FILED June 17, 2019 INDIANA UTILITY REGULATORY COMMISSION

STATE OF INDIANA

INDIANA UTILITY REGULATORY COMMISSION

PETITION OF NORTHERN INDIANA PUBLIC)	
SERVICE COMPANY LLC PURSUANT TO IND.)	
CODE §§ 8-1-42.7,8-1-2-61 AND IND. CODE § 8-1-2.5-6)	
FOR (1) AUTHORITY TO MODIFY ITS RATES AND)	
CHARGES FOR ELECTRIC UTILITY SERVICE)	
THROUGH A PHASE IN OF RATES; (2) APPROVAL)	
OF NEW SCHEDULES OF RATES AND CHARGES,)	
GENERAL RULES AND REGULATIONS, AND)	CAUSE NO. 45159
RIDERS; (3) APPROVAL OF REVISED COMMON)	
AND ELECTRIC DEPRECIATION RATES)	
APPLICABLE TO ITS ELECTRIC PLANT IN)	
SERVICE; (4) APPROVAL OF NECESSARY AND)	
APPROPRIATE ACCOUNTING RELIEF; AND (5))	
APPROVAL OF A NEW SERVICE STRUCTURE FOR)	
INDUSTRIAL RATES.)	

INDIANA OFFICE OF UTILITY CONSUMER COUNSELOR

REDACTED TESTIMONY OF

PETER M. BOERGER, PH.D. - PUBLIC'S EXHIBIT NO. 1-S2

JUNE 17, 2019

Respectfully submitted,

Randall C. Helmen Attorney No. 8275-49

Chief Deputy Consumer Counselor

TESTIMONY OF OUCC WITNESS PETER M. BOERGER, PH.D. IN RESPONSE TO STIPULATION AND SETTLEMENT AGREEMENT ON RATE 831 IMPLEMENTATION CAUSE NO. 45159 NORTHERN INDIANA PUBLIC SERVICE COMPANY LLC

I. <u>INTRODUCTION</u>

1	Q:	Please state your name, business address, and employment capacity.
2	A:	My name is Peter M. Boerger, and my business address is 115 West Washington
3		St., Suite 1500 South, Indianapolis, Indiana 46204. I am employed by the Indiana
4		Office of Utility Consumer Counselor ("OUCC") as a senior economist, with the
5		official job title of Senior Utility Analyst, in the Electric Division.
6	Q:	Are you the same Peter M. Boerger who pre-filed testimony in this case?
7	A:	Yes.
8	Q:	What is the purpose of your additional testimony?
9	A:	The purpose of my testimony is to respond to the Stipulation and Settlement
10		Agreement on Rate 831 Implementation ("S2 Settlement") filed by Northern
11		Indiana Public Service Company LLC ("NIPSCO"), NLMK Indiana, NIPSCO
12		Industrial Group and United States Steel Corporation ("US Steel") ("S2 Parties")
13		with the Indiana Utility Regulatory Commission ("Commission") on May 17, 2019.
14		I also respond to testimony filed in support of the S2 Settlement, relating to issues
15		pertaining to the Rate 831 proposal filed in NIPSCO's case-in-chief.

-

¹ I refer to this as the "S2 Settlement" to distinguish it from the revenue requirements settlement. NIPSCO, in its testimony supporting the settlements, refers to the revenue requirements settlement with the designation of "S1" and this separate settlement pertaining to its proposed Rate 831 with the designation of "S2."

- 1 Q: Have you reviewed the documents filed by the S2 Parties?
- 2 A: Yes. I have also reviewed answers provided by NIPSCO in response to OUCC
- 3 discovery questions.

II. S2 SETTLEMENT ISSUES

- 4 Q: What is the substance of the S2 Settlement?
- Aside from relatively minor tariff changes, the proposed S2 Settlement presents a number of substantive changes to the Rate 831 Proposal originally included in NIPSCO's case-in-chief. These changes include:
 - 1) S2 Parties commit to the same cost allocation to the 831 rate class (based upon the 194.556² MW of firm demand) assumed by NIPSCO in its original proposal. Along with this overall commitment, each individual 831 customer commits in this agreement to take a specified amount of firm capacity. While these individual commitments do not add up to 194.556 MW, the customers agree in this settlement to have rates designed to recover costs from Rate 831 customers as though they had committed to that amount;
 - 2) The S2 Settlement is designed in such a way that the 831 customers' commitments to take firm load are predicated on the use of a 4CP cost allocation

_

8

9

10

11

12

13

14

15

16

² While NIPSCO had originally had used approximately 184 MW in its proposal, the addition of a sixth 831 customer after NIPSCO filed that testimony raised the amount to 194.556 MW.

- 1 method—the cost allocation method that NIPSCO proposed and Rate 831
 2 customers supported in this case; and
- 3) Acceptance of the S2 Settlement also requires the Commission to approve a
 4 material change to the Adjacent Affiliate Qualifying Facility Premise
 5 Transmission Charge ("AAQFPTC") which, for certain customers, would allow
 6 their AAQFPTC to be based on a "netting" of self-generated energy and
 7 metered consumption.³

8 Q: Do these provisions appear to provide a reasonable resolution of issues pertaining to Rate 831?

No. Of most importance, the S2 Settlement does not address, even in part, the cost shift from Rate 831 customers to other rate classes—calculated by NIPSCO and reported in my direct testimony as \$40.2 million. As such, the S2 Parties are not proposing to share in NIPSCO's legacy costs incurred on their behalf for load that will be served under Tiers 2 and 3 of Rate 831. A reasonable resolution of the Rate 831 issue should have these customers pay all, or at least a significant share, of the legacy cost burden directly related to their abrupt departure from the system that all other customer classes will pay.

-

10

11

12

13

14

15

16

17

A:

³ See pages 14 and 15 of Attachment 19-S2-A.

- 1 Q: Do the S2 Parties provide any justification for ignoring this cost shift in the settlement?
- A: No, not in their settlement testimony. However, the settlement agreement itself refers to the settling parties having filed testimony supporting an allocation
- 5 methodology that is "preserving a sizable subsidy for customers on Rate 811."⁴
- 6 Q: Is it clear that customers on Rate 811 have received sizable subsidies?
- 7 A: No. Rate 811 customers have benefited from mitigation, but "mitigation" does not necessarily imply "subsidy."
- 9 Q: What is "mitigation" and how does it relate to the concept of "subsidy"?
 - A: "Mitigation" is a methodology used to change the amount of revenue requirement allocated to rate classes from the amounts that were determined under a specific cost allocation methodology (e.g. 4CP, 12CP, Peak and Average). For a given set of approved rates, the amount of "mitigation" approved will vary with the cost allocation method used. The word "subsidy" is usually intended to imply that a customer class is receiving a reduction in revenue requirement that is "undeserved"—in that it does not reflect a "true" reflection of cost incurrence. If a "subsidy" has been implemented, then it will likely have been implemented through some kind of mitigation; but the fact that a mitigation of revenue has been

_

10

11

12

13

14

15

16

17

18

⁴ Page 2 of "Stipulation and Settlement Agreement on Rate 831 Implementation."

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

A:

implemented in a rate design does not necessarily imply that a subsidy has been provided, as I will next explain.

Q: Why does "mitigation" not necessarily imply "subsidy"?

The rate of return earned from a customer class at established rates depends on the cost allocation methodology chosen. As I describe in more detail below, a cost allocation methodology different from the one chosen by NIPSCO (and supported by other S2 Parties) is more reasonable and fair to all rate classes. Using one of the OUCC's preferred methodologies would reduce the size of the "subsidy" that the S2 Parties seek to highlight. But even the methodologies preferred by the OUCC do not reflect the unique aspects of Rate 831 customers that cause the costs fairly allocable to those customers to be higher than standard cost allocation models include, as explained well by Bonbright.

Bonbright, in his chapter on fully distributed costs, identifies how largescale industrial power customers impose risks to the utility that should be reflected in its cost of service. In discussing the risks of load volatility from such large customers, Bonbright says:

In consequence, the rates of charge for service rendered to a gigantic user of power, regardless of the formula used in the determination of his annual demand charges, may well result in less than barely compensatory rates when measured in the light of hindsight. If based on advance estimates of cost of service these rates should therefore incorporate an appropriate allowance for the risk factor – for a risk factor well in excess of that which would be appropriate in an estimate of the cost of supplying the more stable residential service.⁵

Bonbright indicates in this passage that the kind of large customers serviced under NIPSCO's Rate 831 impose risks that should reasonably be accounted for in determining their cost of service. However, that risk has not been accounted for in the cost of service methodology presented by NIPSCO in this rate case or in its previous rate cases. I am not criticizing NIPSCO for not including such risk, because the OUCC's preferred methodologies also do not incorporate such risk in allocating costs—including such risk in standard methodology is difficult and, therefore, is not standard practice. However, the practical difficulty of including consideration for this kind of risk does not make the effect of that risk any less real. If such consideration were included, the cost of service for Rate 831 customers would be higher than calculated by those standard models, resulting in lower cost allocations to other rate classes. Thus, in the absence of accounting for such risk, one cannot reasonably conclude, as the S2 Parties have in this case, that the

⁵ Bonbright, James C., Albert L. Danielsen and David R. Kamerschen. *Principles of Public Utility Rates*, Second Edition. Arlington, VA: Public Utilities Report, Inc., 1988, pages 508 and 509.

1		"mitigation" allocated to some rate classes in this case or in previous rate cases
2		necessarily represents a "subsidy" for those rate classes.
3 4 5	Q:	Does NIPSCO recognize the risks related to serving its large industrial customers that could reasonably be considered in determining their cost of service?
6	A:	Yes. In response to an OUCC data request seeking to understand NIPSCO's view
7		of the benefits resulting from the elimination of its obligation to serve Tiers 2 and
8		3 load, NIPSCO responded:
9 10 11 12 13		" the industrial load is more volatile and at times can cause fluctuations in rates as production increases and decreases, as was evident in NIPSCO's 2008 electric rate case and evident in this case, which was predicated, in large part on the loss of over 100 MWs of firm load from one large industrial customer. ⁶
14		This admission supports the idea that Rate 831 customers are the kind of customers
15		that Bonbright refers to in the passage quoted above and that the cost to serve these
16		customers is higher than would be calculated in the kinds of standard cost of service
17		models presented in this case.
18 19	Q:	Are there other reasons why the S2 Settlement presented by the S2 Parties is not a reasonable resolution of the issues pertaining to Rate 831?
20	A:	Yes. The S2 Settlement would have the Commission approve a cost allocation
21		methodology (4 CP) which has not previously been approved for NIPSCO. As
22		addressed by OUCC witness Glenn Watkins in his direct testimony, the base-load-
23		heavy set of production resources currently employed by NIPSCO would not have
24		been built were it not for the large, high-load-factor customers on NIPSCO's

⁶ Response to OUCC DR 5-13(b).

2

3

4

5

6

7

8

9

10

11

12 13

14

15

16

17

18

19

20

21

system. Based largely on that understanding, Mr. Watkins found that three methods (Base-Intermediate-Peak, Peak & Average and 12-CP) "more closely reflect the manner in which NIPSCO has planned, built, and utilizes its generation resources and therefore, more closely correlates to cost causation "7 Mr. Watkins identified in his testimony the increased cost burden that should be borne by Rate 831 customers beyond NIPSCO's proposal and reflected in this settlement ranges from \$13 million to almost \$24 million. 8 Combining this shift in cost burden with the \$40.2 million cost shift resulting from the creation of Rate 831 would imply a total cost shift from Rate 831 to other rate classes in the range of \$53 million to \$64 million. Q: In his S2 Settlement testimony, US Steel witness Tony M. Georgis presents details of a cogeneration plant that US Steel recently considered building. Would building that plant impose a large cost burden on NIPSCO (and ultimately its customers) in the event that US Steel found the Commission's resolution of issues in this case to be unsatisfactory? A: No. Confidential Exhibit C filed with the S2 Settlement shows that US Steel commits to take only MW above the Rate 831 minimum of 10 MW. While losing MW of load would cause some additional cost shift to other customers in NIPSCO's next base rate case, the effect would be modest in the context of a utility with a peak load of around 3,000 MW and compared to the effect from the recent

changes involving BP Products North America, Inc. ("BP").

⁷ Public's Exhibit No. 9, Page 35.

⁸ See pages 28 through 34 of Public's Exhibit No. 9 in this Cause.

⁹ Cause No. 45071.

2

17

18

19

Q: Does there appear to be a misapprehension of the risks to US Steel in the event the Commission rejects the Rate 831 proposal?

3 Yes. On page 5 of his S2 Settlement testimony, Mr. Georgis states that in the event A: of rejection of Rate 831, US Steel's "... annual energy costs would also be far 4 5 higher than the status quo due to the loss of BP's load occasioned by BP's decision to serve itself with its Whiting Clean Energy Facility." The reality is that the loss 6 7 of BP's load has already been reflected in NIPSCO's cost allocation to Rate 831 in 8 this Cause. As a result, the cost burden will be shared by other rate classes in the 9 event the current rate design for industrial customers is maintained. Assuming 10 those industrial customers received the same across-the-board rate increase that all 11 other rate classes are receiving in this case, the rate increase for US Steel would be only 3.25%. 10 While the OUCC does not wish to see any customer's rates increase, 12 13 and especially not one as important to Indiana's economy as US Steel, it appears 14 that Mr. Georgis' analysis may not have reflected the fact that BP's decreased load 15 was incorporated into NIPSCO's load forecast as part of its original cost of service 16 study in this case.

Q: In addition to the \$53 to \$64 million cost shift from the Rate 831 rate class to other rate classes built into the S2 Settlement, is there another significant reason to reject the settlement?

20 A: Yes. Mr. Georgis' testimony regarding US Steel's potential to build additional 21 cogeneration capacity is a reminder of the importance to properly design the backup 22 transmission service charge. The OUCC in no way wishes to impede industrial

¹⁰ This is the system average rate increase shown in Attachment 19-S1-B, attached to the Verified Settlement Testimony of Curt A. Westerhausen.

O:

A:

customers from building economic cogeneration facilities through a transmission charge, but the charge should be designed in such a way the potential builder of that capacity sees the true and full cost of providing related transmission service. The S2 Settlement would eliminate the opportunity in the Phase 2 proceeding in this Cause to ensure the transmission charge fairly and fully reflects the cost of providing transmission service, as I proposed in my direct testimony in this proceeding.¹¹

Is the change to the AAQFPTC proposed in the S2 Settlement reasonable?

No. NIPSCO originally proposed this charge to reflect the cost of connecting customers' facilities using its transmission system, and the OUCC did not object to that approach. The revised charge proposed in the S2 Settlement, as shown in the revised tariff pages ¹² attached to Mr. Westerhausen's S2 Settlement testimony, no longer reflects a cost of service basis for the charge, in that it reflects neither the level of transmission capacity utilized or the total amount of energy flowed over NIPSCO's system. Since this charge no longer reflects the cost of providing this service, the revised language for the AAQFPTC presented by the S2 Parties provides further basis for rejecting this settlement.

¹¹ See Section III. of my direct testimony in this Cause, found on pages 7 through 11.

¹² See pages 14 and 15 of Attachment 19-S2-A.

12

13

14

15

16

17

18

19

20

21

22

Q:

III. CALCULATION OF COST ALLOCATION TRACKER FACTORS FOR DEMAND-RELATED COSTS

Is there another matter related to cost allocation that came to your attention

2 in reviewing the Rate 831 Implementation Agreement Exhibit A that is cause for concern? 3 4 A: Yes. Page .1 of the Rate 831 Implementation Agreement Exhibit A presents the 5 calculation of Demand Allocation Tracker Allocators. In calculating those demand 6 allocation percentages, S2 Parties removed from the revenue for Rate 831 an 7 amount of \$31,546,292, resulting in an 8.32% Rate 831 allocation percentage for 8 this category of costs. This reduction is analogous to the reduction in the 9 Transmission, Distribution, and Storage System Improvement Charge ("TDSIC") 10 Allocation for Rate 831 shown on Page .5 of that Exhibit, resulting in a similar 11 allocation to Rate 831 of 8.55%.

The reduction to Rate 831 cost responsibility for TDSIC purposes is clear—it results from the requirements of IC 8-1-39-9(a)(1) limiting TDSIC recovery to an amount based on the "customer class revenue allocation factor based on firm load." However, none of the S2 Parties present evidence of similar statutory requirements for other trackers. Absent such language, there is no reasonable explanation made by S2 Parties for an analogous reduction in cost responsibility for demand allocation outside of NIPSCO's TDSIC tracker.

Mr. Westerhausen's direct testimony presented the same reduction in Rate 831 tracker cost responsibility (in his Attachment 19-E). What he says in testimony regarding this methodology is "The Rate 831 allocation was adjusted to reduce the Allocated Cost of Service Study revenue down to the revenue associated with Tier

1." ¹³ However, this explanation does not address the specific reasoning for making the reduction to Rate 831 cost responsibility. Beyond lacking support, there is evidence that this reduction runs counter to proper cost allocation. First, the revenue number for Rate 831 already excludes production revenue for Tiers 2 and 3 service. Additionally, customers taking service under Tiers 2 and 3 are explicitly excluded from paying production-related trackers. Thus, with lack of support for making the proposed reduction in Rate 831 cost responsibility and no TDSIC-like statutory provision requiring this reduction, there is no reasonable explanation for this reduction to Rate 831 Demand Allocation tracker allocation.

As a result, under the S2 Parties' proposal (as under NIPSCO's original proposal), Rate 831 customers will be allocated too little and other rate classes will be allocated too much revenue requirement in trackers that utilize a demand allocator under the methodology presented in this settlement (and under the methodology presented in NIPSCO's case in chief).

- Q: What do you recommend regarding this unsupported reduction in demand allocation tracker cost responsibility for the Rate 831 rate class?
 A: The OUCC recommends NIPSCO be required to recalculate its Demand Allocation
- 18 Tracker Allocators to eliminate the Rate 831 Tier 1 Adjustment shown on Page .1
 19 of Rate 831 Implementation Agreement Exhibit A and in Attachment 19-E of Mr.
- 20 Westerhausen's pre-filed direct testimony in this case because ...(summarize).

-

 $^{^{\}rm 13}$ Lines 18 and 19 of Page 53 of his testimony in Petitioner's Exhibit No. 19.

IV. CONCLUSIONS AND RECOMMENDATIONS

1	Q:	What do you conclude regarding the S2 Settlement?
2	A:	In exchange for providing certainty as to the amount of Tier 1 demand that will be
3		subscribed by Rate 831 customers, S2 Parties seek to tie the Commission's hands
4		on other matters that must be addressed in order for a fair result to be obtained.
5		Specifically, S2 Parties seek to:
6		• Avoid NIPSCO's legacy cost burden by passing it on to other rate classes;
7		• Implement a cost allocation methodology unfair to other rate classes;
8		• Eliminate the opportunity to ensure in a Phase 2 proceeding the
9		transmission charge for backing up self-generation reflects the cost of
10		service; and
11		Modify NIPSCO's proposed adjacent facilities transmission charge in a
12		way that causes it to no longer reflect cost of service.
13		The provision of certainty as to Rate 831 service levels afforded by the proposed
14		S2 Settlement does not provide sufficient benefit to overcome these problems.
15 16	Q:	Could the Rate 831 service commitments be refiled as an addition to NIPSCO's case in chief rather than as part of a settlement agreement?
17	A:	Yes. The parties could file the service levels presented in the S2 Settlement as an
18		addition to previously filed testimony in this case. Doing so would allow the
19		Commission to include consideration of the additional certainty afforded by those
20		commitments without predetermining the outcome of other matters that the
21		Commission must consider in deciding the outcome of this case.

19

20

21

Q:

A:

Yes.

Q:

2 choose not to file their agreed service levels as an addition to pre-filed direct 3 testimony, would the resulting lack of certainty prove insurmountable to a 4 reasonable resolution of this case? 5 A: No. The case could reasonably be resolved through a Phase 2 proceeding as 6 originally proposed by NIPSCO. If the Commission determines the uncertainty of 7 a Phase 2 proceeding (without customer commitments) overwhelms the benefits 8 that could be obtained from approving the Rate 831 proposal, it could order 9 NIPSCO to refile its industrial rates in a manner reflective of its 700 series 10 industrial rates. This approach to setting industrial rates has worked in the past, 11 and no party has filed testimony indicating that the 700 series rates could not 12 continue to function reasonably. 13 Q: What do you recommend regarding the S2 Settlement? 14 A: I, on behalf of the OUCC, recommend the Commission: 15 1) Deny approval of the S2 Settlement; 16 2) Require NIPSCO to recalculate its Demand Allocation Tracker Allocators to 17 eliminate the Rate 831 Tier 1 Adjustment shown on Page .1 of Rate 831 18 Implementation Agreement Exhibit A and in Attachment 19-E of Mr.

Westerhausen's pre-filed direct testimony in this case.

Does this conclude your testimony?

In the event the Commission rejects the S2 Settlement and the S2 Parties

CERTIFICATE OF SERVICE

This is to certify that a copy of the *INDIANA OFFICE OF UTILITY CONSUMER COUNSELOR'S TESTIMONY FILING OF PETER M. BOERGER*, *PH.D.* has been served upon the following parties of record in the captioned proceeding by electronic service on June 17, 2019.

NIPSCO

Claudia J. Earls NiSource Corporate Services – Legal cjearls@nisource.com

Michael Hooper
Erin E. Whitehead
Debi McCall
Northern Ind. Public Service Co. LLC
mhooper@nisource.com
ewhitehead@nisource.com
demccall@nisource.com

Nicholas Kile Barnes & Thornburg LLP Nicholas.kile@btlaw.com

US Steel

Nikki G. Shoultz Kristina K. Wheeler Jeffrey A. Earl Bose McKinney & Evans LLP nshoultz@boselaw.com kwheeler@boselaw.com jearl@boselaw.com

CAC

Jennifer Washburn
Margo Tucker
Citizens Action Coalition
jwashburn@citact.org
mtucker@citact.org

ICC

Robert L. Hartley Carly J. Tebelman Frost Brown Todd LLC <u>rhartley@fbtlaw.com</u> ctebelman@fbtlaw.com

IG

Bette J. Dodd
Todd A. Richardson
Joseph P. Rompala
Amanda Tyler
Ellen Tennant
Lewis & Kappes P. C.
bdodd@lewis-kappes.com
trichardson@lewis-kappes.com
jrompala@lewis-kappes.com
atyler@lewis-kappes.com
etennant@lewis-kappes.com

NLMK

Anne E. Becker Lewis & Kappes P. C. abecker@lewis-kappes.com

James W. Brew Stone Mattheis Xenopoulos & Brew, PC jbrew@smxblaw.com

IMUG

Robert M. Glennon Robert Glennon & Assoc., P.C. Robertglennonlaw@gmail.com

Walmart

Eric E. Kinder
Barry A. Naum
Spilman Thomas & Battle, PLLC
ekinder@spilmanlaw.com
bnaum@spilmanlaw.com

Sierra Club

Kathryn A. Watson Cantrell Strenski & Mehringer, LLP kwatson@csmlawfirm.com

ICARE

Robert L. Hartley
Frost Brown Todd LLC
rhartley@fbtlaw.com

Meghan E. Griffith Jennifer A. Ferri Jackson Walker LLP mgriffiths@jw.com jferri@jw.com

Dennis Rackers dsrasdf@gmail.com

LaPorte County

Shaw R. Friedman Friedman & Associates, P.C sfriedman.associates@frontier.com

Keith L. Beall Beall & Beall kbeall@indy.rr.com

NICTD

L. Charles Lukmann, III Connor H. Nolan Harris Welsh & Lukmann <u>clukmann@hwllaw.com</u> <u>cnolan@hwllaw.com</u>

Modern Forge Indiana, LLC

Alan M. Hux Taft Stettinius & Hollister, LLP ahux@taftlaw.com

Peabody COALSALES, LLC

Joshua A. Claybourn
Chad Sullivan
Jackson Kelly PLLC
jclaybourn@jacksonkelly.com
cjsullivan@jacksonkelly.com

United Steelworkers

Anthony Alfano USW aalfano@usw.org

OUCC Consultants

David J. Garrett dgarrett@resolveuc.com

William H. Novak halnovak@whnconsulting.com

J. Randall Woolridge irwoolridge@gmail.com

Glenn A. Watkins
Jennifer Dolen
watkins@tai-econ.com
jenny.dolen@tai-econ.com

Randall C. Helmen

Chief Deputy Consumer Counselor

INDIANA OFFICE OF UTILITY CONSUMER COUNSELOR

PNC Center

115 West Washington Street, Suite 1500 South Indianapolis, IN 46204

infomgt@oucc.in.gov

317/232-2494 - Phone

317/232-5923 - Facsimile