

REDACTED

Rocky Mountain Power

Docket No. 21-035-69

Witness: Craig M. Eller

BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF UTAH

ROCKY MOUNTAIN POWER

REDACTED

Direct Testimony of Craig M. Eller

February 2022

1 **INTRODUCTION OF WITNESS AND QUALIFICATIONS**

2 **Q. Please state your name, business address, and present position with PacifiCorp,**
3 **d/b/a Rocky Mountain Power (“RMP” or the “Company”).**

4 A. My name is Craig M. Eller. My business address is 1407 West North Temple Street,
5 Suite 310, Salt Lake City, Utah 84116. My present position is Vice President, Business
6 Policy and Development for Rocky Mountain Power.

7 **Q. How long have you been in your present position?**

8 A. I have been in my present position since July 2020.

9 **Q. Please describe your education and business experience.**

10 A. I have a Bachelor of Science in Mechanical Engineering from the University
11 of Nebraska. I have been employed with PacifiCorp since July 2020 as the Vice
12 President of Business Policy and Development responsible for strategic planning,
13 stakeholder engagement, regulatory support, and development and execution of major
14 transmission projects. Prior to my current role, I worked at Northern Natural Gas
15 Company, an affiliate of the Company, from 2007 through 2020 in various business
16 development, commercial marketing and engineering roles.

17 **Q. Have you testified in previous regulatory proceedings?**

18 A. Yes. I have previously filed testimony on behalf of the Company in regulatory
19 proceedings in Utah, Wyoming and Idaho.

20 **PURPOSE OF TESTIMONY**

21 **Q. What is the purpose of your testimony?**

22 A. The main purpose of my testimony is to present the Company’s new Electric Service
23 Agreement (“Proposed ESA”) between the Company and Nucor Steel-Utah, a Division

24 of Nucor Corporation (“Nucor”) effective March 1, 2022. My testimony explains how
25 the prices, terms, and conditions of the Proposed ESA are reasonable and in the public
26 interest. I describe general terms of the Proposed ESA but will focus on the changes
27 made to the contract from the previous service agreement (“Existing ESA”) between
28 the Company and Nucor, which was approved in Docket No. 17-035-72.¹

29 My testimony also discusses the timing of this filing including the extension of
30 the Existing ESA that is effective from January 1 through February 28, 2022 (“ESA
31 Extension”), and the Company’s request for the Public Service Commission of Utah
32 (“Commission”) to approve the extension. The ESA Extension is provided as Exhibit
33 RMP__(CME-2).

34 **SUMMARY OF PROPOSED ESA AND CONTRACT TERM**

35 **Q. Please describe the general structure of the Proposed ESA between Nucor and the**
36 **Company.**

37 A. PacifiCorp and Nucor executed the Proposed ESA on February 9, 2022, which is
38 provided as Confidential Exhibit RMP__(CME-1). The term of the Proposed ESA
39 begins March 1, 2022, and expires on December 31, 2031, with some additional
40 provisions I describe later in my testimony.

41 Under the Proposed ESA, PacifiCorp will continue to provide Nucor with retail
42 full requirements service of electric energy and Nucor will provide PacifiCorp with
43 certain interruptible products. Changes between the Existing ESA and the Proposed
44 ESA consist of: (1) rate changes including an increased average rate and improved rate

¹ *Application of Rocky Mountain Power for Approval of Electric Service Agreement between PacifiCorp and Nucor-Plymouth Bar Division, a Division of Nucor Corporation, Docket No. 17-035-72, Order Approving Electric Service Agreement (March 23, 2018).*

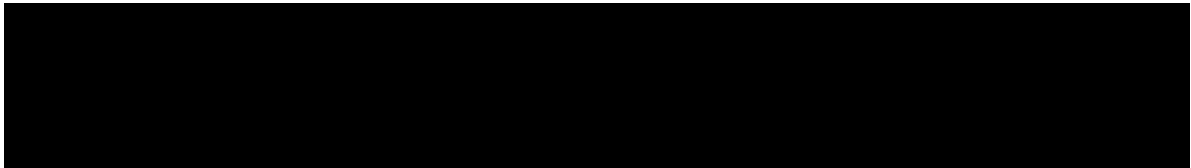
45 structure; (2) changes to curtailment terms including a revised curtailment credit value,
46 limitations on future curtailment credit value increases, and reduced allowances for
47 Nucor downtime; (3) obligations of Nucor to procure its full electrical service from the
48 Company and direct access restrictions; and (4) additional operational requirements to
49 mitigate and minimize voltage flickers to improve performance parameters. I will
50 describe each of these changes in more detail.

51 **RATE CHANGES**

52 **Q. What is the rate structure of the Proposed ESA including the facilities charge,**
53 **energy charge, and power charge?**

54 A. The Proposed ESA includes a facilities charge of [REDACTED] per kilowatt-month (kW-
55 month) multiplied by measured demand, an energy charge multiplied by measured
56 energy, and a power charge multiplied by on-peak demand. The energy and power
57 charges vary based on the season and on-peak periods as shown in the Confidential
58 Table 1 below.

59 **Confidential Table 1. Proposed ESA Retail Prices for Nucor**

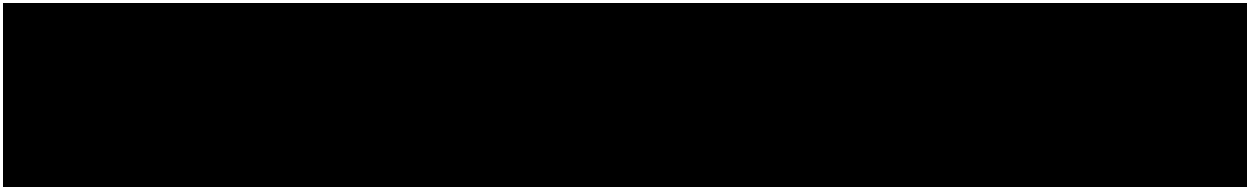


60
61 **Q. How is the rate structure in the Proposed ESA an improvement to the Existing**
62 **ESA?**

63 A. The rate structure in the Proposed ESA is an improvement because it better reflects cost
64 of service by more closely aligning demand and energy categories. It is also an
65 improvement because it modernizes the seasons and time of use hours as was recently
66 done for Electric Service Schedule No. 8 – Large General Service – 1,000 kW and

67 Over-Distribution Voltage (“Schedule 8”) and Electric Service Schedule No. 9 –
68 General Service – High Voltage (“Schedule 9”) in the Company’s last general rate case
69 in Docket No. 20-035-04. In the Existing ESA, the current prices for Nucor included a
70 nominal [REDACTED] per month customer service charge and a [REDACTED] per kW-month facilities
71 charge (which was generally based upon on-peak demand, instead of the generally
72 higher measured demand) plus higher energy charges based on energy consumption
73 and lower power charges based on on-peak demand that varied by season and time of
74 use period. Confidential Table 2 below summarizes these charges:

75 **Confidential Table 2. Current Retail Prices for Nucor**



76 Under these rates in the last general rate case, energy charges accounted for
77 62 percent of Nucor’s annual revenue while demand charges accounted for 38 percent
78 of Nucor’s annual revenue. This compares with 45 percent and 55 percent of cost of
79 service being energy-related and demand-related, respectively. The retail prices in the
80 proposed ESA resolve this imbalance with higher demand-related charges and lower
81 energy charges. During calendar year 2020, energy charges under the Proposed ESA
82 would have represented 38 percent of revenue and demand-related charges would have
83 represented 62 percent of revenue.

84 The retail rate structure of the proposed ESA is also an improvement because it
85 moves the month of May to the lower cost winter season and limits the on-peak time
86 of use window to a shorter seven hour on-peak period during non-holiday weekdays.

87 Both changes were approved by the Commission for large over one megawatt (“MW”)
88 customers on Schedule 8 and Schedule 9 in the Company’s last general rate case.

89 **Q. How did Nucor’s annual electric service cost in the Proposed ESA change from**
90 **the Existing ESA?**

91 A. The rates and rate structure contemplated in the Proposed ESA result in an estimated
92 annual cost increase to Nucor of approximately [REDACTED] before inclusion of the
93 curtailment credit and surcharges.

94 **Q. Will Nucor be subject to rate changes?**

95 A. Yes. Similar to the Existing ESA, Nucor will be subject to base rate changes, and its
96 retail prices will be uniformly adjusted by the average price change for all Utah retail
97 customers in general and major plant addition rate cases. The Proposed ESA also
98 provides for the base rates to be subject to revisions in the event Nucor’s 36-month
99 historical usage is less than 1,200,000,000 kWh.

100 **Q. What surcharges will Nucor pay under the Proposed ESA?**

101 A. As listed in Article I: Definitions 1.37, Nucor will continue to pay (or receive credit
102 from) the following surcharges:

- 103 • Schedule No. 94 – Energy Balancing Account
- 104 • Schedule No. 98 – REC Revenue Adjustment
- 105 • Schedule No. 91 – Surcharge to Fund Low Income Residential Lifeline
106 Program
- 107 • Schedule No. 196 – Sustainable Transportation and Energy Plan (STEP)
- 108 • Schedule No. 197 – Federal Tax Act Adjustment

109 The Proposed ESA also specifies that Nucor will be subject to other tariffs and
110 schedules made applicable to it by the Commission.

111 **Q. What surcharges will Nucor not be required to pay under the Proposed ESA?**

112 A. As with the Existing ESA, Nucor will not be subject to the demand side management
113 (“DSM”) cost adjustment under Schedule No. 193. This is consistent with other special
114 contracts and Nucor will not be eligible for any associated DSM programs.

115 **Q. Does the Company anticipate that Nucor will be subject to the new Schedule No.
116 198 – Electric Vehicle Infrastructure Program (“EVIP”) Cost Adjustment that
117 was effective January 1, 2022?**

118 A. Yes; the Company anticipates that the Commission’s order will include that the EVIP
119 charge will be applicable to Nucor as the STEP program funded through Schedule 196
120 has concluded.

121 **Q. Why is it in the best interest of all customers for Nucor to have a special contract
122 with a term of approximately 10 years instead of being on a general rate schedule,
123 such as Schedule 9?**

124 A. The proposed special contract structure has higher demand and power costs than the
125 existing general rate schedules, such as Schedule 9, providing better alignment of cost
126 generation and cost recovery. In addition, this rate structure along with the non-standard
127 terms of the Proposed ESA which include commitments by Nucor to remain a full
128 service customer, work to together to significantly reduce the risk of Nucor reducing
129 its service requirements on the Company’s system which could result in higher costs to
130 other customers.

CURTAILMENT TERMS

131

132 **Q. Please describe the curtailment terms in the Existing ESA and the Proposed ESA.**

133 The curtailment terms of the Proposed ESA are similar to the Existing ESA with some
134 notable improvements to the overall flexibility and value to the system. Nucor will
135 continue to interrupt on a [REDACTED]-minute-notice basis, and PacifiCorp may direct such
136 interruption at its sole discretion for any reason. Furthermore, the amount of load
137 available for interruptions remains at 85 MW, for a total of [REDACTED] interruptible hours.
138 While the number of interruptible hours and the amount of load available for
139 interruption remains the same, the parties agreed to modify the split between 60-minute
140 and 15-minute duration interruptions. The Proposed ESA decreases the amount of
141 available 60-minute interruptions from [REDACTED]; conversely, the number of 15-minute
142 interruptions are increased from [REDACTED]. These changes do not alter the total
143 megawatt hours (“MWh”) as provided for in the Existing ESA.

144 **Q. Did the curtailment credit value change in the Proposed ESA when compared to**
145 **the Existing ESA?**

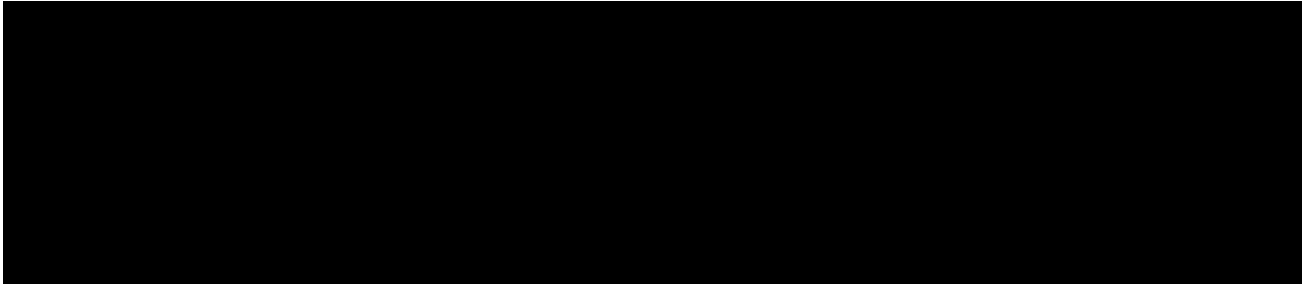
146 A. Yes; the parties agreed to a revised curtailment credit of [REDACTED] per kW-month versus
147 the existing curtailment credit of [REDACTED] per kW-month. The curtailment credit change
148 results in a [REDACTED] annual [REDACTED] of the credit paid to Nucor, amounting to
149 approximately [REDACTED] over the term of the Proposed ESA.

150 **Q. Is the estimated value of the curtailment credit in excess of the estimated cost?**

151 A. Yes. The Company estimates curtailment products to have a levelized value of
152 [REDACTED] per kilowatt-month over the 10-year term of the Proposed ESA, resulting in

153 approximately [REDACTED] of anticipated net present value savings over the contract
154 term.

155 **Confidential Table 3. Curtailment Product Cost Comparison Over 10-year Term**



156 **Q. Please describe how the estimated curtailment credit value was developed.**

157 A. PacifiCorp assessed the value of the curtailment product to be provided under the
158 Proposed ESA by evaluating three separate components: operating reserve value,
159 capacity value, and intra-hour value. In total, the analysis resulted in an estimated
160 curtailment product value of [REDACTED] per kW-month, as shown in Confidential Table 4.

161 **Confidential Table 4. Estimated Curtailment Product Value**

	\$/kW-Month										
	10-Year PVRR	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Operating Reserve Value	[REDACTED]										
Capacity Value	[REDACTED]										
Intra-hour Value	[REDACTED]										
Total	[REDACTED]										

162 **Q. Please describe how the estimated operating reserve value was developed.**

163 A. To evaluate operating reserve value, PacifiCorp sought to calculate: 1) an annual
164 system cost baseline based on PacifiCorp’s 2021 Integrated Resource Plan (“IRP”)
165 preferred portfolio, which assumes the availability of curtailment rights from
166 PacifiCorp’s existing curtailment customers for the entire 20-year study period, and 2)
167 the annual system cost when these curtailment products are removed, while the
168 associated retail load remains on the system. The difference between the calculated

169 annual system costs represents the expected value of the curtailment products,
170 specifically non-spinning and/or regulation reserves. The results of the analysis were
171 then used to estimate yearly \$/kW-month values and calculate the present value for the
172 operating reserves; results shown in Confidential Table 4 above. The estimated
173 levelized operating reserve value, over the 10-year term of the Proposed ESA, and
174 before inclusion of the additional capacity and economic curtailment benefits
175 mentioned above and further discussed below, is [REDACTED] per kW-month.

176 **Q. Did PacifiCorp complete any supplementary analysis?**

177 A. Yes; PacifiCorp completed supplementary analysis to incorporate benefits from the
178 availability of Nucor's curtailment product not captured in the operating reserve value
179 analysis during the out-years of the contract, specifically, capacity value during 2028
180 through 2031 and intra-hour economic curtailment value during 2025 through 2031.

181 **Q. Please describe how the estimated capacity value was developed.**

182 A. Interruptible load capability provides increased reliability by increasing the MW
183 available to meet PacifiCorp's combined load and operating reserve requirements. As
184 referenced in item two above, no incremental resources were added to the 2021 IRP
185 preferred portfolio to make up for the operating reserve capability which was removed.
186 Based on the curtailment restrictions in the Proposed ESA, and the capacity
187 contribution assumptions from the 2021 IRP, the capacity contribution of Nucor's
188 curtailment product is estimated at [REDACTED] of its 85 megawatt-interruptible load.

189 To assign an estimated capacity value of Nucor's curtailment products,
190 PacifiCorp compared the features of the curtailment product with capacity
191 characteristics for an array of resources. PacifiCorp concluded that Nucor's curtailment

192 product contemplated in the Proposed ESA shared characteristics with batteries and
193 non-emitting peaking resources; it has duration limits, like a battery, though it does not
194 need to recharge, and because of the limited annual hour count, it will be deployed
195 infrequently, like a non-emitting peaking resource with a high variable cost. As such,
196 PacifiCorp utilized the non-emitting peaking resource's costs, net of the operating
197 reserve benefits, as a reasonable data point.

198 After adjusting for the relative capacity contribution of Nucor's curtailment
199 product relative to the non-emitting peaking resource, and the avoidance of four years
200 (2028-2031) of non-emitting peaking resource costs, the estimated levelized capacity
201 value for Nucor's curtailment product over the 10-year term of the Proposed ESA is
202 estimated to be [REDACTED] per kW-month, as shown in Confidential Table 4 above.

203 **Q. Please describe how the estimated intra-hour curtailment value was developed.**

204 A. The intra-hour curtailment benefit provided by Nucor's curtailment product was not
205 considered in the operating reserve value or capacity value calculations. To quantify
206 this benefit, PacifiCorp assessed the 100 highest-priced intervals for PacifiCorp's East
207 Balancing Authority Area in the Energy Imbalance Market 15-minute market over the
208 twelve months ending June 2021; the analysis resulted in an average price of
209 [REDACTED]. PacifiCorp then estimated that if the Nucor resource were curtailed by the
210 market during these intervals, the value would be approximately [REDACTED] million per year.

211 To avoid double counting the value of avoiding shortfall conditions, the
212 historical intra-hour curtailment benefits were only added to the extent they exceeded
213 the administrative \$/MWh limits of \$1,000 in the model used to estimate operating
214 reserve values. The resulting levelized incremental intra-hour curtailment benefit over

REDACTED

215 the 10-year term of the Proposed ESA is estimated to be [REDACTED] per kW-month, as shown
216 in Confidential Table 4 above.

217 **Q. Did the Company perform any other analysis to further evaluate and estimate**
218 **curtailment credit value?**


219 A. Yes, similarly to the analysis discussed above, the Company replicated the cost
220 comparison between annual system cost baseline based on the 2021 IRP preferred
221 portfolio and the annual system cost when the curtailment products are removed;
222 however, the Company capped the maximum marginal cost of expected reserve value
223 at \$300/MWh over the 10-year term of the Proposed ESA. This modification reduced
224 the estimated operating reserve from [REDACTED] per kW-month, as described above, to [REDACTED]
225 per kW-month.

226 Likewise, Company replicated the supplementary analysis referenced above to
227 incorporate capacity and intra-hour benefits provided by Nucor’s curtailment product
228 not captured in the reduced operating reserve value analysis. The analysis resulted in a
229 marginal increase to intra-hour value and no change in the previously calculated
230 capacity value. As illustrated in Confidential Table 5, the modified calculations
231 estimated a curtailment product value of \$ [REDACTED] per kW-month.

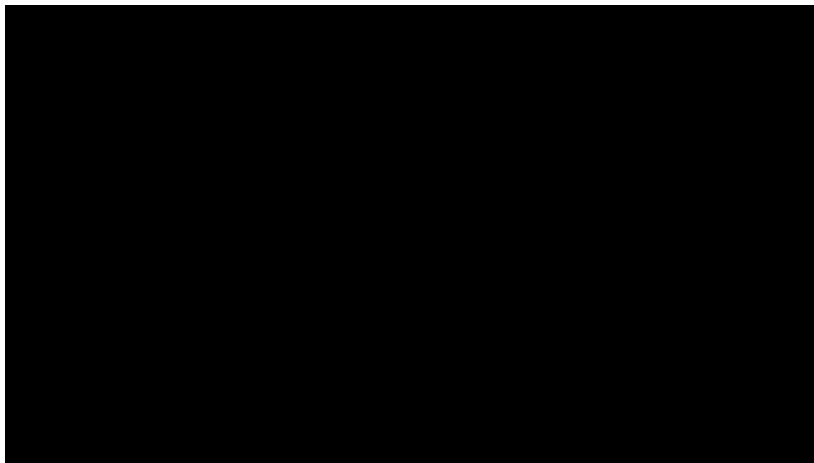
232 **Confidential Table 5. Estimated Curtailment Product Value (\$300 MWh Cap)**

	\$/kW-Month									
10-Year PVRR	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Operating Reserve Value										
Capacity Value										
Intra-hour Value										
Total										

233 **Q. What are the limitations on the curtailment credit adjustments?**

234 A. The Proposed ESA provides a mechanism for adjusting the curtailment credit; however,
235 unlike the Existing ESA which prescribes the curtailment credit be adjusted by the
236 percentage in changes to rates and surcharges, the Proposed ESA stipulates that
237 curtailment credit adjustments will only occur when cumulative changes to rates,
238 because of general rate case changes and major plant additions cases, are more than a
239  increase from the effective date of the Proposed
240 ESA. To identify the appropriate curtailment credit adjustment, PacifiCorp will
241 evaluate the variance between any given rate change to the corresponding
242 compounding percentage threshold as identified in Confidential Table 6 below. In the
243 event the variance is positive, PacifiCorp will increase the curtailment credit by the
244 applicable rate. However, if the variance is zero or negative, the curtailment credit will
245 be reset to the original value. For illustrative purposes, hypothetical adjustments to the
246 curtailment credit based on hypothetical future rate increase amounts are shown in
247 Confidential Table 7.

248 **Confidential Table 6. Cumulative Base Rate Increase Allowance**

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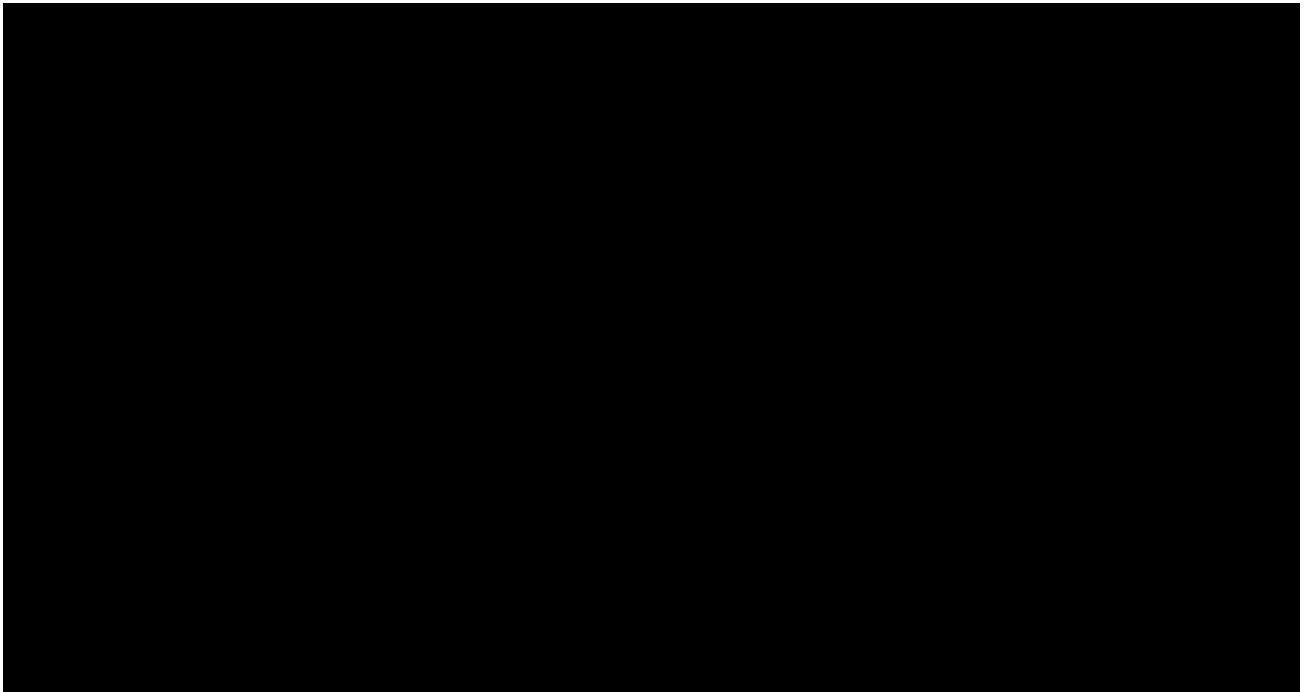
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Confidential Table 7. Illustrative Hypothetical Credit Rate Adjustment Factors



256 **Q. Please explain the reduced allowance for Nucor’s facilities to be non-operational**
257 **and receive the full curtailment credit.**

258 A. Both the Existing ESA and the Proposed ESA contain provisions that outline the
259 reduction of curtailment credit that results from Nucor’s operating conditions during a
260 given billing period. Specifically, the provisions allow PacifiCorp to reduce the
261 curtailment credit to account for the inability to procure Nucor’s curtailment product
262 when Nucor’s plant is not operational. The Proposed ESA refines these provisions to
263 ensure PacifiCorp and Nucor have a common interpretation of what it means to be
264 “down” and to improve the availability of Nucor’s curtailment product.

265 The Proposed ESA defines and clarifies that a non-operational day is classified
266 as [REDACTED]
267 [REDACTED]
268 [REDACTED]. This

269 clarification further improves the applicability of how the curtailment credit adjustment
270 will be calculated.

271 The curtailment credit adjustment provisions in the Proposed ESA utilizes the
272 ratio of non-operational days to the number of days in a calendar month; this is a change
273 from the Existing ESA that calculated the ratio using non-operational hours. [REDACTED]

274 [REDACTED]
275 [REDACTED] before the curtailment credit adjustment provisions were triggered. The
276 Proposed ESA modifies when the curtailment credit adjustments would be applicable;
277 the modifications divided the year into two categories, [REDACTED]

278 [REDACTED] These categories
279 allowed the parties to modify the triggering event for the curtailment credit
280 adjustments. [REDACTED]

281 [REDACTED]
282 [REDACTED], resulting in a [REDACTED] percent decrease in the allowable number of
283 unavailable days.

284 **Q. Will the interruptions under the Proposed ESA for Nucor be treated as a system
285 resource?**

286 A. Interruptions under the Proposed ESA for Nucor will be treated consistent with the
287 Commission approved allocation method. Under the 2020 Protocol allocation method
288 currently used interruptions will be treated as a system resource.

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OBLIGATIONS OF NUCOR

Q. Please explain the full requirements language of the contract and the limitations it places on Nucor regarding self-generation?

A. The Proposed ESA requires Nucor to procure all its full electrical service requirements from PacifiCorp and limits Nucor’s ability to install any electrical generation facilities or enter into power purchasing agreements to offset the service provided by PacifiCorp with limited exception. The Proposed ESA allows Nucor to [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED] As a condition to Nucor’s limited ability to develop behind-the-meter generation, Nucor is required to coordinate its efforts with PacifiCorp and allow PacifiCorp to [REDACTED]

[REDACTED] as an

alternative to further pursuing behind-the-meter renewable generation.

Q. What are the limitations the Proposed ESA places on direct access?

A. Apart from the limitations described above, the Proposed ESA requires Nucor to

[REDACTED]

[REDACTED]

[REDACTED]

308 **PERFORMANCE PARAMETERS FOR PACIFICORP'S SYSTEM**

309 **Q. Please explain the increased performance requirements for flicker in the Proposed**
310 **ESA.**

311 A. To ensure PacifiCorp's customers are not negatively affected by the service to be
312 provided under the Proposed ESA, PacifiCorp required Nucor to agree to various
313 special operational requirements. These requirements are intended to mitigate and
314 minimize voltage flickers which are inherent to Nucor's arc furnace operations. Nucor
315 is required to limit voltage fluctuations by operating its own automatic static var and
316 filter systems to prevent harmonic voltage migrating to PacifiCorp's transmission
317 system. Furthermore, the Proposed ESA requires Nucor to maintain certain Pst flicker
318 ("Flicker") limit samples during two bifurcating term periods: from the effective date
319 of the Proposed ESA through December 31, 2023, Nucor is required to maintain Flicker
320 at or below 1.51; following Nucor's installation and operation of new static var
321 compensator, currently estimated to be installed by January 1, 2024, Nucor is required
322 to maintain Flicker at or below 1.25. Similar to the Existing ESA, the Proposed ESA
323 provides provisions for both companies to operationally cooperate to detect, identify,
324 and resolve Flicker problems should they arise.

325 **Q. How did the maximum contract demand level increase in the Proposed ESA?**

326 A. Similar to the Existing ESA, the contract demand contemplated in the Proposed ESA
327 remains at 110,000 kW during off-peak hours; however, the contract demand during
328 on-peak hours is increased from 92,000 kW to 100,000 kW. Furthermore, the Proposed
329 ESA provides for PacifiCorp to limit the on-peak contract demand to 92,000 kW if
330 unfavorable Flicker conditions exist.

331 Nucor’s future plans may require an increase in contract demand. To
332 accommodate Nucor’s need for additional electric service, the Proposed ESA provides
333 for a contract demand increase, for up to 141,000 kW after adjustment for power factor,
334 upon the completion of two conditions. First, the allowable flicker limit must be
335 reduced to or below 1.25 prior to the increase. Second, PacifiCorp must complete all
336 system upgrades necessary to provide the potential maximum contract demand of
337 141,000 kW.

338 **TIMING OF REGULATORY APPROVAL FILINGS**

339 **Q. Can you please summarize the procedural history of this filing?**

340 A. Yes. The Company commenced discussions with Nucor in March 2021 with the
341 intention of having a new ESA executed in a manner that allowed for a regulatory
342 approval process before the December 31, 2021 expiration of the Existing ESA.
343 Although negotiations were productive, it became apparent that a new ESA would not
344 be reached in time for a timely regulatory filing, so the parties agreed to a contract
345 extension. On December 17, 2021, the Company filed a Courtesy Notice of Intent to
346 File New Contract for Approval and Amendment to Extend Term of Electric Service
347 Agreement between PacifiCorp and Nucor Corporation (“Extension Notice”). The
348 Company and Nucor then finalized the Proposed ESA on February 9, 2022. The
349 Company seeks Commission approval of both the Contract Extension and the Proposed
350 ESA.

351 **Q. Why is it in the public interest for the Commission to approve the Contract**
352 **Extension?**

353 A. The contract was a continuation of the existing terms and conditions that have
354 previously been approved by the Commission and the reserve products remained
355 important system resources for the Company to reliably serve its customers during the
356 two month extension period.

357 **Q. Is the Company requesting an expedited procedural schedule, so the Proposed**
358 **ESA is approved by the March 1, 2022 effective date?**

359 A. No. The Company has typically filed for approval of a contract extension or a new
360 ESA with Nucor with timing that allows for it to be approved by the Commission prior
361 to the effective date of the contract. However, in this case the Company sought
362 improvements to the ESA as previously discussed that provide value to Utah customers
363 and determined that the extra time required to negotiate the improvements offset the
364 less than ideal situation of not having the contract approved prior to the effective date.

365 **Q. What provisions are included in the Proposed ESA to help facilitate a more**
366 **timely regulatory approval filing in the future?**

367 A. The Proposed ESA provides that, prior to its expiration, the parties will commence
368 negotiations by January 31, 2029, for electric service effective January 1, 2032, and
369 beyond. In the event the Parties cannot reach agreement on extension terms by
370 July 1, 2029, either Party may request an order from the Commission specifying the
371 rates, terms and conditions for electric service effective January 1, 2032, and beyond.
372 This pre-determined process should alleviate timing concerns for the next ESA
373 approval.

374 **CONCLUSION**

375 **Q. What is your recommendation for the Commission in this proceeding?**

376 A. The Proposed ESA provides a fair interruption credit to Nucor against the rates it pays
377 PacifiCorp in exchange for providing PacifiCorp with certain interruptible products.
378 The rates for full requirements service that Nucor will pay PacifiCorp are negotiated
379 rates but are consistent with rates applicable to other large industrial customers. The
380 prices, terms and conditions of the Proposed ESA and ESA Extension are just and
381 reasonable and I recommend the Commission approve the contracts.

382 **Q. Does this conclude your direct testimony?**

383 A. Yes.