

BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH

)	DOCKET NO. 07-057-13
)	Exhibit No. DPU 2.0 SR
In the Matter of the Application of)	
Questar Gas Company to Increase)	
Distribution Non-Gas Rates and Charges)	Surrebuttal Testimony and
and Make Tariff Modifications)	Exhibits
)	Charles E. Peterson
)	
)	

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

**Surrebuttal Testimony of
Charles E. Peterson**

May 12, 2008

1 **Q. Please state your name and occupation?**

2 A. My name is Charles E. Peterson. I am employed by the Utah Division of Public
3 Utilities (“Division” or “DPU”) as a Technical Consultant.

4
5 **Q. Have you submitted Direct Testimony in this proceeding?**

6 A. Yes. I submitted Direct Testimony on March 31, 2008 and Erratum Testimony on
7 May 1, 2008.

8
9 **Q. What is the purpose of your testimony?**

10 A. My purpose is to respond to comments made by Robert B. Hevert in his Rebuttal
11 Testimony and identified as QGC Exhibit 3.0R along with the attached exhibits; to
12 John J. Reed in his Rebuttal Testimony designated as QGC Exhibit 4.0R; and finally
13 to Alan K Allred in his Rebuttal Testimony identified as QGC Exhibit 2.0R.

14
15 **I. GENERAL COMMENTS**

16
17 **Q. Do you have general comments regarding the Rebuttal Testimony of Messrs.**
18 **Hevert, Reed, and Allred?**

19 A. Yes. Mr. Hevert’s Rebuttal Testimony recounts my testimony and analyses and
20 shows how my analyses can be “corrected” to support his original Direct Testimony.
21 In several places he inaccurately characterizes my testimony and omits mentioning
22 important elements of my discussion in my Direct Testimony. These

23 characterizations and omissions will be discussed in more detail later. Mr. Hevert
24 focuses on fluctuations in interest rates during the first part of April 2008 along with
25 summaries of authorized rates of return in an attempt to show that I (and Dr.
26 Woolridge) have estimated cost of equity rates that are either too low or
27 unreasonable.

28

29 **Q. Do you find any of Mr. Hevert's criticisms persuasive?**

30 A. No. Mr. Hevert's Rebuttal Testimony amounts to a reassertion of his original position
31 as being correct and dismisses arguments that do not support his view. He does not
32 present any new data that is substantially different from what he had in his Direct
33 Testimony. His criticisms of my application of the different models do not invalidate
34 my applications.

35

36 **Q. How does your own Direct Testimony differ from that of Mr. Hevert's Rebuttal**
37 **Testimony?**

38 A: In my Direct Testimony I discussed and presented to the Commission a wide range of
39 options. I included some of the methodologies used by Mr. Hevert, especially with
40 respect to the Capital Asset Pricing Model (CAPM) and plainly stated that there are
41 advocates for the particular applications of those models that Mr. Hevert uses. I also
42 explained that there are differing views among both academics and practitioners
43 regarding the application of those models. I highlighted some of the problems and
44 controversies particularly with the CAPM. Rather than being merely descriptive, I

45 gave my guidance to the Commission regarding what I believe to be the better more
46 “middle of the road” positions to take and used this guidance to arrive at my
47 recommended range and point estimate. However, I did not avoid presenting data on
48 applications that were either higher than, or lower than, my recommended range and
49 point estimate.

50

51 **Q. In your testimony here do you intend to respond in detail to all of Mr. Hevert’s**
52 **comments?**

53 A. No. I plan to respond to a few of the more important issues raised by Mr. Hevert.

54 Omission of a specific comment on the various issues raised by Mr. Hevert should
55 not be construed as agreement with his position on those issues.

56

57 **Q. Do you have any general comments on Mr. Reed’s Rebuttal Testimony at this**
58 **time?**

59 A. Yes. Mr. Reed sees no conflict between his Direct Testimony and that from an
60 investor’s viewpoint Questar Gas is merely average, or perhaps sub-average. This
61 proves to him that management is doing a good job and therefore the Company’s
62 stockholder should be rewarded with a premium return on equity. Mr. Reed does not
63 acknowledge that the measurements I applied are also a reading on management’s
64 ability. To this end there is no evidence of superior management and consequently no
65 evidence that the market would reward Questar Gas’ owner with a premium return.

66

67 **Q. Do you have any comments on Mr. Allred's Rebuttal Testimony?**

68 A. Yes. Mr. Allred appears most concerned about Questar Gas' ability to attract capital
69 should the allowed rate of return be reduced to within the ranges that the Committee
70 of Consumer Services or I are advocating.

71

72 **Q. Is it likely that Questar Gas will no longer be able to attract capital?**

73 A. No. Although as I indicated in my Direct Testimony, there may be a possibility of a
74 ratings downgrade on the Company's debt which might in the future raise its cost of
75 debt. With respect to a possible ratings downgrade, I have seen no evidence that the
76 rating would drop below investment grade. Thus, even in this worst case scenario, the
77 Company would continue to attract debt capital at a reasonable rate, which likely
78 would be minimally higher than at present.

79

80 **Q. Has any of the Rebuttal Testimony offered by the Company's witnesses altered**
81 **your conclusions?**

82 A. No. As detailed below, the Company's witnesses are not persuasive in their critique
83 of my testimony. My recommended point estimate for cost of equity remains 9.25
84 percent.

85

86 **II. COMMENTS ON MR. HEVERT'S REBUTTAL TESTIMONY**

87

88 **Q. How have you organized this section?**

89 A. I have organized this section by the following topics: Comparable Companies; DCF
90 Models; Capital Asset Pricing Models; Risk Premium Models; and Other Issues and
91 Conclusions.

92

93 A. Comparable Companies

94 **Q. Mr. Hevert in his Rebuttal Testimony provides analyses of slightly different**
95 **groupings of comparable, or proxy, companies. What is your response to this**
96 **analysis?**

97 A. Mr. Hevert shows by this analysis that adding or subtracting a company from the list
98 of comparables has little affect on the overall results. This is not surprising and
99 generally supports the basic notion that there is comparability among the companies
100 used as proxies by Mr. Hevert, Dr. Woolridge, and me. Consequently it is also not at
101 all surprising that when Mr. Hevert applies his methodologies to these slightly
102 different groupings of comparable companies, he obtains results similar to his original
103 Direct Testimony.

104

105 **Q. In your view is the selection of the comparable company group a significant issue**
106 **in this case?**

107 A. No. I continue to support my comparable company list, but I would not argue strongly
108 against the Commission adopting Mr. Hevert's "revised proxy group," because of the
109 comparability among the companies used by Mr. Hevert, Dr. Woolridge, and me.

110

111 B. DCF Models

112 **Q. Although Mr. Hevert admits that there is little practical effect on the results, he**
113 **criticizes your use of a different growth rate to arrive at “D” in your single-stage**
114 **DCF models. Do you have a response to this criticism?**

115 A. Mr. Hevert is correct that the mathematical formalism that arrives at the single- stage
116 formula for the DCF model uses a single constant growth “g.” Once that formula is
117 derived (i.e. $k = D/P + g$), the practical application of the formula must be dealt with.
118 The “D” in the formula is usually understood to be the “current dividend,” or the
119 “dividend over the next 12 months.” Different practitioners estimate “D” in different
120 ways. For example, Mr. Hevert himself uses one-half of his “g” to estimate “D.”
121 Roger Morin discusses other methods of estimating “D” including attempting to
122 estimate each dividend for the next four quarters.¹ I have chosen to use Value Line’s
123 forecast dividend growth rate to estimate “D” as a good estimate of the expected
124 dividend over the next year. Because Mr. Hevert’s “g” (or one-half “g”) overestimates
125 the expected near-term dividends, then his DCF models are likely to overestimate the
126 current cost of equity.

127

128 **Q. Do you agree with Mr. Hevert’s criticism of your DCF analysis using historical**
129 **growth rates?**

130 A. No. First, I think it is useful for the Commission to see the historical results and their
131 effects on cost of equity. Second, the fact that analysts presumably use historical data

¹ Morin, Roger A. “New Regulatory Finance,” Public Utility Reports, Inc. Vienna, VA., 2006. See Chapter 11 for a discussion of quarterly dividends in the DCF model.

132 as part of their inputs into their forecasts, does not logically suggest that historical
133 data must not be used as part of the input in a rate case matter. Third, the historical
134 results in this case closely match other estimates of cost of equity. Fourth, the
135 strengths and weaknesses of historical growth rates are discussed by Dr. Morin in his
136 latest book, indicating that historical growth is not a wholly unreasonable factor to
137 consider.² In sum, I reject Mr. Hevert’s criticism of my consideration and
138 presentation of DCF results using historical growth rates. However, I do not put much
139 weight on this DCF model.

140

141 **Q. Mr. Hevert complains that your “adjusted” DCF models were biased downward.**

142 **Do you agree with his criticism?**

143 A. No. I would argue that, if anything, they were biased upward. In arriving at his
144 conclusion, Mr. Hevert appears to confuse commission authorized rates of returns
145 with “the market.”³ While I agree that market participants may follow commission
146 decisions as one of their inputs, commission decisions are not a market. The market
147 observations are the actually observed stock prices. The dividends and earnings,
148 included forecasted dividends and earnings are widely recognized factors that
149 investors consider. In this regard my DCF models are based upon market
150 observations. In “throwing out” outliers, I have truncated the lower end of my range
151 of symmetry (i.e. plus or minus two standard deviations), which will bias the result
152 upward from a purely symmetrical adjustment. It is simply wrong for Mr. Hevert to

² Ibid. beginning on p. 283.

³ See Mr. Hevert’s Rebuttal Testimony, lines 638-645.

153 assert that the low-end results “have never been observed in the market”⁴ since that is
154 exactly what they are—market observations.

155

156 **Q. Mr. Hevert disagrees with your use of forecast dividend growth rates. Is it**
157 **correct to ignore dividend growth forecasts?**

158 A. No. In the first place the DCF model is based upon dividend payments. Thus dividend
159 forecasts are theoretically the most correct growth rate that should be used. I agree
160 with Mr. Hevert that earnings growth rates will likely drive growth in dividends in the
161 long-term. However, to the extent that near-term dividend growth is expected to be
162 higher, or lower, than earnings growth, then the departure of the growth in dividends
163 from the growth in earnings will affect the stock price either up or down under this
164 model. As I mentioned in my Direct Testimony, the Commission’s 2002 decision in
165 Questar Gas’ general rate case to weight earnings growth 75 percent and dividend
166 growth 25 percent is a reasonable compromise of earnings vs. dividend growth rate
167 issue.

168

169 **Q. How do you respond to Mr. Hevert’s concerns that you used lower growth rates**
170 **initially in your two-stage DCF models and a higher growth rate for the terminal**
171 **growth?**

172 A. As discussed above the near-term dividends (and consequently dividend growth rates)
173 will have a more significant effect on the stock price than dividends received later in
174 time. In one model I used Value Line’s dividend forecast rates for the near-term and

⁴ Ibid. line 644.

175 then weighted earnings and dividend growth rates for the terminal value to reflect the
176 effect of near-term dividends coupled with the assumption that in the long run
177 earnings growth will tend to dominate. Similarly, in the second model I used an
178 average of dividend and earnings growth forecasts for the near term dividends and
179 earnings-only forecasts for the terminal value. My purpose was to present to the
180 Commission the effects on the cost of equity estimates by using a range of growth
181 estimates in the two stage model. Of course I could have strictly used earnings
182 growth rate forecasts for every case, but then that would be the same as the single
183 stage model with earnings-only growth (which I also present for the Commission's
184 consideration).

185

186 The other comments by Mr. Hevert largely relate back to the growth rates I used in
187 the single-stage DCF models. In any case, Mr. Hevert's criticisms are without merit.

188

189 **Q. Do you have a response to Mr. Hevert's comments in his Rebuttal Testimony**
190 **regarding forecast rates of growth for the economy, as represented by the Gross**
191 **Domestic Product?**

192 A. Yes. Mr. Hevert's most significant point seems to be that the Handy Whitman Index
193 of Utility Construction Costs for the 1912 to July 2007 historical period shows an
194 inflation rate of about 4.4 percent, and then when added to a real growth estimate
195 gives a growth result of 7.0 percent. Mr. Hevert concludes that a growth rate of 5.0

196 percent is “far too low.”⁵ The obvious question posed by Hevert’s analysis is the
197 relevance of the historical Handy Whitman index going forward either as an indicator
198 of inflation or economic growth or its necessary relevance for growth in net income
199 and dividends. Given the high energy prices and the significant and growing
200 economic competition from places like China and India, it is easy to imagine that
201 future economic growth in the United States will not reflect the past.

202

203 C. Capital Asset Pricing Models (CAPM)

204 **Q. Mr. Hevert disagrees with your use of unadjusted betas in one of your CAPM**
205 **estimates. What are your comments on this issue?**

206 A. As I pointed out in my Direct Testimony, there is some question that utility company
207 betas do or should be expected to converge to the market mean of 1.0. I presented
208 some evidence that the actual long-term average may be closer to 0.5, although the
209 evidence at this point is not conclusive and I have not used these indications to adjust
210 betas downward toward 0.5. On the other hand, if the long-term tendency of utility
211 betas is to fluctuate around an average beta that is less than 1.0,⁶ then the adjusted
212 betas by Value Line and Bloomberg will tend to overstate the risk of a utility
213 company. As an alternative I have presented one CAPM result using the average of
214 unadjusted betas for the Commission’s consideration.

215

⁵ Mr. Hevert’s Rebuttal Testimony at line 760.

⁶ A long-term average beta less than 1.0 would suggest that over the long term investors perceive utility companies’ common stock to be less risky than the typical common stock. Such a result would seem perfectly reasonable to me.

216 **Q. Mr. Hevert presents further data and argument in support of the use of the**
217 **Morningstar (formerly Ibbotson) data from 1926 to the present to estimate the**
218 **market risk premium for the CAPM. Do you have any comments on Mr.**
219 **Hevert's analysis?**

220 A. Yes. In my Direct Testimony, I discussed at length what I have referred to as the
221 "Ibbotson Method" with respect to developing CAPM. I indicated that that approach
222 is used and advocated by a number of practitioners of which Mr. Hevert is one. I
223 explained why I reject that time period as including data that are no longer relevant. If
224 the length of the historical period used is the controlling factor, then studies pushing
225 the analysis of the market risk premia back to various points in the nineteenth century
226 would be even better than the Ibbotson period. But the usual complaints about
227 nineteenth century data are basically that "things were different" then than they are
228 now. I agree with Mr. Hevert that when analyzing historical data, one can use a time
229 period that is "too short" to give reasonably stable information. In my testimony I
230 have tried to present a reasonable compromise with respect to the historical data. Mr.
231 Hevert and I will have to agree to disagree on this point. However, despite my serious
232 reservations concerning the Ibbotson CAPM method, I have included it as part of my
233 analysis for the Commission's consideration.

234

235 I make one additional observation on the Ibbotson historical period. The high risk
236 premia results are largely driven by high returns on common stock combined with
237 very low bond returns during roughly the 1950 to 1973 time period. DPU Figures

238 2.1SR and 2.2SR graph the relevant data using 10-year and 20-year moving averages,
239 respectively. As can be clearly seen, there is a significant “bulge” in the risk
240 premiums over the 1950 to 1973 time period. Before and after that time period, the
241 risk premia, while variable, appear to fluctuate around a mean. Using 10-year
242 moving averages that mean is 4.06 percent; the 20-year moving average data has a
243 mean of 4.34 percent. If the earlier and more recent period is more reflective of the
244 anticipated relative returns in stocks and bonds, then a market risk premium in the 4.0
245 to 4.5 percent range is appropriate.

246

247 D. Risk Premium Models

248 **Q. Do have any observations regarding Mr. Hevert’s rebuttal comments to your risk**
249 **premium model?**

250 A. Mr. Hevert believes that my risk premium analysis is “somewhat circular.”⁷ I
251 disagree with that characterization. Briefly, my analysis relates Value Line’s forecast
252 return to Value Line’s financial strength rating to estimate a risk factor. Given a
253 particular financial strength rating, an expected return can be estimated. Since the
254 comparable companies I used had an average financial strength rating of B++ (above
255 average), by this measure these companies should have a cost of capital less than the
256 market mean. I have quantified this below average required return on equity in my
257 analysis. Mr. Hevert would disagree with my estimate of the expected market return
258 since, in arriving at the expected market return, I reject the use of the 82 year

⁷ Mr. Hevert’s rebuttal testimony at line 989.

259 Ibbotson historical period as discussed in the CAPM section above. This is the
260 primary difference in my risk premium results from the results Mr. Hevert obtains.

261

262 In any case as Mr. Hevert observes, other than as a general test for reasonableness, I
263 put little weight on this model. To the extent I have used this model, I stand by its
264 results.

265

266 **Q. You commented in your Direct Testimony on Mr. Hevert's risk premium**
267 **analysis. Do you have anything to say about his comments in his Rebuttal**
268 **Testimony regarding his risk premium model?**

269 A. Yes, a couple of comments. Mr. Hevert remarks that my trend analysis is only based
270 on time and implies that it has no explanatory power. Contrariwise, I believe the
271 trend analysis indicates commission reaction to lowering interest rates and lowering
272 cost of capital expectations generally. Mr. Hevert complains that I make no attempt
273 to relate the clearly declining authorized rates of return with market fundamentals, but
274 then Mr. Hevert makes no effort to explain the clear and obvious trend either.

275

276 E. Authorized Rates of Return

277 **Q. Do you have any further comments, beyond what you said in your Direct**
278 **Testimony and alluded to above, regarding Mr. Hevert's adherence to historical**
279 **authorized rates of return by various commissions as a major indicator on what**
280 **Questar Gas' cost of equity should be?**

281 A. Yes. Mr. Hevert's Chart 1 on page 8 of his Rebuttal Testimony indicates that while
282 my point estimate and reasonable range are in the lower part of the range of data
283 compiled by Mr. Hevert, the point estimate and, at least the upper half of my
284 reasonable range are within the range of authorized returns according to this data.
285 The Commission, therefore, will not be breaking new ground if it were to authorize a
286 return on equity for Questar Gas in the range I have suggested. Of note in a recent
287 New Mexico case (Docket No. 06-00210-UT) that Commission awarded 9.53 percent
288 to its local gas utility.

289

290 F. Other Issues and Conclusions Regarding Mr. Hevert's Testimony

291 **Q. Mr. Hevert suggests that you made no adjustments to reflect the possibility that**
292 **Questar Gas may face a ratings downgrade. How do you respond?**

293 A. As I indicated in my Direct Testimony, if a possible ratings downgrade is a serious
294 concern to the Commission, then the Commission could award a slightly higher
295 authorized rate of return that is in the upper half of my range. In that way the
296 Commission could protect against the possible ratings downgrade and still keep the
297 authorized return within a range supported by the market and the estimates from the
298 cost of equity models.

299

300 **Q. Mr. Hevert raises the issue that the premium spread between the Company's**
301 **embedded debt and your recommended 9.25 percent cost of equity is**
302 **unreasonably low. How do you respond to that?**

303 A. Simply to say that stock market investors do not demand the premiums over debt that
304 Mr. Hevert suggests that they should. Contrary to Mr. Hevert's assertions, my cost of
305 equity does reflect the current market conditions; therefore Mr. Hevert's concerns in
306 this regard are not valid.

307

308 **Q. Mr. Hevert asserts that you have not complied with the criteria of the Hope and**
309 **Bluefield cases. Is his assertion correct?**

310 A. No. My cost of equity is based upon established theoretical models and the reasonable
311 application of market data. As indicated above, if the Company does face a
312 downgrade in its debt rating, there is no evidence that the rating will not remain
313 investment grade. The Company will still have access to capital at a reasonable
314 cost—likely to be minimally higher than at present--both to it and to ratepayers.

315

316 **Q. Do you have any final comments regarding Mr. Hevert's Rebuttal Testimony?**

317 A. Yes. Mr. Hevert and I have a fundamental disagreement on the size of the market risk
318 premium, i.e. the premium return common stock investors expect over and above the
319 return they would receive on a bond issue. Based upon long-term historical averages,
320 Mr. Hevert believes that this premium is about two percentage points higher than I
321 believe it is. This difference drives both of our analyses, particularly for CAPM. Mr.
322 Hevert bolsters his DCF model by ignoring low growth estimates and accepting high
323 growth estimates as reasonable. He validates his results by comparing them with
324 authorized rates of return data that he has compiled.

325

326 As discussed above, I reject that high market risk premium which Mr. Hevert uses. I
327 reject the high growth rates as being unlikely going forward, even if there may be
328 some historical justification for them. To ignore near-term dividend growth rates in
329 favor of earnings-only growth rates also, in this case, skews the DCF results to the
330 high end. Authorized rates of return are not market observations no matter how much
331 Mr. Hevert would like them to be; consequently market observations should be the
332 controlling factor.

333

334

335 **III. COMMENTS ON MR. REED'S REBUTTAL TESTIMONY**

336

337 **Q. You indicated earlier that your financial ratios are also indices of management**
338 **performance. Could you expand on that?**

339 A. Yes. While Company management may be constrained on its return on equity to
340 approximately its allowed rate of return, superior management would be expected to
341 show consistently above average results on its financial measures. My corrected
342 Exhibit 2.15 in my Direct Testimony sets my analysis of selected financial measures.
343 I rate Questar Gas "average," "above average," or "below average" for each measure.
344 In my comments here, "above average" means simply above the average of
345 comparable companies, not necessarily the rating I used in my Direct Testimony
346 (where "above average" required it to be at least one standard deviation above the

347 mean). In Questar Gas' case, measures of management efficiency such as Days
348 Revenue Receivable are much below the mean of the comparable companies, almost
349 a standard deviation below. With respect to controlling its debt and interest expense,
350 the Company management is below average as measure by the Times Interest Earned
351 ratio. Operating income as a percent of revenue is below average despite the
352 advantage the Company has in the purchase of relatively cheap Wexpro gas. The
353 revenues to net fixed asset ratios are below average, suggesting that the Company's
354 management may be inefficiently deploying fixed assets relative to the comparable
355 companies. In sum, there is no evidence of superior management in the financial
356 ratios I've examined in which does not support Mr. Reed's testimony.

357

358 **Q. Do you have an opinion regarding Mr. Reed's claims that "operational**
359 **performance" or the savings that ratepayers allegedly have enjoyed as a result of**
360 **that performance overcomes the average or below average financial ratios?**

361 A. Yes. I am not persuaded that they do. In any case, the request for incentive regulation
362 needs to be addressed in another docket where parties can fully examine these issues.

363

364 **Q. In your Direct Testimony, you made the point that Questar Gas needed to**
365 **establish before the Commission the approval of and the mechanism for**
366 **incentive regulation, and not try to "back door" this type of regulation as part of**
367 **the rate of return of testimony in a rate case. Does Mr. Reed rebut your**
368 **position?**

369 A. No. Mr. Reed's comments are restricted to his interpretation and effect of the
370 financial ratios I presented in my Direct Testimony.

371

372 **Q. Does the fact that you did not provide a detailed critique of Mr. Reed's analyses**
373 **in your Direct Testimony mean that you agree with his analyses and**
374 **conclusions?**

375 A. No. For this case I am not taking a position on the validity or lack thereof on Mr.
376 Reed's measurements. It is my position that if Questar Gas wants to implement
377 incentive regulation and use Mr. Reed's measures, it should petition the Commission
378 to do that in a separate docket so that the Division and other interested parties can
379 more thoroughly study the issues involved.

380

381 **IV. COMMENTS ON MR. ALLRED'S REBUTTAL TESTIMONY**

382

383 **Q. You earlier indicated that Mr. Allred in his Rebuttal Testimony is most**
384 **concerned about the Company's ability to attract capital. Have you complied**
385 **with Hope and Bluefield criteria in this regard?**

386 A. Yes. As I discussed above, the equity rates I'm advocating are derived from market
387 data, which means they should be satisfactory to equity investors. Even should the
388 Company experience a debt rating downgrade, it still should be able to obtain debt
389 capital as an investment grade borrower, as suggested in my analysis in my Direct
390 Testimony. The Company's recently complete debt issuance should mitigate any

391 practical concern of a downgrade in that it should not have to issue more debt for
392 some time.

393

394 **Q. Mr. Allred refers to authorized rates of return as being much higher than the**
395 **cost of equity amounts you are advocating. Is Mr. Allred correct that utility**
396 **equity investors will simply move their money to other utilities because they are**
397 **offering a higher return?**

398 A. No. Mr. Allred confuses the authorized return from a regulatory commission with the
399 returns that common equity investors are getting and expecting in the marketplace.

400 As demonstrated by my Direct Testimony, investors in gas utility common stock are
401 likely expecting to receive sub-ten percent returns on their investment.

402

403 **V. SUMMARY AND CONCLUSION**

404

405 **Q. Please summarize your surrebuttal testimony.**

406 A. Mr. Hevert leveled a number of criticisms in his Rebuttal Testimony, many of which I
407 had already dealt with in my Direct Testimony, although perhaps some clarification
408 was needed. Generally, I disagree with Mr. Hevert's relatively high growth rates
409 used in his DCF models. I disagree with Mr. Hevert's market risk premium in his
410 CAPM model. The market risk premium is my principal disagreement with Mr.
411 Hevert with respect to his CAPM calculations. Finally, I disagree with Mr. Hevert's
412 heavy reliance on authorized rates of return as some sort of "market" indicator.

413

414 **Q. What conclusions have you reached?**

415 I maintain my point estimate of 9.25 percent as my recommendation for Questar Gas'
416 cost of equity as being just and reasonable and supported by substantial market and
417 theoretical evidence. I also keep the caveat that if a possible debt rating downgrade,
418 which I believe would only be minimally higher than at present, is a serious concern
419 to the Commission, then a higher cost of equity in the upper half of my range would
420 still be reasonable.

421

422 **Q. Does this conclude your Surrebuttal Testimony?**

423 **A.** Yes.