Exhibit No.: Issue: Rate Design Witness: Layle (Kip) Smith Type of Exhibit: **Direct Testimony** Sponsoring Party: Noranda Aluminum, Inc. Case No.: EC-2014-February 10, 2014 Date Testimony Prepared: FILED June 23, 2014 Data Center BEFORE THE PUBLIC SERVICE COMMISSION Missouri Public OF THE STATE OF MISSOURI Service Commission In the Matter of Noranda Aluminum, Inc.'s Request for **Revisions to Union Electric** Company d/b/a Ameren Case No. EC-2014-____ Missouri's Large Transmission Service Tariff to Decrease its Rate for Electric Service Direct Testimony of Kip Smith (NP VERSION) On behalf of Noranda Aluminum, Inc. February 10, 2014

Waranda Exhibit No_ Date bib-M Reporter 44 File No EC- 2011-0224

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

In the Matter of Noranda Aluminum, Inc.'s Request for **Revisions to Union Electric** Company d/b/a Ameren **Missouri's Large Transmission** Service Tariff to Decrease its **Rate for Electric Service**

Case No. EC-2014-

STATE OF TENNESSEE

COUNTY OF WILLIAMSON

Affidavit of Kip Smith

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Layle (Kip) Smith, being first duly sworn, on his oath states:

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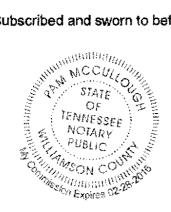
1. My name is Layle K. (Kip) Smith. I am the President and CEO of Noranda Aluminum, Inc., having its principal place of business at Suite 600, 801 Crescent Centre Drive, Franklin, Tennessee 37067.

2. Attached hereto, and made a part hereof for all purposes, is my direct testimony, which was prepared in written form for introduction into evidence in Missouri Public Service Commission Case No. EC-2014-__

I hereby swear and affirm that the testimony is true and correct. 3.

Lavle K. (Kip) Smith

Subscribed and sworn to before me this 10th day of February, 2014.



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BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

In the Matter of Noranda Aluminum, Inc.'s Request for **Revisions to Union Electric** Company d/b/a Ameren Missouri's Large Transmission Service Tariff to Decrease its **Rate for Electric Service**

Case No. EC-2014-

Direct Testimony of Kip Smith

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1 Q PLEASE STATE YOUR NAME AND BUSINESS ADD

- Kip Smith. My business address is Suite 600, 801 Crescent Centre Drive, 2 Α
- Franklin, Tennessee 37067. 3
- 4

WHAT IS YOUR OCCUPATION? 5 Q

- 6 A I am the President and CEO of Noranda Aluminum, Inc. ("Noranda"). I am
- 7 familiar with, and am responsible for, all aspects of Noranda's business.
- 8

PLEASE DESCRIBE THE BUSINESS OF NORANDA. 9 Q

Α Noranda is an integrated aluminum manufacturer. 10 Aluminum is a 11 commodity business. Its manufacturing is energy-intensive and capitalintensive. Noranda is a U.S. based, publically traded (NYSE) company 12 13 focused on U.S. markets.

In addition to its smelter near New Madrid, Missouri, Noranda owns 14 and operates a bauxite mine in Jamaica and an alumina refinery in 15 **Kip Smith**

1 Gramercy, Louisiana, and rolling mills in Arkansas, North Carolina and 2 Tennessee. The New Madrid Smelter produces molten aluminum and converts molten aluminum to aluminum products such as billet, rod, 3 foundry products and primary ingots. The smelter has been operating in 4 5 Southeast Missouri since February 25, 1971. Its primary product inputs 6 are electricity and alumina. The alumina is delivered via barge over the 7 Mississippi River. Alumina, also known as aluminum oxide, is produced 8 from bauxite ore. The New Madrid Smelter processes the alumina 9 through three production lines that electrolytically convert aluminum oxide 10 into molten aluminum. The process requires an unusually large amount of 11 electricity. On an annual basis, the New Madrid Smelter purchases about 12 the same amount of electricity as the entire city of Springfield, MO. 13 Electricity must be constantly available to the production lines at the New 14 Madrid Smelter, otherwise the lines will be damaged from liquid metal 15 solidifying in the lines. When at full production, the New Madrid Smelter produces more than 260,000 metric tons of aluminum per year. 16 The aluminum is sold primarily in North America. Noranda is one of the largest 17 foil producers in North America and a major producer of light gauge sheet 18 products. 19

20

21 Q WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS 22 PROCEEDING?

1 A The purpose of my testimony is to explain why our request for a rate 2 reduction is critical for the New Madrid Smelter to continue to operate and sustain its business in Missouri. I will also explain why Commission 3 approval of our request is in the public interest. The decision in this case 4 5 is vitally important to the New Madrid Smelter's near-term and long-term 6 operations. The New Madrid Smelter's sustainability in Southeast Missouri is inextricably linked to the employment and well-being of the 7 approximately 888 Noranda employees and their families as well as 8 9 dozens of other businesses in Southeast Missouri and the employees and 10 families that they support.

11

12 Q WHAT IS NORANDA'S RATE REQUEST IN THIS CASE?

A Noranda requests a rate of \$30/MWh for the New Madrid Smelter for a fixed term of ten years, subject to a rate increase of up to two percent at the time of each general rate increase granted to Ameren Missouri by the Commission during this period. Noranda is also requesting expedited Commission approval for this rate change.

18

19 Q WHY IS A RATE REDUCTION FOR NORANDA IN THE PUBLIC 20 INTEREST?

21 A The New Madrid Smelter has been an integral part of the economic 22 landscape of Southeast Missouri for more than 40 years. The New Madrid 23 Smelter is the largest direct and indirect manufacturing employer in Southeast Missouri. Hundreds of Southeast Missouri families would be placed in financial peril if the New Madrid Smelter was forced to shut its doors. Millions of dollars flow into the homes and businesses of Southeast Missourians as a result of the revenues from Noranda products, which are sold mostly outside of the state. The New Madrid Smelter's economic benefit to the state of Missouri is estimated to be in excess of \$300 million annually.

Moreover, the New Madrid Smelter provides hundreds of skilled 8 jobs that pay good, stable wages and provides its employees medical and 9 retirement benefits. The New Madrid Smelter's 2013 estimated annual 10 payroll was \$95 million. In addition, the New Madrid Smelter pays 17.9% 11 12 of the total taxes collected in New Madrid County and 28.7% of the taxes paid for the New Madrid County R-1 Schools. Taxes paid by the New 13 14 Madrid Smelter help keep the school systems viable and help to maintain the infrastructure and needed government institutions in Southeast 15 Missouri. It is vital to our employees, to their families, to the community, to 16 the merchants that our employees frequent, to our vendors (including 17 18 Ameren Missouri), and to their families, that the New Madrid Smelter remain viable. Noranda's proposed rate would allow the smelter to stay in 19 20 business for the near term, ensure the continuing viability of the smelter and sustain its numerous benefits to the community and the state of 21 22 Missouri.

Finally, the rate proposed by Noranda will provide ongoing benefits for all of Ameren's retail customers as Noranda will continue to be Ameren's largest electric customer with a very high load factor. As explained by Maurice Brubaker, Noranda's proposed rate is greater than the incremental cost to serve the Noranda load, thus creating a direct benefit to other customers. This direct benefit would be lost if Noranda ceased taking power from Ameren.

8

9 Q WHY DOES THE NEW MADRID SMELTER NEED EXPEDITED 10 APPROVAL OF ITS REQUEST FOR A RATE REDUCTION?

11 Market conditions are creating short-term liquidity challenges throughout А 12 the aluminum industry. Unfortunately, if the New Madrid Smelter is not 13 granted the rate relief requested and in an expedited manner, based on 14 current market conditions, I expect that the New Madrid Smelter will be 15 required to reduce its workforce by 150-200 employees before the end of 2014. Although this work force reduction will not provide savings equal to 16 17 Noranda's proposed electrical rate reduction, it would allow the smelter to survive for a period of time, and it is the maximum headcount reduction we 18 believe that we could attempt without affecting our ability to meet our 19 20 commitments to the New Madrid Smelter's external customers.

21 Noranda has and continues to make efforts to reduce other costs 22 and remain as efficient as possible. Noranda's culture of annual 23 productivity improvements has positioned us well to accelerate cost reductions (except for electricity). Noranda will do its part; we expect to
 improve our Noranda-wide operational efficiency (excluding electricity) by
 \$177 million over the next three years.

But if Noranda is forced to reduce the work force at the New Madrid 4 Smelter by 150-200 employees, even when coupled with Noranda's other 5 cost savings measures, this will not be sufficient as a long-term 6 sustainable strategy. Without the requested rate reduction, even with our 7 planned reductions in other costs, the New Madrid Smelter would have 8 insufficient liquidity and be subject to closure **_____*, resulting in the 9 loss of all jobs at the smelter. Thus, I believe the rate relief requested is 10 necessary to preserve jobs at the New Madrid Smelter not only in the 11 12 short-term, but in the long-term as well. A closure of the New Madrid 13 Smelter would be a tragedy for the 888 families who are supported by the 14 stable and dependable employment offered by Noranda, and also a tragedy for the families whose livelihoods depend on the businesses 15 supported by Noranda. 16

In contrast, if Noranda's rate request is granted, the New Madrid Smelter will preserve 150-200 jobs in the near term and continue to operate effectively over the proposed contract term. Granting Noranda's rate request will enable the New Madrid Smelter to weather the current crisis, retain these 150-200 jobs, and continue to upgrade and invest for long-term growth, which is expected to preserve all of the jobs associated with the smelter in the long-run.

> Kip Smith Page 6 HC

1	Q	PLEASE DEFINE WHAT YOU MEAN WHEN YOU USE THE TERM
2		LIQUIDITY AND EXPLAIN ITS IMPORTANCE TO NORANDA.
3	Α	Liquidity is defined as cash on hand plus available borrowings. Every
4		company, including Noranda, needs cash in order to run its business.
5		
6	Q	WHAT LEVEL OF LIQUIDITY IS NECESSARY FOR NORANDA TO
7		REMAIN A COMPETITIVE SMELTER IN THE U.S.?
8	А	*×
9		
10		
11		**
12		
13	Q	WHY DOES NORANDA NEED A LONG-TERM CONTRACT?
14	А	As discussed in Henry Fayne's testimony, it is a well established
15		competitive practice within the US aluminum industry for power contracts
16		to be long-term in nature. Power contracts in the US range from a few
17		years to thirty years. Currently five of the remaining eight smelters that
18		purchase their power have power contracts of ten years or longer.
19		Noranda needs a contract term of ten years to be competitive and
20		to provide the raw material stability to run its business sustainably.
21		
22	Q	WHY ARE ELECTRIC RATES SO IMPORTANT TO THE NEW MADRID
•••		
23		SMELTER?

A The viability of an aluminum smelter is largely dictated by its cost to 1 2 produce aluminum. Electricity is our leading single cost, representing approximately one-third of the New Madrid Smelter's cost to produce. If a 3 smelter's cost of electricity is uncompetitive, that is, if its cost of electricity 4 5 is significantly higher than the cost to other smelters, the viability of the smelter is jeopardized. It is not possible to offset an uncompetitive cost of 6 7 electricity with cost reductions and productivity improvements. The cost of electricity can make or break Noranda's ability to survive in the short-term 8 9 and maintain the viability of the smelter in the long-term.

The aluminum production industry is a globally competitive 10 11 commodity industry. The aluminum produced by the New Madrid Smelter 12 is essentially identical to that produced by other aluminum smelters. The 13 price for aluminum is established on the London Metal Exchange (LME), 14 and a producer such as Noranda has little or no influence on the LME 15 price. Because the product is largely undifferentiated and its price is 16 outside of Noranda's control, Noranda must compete on the basis of 17 production cost. Because electricity constitutes such a large percentage 18 of production cost, affordable electricity is essential to the New Madrid 19 Smelter's survival and prosperity.

20

21 Q IS NORANDA'S POWER RATE COMPETITIVE WITHIN THE U.S. 22 ALUMINUM INDUSTRY?

A No. The competitive landscape for electricity provided to aluminum 1 2 smelters in the U.S. has, and is, changing dramatically. As discussed in the testimony of Noranda witness Henry Fayne, in 2014, we expect 3 Noranda's power rate to be second highest among the eight remaining US 4 smelters that buy their power. Specifically, the cost to Noranda, assuming 5 6 no change in Ameren rates, is expected to be approximately \$5/MWh higher than the average rate for smelters located in the United States in 7 2014. That means the New Madrid Smelter is paying \$20 million each 8 9 and every year more than the average domestic smelter. Compared to 10 the global average, excluding the U.S. and China, Noranda would be 11 paying more than \$11/MWh higher, or \$49 million per year. Compared to 12 the three domestic smelters with the lowest cost of electricity, the New 13 Madrid Smelter would be paying a staggering \$17.5/MWh, or \$73 million, 14 more per year. We have worked hard to reduce costs, but it's virtually impossible to offset such differences. 15

16

17QEARLIER YOU DESCRIBED NORANDA AS AN ENERGY-INTENSIVE18BUSINESS. WHAT DOES THAT MEAN?

19 A The New Madrid Smelter uses approximately 480 MW of power, 24 hours 20 per day, 7 days per week, 52 weeks per year, with a 98% load factor. The 21 New Madrid Smelter is Ameren Missouri's largest customer, and is the 22 largest consumer of electricity in Missouri. As a result of the particular 23 physical supply arrangements, none of the Ameren Missouri distribution facilities are used in providing service to the New Madrid Smelter, leading
to lower losses and lower assignment of costs. All of these considerations
lead to a lower unit cost for the service provided to the New Madrid
Smelter as compared to other customers.

As I noted above, electricity is the single largest operational cost of 5 the New Madrid Smelter, representing about one-third of its overall cost of 6 7 producing primary aluminum. When the New Madrid Smelter is at full production, at current electric rates, it pays Ameren Missouri 8 approximately \$160 million in base rates for electricity each year plus 9 charges under the fuel adjustment clause.¹ Since 2008, as a result of rate 10 11 increases and changes in the fuel adjustment clause. Noranda's annual 12 cost of electricity has increased by about 32 percent, or an increase of 13 about \$44 million.

14

Q YOU ALSO DESCRIBED NORANDA AS A CAPITAL-INTENSIVE
 BUSINESS. PLEASE EXPLAIN NORANDA'S CAPITAL INVESTMENT
 REQUIREMENTS.

A Noranda requires significant capital investment annually to support daily operations of its plants. This is referred to as "Sustaining Capital." Noranda also requires significant capital to grow to support Noranda's customers and maintain Noranda's competitive position which we refer to as "Growth Capital." Noranda, on a companywide basis, expects to spend

¹In addition, we directly pay Associated Electric Cooperative, Inc. approximately \$6.6 million per year, or about \$1.50 per MWh, for the use of its transmission system to deliver power to us.

on average approximately \$65-75 million annually for Sustaining Capital
and \$20-25 million annually for Growth Capital. The majority of our capital
spending has been at New Madrid and that trend is expected to continue.
We expect to spend \$28 million in Sustaining Capital and \$38 million in
Growth Capital at New Madrid in 2014.

6

7 Q HAVE YOU PREPARED AN EXHIBIT WHICH SUPPORTS THE NEED 8 FOR NORANDA'S REQUESTED RATE REDUCTION?

9 A Yes. Financial data supporting Noranda's request is included in my
 10 testimony as Exhibit A, which is a highly confidential document.

11

12 Q PLEASE DESCRIBE THE EXHIBIT.

This exhibit shows Noranda's liquidity position each year, as well as cash 13 A 14 flows, under three different scenarios. The first scenario, called the "No 15 Liquidity Actions," contemplates Noranda taking no action to increase 16 liquidity. The second scenario, called "With Liquidity Actions, But No 17 Power Rate Reduction," contemplates all reasonable and sustainable liquidity actions that Noranda expects to take, but includes no electric rate 18 relief. The third scenario, called "With Liquidity Actions and \$30 Power 19 20 Rate," contemplates the liquidity actions under the second scenario, plus includes the electric rate relief requested herein. 21

22

1 Q PLEASE EXPLAIN THE CONCLUSIONS THAT THE EXHIBIT

2 SUPPORTS.

- 3 A There are five conclusions from this exhibit.
- 4 1. Noranda is facing short-term liquidity and long-term reinvestment 5 challenges.
- 6 2. Without the short-term actions Noranda has taken and plans to take 7 ("No Liquidity Actions") to accelerate its productivity and improve its 8 liquidity position, current market conditions would cause Noranda to 9 consume all of its available liquidity by the end of 2015.
- 103.Noranda will accelerate its productivity programs ("With Liquidity11Actions, but No Power Rate Reduction") but that will not be enough to12sustainably navigate through current market conditions and13sustainably run the business. Productivity improvements and cost14reductions expected to improve pre-tax cash flow by over \$22015million over the five-year forecast period would not be sufficient to16overcome the impact of uncompetitive power.
- 17 4. Noranda must have competitive power to survive these short-term
 18 market conditions and to sustainably reinvest in the business.
- 19 5. Noranda has a sustainable future with this requested rate ("With 20 Liquidity Actions and \$30 Power Rate").
- 21 (Note: Exhibit A shows Noranda's liquidity position under various
- 22 scenarios. In all cases, we have assumed LME aluminum prices based
- 23 on a recent forward curve; on that basis, the LME price is expected to
- 24 increase by 17% over the period. Inflation was limited to 2% per year, but
- 25 the cost of electricity under the first two scenarios was held constant at
- 26 current levels. Capital requirements were held to \$100 million per year for
- 27 the entire company, the average annual amount required to cover both
- 28 sustaining and growth capital.)

29

1 Q WHAT HAS THE NEW MADRID SMELTER ALREADY DONE TO 2 REDUCE COSTS?

A lot. We have a passionate focus on productivity supported by annual and three-year cost control and productivity goals. This corporate operating strategy supports the short-term performance and long-term viability of the New Madrid Smelter. Since 2009, Noranda has had an aggressive program to reduce its costs and increase productivity, achieving over \$295 million in productivity savings to date.

9 Every year, the New Madrid Smelter invests the best efforts of its 10 employees and significant financial resources to reduce its costs to 11 sustain its Missouri operations. Since 2008, the smelter's annual costs 12 have been reduced by over \$100 million through our Comprehensive 13 Cost-Out, Reliability and Effectiveness ("CORE") productivity program. If 14 the cost of electricity were held constant, the New Madrid Smelter would now be able to make a pound of aluminum more efficiently and for less 15 16 cost than in 2008. However, since 2008, our annual cost of electricity has 17 gone up approximately \$44 million, wiping out all of our other net savings combined. 18

19 The New Madrid Smelter has attacked every operating cost that it 20 can, and will continue to do so. But this represents only two-thirds of our 21 costs, and that is unfortunately not enough. We must find an immediate 22 and long-term solution to reduce our cost of electricity.

> Kip Smith Page 13

1 These savings are crucial to the viability and ongoing reinvestment 2 in the New Madrid Smelter. Since 2007, Noranda has invested over \$205 3 million to preserve, improve and grow the capability of the facility.

The New Madrid Smelter also plays a key role in our value-added 4 5 growth strategy. We manufacture at the New Madrid Smelter high purity 6 grades of aluminum as well as fabricated products - aluminum billet and 7 aluminum rod. A key foundation of this strategy is the capability to 8 manufacture cost competitive aluminum. To that end, Noranda has 9 authorized \$38 million in capital to improve the New Madrid Smelter's 10 electrical efficiency, yielding an additional 25 million pounds of aluminum. 11 This project is currently on hold until the viability of the smelter is solidified. 12 and the cost of this project is on top of the planned \$38 million in Growth 13 Capital expenditures that are contemplated as I discuss above.

14

15 Q WHY IS THE COMMISSION PROCESS SO IMPORTANT TO 16 NORANDA?

17 A Electricity is approximately one-third of the New Madrid Smelter's cost, 18 and while Noranda can bring market competition to bear on the cost of 19 every other supply line of the New Madrid Smelter, electricity is the one 20 cost we cannot directly control. Noranda greatly appreciates the 21 Commission's decisions in Ameren Missouri's last several rate cases to 22 move Noranda's rate toward cost of service. The New Madrid Smelter 23 has continued to operate because of these decisions, the support of the stakeholders, reliable operations, effective productivity programs and the
 strength of the Commission's process. Noranda respects the Commission
 process and seeks to strengthen this process by contributing evidence
 and engaging in constructive dialogue with all stakeholders.

5

6 Q ARE OTHER WITNESSES TESTIFYING ON BEHALF OF NORANDA'S 7 REQUEST?

- 8 A Yes. In addition to my testimony, Noranda is sponsoring testimony of 9 other witnesses. I have listed the other witnesses and provided a brief 10 description of their testimonies.
- Mr. Henry Fayne: Mr. Fayne's testimony addresses the competitive
 disadvantage Noranda faces as a result of the lower electric rates its
 competitors have secured.
- Dr. Joseph H. Haslag: Dr. Haslag's testimony addresses the
 financial impact to the State of Missouri's economy were the Noranda
 Smelter to close.
- Mr. Maurice Brubaker: Mr. Brubaker's testimony analyzes Ameren
 Missouri's rates with and without the Noranda smelter as an Ameren
 Missouri customer. He states that all Ameren Missouri consumers
 will ultimately benefit from keeping the Noranda Smelter in operation.
- Mr. James R. Dauphinais: Mr. Dauphinais' testimony addresses
 actual net energy costs should the Noranda smelter be subject to
 closure. Mr. Brubaker relies on this testimony.

- Congressman Jason Smith: Congressman's Smith's testimony
 addresses the economic benefits the continued operation of the
 Noranda smelter brings to Southeast Missouri.
- Senator Wayne Wallingford: Senator Wallingford's testimony
 addresses the economic benefits the continued operation of the
 Noranda smelter brings to Southeast Missouri.
- Senator Doug Libla: Senator Libla's testimony addresses the
 economic benefits the continued operation of the Noranda smelter
 brings to Southeast Missouri.
- Senator Gary Romine: Senator Romine's testimony addresses the
 economic benefits the continued operation of the Noranda smelter
 brings to Southeast Missouri.
- Representative Kent Hampton: Representative Hampton's testimony
 addresses the economic benefits the continued operation of the
 Noranda smelter brings to Southeast Missouri.
- Representative Steve Hodges: Representative Hodges' testimony
 addresses the economic benefits the continued operation of the
 Noranda smelter brings to Southeast Missouri.
- 19 > Representative Todd Richardson: Representative Richardson's
 20 testimony addresses the economic benefits the continued operation
 21 of the Noranda smelter brings to Southeast Missouri.

- Representative Shelley Keeney: Representative Keeney's' testimony
 addresses the economic benefits the continued operation of the
 Noranda smelter brings to Southeast Missouri.
- Michelle Fayette: Ms. Fayette's testimony addresses Noranda's
 impact on the community in Southeast Missouri and to the Kenny
 Rogers Children's Center.
- Glenna Shy: Ms. Shy's testimony addresses Noranda's impact on
 the community in Southeast Missouri and to the Sikeston/Bootheel
 Area United Way.
- 10 > Emil Ramirez: Mr. Ramirez' testimony addresses the impact of
 11 Noranda as an employer to workers in New Madrid County.
- 12

13 Q DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

14 A Yes, it does.

Kip Smith's Exhibit A is HIGHLY CONFIDENTIAL in its entirety