	ORIGINAL	0000168512	
1	BEFORE THE ARIZONA CO	RPORATION COMMISSION	
2	COMMISSIONERS AZ COR	ET CONTROL	
3	DOUG LITTLE - CHAIRMAN 7016 FEB	23 AM 11 07	
4	BOB STUMP TOM FORESE		
5	ANDY TOBIN		
6			
7	IN THE MATTER OF THE APPLICATION OF UNS ELECTRIC, INC. FOR THE	DOCKET NO. E-04204A-15-0142	
8	ESTABLISHMENT OF JUST AND REASONABLE RATES AND CHARGES		
9	RATE OF RETURN ON THE FAIR VALUE	NOTICE OF FILING SURREBUTTAL TESTIMONY OF DR. JAY	
11	INC. DEVOTED TO ITS OPERATIONS THROUGHOUT THE STATE OF ARIZONA	BEHALF OF NUCOR STEEL	
12	AND FOR RELATED APPROVALS.		
13	Nucor Steel Corporation ("Nucor"), h	ereby provides notice of filing Surrebuttal	
14	Testimony of Dr. Jay Zarnikau on Rate Design, in	the above-referenced matter.	
15	DATED this <u>23</u> day of February, 201	6.	
16		MUNGER CHADWICK, P.L.C.	
17	Arizona Compression damaging		
18	DOCKETED	John TMull	
19	FEB 2 3 2016	Attorneys for Nucor Steel Corporation	
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1	ORIGINAL and 13 copies filed this 23 rd day of February, 2016, with:
2	Docket Control
3	Arizona Corporation Commission
4	Phoenix, Arizona 85007
5	
6	this 23 rd day of February, 2016, to:
7	Dwight Nodes
8	Arizona Corporation Commission
9	Phoenix, Arizona 85007
10	Janice Alward, Chief Counsel
11	Arizona Corporation Commission
12	Phoenix, Arizona 85007
13	Thomas Broderick, Director
14	Arizona Corporation Commission
15	Phoenix, Arizona 85007
16	
17	this 23 rd day of February, 2016, to:
18	Jane Rodda Administrative Law Judge
19	Arizona Corporation Commission
20	Tucson, Arizona 85701
21	Bradley S. Carroll
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1	BEFORE THE ARIZONA CORPORATION COMMISSION			
2				
3	<u>COMMISSIONERS</u>			
4	SUSAN BITTER SMITH – CHAIRMAN			
5	BOB STUMP			
6	BOB BURNS			
7	DOUG LITTLE			
8	TOM FORESE			
9				
10	IN THE MATTER OF THE APPLICATION OF)	DOCKET NO. E-04204A-15-0142	
11	UNS ELECTRIC, INC. FOR THE)		
12	ESTABLISHMENT OF JUST AND)		
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17	DEVOTED TO ITS OPERATIONS)		
18	THROUGHOUT THE STATE OF ARIZONA)		
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22	SURREBUTTAL T	EST	IMONY OF	
23	DR. JAY ZARNIKAU ON RATE DESIGN			
24	ON BEHALF OF N	IUC	OR STEEL	
25			3016	
25	FEDRUARI	<i>LL</i> ,	2010	
20				

1 2		I. <u>INTRODUCTION</u>
3 4	Q.	Please state your name and business address.
5	A.	My name is Jay Zarnikau. My business address is 1515 Capital of Texas Hwy, South,
6		Suite 110, Austin, Texas, 78746.
7		
8	Q.	Are you the same witness who previously filed direct testimony in this proceeding on
9		behalf of Nucor Steel-Kingman?
10	А.	Yes, I am.
11		
12	Q.	Please state the purpose of your surrebuttal testimony.
13	A.	This testimony responds to the rebuttal testimony of Mr. Craig Jones, appearing on behalf
14		of UNS Electric, and the direct testimony of Mr. Howard Solganick, appearing on behalf
15		of the Staff of the Arizona Corporation Commission ("Staff").
16		
17		II. RESPONSE TO THE REBUTTAL TESTIMONY OF MR. CRAIG JONES
18		
19	Q.	Please summarize your concerns regarding the rebuttal testimony provided by Mr.
20		Craig Jones on behalf of UNS Electric.
21	A.	While it appears as though we are now in agreement that the "differential" in the time-of-
22		use energy charges between on and off-peak periods should remain the same as agreed to
23		in the previous rate case, I continue to have the following concerns:

1		• We continue to disagree over the design of the demand charge applicable to industrial
2		energy consumers.
3		• We continue to disagree over the value and benefits to UNS Electric of interrupting
4		large industrial energy consumers during off-peak periods.
5		• Mr. Jones has failed to clarify the proposed minimum load factor requirement in the
6		proposed Economic Development Rate (EDR).
7		
8	Q.	On page 32 of his rebuttal testimony, Mr. Jones states:
9		"Demand rates should be a combination of costs being recovered based on the
10		system's non-coincident peak and its coincident peak depending on the cost.
11		Further review of how these costs should be recovered may justify more costs
12		being allocated to the off-peak period instead of less as NUCOR proposes,
13		especially for the largest TOU rate class. Since the current differential was agreed
14		to in the last rate case, the Company believes its current design is appropriate and
15		is willing to leave the differential as it is in current rates for purposes of this rate
16		case."
17		Do you agree with this statement?
18	A.	No. This statement appears to confuse two separate and unrelated issues raised in my
19		direct testimony. One issue is the design of the demand charge applicable to LPS (and
20		LPS-TOU) customers. The second issue is the difference between the energy charges
21		applicable to on and off-peak periods under the LPS-TOU tariff.
22		Indeed, the "differential" that was agreed to among the parties in the previous rate
23		case involved the time-of-use energy charge, and had nothing to do with the demand

charge. I am unaware of any "differential" in the demand charge applicable to LPS and/or LPS-TOU customers. Specifically, the issue in the previous rate case involving a "differential" pertained to how high the level of the on-peak energy charge should be set relative to the level of the off-peak energy charge.

Q. How do you interpret Mr. Jones's statement that "Demand rates should be a combination of costs being recovered based on the system's non-coincident peak and its coincident peak...."

A. Mr. Jones's response seems to advocate two demand charges – one to recover costs which are incurred to meet the (coincident) system peak and another to meet the (non-coincident) peak associated with the customer's demand. I am not necessarily opposed to this proposal. However, this is not consistent with the tariff proposed by UNS Electric. UNS Electric has proposed a single demand charge, based solely on the customer's non-coincident peak. Nucor would be willing to consider the application of two demand charges – one based on the coincident peak and one based on the class non-coincident peak – as UNS has now suggested. However, UNS Electric has provided no calculations to support this new proposal.

To me, the question before the Commission is clear. Absent a more straightforward proposal to establish *both* coincident and non-coincident demand charges, the question is: Should the demand charge be based upon a customer's contribution to system peak, or should it be based on the customer's highest demand? I recommend that it be based on the customer's demand at the time of the utility's system peak, and have

advocated that a four coincident peak (4CP) or a Top 20 hours metric be used to approximate a customer's contribution to the UNS Electric system peak.

How is this approach different from what UNS Electric has proposed? Q.

A. The tariff proposed by UNS Electric uses the customer's highest demand during the peak period or half of the customer's demand during an off-peak period (whichever is greater), along with some other complications (a ratchet and the possibility of using a "contract capacity" value or a simple 500 kW minimum value). If UNS Electric stands by its testimony that system demand largely drives the need for generating capacity, then the demand charge should be based upon the customer's contribution to the system peak. As stated once again by Mr. Jones on p. 35 of his Rebuttal testimony:

"As NUCOR's witness states and as Company rebuttal witness Mr. Overcast states, the generation and transmission costs should be based on the capacity needs the customer contributes to the system peak."

I agree with this statement by Mr. Jones and this is precisely what I have proposed. In contrast, Mr. Jones has proposed that the demand charge be based upon the customer's highest demand during the on-peak period or one-half of the customer's highest demand during the off-peak period, or a "contract capacity" value, or a simple 500 kW minimum value. These values do not measure the customer's contribution to the system peak demand, as I have demonstrated in my direct testimony.

How does the NARUC Electric Utility Cost Allocation Manual cited by Mr. Jones Q. define coincident peak demand?

A.

P. 41 of the manual states: "The customer's demand at the time of the system peak is that customer's "coincident" peak."

Please explain why the customer's highest demand during the on-peak period or Q. one-half of the customer's highest demand during the off-peak period fails to measure coincident peak - the customer's contribution to the utility's system peak. A. Consider a very simple example. To keep this simple, let's pretend that a year had only one day (rather than 365 or 366). Alternatively, we could assume that a customer reached its noncoincident peak and the utility serving the customer reached its system peak on the same day, so that the other days of the year could be safely ignored. I have plotted the demand for a hypothetical utility and the hypothetical (very large) customer over a 24 hour period on the graph below. In this example, the utility reaches its system peak of 2,500 MW at the hour ending 18:00 (6 p.m.). The customer's contribution to that peak -i.e., the customer's coincident peak -is 1,350 MW. The customer's noncoincident peak is 2,300 MW in this example. But, because the customer's noncoincident peak occurs during the hour ending 8 a.m., it is a very poor measure of how the customer affects the utility's need for generation and transmission capacity. The utility invests in generation and transmission capacity to meet the system's demand for the peak or hour with the maximum demand value, which ends at 6 p.m. not a morning hour when the system load is relatively low.¹

¹ Distribution facilities may need to be designed and acquired to meet the customer's maximum (noncoincident) demand – but not generation and transmission capacity.



Moreover, the customer's highest demand during the off-peak period (which is the hour ending 8 a.m.), clearly does not drive the utility's need to obtain capacity. To take this measurement, and divide it by half to assign a demand charge to the customer (as UNS Electric does currently and proposes to do going forward) is completely arbitrary. For this reason, I suggest that demand charges (at least for the LPS and LPS-TOU customers) be based upon the customer's coincident peak.

My recommended approach is consistent with the numerous statements pertaining to cost causation made by the utility in this, and previous, rate proceedings. I would further note that my concerns about the calculation of demand charges are similar to those raised in the direct testimony of Mr. Kent Simer on behalf of the Fresh Produce Association of the Americas.

5Q.Did the Company explain why it initially proposed to reduce the differential6between on-peak and off-peak energy prices in the LPS-TOU tariff?

A. No. On p. 32 of his rebuttal testimony, Mr. Jones states:

"The Company does not currently incur a substantial difference in the marginal cost of energy purchased on peak, versus off-peak. Therefore, the Company believes its proposed differential between on- and off-peak fuel prices is appropriate. In fact, the actual difference in marginal costs associated with the onand off-peak period may justify a smaller differential. But for purposes of this case, the Company is willing to leave the differential as proposed in the Company's direct rate case."

My testimony in the last rate case demonstrated that the differential in marginal energy cost is "significant," at least in my opinion. If, as Mr. Jones suggests, there is no significant differential in costs, then why is the Company proposing to increase the onpeak/off-peak differential for the LGS-TOU tariff? And why would they introduce a new TOU rate for schools in this proceeding? Further, even if there were no significant differences between marginal energy costs between on- and off-peak periods, TOU rates serve several other purposes as well. For example, the costs associated with transmission and generating capacity may be reduced if consumers are encouraged to shift consumption to off-peak periods.

17 Nonetheless, while I am concerned about some of Mr. Jones's reasoning, it now appears we are in agreement that the differential between on-peak and off-peak energy 18 charges in the LPS-TOU tariff should not be reduced, if I am correctly interpreting page 19 20 32 of his Rebuttal testimony. Indeed, the differential between on- and off-peak energy charges should remain the same as it is in the current LPS-TOU tariff.

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Q. Do you agree with Mr. Jones' explanation of the new Interruptible Rider?

	8	
1	A. No	b. While I understand the reasons why the Company feels compelled to create the new
2	Int	erruptible Rider, the new rider is too narrowly designed.
3	Ia	gree with the following statements on pages 32-33 of Mr. Jones's Rebuttal testimony:
4		"The interruptible rate has not provided benefit to the system or other rate payers
5		in the last few years and the capacity needs of the Company do not justify
6		offering any discount for the interruptible service currently being provided. The
7		Company has proposed a new Interruptible Rider and proposed to freeze the
8		current IPS rate. Staff has agreed to this proposal."
9	Но	owever, I disagree with the following statement on page 33:
10		"Without a need to interrupt during the peak load timeframe, the Company does
11		not see any value in creating a special deal that allows for a discount if the
12		customer can interrupt during the off-peak period."
13	To	be clear, in my previous testimony, I was not proposing any "special deals." Rather,
14	the	e Interruptible Rider does not appear to recognize that there is value in having loads
15	tha	at may be interrupted during off-peak periods, and therefore the Rider should be opened
16	to	off-peak loads.
17		Many of the most severe reliability problems that electricity grids have faced in
18	rec	cent years have started in, or extended into, off-peak periods. The Northeast blackout
19	of	2003 started on a Thursday afternoon and lasted two days - thus encompassing periods
20	wł	nich would be considered "off-peak" under the tariffs of UNS Electric. Many of the
21	rel	liability problems faced by the Electric Reliability Council of Texas (ERCOT) have
22	oc	curred during periods of relatively low demand, when generating units failed or
23	ge	neration from wind farms fell below projections.

1		Having a properly designed interruptible tariff can reduce costs for all ratepayers.
		My recommendation is simply to make the tariff useful during all periods not just the on-
2		My recommendation is simply to make the tarm disertir during an periods, not just are on
3		peak period, in order to plan for a wider variety of contingencies. It is not reasonable for
4		the utility to assume that it will never experience a need for a resource during off-peak
5		periods in order to maintain system reliability.
6		
7	Q.	Did the Company's Rebuttal clarify the applicability of the Economic Development
8		Rate (EDR)?
9	A.	No. On p. 33 of his rebuttal testimony, Mr. Jones states:
10		"NUCOR wants the load factor associated with the EDR to be calculated based on
11		the customer's billing demand and monthly usage. The Company's proposal
12		simply states the customer must have a load factor of greater than 75% to qualify.
13		The Company proposed this provision to encourage only the customers with the
14		highest load factor to participate. Changing the parameters in the tariff may result
15		in less efficient use of the system and may result in capacity issues. Therefore the
16		Company does not believe that any changes to the proposed tariff are necessary or
17		appropriate."
18		Contrary to Mr. Jones's assertion, I am not opposed to limiting the EDR to customers
19		with high load factors. However, the calculation of "minimum load factor" in the EDR
20		tariff is not clear. In order for an EDR tariff to be valuable, the terms must be absolutely
21		clear to current and potential customers. I suggest that the requirements be clarified to
22		reduce any future confusion.

The load factor of a customer over some period of time may be calculated in the following manner:

Load Factor = (Customer's Energy Consumption (kWh)/ Hours in the Period) / Customer's Peak Demand (kW)

In the EDR tariff proposed by the utility, it is not clear which measure of the Customer's Peak Demand should be used in the formula. For an LPS or LPS-TOU customer, for example, the options for measuring demand might include the customer's highest demand during a peak period, the customer's highest demand during an off-peak period, the customer's contribution to the monthly or annual system peak, the contract capacity value mentioned in part 4 of the Billing Demand section of the tariff, or the 500 MW minimum demand also mentioned in part 4 of the Billing Demand section of the tariff.

It is also unclear how the requirement that load factors be calculated for "the highest 4 coincident-peak months in a rolling 12-month period" would be implemented. Does this suggest that the average of the load factors for four summer months would need to exceed 75%? Or would the customer's load factor in each of four months need to exceed 75%? Which months are "coincident-peak months"? How will this calculation "roll"? Would a calculation made in the middle of 2017 include values from the later summer months of 2016?

To determine whether expansion of an existing facility might qualify for the proposed EDR tariff, would both the existing load and the load of the proposed expansion be considered in the calculation of the load factor? Or would this calculation merely consider the proposed expansion?

It seems appropriate that the value for "Customer's Peak Demand" used in the load factor calculation should be the same demand value which is used as the basis for the demand charge. I presume that this is the measurement that UNS Electric intends to use in this calculation. This is a value that appears on the customer's bill, and thus is transparent and known to both the utility and the customer. When an existing facility is expanded, I presume that this load factor calculation would need to include both existing load and the load associated with the proposed expansion. Unless the new operations associated with the expansion were separately metered, it would be difficult to calculate the load factor associated with the expansion alone. I recommend that, at a minimum, the utility provide a further explanation or sample calculations for "the highest 4 coincident-peak months in a rolling 12-month period" feature of the formula within the tariff.

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In summary, I am not challenging the utility's proposal to limit Rider EDR to customer with high load factors. I am merely recommending that the load factor calculation be described better to reduce any later confusion. The present wording is extremely unclear.

19 Q. Do you agree with Mr. Jones' characterization of Nucor and other Intervenors in 20 the rate case as expressing "special interests?"

21 A. No. On page 34 of his rebuttal testimony, Mr. Jones states:

"As that evidence is considered, some thought must be given to the specific parties who express a special interest. This includes the low income customers,

solar providers, specific customers such as NUCOR, WalMart, the Fresh Produce customers, and other groups like SWEEP and WRA. All of these groups want the general rate design and cost recovery allocation to benefit their individual interests."

Nucor's interest in this general rate case, as it was in the previous rate case, is in the establishment of just and reasonable rates for UNS Electric customers. The Company's own Cost of Service Study indicates that Nucor and other large customers are currently subsidizing other rate classes. And I have demonstrated through testimony that the Company's policies and pricing do not reflect the cost allocation principles outlined by Company witnesses.

As I explained in my previous testimony, electricity is one of the highest variable input costs in steel production. Nucor has operated a rolling mill in Kingman since 2008, and has sought to reduce costs wherever possible to maintain profitability. However, Nucor is not a monopoly, and the price of steel is not set by a Commission. Rather, steel prices are the product of a highly competitive global commodities market, where steel producers in Mexico, China, Turkey, and other countries put near-constant price pressure on American steel mills like Nucor.

Nucor's rolling mill is an essential component in Kingman's economy – an economy that was hit particularly hard by the bankruptcy of the Mineral Park Mine and the loss of hundreds of jobs a few years ago. As UNS Electric acknowledges on page 3 of its Application, an 8% drop in retail sales is due, in large part, to the loss of Mineral Park, UNS Electric's previously largest customer. The loss of large industrial loads affects not only the cities close to industrial customers, but ultimately all UNS Electric

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customers. It is therefore critical that the rate design applied to large industrial customers 1 - and all customers, for that matter – reflect sound ratemaking principles. Each of 2 Nucor's recommendations above would provide a more accurate and more consistent rate 3 4 design for industrial customers. 5 6 Q. On page 35 of his rebuttal testimony, Mr. Jones states: "NUCOR is the only customer in the TOU class and is currently the Company's 7 8 largest consumer. Therefore the Company is of the opinion that its allocation of 9 demand related costs is reasonable and any change to how it is recovered would not change the total cost allocated to that class, only how that TOU customer 10 would pay the same total amount. Therefore no change in how demand charges 11 12 are recovered is warranted." 13 Is Nucor indeed challenging the class cost allocation proposed by UNS Electric? No. Nucor has not taken issue with allocation of demand-related costs to various 14 Α. 15 customer classes proposed by UNS. 16 It is my understanding that the LPS rate class includes LPS-TOU customers, and 17 that there would be four LPS customers (including Nucor) if the utility's proposal to 18 move a number of customers presently within the LPS class to the LGS rate class is adopted. My recommendation does not impact the total costs to be collected from the 19 20 LPS customer class. However, it may impact the revenues collected from each of the 21 four customers within that class. That is, revenues would be collected from the LPS class (including LPS-TOU customers) in a more equitable manner, consistent with the cost 22 causation theories endorsed by the utility. 23

While we have not objected to the allocation of demand-related cost to various customer classes proposed by UNS Electric, we have objected to the utility's proposed design of the demand charge. We strongly believe that it is inconsistent with the theories of "cost causation" advanced by UNS. My direct testimony is designed to resolve these inconsistencies.

RESPONSE TO THE DIRECT TESTIMONY OF STAFF WITNESS MR. III. **HOWARD SOLGANICK**

Q. Please state your primary concern regarding the direct testimony of Mr. Solganick.

Α. The analysis provided by the utility in this proceeding concludes that the LPS rate class (including LPS-TOU customers) should be assigned no rate increase in this proceeding. Nonetheless, Mr. Solganick recommends that all customer classes should receive a rate increase. His testimony on page 22, line 23-24 states:

"There should be a lower bound of 50 percent for any class' increase compared to the overall increase."

Apparently, he would like to see all classes "share the pain" of the rate increase,

irrespective of whether that class is already subsidizing other rate classes. Yet, imposing

a rate increase on the LPS class would contradict his first proposed "principle."

20

Q. What is this principle?

The first principle identified by Mr. Solganick for the purpose of allocating revenue 22 Α. 23 requirements among rate classes is:

1		"The individual rate classes should be gradually moved toward an UROR of
2		1.000 over one or more rate cases depending on the frequency of rate cases and
3		the distance of the class' UROR from 1.000."
4		
5	Q.	What is the UROR?
6	A.	Mr. Solganick defines the UROR or Unitized Rate of Return as the class return divided
7		by the Company return. Thus, a value above 1 would suggest that the rate of return from
8		a class is greater than the Company's anticipated overall rate of return.
9		
10	Q.	Why would Mr. Solganick's recommendation to impose a rate increase on the LPS
11		class violate his first principle?
12	A.	Mr. Solganick's recommendation would move LPS rates in the wrong direction. The
13		utility's analysis suggests that this class deserves a decrease in rates, not a rate increase.
14		For example, Mr. Jones' Direct testimony (p. 25, line 15) suggests that UNS Electric is
15		presently earning a return of 27.95% from this class at present rates using an Average &
16		Excess cost allocation. Thus, LPS rates should be reduced if the goal is to gradually
17		move each class to a UROR of 1.000 as recommended by Mr. Solganick.
18		The calculations within the boxed area of Mr. Solganick's Exhibit HS-4 suggest
19		that his recommendation would raise the UROR for the LPS class to a whopping 5.29!
20		That is, the utility would earn a 36.62% Rate of Return on Rate Base from LPS
21		customers, which is 5.29 times the utility's overall rate of return. ² The figure below

² Technically, the UROR for the LPS class would indeed decline under Mr. Solganick's recommendation, from a UROR of 12 (=27.95/2.31) to 5.29 (=36.62/6.92). However, this is not a reasonable comparison because the utility's present return at present rates is low because UNS Electric's actual rate of return is low. The percentage

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graphically compares Mr. Solganick's recommended class rates of returns, based on the boxed area within his Exhibit HS-4. The bars in this graph indicate the rate of return which would be received by the utility from each class, under Mr. Solganick's recommendations. The rate of return received by the utility from the LPS class would be over 64 times higher than the rate of return from serving the Residential Service class.³ The rate of return for serving LPS customers would be nearly 18 times higher than the return earned from serving Small General Service customers.⁴



Q. How do you recommend that this inequity be resolved?

A. Although the original proposal by UNS Electric for a small decrease in LPS rates would

result in a continuation of a situation whereby LPS customers were subsidizing customer

rate of return earned by the utility from serving the LPS class would increase considerably under Mr. Solganick's recommendation.

³ That is, the utility would receive a rate of return of 36.62% from LPS customers, as opposed to a 0.57% rate of return from Residential Service customers.

⁴ That is, the utility would receive a rate of return of 36.62% from LPS customers, as opposed to a 2.07% rate of return from Small General Service customers.

in other classes, Nucor can agree to it, provided there is a commitment to reducing such subsidies in subsequent rate cases.

4 Q. Does this conclude your surrebuttal testimony?

5 A. Yes, it does.

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