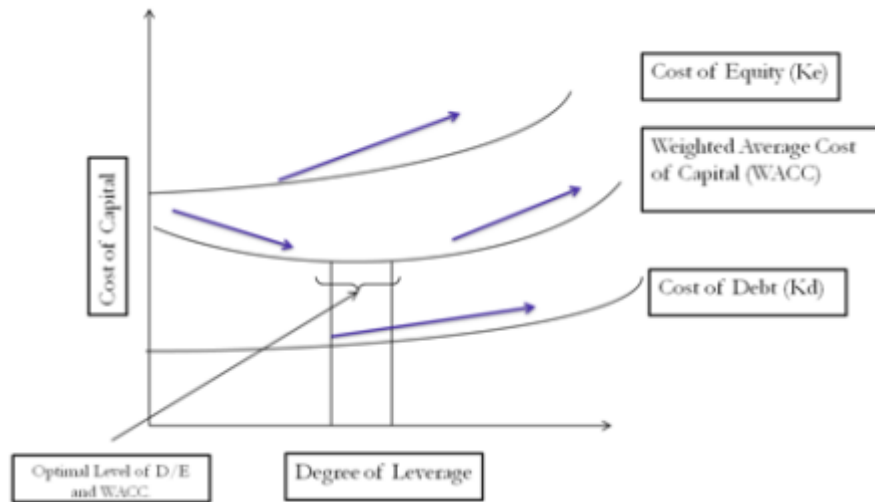
⁶⁰ *Ibid.* lines 395—404.

⁶¹ *Ibid.* lines 400—402.

⁶² National Association of Regulatory Utility Commissioners, *A Cost of Capital and Capital Markets Primer for Utility Regulators*, April 2020, page 11.

551

Figure 1 WACC curve



552

553 If the capital structure is less than optimal, the WACC will decrease as a company
554 finances more of its capital costs using debt. This lower overall cost of capital is the
555 result of the cost of debt being lower than the cost of equity. Eventually, there is a
556 point, the optimal level of debt, where continuing to finance any capital costs with
557 debt will cause the WACC to increase because of more leverage. Any prudent
558 company and especially any prudent regulated utility will continue to finance its
559 capital costs with debt until the optimal cost of capital is achieved.

560 Ms. Nelson argues that the financial risk of DEU will increase because she believes
561 it is more leveraged than other utilities. This risk will only increase if DEU is at its
562 optimal capital structure. Because no party in this proceeding has presented
563 evidence suggesting what the optimal capital structure would be for DEU, it is
564 impossible to determine the veracity of Ms. Nelson's claim. Thus, a higher leverage
565 position does not always mean higher financial risk.

566 **KROLL'S RISK-FREE RATE AND EQUITY RISK PREMIUM.**

567 **Q. WHAT GENERAL OBSERVATIONS DO YOU HAVE REGARDING MS.**
568 **NELSON'S REBUTTAL TESTIMONY AND DISCUSSION OF KROLL'S RISK-**
569 **FREE RATE AND EQUITY PREMIUM?**

570 A. From the criticisms presented in Ms. Nelson’s rebuttal testimony, it is clear that she
571 does not understand the process Kroll⁶³ uses to calculate its risk-free rate (RFR) as
572 well as its equity risk premium (ERP).

573 Ms. Nelson criticizes the Division and other parties’ analysis because government
574 and bond yields have increased and volatility in the market is higher since DEU filed
575 its last rate case.⁶⁴ Ms. Nelson continues to argue that the Opposing Witnesses have
576 not considered “many market based indicators of increasing capital costs and
577 returns currently available to other natural gas utilities.”⁶⁵ She finally concludes that
578 the Commission should not adopt the lower ROE recommendations because the
579 Opposing Witnesses disregard this information.

580 Each of these criticisms is unfounded and without merit. When one begins an
581 analysis of the inputs involved and considered by Kroll in calculating its RFR and
582 ERP, it is obvious that careful consideration is given to several topics. A couple of
583 years ago, to gain greater insight on how Kroll calculates its risk-free rate and ERP, I
584 attended a virtual conference by Kroll discussing its calculations. Because this
585 webinar was offered during the Covid-19 pandemic a major focus was explaining
586 cost of capital considerations in the coronavirus environment.⁶⁶ A general summary
587 of the information considered by Kroll in this webinar includes:

- 588 • COVID-19 Brief Timeline, Real GDP Growth—Sources of Estimates
- 589 • U.S. Real GDP (Annualized) Growth Estimates for 2020 Before and After
- 590 Enactment of the U.S. Fiscal Stimulus Package (CARES) Act
- 591 • S & P 500 Earnings Consensus Estimates—Before and After Coronavirus
- 592 • S & P 500 Index October 1, 2019—April 15, 2020
- 593 • U.S. Market Crashes
- 594 • Using S & P 500 Price Index as Benchmark
- 595 • 10-year Yields for U.S., Germany, U.K., Japan
- 596 • Federal Reserve (Fed) A Selection of Monetary Policy Measures
- 597 • Federal Reserve Balance Sheet

⁶³ In this testimony Kroll is used exclusively. The DPU realizes that at times the entity discussed is Duff and Phelps which is the predecessor to Kroll. For clarity Kroll is always used.

⁶⁴ Dominion Energy Utah, Docket No. 22-057-03, September 21, 2022, Rebuttal Testimony Ms. Nelson lines 73—74.

⁶⁵ *Ibid* lines 70—71.

⁶⁶ For the complete slides in the presentation see DPU Exhibit 2.02 SR.

- 598 • Chicago Board Options Exchange (CBOE) VIX Index
599 • Other Cost of Capital Inputs.

600 Even though the above list seems exhaustive, it does not list all the factors Kroll
601 uses to calculate its RFR and ERP. As the list above shows, each of the specific
602 areas discussed by Ms. Nelson was analyzed and carefully considered in the
603 recommendations provided by Kroll. To further reflect the impact to markets Kroll
604 publishes an infographic Cost of Capital in the Current Environment.⁶⁷ This
605 infographic shows the Kroll recommended U.S. ERP, normalized U.S. RFR, Real
606 GDP Growth, VIX Index, and U.S. Corporate Credit Spreads. This shows the current
607 market impacts as a result of higher inflation, changing monetary policy and how the
608 volatility in the market impacts the various metrics used to measure the cost of
609 capital.

610 To further illustrate how Kroll adjusts its RFR and ERP according to market
611 conditions, a webinar was held by Carla Nunes, Managing Director at Kroll, and
612 James P. Harrington, Director, at Kroll. This webinar was offered on September 28,
613 2022. Many of the same topics listed above were discussed with additional
614 emphasis on the RFR and ERP and how the changing economic conditions and
615 evolving monetary policy would impact the recommendations of Kroll.⁶⁸

616 One point the webinar illustrated was the two-step process Kroll uses to determine
617 its recommend ERP. The first step is to determine “what is the reasonable range of
618 unconditional ERP that can be expected over an entire business cycle?”⁶⁹ Step two
619 evaluates what the research shows, (which is that the ERP is cyclical during the
620 business cycle) and asks, “Where is the ERP in the range”.⁷⁰ In essence Kroll uses
621 the term conditional ERP to reflect current market conditions and the appropriate
622 ERP given those conditions.

⁶⁷ For the most recent version of the infographic from Kroll see DPU Exhibit 2.03 SR.

⁶⁸ For the complete slides in the presentation see DPU Exhibit 2.01 SR.

⁶⁹ Kroll Cost of Capital in the Current Environment, September 28, 2022, slide 46.

⁷⁰ *Ibid.* slide 46.

623 Kroll considers over 30 different models to estimate the range of U.S. ERP. The
624 models Kroll uses considers both historical and forward-looking ERP estimates. The
625 analysis done by Kroll develops a range of unconditional ERP, which given the
626 current market is 3.5 percent to 6.0 percent.⁷¹ Finally Kroll recommends an ERP that
627 falls within the range of all the various ERP models, which currently is 5.5 percent,
628 almost the top of the range. When establishing its ERP recommendation Kroll
629 considers a list of factors which include:⁷²

- 630 • U.S. Equity Markets
- 631 • Implied Equity Market Volatility
- 632 • Corporate Credit Spreads
- 633 • Damodaran Implied ERP Model
- 634 • Default Spread Model
- 635 • U.S. Equity Market Uncertainty Index
- 636 • Historic and Projected Real GDP Growth
- 637 • Unemployment
- 638 • Consumer Sentiment
- 639 • Business Confidence
- 640 • Sovereign Credit Ratings
- 641 • Economic Policy Uncertainty (EPU) Index

642 Kroll uses each of these factors to determine if the change is positive or negative
643 and how the specific change affects the ERP.

644 As the above discussion shows, Kroll is very meticulous in reviewing a large swath
645 of the financial and economic indicators impacting the financial markets. The data
646 Kroll considers is the same data investors use to determine where to invest its
647 capital. To suggest the DPU has disregarded the economic and financial data is
648 false. Later in my testimony, I will discuss further how the DPU uses the information
649 from Kroll to guide its analysis of the financial models and the accuracy of the
650 information calculated.

651 **Q. MS. NELSON PERFORMED A REGRESSION ANALYSIS ON THE ERP AND**
652 **RFR RECOMMENDED BY KROLL. WILL YOU COMMENT ON THIS**

⁷¹ *Ibid.* slide 47.

⁷² *Ibid.* slide 49.

653 **ANALYSIS AND HOW THE COMMISSION SHOULD USE THE**
654 **INFORMATION?**

655 A. Yes. Ms. Nelson showed in her Figure 16, Kroll Recommended Equity Risk Premium
656 and Risk Free Rate,⁷³ that there is little to no correlation between the RFR and ERP
657 recommended by Kroll. Ms. Nelson uses this to try to discount the validity of Kroll
658 and its ERP. This line of reasoning is incorrect.

659 Because the RFR is determined by the Federal Reserve when using a spot rate or a
660 normalized rate when interest rates are abnormally low, one would suspect there to
661 be little to no correlation between the RFR and the ERP. Additionally, because Kroll
662 uses a two-step process to evaluate the ERP and follows this pattern to determine
663 the ERP, it is even less likely there would be a high-level of correlation between
664 those two data points. Because there is almost no correlation does not undermine
665 the validity of the recommendation of Kroll.

666 **Q. CAN YOU DEMONSTRATE A PRACTICAL EXAMPLE OF THE STRENGTH**
667 **OF THE KROLL RECOMMENDED ERP?**

668 A. Yes. Before I get to that specific point, it is helpful to review some basic regulatory
669 principles. Earlier in my testimony, I illustrate how Ms. Nelson argues the “end result”
670 is a guiding principle with the *Hope* and *Bluefield* decisions at the Supreme Court.
671 The Commission has affirmed this concept when it said “[t]he quality of any financial
672 model results depends primarily on the quality of inputs. Subsequent adjustments to
673 correct for problematic inputs simply reduce the overall quality of the modeling
674 results.”⁷⁴ While a commission must make a qualitative assessment of underlying
675 data results to assess whether an end result is reasonable, that is best done overtly
676 as an application of qualitative judgment, not an adjustment of modeling inputs. That
677 qualitative assessment could, of course, extend to a decision about which model or
678 models to use.

⁷³ Dominion Energy Utah, Docket No. 22-057-03, September 21, 2022, Rebuttal Testimony Ms. Nelson, lines 1015—1018.

⁷⁴ Utah Public Service Commission Report and Order Docket No.19-057-02, February 25, 2020, page 7.

679 Both concepts suggest the same point: the exact process is not as important as a
680 model that accurately explains what is happening in the financial markets. Whether a
681 regulatory body decides to use a specific modeling exercise is not as important as
682 the end result the financial models lead to.

683 The ERP discussion illustrates the question of which model to use quite well. In the
684 same webinar identified above, Kroll discussed the historical ERP and the
685 recommended ERP. Kroll illustrated that when using a historical ERP there could be
686 some anomalies that surface. For example, when using a historical ERP, the total
687 market return from 2007 to 2008 would have decreased. This decrease in the total
688 market return would make no sense because 2008 was during the credit crisis in the
689 financial markets and investors would require a higher return to adequately
690 compensate for the increased risk. Additionally, if analysts were using only the
691 historical ERP of Kroll for their evaluation, this same situation would occur during the
692 Covid-19 pandemic. The combined equity risk premium and risk-free rate would
693 have decreased, suggesting a lower risk environment. This “end result” makes no
694 sense and calls into validity the strict use of a historical ERP, as suggested by Ms.
695 Nelson.⁷⁵

696 On the other hand, when using Kroll’s recommended ERP, the scenario is switched.
697 The total market returns calculated by Kroll go from 9.5 percent to 10.5 percent in
698 2008 and from 8.0 percent to 9.0 percent at the end of 2019 and early 2020. The
699 model is better equipped to capture changing economic and financial factors and
700 reflects the current situations evident in the market.⁷⁶ The end result and the ability
701 to encapsulate differing market conditions makes the recommended ERP a better
702 choice for financial analysts.

703 **Q. KROLL CONSIDERED MANY DIFFERENT IMPACTS TO THE MARKET. HOW**
704 **DOES THAT CORRELATE WITH THE DIVISION AND ITS ANALYSIS?**

⁷⁵ Kroll Cost of Capital in the Current Environment, September 28, 2022, slide 52.

⁷⁶ *Ibid.* slide 53.

705 A. The Division analyzed Kroll's RFR and ERP when choosing key metrics to determine
706 if the various financial models produced reasonable results. A 9.0 percent market
707 return can be calculated from the U.S. ERP of 5.5 percent and a normalized U.S.
708 RFR of 3.5. These data points are the inputs recommended by Kroll for current
709 market conditions.⁷⁷ With the general understanding of a total market return of 9.0
710 percent the Division can quickly determine if the financial models are producing
711 reasonable return on equity calculations. ROE rates close to 9.00 percent or below
712 would produce results that would qualify as reasonable.

713 The Division reviewed the work done by Kroll to determine if the calculated results
714 adequately considered the current market conditions. Using a 9.0 percent total
715 market return as a guidepost (this matches Kroll's total market return data and
716 assessment) as a gauge of reasonableness for the appropriate financial models, the
717 Division considered the Federal Reserve's monetary policy, the impact of
718 quantitative easing on the market, the impact of interest rates on the cost of capital,
719 how the U.S. GDP rate will impact the rate of return for investors, how volatility and
720 uncertainty impacts investors, and dozens of other market considerations.

721 The criticisms in Ms. Nelson's rebuttal testimony regarding the Division's analysis
722 and her claim that the Division ignores the current market conditions are faulty. The
723 Division has carefully considered the current market situation when making its
724 recommendations.

725 **Q. HOW WOULD YOU EXPLAIN SUCH A DISPARITY IN THE RESULTS**
726 **CALCULATED BY OTHER PARTIES AND MS. NELSON'S FINANCIAL**
727 **MODELS?**

728 A. From Ms. Nelson's rebuttal testimony, it is clear that DEU and the DPU see the
729 financial situation of DEU and the ROE the company should be allowed to earn
730 differently. Even though the processes and models Ms. Nelson and I followed were

⁷⁷ For the most recent version of the infographic from Kroll see DPU Exhibit 2.03 SR.

731 similar, using a variety of financial models to calculate an ROE, the results are
732 incongruous.

733 There may be some general reasons why Ms. Nelson and I see DEU's situation so
734 differently. Three possible explanations are: (1) The financial models (i.e.,
735 discounted cash flow (DCF), capital asset pricing model (CAPM), and Bond Yield
736 Risk Premium are inherently flawed and unable to provide reasonable calculations
737 for the ROE; (2) the data and information being used in the models to calculate the
738 ROE are incorrect and inaccurate; or (3) the perception of the risks faced by DEU is
739 different. I address and analyze these reasons below.

740 Given the history and wide use of the financial models used in cost of capital
741 proceedings before this Commission and others, it seems unlikely that those models'
742 shortcomings sufficiently explain the wide difference in recommendations. Thus, we
743 must look to the other two explanations to weigh the differences between Ms.
744 Nelson's testimony and mine.

745 The risk profile of DEU does not support a higher ROE given the current situation of
746 the company. There has been no evidence provided by DEU and Ms. Nelson that
747 supports the premise that DEU has a higher risk profile than comparable regulated
748 natural gas utilities or the whole market, therefore requiring the Commission to order
749 an ROE of 10.30 percent. There is no risk justification for Ms. Nelson's
750 recommendation.

751 In fact, Ms. Nelson in her rebuttal testimony gives evidence that the risk profile of
752 DEU is lower than most of the utility companies. Ms. Nelson disagrees with the
753 characterization that "utility credit ratings have improved."⁷⁸ She specifically states,
754 "A utility with a strong financial profile has a higher likelihood of withstanding adverse
755 events and accessing capital at reasonable terms during constrained markets to the
756 benefit of customers. Financial strength is especially critical during periods of market

⁷⁸ Dominion Energy Utah, Docket No. 22-057-03, September 21, 2022, Rebuttal Testimony of Ms. Jennifer E. Nelson lines 273—274.

757 dislocation as experienced during the Great Recession of 2008-2009.”⁷⁹ Ms. Nelson
758 continued to argue, “that the utility sector’s credit rating weakened sharply in
759 2020...evidenced by the negative outlooks or CreditWatch negative listings doubled
760 and downgrades outpaced upgrades for the first time in a decade by about 7 to 1”⁸⁰
761 Ms. Nelson’s rebuttal testimony continues to argue that the trend “in rating
762 downgrades outpaced upgrades for the investor-owned North American regulated
763 utility industry, causing the median rating on the industry to fall to the ‘BBB’
764 category.”⁸¹

765 Ms. Nelson believes that the overall utility industry has become riskier because of
766 the credit downgrades and the continuing trend. While the DPU is not saying the
767 trend has been positive or negative as suggested by other witnesses, the reality is
768 the downgrades that have occurred in the market reflect a reality for those
769 companies that DEU has not experienced. As noted above, DEU is less risky than
770 other utilities in the market.

771 The fact that DEU is less risky than other utility companies is evidenced in the S&P
772 Global ratings of Questar Gas Co. (QGC) dated April 13, 2022.⁸² In the Ratings
773 Score Snapshot included in S&P Global report, the information shows the anchor
774 score of QGC is a-, even when considering potential modifiers QGC remains at a
775 rating of a-. Finally, S&P Global lowers the rating of QGC because it is owned by
776 Dominion Energy Inc. to bbb+. What this anchor score illustrates is that S&P Global
777 would rate QGC higher if it was not owned by Dominion Energy. Later in the report
778 S&P Global indicates the funds from operations (FFO) to be 19.5 percent to 20.5
779 percent and forecasted to improve over the next couple of years. These metrics are
780 higher than the parent company’s FFO of 15-16 percent.

⁷⁹ *Ibid.* lines 244—247.

⁸⁰ *Ibid.* lines 250—253.

⁸¹ *Ibid.* lines 254—257.

⁸² Dominion Energy Utah Docket No. 22-057-03 Data Request Response to FEA number 1.15 Attachment 2.

781 These numbers show that DEU is rated higher by the credit ratings community
782 despite the difficult times utilities have been facing the last few years. Even though
783 other utilities' credit ratings have dropped as suggested by Ms. Nelson, DEU has
784 been able to maintain a higher credit score than the mean score of BBB argued by
785 Ms. Nelson.

786 If DEU has been able to maintain its above average credit rating over the last few
787 years when the market conditions have been some of the most challenging then it is
788 logical to conclude, as Ms. Nelson pointed out, DEU as a "utility with a strong
789 financial profile, has a higher likelihood of withstanding adverse events and
790 accessing capital at reasonable terms during constrained markets to the benefit of
791 customers."

792 If the financial theories are can calculate a relatively accurate ROE and DEU is not
793 riskier than a comparable set of regulated utilities, then the remaining reason for the
794 substantial differences in ROE between parties could be attributed to incorrect data
795 being used in the financial models, differing application of judgment, or something
796 else. Ms. Nelson uses 141 pages in her rebuttal testimony, plus hundreds of
797 additional pages in her attachments and work papers, in an attempt to illustrate why
798 in her opinion each analysis done by the DPU and other parties is unacceptable.
799 What follows is my analysis as to why her recommendation is fundamentally flawed.

800 **DISCOUNTED CASH FLOW MODELS**

801 **Q. IN MS. NELSON'S REBUTTAL TESTIMONY, SHE TAKES ISSUE WITH THE**
802 **DIVISION'S USE OF DIVIDEND GROWTH RATES AND EARNINGS GROWTH**
803 **RATES. CAN YOU COMMENT ON WHY THE USE OF BOTH GROWTH**
804 **RATES IS APPROPRIATE?**

805 A. Yes. Ms. Nelson makes the same arguments regarding earnings and dividends that
806 have been made before the Commission for years. The Commission was explicit in

807 its desire to have a weighting between dividend growth and earnings growth.⁸³ In its
808 analysis for this Docket, the Division has followed the same DCF method applied in
809 numerous other rate cases.

810 The appropriate method for calculating the ROE using a DCF model must include a
811 weighting between dividend growth and earnings growth. Ms. Nelson does not do
812 this calculation and the Commission should consider this point when evaluating
813 DEU's analysis in setting its ROE recommendation.

814 **CAPITAL ASSET PRICING MODEL**

815 **Q. MS. NELSON SPENDS MULTIPLE PAGES TRYING TO DEFEND HER CAPM**
816 **AND ERP USED IN HER ANALYSIS. WILL YOU RESPOND TO HER CLAIMS**
817 **ABOUT HER FINANCIAL MODELS' ACCURACY?**

818 A. Yes. Ms. Nelson takes 22 pages to argue the validity of her CAPM analysis and ERP
819 used in her financial models.⁸⁴ Despite the 22 pages and all the information shared,
820 Ms. Nelson is fundamentally wrong, and her recommendations based on her
821 calculations should be rejected. First, Ms. Nelson's exclusion of raw betas cause her
822 results to be incorrect or biased upward. Second, later in my testimony, I will show
823 that Ms. Nelson's analysis incorrectly uses a DCF model to calculate the Market Risk
824 Premium or ERP

825 When critiquing the Division's CAPM results and suggesting the calculation should
826 be rejected by the Commission, Ms. Nelson raises questions about the Beta
827 coefficients applied in the Division's analysis.⁸⁵

828 Ms. Nelson believes that only adjusted Betas should be used instead of raw or
829 unadjusted Betas because unadjusted Beta coefficients tend to regress to 1.00 over
830 time, and the use of "raw" Beta coefficients will understate the Beta coefficient for

⁸³ Utah Public Service Commission, Docket No. 02-057-02, Report and Order, December 30, 2002, page 34.

⁸⁴ Dominion Energy Utah, Docket No. 22-057-03, September 21, 2022, Rebuttal Testimony Ms. Nelson pages 56—78.

⁸⁵ *Ibid.* lines 937—964.

831 companies with Beta coefficients less than 1.00. In Ms. Nelson's opinion, the use of
832 raw Beta coefficients biases the Division's CAPM results downward.⁸⁶

833 Ms. Nelson is correct that the Division's analysis included raw and adjusted Betas.
834 This choice was made to provide the most complete data for the Commission. No
835 adjustment is needed to the CAPM to correct for the perceived "bias" for companies
836 who have a Beta below 1.0. The Division's CAPM analysis shows the results of
837 using both raw Betas as well as adjusted Betas. This allows the Commission and
838 other parties the opportunity to decide for themselves, which is the correct approach,
839 and then see the result of that analysis.

840 Ms. Nelson is concerned that the Division's analysis and its choice of Betas will skew
841 the results downward. However, she is not concerned about the use of only adjusted
842 Betas and how using only adjusted Betas will skew the results upward. When doing
843 the CAPM analysis, the Division included calculations using raw Betas, adjusted
844 Betas, and an analysis that blended both raw Betas and adjusted Betas. This
845 provides the Commission with the most complete information to base its final
846 analysis. Because Ms. Nelson does not provide CAPM calculations using raw Betas,
847 her ROE results have an upward bias. This is one of the reasons Ms. Nelson's
848 financial models return rates above the 9.0 percent reasonable threshold.

849 The Commission should not place much value on the rebuttal comments of Ms.
850 Nelson because of her lack of raw Betas. Ms. Nelson's CAPM or ECAPM analysis
851 will calculate biased results when excluding raw Betas.

852 **Q. MS. NELSON HAS AN ALTERNATE METHOD TO CALCULATE THE ERP**
853 **SHE USES IN HER CAPM MODEL, WILL YOU EXPLAIN IN FURTHER**
854 **DETAIL WHY THIS METHOD IS INACCURATE IN DEVELOPING AN ERP?**

855 A. Yes. Ms. Nelson suggests that because she uses a DCF analysis to determine the
856 ERP in her alternate method this makes the ERP method accurate.⁸⁷ That premise is

⁸⁶ *Ibid.* lines 950—951.

⁸⁷ *Ibid.* line 1059.

857 entirely false. Attempting to calculate an ERP using the DCF model as Ms. Nelson
858 suggests contradicts underlying assumptions of the DCF model. Dr. Morin detailed
859 these assumptions as illustrated below:

- 860 1. The discount rate, K , must exceed the growth rate, g . In other words, the
861 standard DCF model does not apply to growth stocks. It is clear that as g
862 approaches K , the denominator gets progressively smaller, and the price
863 of the stock infinitely large. If g exceeds K , the price becomes negative, an
864 implausible situation.
- 865 2. The dividend growth rate is constant every year to infinity.
- 866 3. Investors require the same return K every year...A firm's cost of capital, K ,
867 varies directly with the risk of the firm. By assuming the constancy of K ,
868 the model abstracts from the effects of a change in risk on the value of the
869 firm. If K is to remain constant, the firm's capital structure and dividend
870 payout policy must be assumed to remain stable so as to neutralize an
871 effect of capital structure changes or dividend policy changes on K .
- 872 4. The standard DCF model assumes no external financing. All equity
873 financing is assumed to be conducted by the retention of earnings. No
874 new equity issues are used, or if they are, they are neutral in effect with
875 respect to existing shareholders.⁸⁸

876 Ms. Nelson's use of the DCF model to calculate the ERP undermines many of the
877 specific assumptions shown above. Some of these points will be discussed further
878 below. I will also discuss how using the DCF model in this manner leads to incorrect
879 results.

880 Ms. Nelson's use of the DCF model to calculate the ERP is inappropriate because it
881 ignores that one of the DCF model's bedrock principles the premise that growth
882 rates are expected to remain constant indefinitely. To begin her analysis, Ms. Nelson
883 uses long-term growth rates from Bloomberg and Value Line. Those growth rates
884 are listed in DEU 2.04 Mkt Return Bloomberg and DEU 2.04 Market Return VL as
885 column five in each spreadsheet. Because the DCF model assumes the rates
886 continue indefinitely, the growth rates used by Ms. Nelson would be assumed to
887 exist forever. It is unlikely analysts recommending the rates used by Ms. Nelson

⁸⁸ Morin, Roger A, *New Regulator Finance* (Public Utilities Reports, 2006) 257—258.

888 would agree the suggested rates would actually continue indefinitely. The growth
889 rates in her analysis will not continue indefinitely.

890 Ms. Nelson's analysis includes companies that have negative growth rates, while it is
891 possible for a company to experience short-term negative growth, no company can
892 survive indefinitely with a negative growth rate. Another example is the growth rate
893 of Boeing Company. The Bloomberg long-term growth rate is 80.64 percent. There is
894 zero chance that Boeing or any company could maintain an 80 percent growth rate
895 indefinitely. Even though Ms. Nelson is using an accepted financial model in her
896 calculation of an ERP, it is being used in a way that makes the results of the
897 calculation suspect. Ms. Nelson's calculations do not properly account for the
898 underlying assumptions of the DCF model, and the inevitability that the assumption
899 will be incorrect.

900 The calculation of the DCF model includes the assumption that the company is
901 paying dividends. Because of this assumption, Ms. Nelson's analysis must exclude
902 any company that is not paying a dividend. The inclusion of only dividend paying
903 companies, means Ms. Nelson is not calculating a "total market return" as
904 contemplated in the CAPM formula, but instead calculating a return for a subset of
905 companies within the market. The DPU is not certain how this subset of companies
906 provides any meaningful comparison and is not aware of any research that supports
907 using this subset of companies to determine a total market return. The DPU has
908 concerns with this type of analysis and is unaware of any studies or peer reviews
909 that assess the validity of this model.

910 Finally, the DCF model does not work well with growth stocks. As explained above
911 by Dr. Morin, using a DCF model on these growth stocks is an "implausible
912 situation."⁸⁹ Any comparison or reference to the S&P 500 Index that includes growth
913 stocks is worth little.

⁸⁹ *Ibid.* page 257.

914 The DPU has no issues with a DCF calculation when the model is used correctly and
915 the correct data is used. However, the use of a DCF calculation to determine an
916 equity risk premium is not appropriate. The ERP calculated by Ms. Nelson in DEU
917 2.04 Mkt Return Bloomberg and DEU 2.04 Market Return VL should not be used,
918 because the method is fundamentally flawed.

919 **EQUITY RISK PREMIUM AND TOTAL MARKET RETURNS**

920 **Q. WILL YOU DISCUSS THE IMPLICATIONS OF THE KROLL RISK PREMIUM**
921 **AND MS. NELSON'S RECOMMENDED ROE OF 10.3 PERCENT?**

922 A. Yes. First, I note that Kroll is highly respected and a nationally recognized source for
923 a market risk premium used when calculating ROE for companies. The Division is
924 comfortable that the results calculated by Kroll present a reasonably accurate picture
925 of the overall market. A total market return of 9.00 percent is acceptable and
926 reasonable. This means is a company with risk comparable to the entire market
927 should have a total return of 9.00 percent.

928 If respected sources calculate an overall market return of 9.00 percent, a conclusion
929 that DEU is anything other than uniquely risky, suggests a 10.30 percent ROE for
930 DEU is far too high. According to basic financial theory, allowing a 10.30 percent
931 return on equity as just and reasonable for DEU, would require concluding that either
932 Kroll's numbers are totally wrong, that DEU is far riskier than the average non-
933 regulated company, or some other fact that does not appear in the record in this
934 case. Another way to illustrate the point is to calculate the "appropriate" Beta
935 coefficient for DEU that would be required to derive an ROE of 10.3 percent. The
936 formula for the CAPM is as follows:

937
$$k_e = RFR_0 + \beta * (MR - RFR)$$

938 Where: k_e is the cost of common equity
939 RFR_0 is the current risk-free rate
940 β is beta, the risk adjustment factor

941 (MR-RFR) is the market risk premium which can be separated into two factors: The
942 overall market return, MR, and the RFR that is compatible with the way the MR was
943 estimated.

944 The calculation would be as follows:

945 $10.3 \text{ percent} = 3.5 \text{ percent} + 1.236(5.5 \text{ percent})$

946 If a total market return of 9.0 percent exists, as calculated by Kroll, the Beta
947 coefficient for DEU would need to be 1.236 to justify a 10.3 percent ROE. Any Beta
948 number above 1.0 means a stock is riskier than the total stock market. In other
949 words, with Beta of 1.236, the risk profile of DEU would have to be significantly
950 higher than a comparable set of regulated natural gas utilities to justify an ROE of
951 10.3 percent. There is no evidence that DEU should have a Beta coefficient higher
952 than 1.0, and definitely not at 1.236. As parties⁹⁰ have illustrated in this Docket, none
953 of the utilities in the proxy group has a Beta coefficient higher than 1.0. Therefore for
954 Ms. Nelson's recommendation of 10.3 percent to be correct, DEU would have to be
955 significantly riskier than any of the companies in the proxy group to justify her
956 recommendation. DEU is not significantly riskier than the proxy group of companies
957 and the recommended ROE of 10.30 percent should be rejected. Later the DPU will
958 illustrate how DEU is less risky than the proxy group of companies.

959 **FINANCIAL MODELS AND ALLOWED ROE**

960 **Q. IN MS. NELSON'S REBUTTAL TESTIMONY, SHE ATTEMPTS TO UPDATE**
961 **THE DIVISION'S ANALYSIS, ADJUSTING FOR PERCEIVED FLAWS. DO**
962 **YOU BELIEVE THE UPDATES SUGGESTED BY MS. NELSON ARE**
963 **NECESSARY?**

964 A. No. As indicated above, the Commission discussed this point: "The quality of any
965 financial model results depends primarily on the quality of inputs. Subsequent

⁹⁰ Dominion Energy Utah, Docket No. 22-057-03, May 2, 2022, Direct Testimony of Ms. Jennifer E. Nelson DEU Exhibit 2.05 CAPM Hist Rm. and Division of Public Utilities, Direct Testimony of Mr. Casey J. Coleman Docket No. 22-057-03, DPU Exhibit 2.05 CAPM.

966 adjustments to correct for problematic inputs simply reduce the overall quality of the
967 modeling results.”⁹¹

968 Even without the Commission’s clear direction on updating of models, the Division
969 does not feel it is necessary to update its calculations from those filed in direct
970 testimony. Because the financial markets are always changing, it is possible to
971 continually adjust any completed analysis. However, the Division sees no changes
972 that warrant updating its calculations at this time.

973 In Figure 21 of Ms. Nelson’s rebuttal testimony, she provides a list of “corrected
974 analytical results” for the Division’s ROE calculations.⁹² She uses this table as a
975 basis to confirm her recommended ROE for DEU at 10.3 percent. As explained
976 below, these adjustments are just as flawed and incorrect as the calculations Ms.
977 Nelson proposes in her direct testimony.

978 As stated previously, Ms. Nelson sees the financial marketplace differently than I do.
979 All of her “corrected analytical results” would be above the base total market return
980 of 9.0 percent calculated by Kroll. While Ms. Nelson is comfortable with those
981 “calculated” results, they contradict a well-known financial principle that regulated
982 utilities are less risky than the entire market. The ROE for utility companies should
983 generally be lower than the entire market. Because the “corrected” analytical results
984 by Ms. Nelson cannot be reconciled with this basic financial principle, they should be
985 rejected, and the Commission should put no weight on this revised analysis.

986 Ms. Nelson identified discrepancies in the Division’s analysis, which could lead to
987 minor adjustments in the calculated ROE for DEU. None of the discrepancies shown
988 by Ms. Nelson are of a material nature that would substantially adjust the calculated
989 ROE. Even if some minor adjustments to the calculated ROE were accepted, the
990 Division’s original recommendation does not change. The calculated ROE would
991 remain close to the average rates of return for similar regulated utilities. The DPU’s

⁹¹ Utah Public Service Commission Report and Order Docket No.19-057-02, February 25, 2020, page 7.

⁹² Dominion Energy Utah, Docket No. 22-057-03, September 21, 2022, Rebuttal Testimony Ms. Nelson pages line 1340.

992 direct testimony included calculations of ROE using a variety of financial models.
993 Those different calculations were provided to illustrate the appropriate range for
994 DEU's authorized ROE. The Division's recommendation of 9.30 percent is just and
995 reasonable.

996 The DPU's original ROE calculation provided the Commission with a range for an
997 acceptable ROE; no updating or adjusting of the Division's original analysis is
998 necessary at this time. The Division calculated an ROE range of 8.93 percent to 9.73
999 percent with a recommendation of 9.30 percent.

1000 **Q. EARLIER YOU DESCRIBED HOW YOU AND MS. NELSON SEE THE**
1001 **MARKET DIFFERENTLY. WILL YOU GIVE A PRACTICAL EXAMPLE AND**
1002 **THE IMPLICATIONS OF THE DIFFERENCES?**

1003 A. Yes. Analysis following the theory by Dr. Bonbright as discussed above,
1004 demonstrates the stark differences in the market as calculated and observed by Ms.
1005 Nelson and the Division. Ms. Nelson's recommended range of 9.60 to 10.75 percent
1006 appears to flip the regulatory principle elaborated by Dr. Bonbright. The constraining
1007 floor for Ms. Nelson has become the average allowed ROE of regulated natural gas
1008 utilities. Ostensibly, this is related to the principles outlined in *Hope* and *Bluefield* that
1009 suggest one factor is whether a utility should be allowed to earn a return equal to
1010 other utilities of similar risk. Rather than finding the minimum cost of equity and
1011 deviating upward because of risk and other factors, Ms. Nelson appears to use other
1012 utilities' allowed ROE as a minimum.

1013 In Ms. Nelson's rebuttal testimony, she argues that the Division's analysis does not
1014 reflect the well-known principle that the ERP is inversely related to the risk-free
1015 rate.⁹³ Her ROE recommendation is significantly higher than warranted given
1016 traditional regulatory and financial principles. Ms. Nelson does not provide sufficient
1017 discussion and analysis to justify why DEU's ROE should be significantly higher than
1018 other rate cases completed this year in other jurisdictions.

⁹³ *Ibid.* lines 1003—1010.

1019 As mentioned before, the *Hope* and *Bluefield* cases establish a few principles to be
1020 considered: (1) that the utility be allowed an opportunity to earn a return on its utility
1021 property generally equal to returns earned by other companies of similar risk; (2) this
1022 return should assure confidence in the financial soundness of the utility; (3) this
1023 allowed return should maintain and support the credit of the company and allow it to
1024 attract capital; (4) recognition that a return that is “right” at one time may become
1025 high or low by changes in the economy regarding alternative investments; and (5)
1026 particularly in *Hope*, what is important is that the “end result” of the rate order be just
1027 and reasonable; it is less important how that result is arrived at. While the above list
1028 reflects the rights of the utility as outlined in the *Hope* and *Bluefield* cases, the public
1029 interest requires rates to be “just and reasonable,” which accounts for the interests of
1030 shareholders and ratepayers alike.

1031 The Division’s recommendation is consistent with the theory suggested by Dr.
1032 Bonbright and the *Hope* and *Bluefield* standards. The ROE of 9.30 percent is above
1033 the floor calculated in each of the financial calculations performed while providing
1034 just and reasonable rates to the company as well as the captive customers of DEU.
1035 As illustrated throughout my testimony, the Division’s ROE is lower than the
1036 comparable group of companies because DEU has lower risks than the comparable
1037 group of companies. This lower recommendation follows the *Hope* and *Bluefield*
1038 cases because utilities are generally given the opportunity to earn returns similar to
1039 those earned by other companies of similar risk.

1040 Because there is no way to reconcile Ms. Nelson’s recommendations with long
1041 practice and regulatory principles outlined by experts like Dr. Bonbright, and other
1042 authorities, Ms. Nelson’s analysis is not credible.

1043 **CONCLUSION**

1044 **Q. CAN YOU SUMMARIZE YOUR FINAL CONCLUSIONS AND**
1045 **RECOMMENDATIONS?**

1046 A. Based on my analysis, the appropriate cost of equity for DEU is 9.30 percent with an
1047 overall weighted average cost of capital of 6.82 percent. The DPU’s recommended

1048 ROE and its cost of capital estimate are just and reasonable and in the public
1049 interest and, will result in just and reasonable rates.

1050 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

1051 A. Yes, it does.