

BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH

Phase II Surrebuttal Testimony of Kevin C. Higgins

on behalf of

UAE

Docket No. 22-057-03

November 3, 2022

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EXHIBITS

UAE Exhibit COS 6.0
UAE Exhibit COS 6.1

Surrebuttal Testimony of Kevin C. Higgins
DEU Response to UAE Data Request 3.1

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SURREBUTTAL TESTIMONY OF KEVIN C. HIGGINS

I. INTRODUCTION

Q. Please state your name and business address.

A. My name is Kevin C. Higgins. My business address is 111 East Broadway, Suite 1200, Salt Lake City, Utah, 84111.

Q. By whom are you employed and in what capacity?

A. I am a Principal in the firm of Energy Strategies, LLC. Energy Strategies is a private consulting firm specializing in economic and policy analysis applicable to energy production, transportation, and consumption.

Q. Are you the same Kevin C. Higgins who prefiled Phase I direct, rebuttal and surrebuttal testimony and Phase II direct and rebuttal testimony on behalf of the Utah Association of Energy Users Intervention Group (“UAE”) in this proceeding?

A. Yes, I am.

II. OVERVIEW AND CONCLUSIONS

Q. What is the purpose of your Phase II surrebuttal testimony in this proceeding?

A. My testimony responds to the Phase II rebuttal testimonies of Dominion Energy Utah (“DEU”) witness Mr. Austin C. Summers, Division of Public Utilities (“Division”) witness Dr. Abdinasir M. Abdulle, Office of Consumer Services

23 (“Office”) witness Mr. James W. Daniel, Nucor Steel-Utah (“Nucor”) witness Mr.
24 Bradley G. Mullins, and American Natural Gas Council (“ANGC”) witness Mr.
25 Timothy B. Oliver.

26 **Q. Please summarize your conclusions and recommendations.**

27 A. My testimony offers the following recommendations:

- 28 1) I continue to recommend that Design-Day usage be used to allocate demand-
29 related costs. I agree with the rebuttal testimony of Mr. Summers that feeder line
30 mains, compressor stations, and measuring/regulation stations were designed and
31 installed to meet customer demand on a Design-Day.¹ Dr. Abdulle’s and Mr.
32 Daniel’s proposals to use actual peak-day usage rather than Design-Day usage to
33 allocate demand-related costs should be rejected.
- 34 2) I continue to recommend that Dr. Abdulle’s and Mr. Daniel’s proposals to
35 allocate peak demand costs to interruptible load be rejected because interruptible
36 loads do not contribute to DEU’s Design-Day demand costs and would be
37 curtailed on a Design-Day.
- 38 3) I continue to recommend using a 67.5% Design-Day / 32.5% Throughput
39 weighting for Allocation Factor 230, with the throughput weighting based on the
40 system load factor calculated using the Design-Day. I agree with Mr. Summers’
41 rebuttal testimony that my proposal carries the most analytical weight of all the
42 alternatives offered by other parties.² Furthermore, I believe my proposal is more
43 appropriate than DEU’s 60/40 weighting because my load factor weighting is

¹ Rebuttal Testimony of Austin C. Summers, lines 52-58.

² Rebuttal Testimony of Austin C. Summers, lines 157-158.

44 based on the proper application of the Peak and Average method as described in
45 the NARUC Manual.

46 4) I continue to recommend a 67.5% Distribution Design-Day / 32.5% Distribution
47 Throughput allocation for large-diameter intermediate high pressure (“IHP”)
48 mains, with both of these components representing the load delivered through the
49 large-diameter IHP system. Mr. Summers misunderstands my proposal and
50 incorrectly states that I recommend using the same allocation method for large-
51 diameter IHP mains and feeder lines.³ On the contrary, my recommended
52 allocation method for large-diameter IHP mains appropriately excludes load
53 directly connected to the feeder line system or Upstream Pipeline, as does DEU’s
54 Distribution Throughput allocation.

55 5) Mr. Summers’ rebuttal testimony accepts my recommended corrections to the
56 Magna Liquefied Natural Gas (“LNG”) rate base in concept but provides a more
57 precise reclassification of LNG plant by FERC account.⁴ I incorporated the
58 FERC account information provided by Mr. Summers into my surrebuttal cost-of-
59 service study.

60 6) In his rebuttal testimony, Mr. Summers responds to a proposal by Nucor-Steel
61 Utah witness Mr. Mullins to allocate distribution depreciation expense based on
62 the underlying asset allocation. Mr. Summers acknowledges that allocating
63 depreciation expense in the same manner as the underlying assets could be
64 justified but argues that DEU’s gross plant allocation factor is reasonable and

³ Rebuttal Testimony of Austin C. Summers, lines 193-205.

⁴ Rebuttal Testimony of Austin C. Summers, lines 290-332.

65 does not need to be changed.⁵ I believe that Mr. Mullins' proposal is justified and
66 that allocating distribution depreciation expense consistent with the underlying
67 plant would better represent cost causation than DEU's method. Therefore, my
68 surrebuttal cost-of-service study reflects an allocation of distribution depreciation
69 expense based on the specific allocation of the underlying plant.

70 7) Mr. Oliver's criticism of my comments regarding TS rate design is misplaced.
71 My comments were made in the interest of rational rate design rather than to
72 advantage one rate class over another, as Mr. Oliver implies.

73 8) I provide a summary of the class cost-of-service study results using my
74 recommended allocation methods as updated in this Phase II surrebuttal
75 testimony, at the overall revenue requirement I recommended in my Phase I
76 rebuttal testimony.⁶ I recommend that these results be used to guide the revenue
77 allocation to classes at the overall revenue requirement that the Commission
78 approves in this case, prior to taking rate mitigation into account.

79 9) The Commission should consider implementing a rate mitigation plan that would
80 temper the dramatic impacts that would otherwise be experienced by certain
81 classes. The need for rate mitigation would be even more critical if certain cost
82 allocation proposals made by Dr. Abdulle or Mr. Daniel are adopted.

83

84

⁵ Rebuttal Testimony of Austin C. Summers, lines 283-288.

⁶ My recommended revenue requirement in my Phase I surrebuttal testimony was unchanged from my Phase I rebuttal testimony.

85 **III. RESPONSES TO COST ALLOCATION ISSUES**

86 **Design-Day Versus Actual Peak-Day Factor**

87 **Q. Do you support DEU's use of the Design-Day factor to allocate demand-**
88 **related costs?**

89 A. Yes, I agree with the rebuttal testimony of Mr. Summers that feeder line mains,
90 compressor stations, and measuring/regulation stations were designed and
91 installed to meet customer demand on a Design-Day.⁷ The Design-Day is
92 therefore the most reasonable basis on which to allocate the demand-related costs
93 of these facilities.

94 **Q. Do Dr. Abdulle and Mr. Daniel continue to advocate that demand-related**
95 **costs be allocated using actual peak-day usage rather than the Design-Day in**
96 **their rebuttal testimonies?**

97 A. Yes. Dr. Abdulle and Mr. Daniel oppose DEU's use of the Design-Day to
98 allocate peak demand-related costs. Dr. Abdulle recommends using a 3-year
99 average of the actual peak-day demands,⁸ whereas Mr. Daniel recommends using
100 the test year actual peak-day demand.⁹

101

⁷ Rebuttal Testimony of Austin C. Summers, lines 52-58.

⁸ Rebuttal Testimony of Abdinasir M. Abdulle, lines 110-126.

⁹ Rebuttal Testimony of James W. Daniel, lines 58-60.

102 **Q. Do you continue to disagree with Dr. Abdulle's and Mr. Daniel's proposals to**
103 **use actual peak-day usage rather than Design-Day usage to allocate peak-**
104 **related costs?**

105 A. Yes. The peak-related infrastructure put in place by DEU is designed to ensure
106 that firm customers can continue to receive service on an extremely cold day.
107 Since the Design-Day capacity is built to meet firm requirements under extreme
108 conditions, it is entirely appropriate that the peak-related costs of the system be
109 allocated in a manner that reflects the expected usage on the Design-Day.

110 As I explained in my Phase II rebuttal testimony, the actual peak-day
111 demands utilized by Dr. Abdulle and Mr. Daniel are 30-32% less than the Design-
112 Day demand. This additional capacity comes at a cost. DEU incurs these
113 additional costs to ensure that DEU's system can continue to provide much-
114 needed natural gas service to firm sales customers on an extremely cold day. If
115 those costs are prudently incurred, the customers who require that this additional
116 capacity be available should pay for it, which means that the capacity costs should
117 be allocated based on the Design-Day.¹⁰

118 Dr. Abdulle's and Mr. Daniel's proposals to use actual peak-day usage
119 rather than Design-Day usage to allocate demand-related costs should be rejected
120 by the Commission because their approaches do not properly allocate cost
121 responsibility for DEU's system as designed.

122

¹⁰ Phase II Rebuttal Testimony of Kevin C. Higgins, lines 89-136.

123 **Including Interruptible Load in the Peak-Day Factor**

124 **Q. Do you agree with DEU that interruptible volumes should not be included in**
125 **the peak-day factor?**

126 A. Yes. I agree with the rebuttal testimony of Mr. Summers that interruptible
127 volumes should not be allocated demand-related costs.¹¹ I concur that
128 interruptible volumes should not be assigned peak demand cost responsibility
129 because interruptible load does not contribute to DEU's Design-Day demand
130 costs and would be curtailed on a Design-Day. As Mr. Summers correctly points
131 out, this is consistent with guidance in the NARUC Manual that interruptible
132 customers should generally not be allocated coincident demand-related costs.¹²

133 **Q. In addition to being inappropriate from a cost causation standpoint, would**
134 **allocating demand-related costs to interruptible load present any rate design**
135 **challenges?**

136 A. Yes. Under the current Transportation Service ("TS") Rate Schedule (and the
137 proposed TS Small, Medium, and Large rate schedules), demand-related costs are
138 recovered through the Firm Demand Charge, which is applicable to contracted
139 firm demand only. If increased demand-related costs are allocated to the TS class
140 based on interruptible load, there would not be an efficient means of collecting
141 those costs from the interruptible load under the current rate structure. Not only is
142 it inappropriate to allocate demand-related costs to interruptible load from a cost-

¹¹ Rebuttal Testimony of Austin C. Summers, lines 341-355.

¹² See the description of the Coincident Demand Method in the Gas Distribution Rate Design Manual published by the National Association of Regulatory Utility Commissioners, p. 27, which was provided in UAE Exhibit COS 2.1 to my Phase II direct testimony.

143 causation standpoint, there is also no specific mechanism to collect these costs
144 from TS interruptible load in the current tariff.

145

146 **Design-Day / Throughput Weighting**

147 **Q. How did DEU respond to parties' positions regarding the appropriate Peak /**
148 **Throughput weighting for Allocation Factor 230?**

149 A. In Mr. Summers' rebuttal testimony, he addresses the Allocation Factor 230
150 weightings proposed by other parties, which I have summarized in Table KCH-
151 1S, below. Mr. Summers concludes that of all the proposals by other parties, my
152 recommended 67.5% Design-Day / 32.5% Throughput allocation carries the most
153 analytical weight. Mr. Summers argues that my proposal is the most reasonable
154 alternative to the Company's proposal, but he stops short of adopting my
155 recommended weighting instead of the Company's 60/40 weighting.¹³

156
157

**Table KCH-1S
Parties' Recommended Allocation Factor 230 Weightings**

Nucor ¹⁴	100% Design Day
Federal Executive Agencies ¹⁵	100% Design Day
American Natural Gas Council ¹⁶	68% Design Day / 32% Throughput
UAE	67.5% Design-Day / 32.5% Throughput
DEU ¹⁷	60% Design Day / 40% Throughput
Division ¹⁸	54% 3-Year Av. Actual Peak-Day / 46% Throughput
Office ¹⁹	52% Actual Peak-Day / 48% Throughput

¹³ Rebuttal Testimony of Austin C. Summers, lines 157-164.

¹⁴ Rebuttal Testimony of Bradley G. Mullins, lines 13-15.

¹⁵ Rebuttal Testimony of Brian C. Collins, page 4, lines 1-10.

¹⁶ Rebuttal Testimony of Timothy B. Oliver, lines 464-467.

¹⁷ Rebuttal Testimony of Austin C. Summers, lines 119-124.

¹⁸ Rebuttal Testimony of Abdinasir M. Abdulle, lines 161-164.

¹⁹ Rebuttal Testimony of James W. Daniel, lines 187-188.

158 **Q. Do you continue to recommend a 67.5% Design-Day / 32.5% Throughput**
159 **weighting for Allocation Factor 230?**

160 A. Yes. My recommended 32.5% throughput weighting is based on DEU's system
161 load factor calculated using the Design-Day. Measuring system load factor
162 relative to the Design-Day is appropriate since the distribution system must be
163 sized to meet the Design-Day capacity. The throughput allocation component
164 should be no greater than the load factor, based on the average utilization of the
165 system relative to the Design-Day. I therefore continue to recommend a 67.5%
166 Design-Day / 32.5% Throughput weighting for Allocation Factor 230.

167

168 **Large-Diameter IHP Mains Allocation**

169 **Q. By way of background, what is your recommended allocation method for**
170 **large diameter IHP mains?**

171 A. As I explained in my Phase II direct²⁰ and rebuttal²¹ testimonies, I recommend
172 using a 67.5% Distribution Design-Day / 32.5% Distribution Throughput
173 allocation for large diameter IHP mains instead of DEU's 100% Distribution
174 Throughput allocation. Importantly, my recommended method and DEU's
175 current method are both based on the load delivered through the large-diameter
176 IHP system and exclude load directly connected to the feeder line system or
177 Upstream Pipeline.

178

²⁰ Phase I Direct Testimony of Kevin C. Higgins, lines 199-233.

²¹ Phase II Rebuttal Testimony of Kevin C. Higgins lines 409-422.

179 **Q. Did DEU respond to your proposal in rebuttal?**

180 A. Yes. Mr. Summers responds to my proposal as well as that of Federal Executive
181 Agencies' witness Mr. Brian C. Collins, who proposes to allocate large-diameter
182 IHP mains based 100% on Design-Day. Mr. Summers contends that DEU's use of
183 the 100% Distribution Throughput allocation is superior to the alternatives I and
184 Mr. Collins propose.

185 However, Mr. Summers misunderstands an important aspect of my
186 proposal. Mr. Summers claims that I am recommending the same 67.5% Design-
187 Day / 32.5% Throughput allocation that I recommend for feeder lines.²² This is
188 incorrect. As I explained in my Phase II direct testimony, my recommended
189 allocation method for large-diameter IHP mains is based on the load served
190 through the IHP system,²³ rather than the entire load that is the basis of the feeder
191 line allocation. This is appropriate because load that is directly served by the
192 feeder line system or Upstream Pipeline should not be allocated costs of the large-
193 diameter IHP system. Any allocation method approved by the Commission for
194 large diameter IHP mains should exclude load that is directly served by the feeder
195 line system or Upstream Pipeline.

196 The cost-of-service results that Mr. Summers presents related to my
197 proposal should be disregarded because Mr. Summers misinterpreted my
198 recommendation. The impact of my recommended large diameter IHP mains

²² Rebuttal Testimony of Austin C. Summers, lines 195-196.

²³ Phase II Direct Testimony of Kevin C. Higgins, lines 209-223.

199 allocation is presented in UAE Exhibit COS 2.2, pages 3 and 4 to my Phase II
200 direct testimony.

201 **Q. Did any other parties respond to your large diameter IHP mains allocation**
202 **method in rebuttal?**

203 A. Yes. Nucor witness Mr. Mullins agrees that the large diameter IHP allocation
204 should include the Design-Day, excluding high pressure service. However, Mr.
205 Mullins recommends a 100% Design-Day allocation.²⁴

206 Conversely, Mr. Daniel recommends that my proposed allocation be
207 rejected because he claims that it is contrary to what DEU says the large diameter
208 mains are designed for.²⁵

209 **Q. Do you continue to recommend that the large diameter IHP mains allocation**
210 **incorporate a Distribution Design-Day component?**

211 A. Yes. I continue to recommend using a 67.5% Distribution Design-Day / 32.5%
212 Distribution Throughput allocation method for large diameter IHP mains. As
213 DEU acknowledges in discovery, its entire distribution system is design to meet a
214 Design-Day scenario.²⁶ My recommended method appropriately balances these
215 Design-Day considerations with the Distribution Throughput component upon
216 which DEU's current allocation method is based.

217

218

²⁴ Rebuttal Testimony of Bradley G. Mullins, lines 27-39.

²⁵ Rebuttal Testimony of James W. Daniel, lines 216-226.

²⁶ DEU response to UAE Data Request 3.01, included in UAE Exhibit COS 6.1.

219 **Magna LNG Facility Rate Base**

220 **Q. Did DEU respond to your recommended corrections to the LNG facility**
221 **gross plant, accumulated depreciation and accumulated deferred income**
222 **taxes (“ADIT”)?**

223 A. Yes. Mr. Summers conceptually agrees with my recommended corrections but
224 offers more precise information about the specific FERC accounts in which the
225 gross plant balances were recorded.²⁷ I have incorporated this FERC account
226 information as a refinement to my adjustment, which is included in my surrebuttal
227 cost-of-service study. I note that I effectuated this adjustment by increasing the
228 balance in Account 364 (LNG Plant) and decreasing the balances in the specified
229 FERC accounts by the same amount. I consider this adjustment to be provisional
230 for the purpose of this case, and recommend that DEU separately track its LNG-
231 related plant in the proper FERC accounts going forward. I also recommend that
232 the LNG-related accumulated depreciation and ADIT be tracked separately from
233 the non-LNG-related balances to facilitate the proper allocation of these rate base
234 components.

235

²⁷ Rebuttal Testimony of Austin C. Summers, lines 289-332.

236 **Distribution Depreciation Expense Allocation**

237 **Q. How did DEU respond to Mr. Mullins' proposal to allocate distribution**
238 **depreciation expense in the same manner as the underlying plant by FERC**
239 **account?**

240 A. Mr. Summers acknowledges that allocating depreciation expense in the same
241 manner as the underlying assets could be justified but does not adopt Mr. Mullins'
242 proposal.²⁸ Instead, Mr. Summers continues to utilize the gross plant allocator to
243 allocate distribution depreciation expense.

244 **Q. Do you believe that Mr. Mullins' proposal has merit?**

245 A. Yes. Allocating distribution depreciation expense in a more precise manner
246 consistent with the underlying plant better aligns with cost causation. I have
247 incorporated this more granular allocation of distribution depreciation expense
248 into my surrebuttal cost-of-service study.

249

250 **IV. TS RATE DESIGN**

251 **Q. In your direct testimony you expressed concerns about the relationship**
252 **between DEU's proposed TSS and TSM volumetric charges. ANGC witness**
253 **Mr. Oliver is critical of your comments. Do you wish to respond?**

254 A. Yes. In my direct testimony I noted that a customer transporting 2,000 Dth/month
255 (a relatively large TSS customer or a relatively small TSM customer) would pay a
256 far lower volumetric charge under DEU's proposed TSS rates than under DEU's

²⁸ Rebuttal Testimony of Austin C. Summers, 284-288.

257 proposed TSM rates for the same level of usage. Since the new TS classes would
258 be differentiated by size, we should expect that some customers whose gas
259 consumption is near the boundary of the usage level defining the rate class will
260 end up migrating from one class to another based solely on variations in their
261 usage. For this reason, we should prefer that the rate design provide a smooth
262 transition from one class to the other. As I noted in my direct testimony, DEU's
263 volumetric rate design falls far short of this objective. Although I noted this
264 problem, I did not attempt to redesign DEU's TSS and TSM volumetric rates, as I
265 believe that responsibility rests first and foremost with DEU.

266 Mr. Oliver takes issue with my commentary and speculates that my
267 analysis "appears designed to block needed equity improvements for TSS
268 customers by creating a specter of a flaw in the Company's rate design."²⁹ This is
269 nothing more than gratuitous conjecture on Mr. Oliver's part. Rate design is
270 important for ensuring rational rate relationships. Under DEU's proposed rate
271 design, a TSS customer that experiences a very small increase in usage that causes
272 it to migrate to the TSM class will experience a nearly 50% increase in its
273 volumetric charge. I expect there will be some disgruntled customers when this
274 occurs. I am not "creating a specter of a flaw." The potential impact speaks for
275 itself. I am simply pointing it out.

276

²⁹ Rebuttal Testimony of Timothy B. Oliver, lines 656-658.

277 **Q. Are there examples of rate design improvements for which UAE has**
278 **advocated that have benefitted the TSS class?**

279 A. Yes. UAE participated in the cost of service and rate design workshops that were
280 ordered by the Commission at the conclusion of DEU's last general rate case. As
281 part of that effort, UAE pointed out certain flaws in DEU's calculation of its TS
282 demand charge. To DEU's credit, the Company adopted in this case the
283 improvements recommended by UAE, which resulted in a decrease in the demand
284 charge for all TS classes. This change produces a significant benefit to the
285 customers populating the TSS class even if the TS class were not split up, because
286 on the whole, a higher proportion of service to smaller customers is firm. UAE,
287 which has members in all three proposed TS classes, did not recommend the
288 improvement in the demand charge calculation in order to advantage one class
289 over another, but rather in the interest of good rate design. My discussion of rate
290 design issues in this case is consistent with UAE's long-term advocacy for good
291 rate design practice.

292

293 **V. COST-OF-SERVICE RESULTS SUMMARY AND REVENUE**

294 **ALLOCATION CONSIDERATIONS**

295 **Q. Have you prepared an updated summary of the class cost-of-service results**
296 **using the allocation methods you are recommending in this surrebuttal**
297 **testimony, at the revenue requirement you recommended in your Phase I**
298 **rebuttal testimony?**³⁰

299 **A.** Yes, these results are summarized in Table KCH-2S, below. I recommend that
300 these results be used to guide the revenue allocation to classes at the overall
301 revenue requirement that the Commission approves in this case, prior to taking
302 rate mitigation into account, as I discuss below.

303 **Table KCH-2S**
304 **Cost-of-Service Results with UAE Surrebuttal COS Recommendations**
305 **At UAE Phase I Rebuttal Revenue Requirement**

Class (a)	Current DNG Revenue ³¹ (b)	DNG Revenue Change to Achieve Equalized ROR		DNG Revenue Change Plus TBF Discount	
		\$ Increase/ (Decrease) ³² (c)	% Increase/ -Decrease (d)	\$ Increase/ (Decrease) (e)	% Increase/ -Decrease (f)
GS	\$383,506,941	\$33,427,425	8.72%	\$36,673,394	9.56%
FS	\$2,822,045	\$796,430	28.22%	\$846,532	30.00%
IS	\$264,568	(\$72,227)	-27.30%	(\$70,054)	-26.48%
TSS	\$14,170,736	(\$2,654,939)	-18.74%	(\$2,471,111)	-17.44%
TSM	\$12,873,715	\$1,717,916	13.34%	\$1,971,442	15.31%
TSL	\$10,685,465	\$4,634,240	43.37%	\$4,955,425	46.38%
TBF	\$6,473,467	\$3,528,581	54.51%	(\$532,446)	-8.23%
NGV	\$2,605,568	\$397,973	15.27%	\$402,219	15.44%
Total	\$433,402,504	\$41,775,400	9.64%	\$41,775,400	9.64%

³⁰ My recommended revenue requirement in my Phase I surrebuttal testimony was unchanged from my Phase I rebuttal testimony.

³¹ Reflects the correction to the TS and TBF classes' current revenues as I discussed in my Phase II direct testimony, lines 92-111, which has not been rebutted by any party, to the best of my knowledge.

³² The overall increase differs slightly (-\$45) from the increase recommended in my Phase I rebuttal testimony due to minor jurisdictional allocation impacts resulting from my LNG rate base correction.

306 **Q. Do you believe that the Commission should consider applying rate mitigation**
307 **in this case?**

308 A. Yes, the Commission should consider implementing a rate mitigation plan that
309 would temper the dramatic impacts that would otherwise be experienced by
310 certain classes. In particular, the Commission should consider limiting the extent
311 to which classes can experience rate decreases while other classes receive
312 percentage increases that are substantially above the system average increase.
313 The need for rate mitigation would be even more critical if certain costs allocation
314 proposals of Dr. Abdulle or Mr. Daniel are adopted, which would exacerbate the
315 significant impacts on the TSM and TSL classes. Given the magnitude of the
316 potential class impacts, it may be necessary spread a portion of the revenue
317 shortfall resulting from the rate mitigation to the GS class rather than confining
318 the rate mitigation impact to the TS classes.

319 **Q. Does this conclude your Phase II surrebuttal testimony?**

320 A. Yes, it does.