

Volume 2A

Direct Testimony and Supporting Schedules:

Stuart D. Tommerdahl

Before the South Dakota Public Utilities Commission  
State of South Dakota

In the Matter of the Application of Otter Tail Power Company  
For Authority to Increase Rates for Electric Utility  
Service in South Dakota

Docket No. EL18-\_\_\_

Exhibit\_\_\_

**MAJOR PROJECTS, TEST YEAR REVENUES, ALLOCATION  
FACTORS & OTHER REGULATORY MATTERS**

Direct Testimony and Schedules of

**STUART D. TOMMERDAHL**

April 20, 2018

## TABLE OF CONTENTS

I.	INTRODUCTION AND QUALIFICATIONS .....	1
II.	PURPOSE AND OVERVIEW OF DIRECT TESTIMONY .....	1
III.	MAJOR CAPITAL PROJECTS SINCE LAST RATE CASE.....	3
	A. BIG STONE AQCS PROJECT .....	3
	B. HOOT LAKE MATS PROJECT.....	7
	C. TRANSMISSION PROJECTS.....	8
	D. CUSTOMER INFORMATION SYSTEM.....	10
IV.	2017 NORMALIZED RETAIL REVENUES .....	14
	A. 2017 ACTUAL RETAIL REVENUES .....	15
	B. WEATHER NORMALIZATION .....	16
	C. BILLING ADJUSTMENTS .....	17
	D. TOTAL 2017 NORMALIZED RETAIL REVENUES.....	17
V.	JURISDICTIONAL AND CLASS ALLOCATORS.....	18
	A. TEST YEAR JCOSS AND CCOSS ALLOCATORS.....	19
	B. E8760 ALLOCATOR.....	21
VI.	FUEL ADJUSTMENT CLAUSE RIDER.....	22
VII.	CORPORATE COST ALLOCATIONS.....	24
VIII.	ECONOMIC DEVELOPMENT RATES .....	28
IX.	LEAD LAG STUDY .....	31
X.	MERRICOURT WIND PROJECT STEP INCREASE RATE PROPOSAL.....	32
XI.	MISCELLANEOUS ITEMS .....	34
	A. NON-ASSET BASED TRADING .....	34
	B. RATE CASE EXPENSES .....	35
	C. HOLDING COMPANY FORMATION EXPENSES.....	36
XII.	CONCLUSION.....	36

## **ATTACHED SCHEDULES**

Schedule 1 – Tommerdahl Resume

Schedule 2 – Savings Impacts from Big Stone AQCS Project

Schedule 3 – Cost Allocations Procedures Manual (Redline and Clean)

Schedule 4 – Corporate Cost Allocation Manual (Redline and Clean)

1 **I. INTRODUCTION AND QUALIFICATIONS**

2 Q. PLEASE STATE YOUR NAME AND OCCUPATION.

3 A. My name is Stuart D. Tommerdahl. I am employed by Otter Tail Power Company (OTP)  
4 as Manager, Regulatory Administration.

5  
6 Q. PLEASE SUMMARIZE YOUR QUALIFICATIONS AND EXPERIENCE.

7 A. I graduated from Moorhead State University, now Minnesota State University,  
8 Moorhead, Minnesota, in 1983 with a B.S. degree in Accounting and a minor in  
9 Economics. I am a Certified Public Accountant (Inactive) in Minnesota. From 1983 to  
10 1992, I worked in several accounting, budgeting and financial reporting positions. In  
11 1993, I joined OTP as Regulatory/Economic Analyst. From 1997 to 2003 I worked at  
12 Otter Tail Energy Services as Manager, Financial Planning /Analysis and subsequently  
13 Director, Financial Services.

14 In 2004, I returned to OTP as Manager, Risk Management. In March of 2012, I  
15 started my current position as Manager, Regulatory Administration. My primary  
16 responsibilities are to provide leadership in areas of revenue requirements analysis,  
17 pricing and rate design, tariff administration, load research, cost allocation methodologies  
18 to be used in cost of service studies, long range revenue forecasting, wholesale energy  
19 accounting, cost of energy, and unbilled revenue. A copy of my resume is included as  
20 Exhibit \_\_\_(SDT-1), Schedule 1.

21 **II. PURPOSE AND OVERVIEW OF DIRECT TESTIMONY**

22 Q. WHAT IS THE PURPOSE OF YOUR DIRECT TESTIMONY?

23 A. My Direct Testimony describes a number of revenue requirement and regulatory issues  
24 associated with this case.

25  
26 Q. PLEASE PROVIDE A BRIEF OVERVIEW OF YOUR DIRECT TESTIMONY.

27 A. My Direct Testimony focuses on the following items:

- 28
  - Overview of major capital projects since our last South Dakota rate case;

- 1 • 2017 normalized retail revenues;
- 2 • Jurisdictional and class cost allocation factors;
- 3 • Fuel Adjustment Clause Rider;
- 4 • Corporate cost allocations;
- 5 • New economic development rates;
- 6 • Lead Lag Study; and
- 7 • Merricourt project step increase rates

8 Lastly, my Direct Testimony also addresses a few miscellaneous regulatory issues.

9  
10 Q. HAVE YOU INCLUDED BOTH SOUTH DAKOTA JURISDICTIONAL AND TOTAL  
11 COMPANY AMOUNTS IN YOUR DIRECT TESTIMONY AND SCHEDULES?

12 A. Yes. The dollar values presented in my Direct Testimony are jurisdictionalized to South  
13 Dakota values and labeled as (OTP SD). The South Dakota jurisdictional values are also  
14 presented in combination with total company values, labeled as (OTP Total).

15 There are certain power plant and transmission projects where OTP is only a part  
16 owner. In those circumstances, I included each of the following: the total project costs,  
17 labeled as (Total Plant or Total Project), and the OTP ownership allocation of the project  
18 amounts, labeled as (OTP Total).

19 Some categories of costs include costs that fall into numerous functions, each  
20 with its own jurisdictional allocation, and therefore a straightforward calculation of a  
21 jurisdictional amount based on a single allocator is not possible. Examples of these costs  
22 include certain labor cost categories, which may include costs functionalized as  
23 generation, transmission, distribution, administration and general, with each function  
24 having its own unique jurisdictional allocation. For costs that are categorized across  
25 functions like this, the South Dakota jurisdictional dollar values have been estimated by  
26 multiplying the Total Company costs by a single blended allocator. When such an  
27 estimate has been used, the dollar values are labeled as (SD EST).

28

1 Q. HOW IS YOUR DIRECT TESTIMONY ORGANIZED?

2 A. In Section III, I will discuss major capital projects OTP has completed since its last South  
3 Dakota rate case. In Section IV, I discuss the determination of 2017 normalized retail  
4 revenues. In Section V, I discuss jurisdictional and class allocation factors. In Section VI,  
5 I discuss a proposed change to OTP's Fuel Adjustment Clause Rider. Section VII  
6 includes a discussion of corporate cost allocations. In Section VIII, I discuss economic  
7 development rates. Section IX includes a discussion of the Lead Lag Study. In Section X,  
8 I discuss the Merricourt project step increase rate proposal. Section XI includes a  
9 discussion of miscellaneous issues, and Section XII includes my conclusions.

10 **III. MAJOR CAPITAL PROJECTS SINCE LAST RATE CASE**

11 Q. WHAT IS THE PURPOSE OF THIS SECTION OF YOUR DIRECT TESTIMONY?

12 A. In this section of my Direct Testimony, I will discuss major capital projects that OTP has  
13 completed since its last South Dakota rate case, including: (A) the Big Stone plant Air  
14 Quality Control System project (AQCS Project); (B) the Hoot Lake plant Mercury and  
15 Air Toxics Standards project (MATS Project); and (C) major transmission projects. I will  
16 also discuss OTP's new Customer Information System Project.

17  
18 Q. WHEN WAS OTP'S LAST RATE CASE IN SOUTH DAKOTA?

19 A. OTP's last South Dakota rate case was filed before the South Dakota Public Utilities  
20 Commission (Commission) in 2010 and was based on a 2009 Test Year (Docket No.  
21 EL10-011).

22 **A. Big Stone AQCS Project**

23 Q. WHAT WILL YOU DISCUSS IN THIS SUBSECTION?

24 A. In this subsection of my Direct Testimony, I will explain the \$0.9 million (OTP SD) of  
25 annual savings for South Dakota customers in the 2017 Test Year, which will continue  
26 for 30 years, as a result of OTP's completion of the Big Stone AQCS Project far under  
27 budget. I will also discuss the reductions in earnings for shareholders resulting from the  
28 under-budget completion of the AQCS Project.

1 Q. WHAT IS THE BIG STONE AQCS PROJECT?

2 A. The Big Stone AQCS Project is a major environmental upgrade project at the Big Stone  
3 plant that went into service on December 29, 2015. To date, it is the largest capital  
4 project ever undertaken by OTP. The AQCS Project was needed for the continued  
5 operation of the Big Stone plant. The AQCS Project reduces nitrogen oxides and sulfur  
6 dioxide emissions at our Big Stone plant by approximately 90 percent and reduces  
7 mercury emissions by approximately 80 percent. In Docket No. EL12-027, a staff report  
8 concluded that: “Based on the evaluation of Otter Tail’s IRP [Integrated Resource Plan]  
9 and the analysis conducted in the ADP proceedings in North Dakota and Minnesota, the  
10 AQCS project is found to be the least cost option compared to other alternatives.”<sup>1</sup> OTP  
11 completed the Big Stone AQCS Project substantially under budget and on time. The Big  
12 Stone AQCS Project, including the associated capital costs and OTP’s completion of the  
13 project far under budget, is discussed in detail in the Direct Testimony of OTP witness  
14 Mr. Kirk A. Phinney.

15

16 Q. IS OTP PROPOSING TO CHANGE HOW BIG STONE AQCS PROJECT CAPITAL  
17 COSTS ARE RECOVERED?

18 A. Yes. The South Dakota jurisdictional share of the Big Stone AQCS Project capital costs  
19 currently are being recovered through OTP’s South Dakota Environmental Cost  
20 Recovery Rider (ECRR), as approved in Docket No. EL14-082. OTP witness Mr. Bryce  
21 C. Haugen describes, in his Direct Testimony, OTP’s proposal to move the Big Stone  
22 AQCS Project capital costs from the ECRR into base rates effective at the time OTP is  
23 proposing to implement interim rates in this case.

24

25 Q. DOES THIS PROPOSAL INCREASE COSTS TO CUSTOMERS?

26 A. No. Moving the Big Stone AQCS Project from the ECRR into base rates is merely a  
27 change to how the costs of the project are recovered.

28

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<sup>1</sup> Report entitled “Evaluation of Otter Tail’s Air Quality Control System Project as the Least Cost Option Compared to Other Alternatives,” filed January 25, 2013.



1 Q. DID OTP COMPLETE THE BIG STONE AQCS PROJECT AT A COST  
2 SUBSTANTIALLY BELOW BUDGET?

3 A. Yes. Mr. Phinney explains in his Direct Testimony that the final capital cost for the Big  
4 Stone AQCS Project is \$365.5 million (Total Plant), which is \$125 million below the  
5 total original project budget of \$491 million (Total Plant). OTP's total company share of  
6 this savings in capital costs is \$67.6 million (OTP Total), and the South Dakota  
7 jurisdictional share is \$6.3 million (OTP SD).

8

9 Q. HAVE YOU DETERMINED THE SAVINGS IN THE 2017 TEST YEAR FROM  
10 COMPLETING THE BIG STONE AQCS PROJECT BELOW BUDGET?

11 A. Yes. I have determined that the under-budget completion of the Big Stone AQCS Project  
12 reduced the 2017 Test Year revenue deficiency and will save South Dakota customers  
13 approximately \$0.9 million annually (OTP SD). This determination was based on a cost  
14 of completion of \$365.5 million (Total Project) (approximately \$125 million (Total  
15 Project) below budget) and reflects OTP's 53.9 percent ownership share and the South  
16 Dakota jurisdictional allocation of 9.342 percent. This savings for South Dakota  
17 customers is the result of (1) the reduction in the South Dakota jurisdictional share of the  
18 *return of capital* (depreciation) on approximately \$125.5 million (Total Project) savings;  
19 plus (2) the reduction in the annual *return on capital* (earnings for investors plus tax  
20 effect) on \$125.5 million (Total Project) savings. My calculation of the estimated annual  
21 savings for South Dakota customers for the 2017 Test Year is set forth on  
22 Exhibit\_\_(SDT-1), Schedule 2.

23

24 Q. HAVE YOU ALSO DETERMINED THE CUMULATIVE SAVINGS FOR SOUTH  
25 DAKOTA CUSTOMERS OVER THE INITIAL 10 YEARS OF USE AND THE FULL  
26 30-YEAR LIFE OF THE BIG STONE AQCS PROJECT?

27 A. Yes. I estimate that OTP's South Dakota customers will receive cumulative savings of  
28 approximately \$8.0 million (OTP SD) over the initial 10-years of use of the Big Stone  
29 AQCS Project. I estimate that, over the 30-year life of the AQCS Project, OTP's under-  
30 budget completion of the Big Stone AQCS Project will reduce OTP's South Dakota  
31 customer costs by approximately \$17.2 million (OTP SD) with a net present value of \$7.8

1 million (OTP SD). These savings for OTP's South Dakota customers are also the result  
2 of the South Dakota jurisdictional share of the reduction in *the return of* approximately  
3 \$125.5 million (Total Project) of capital (reflected in depreciation) plus the reduction in  
4 *the return on* approximately \$125.5 million (Total Project) of capital. My calculations are  
5 also set forth on Exhibit \_\_ (SDT-1), Schedule 2.  
6

7 Q. IN ADDITION TO CUSTOMER SAVINGS, DOES THE UNDER-BUDGET  
8 COMPLETION ALSO HAVE AN EFFECT ON SHAREHOLDERS?

9 A. Yes. While the lower investment from the under-budget completion of the Big Stone  
10 AQCS Project provides substantial savings for South Dakota customers, there is a  
11 corresponding effect on OTP shareholders in the form of reduced earnings resulting from  
12 the reduced investment.  
13

14 Q. HAVE YOU DETERMINED THE REDUCED EARNINGS FOR SHAREHOLDERS  
15 IN THE 2017 TEST YEAR AND IN OTHER YEARS?

16 A. Yes. As a result of OTP's under budget completion of the Big Stone AQCS Project, the  
17 return to shareholders will be reduced (after OTP income taxes) by approximately:

18 A. \$0.3 million (OTP SD) in the 2017 Test Year;

19 B. \$2.9 million (OTP SD) during the first 10 years; and

20 C. \$5.4 million (OTP SD) over the 30-year life of the Big Stone AQCS Project.

21 The net present value of reduced earnings is \$2.0 million (OTP SD) over the first  
22 10 years and \$2.7 million (OTP SD) over the 30-year life of the Big Stone AQCS Project.  
23 My calculations are set forth on Exhibit \_\_ (STD-1), Schedule 2.  
24

25 Q. IS IT APPROPRIATE FOR THE COMMISSION TO CONSIDER THESE CUSTOMER  
26 SAVINGS AND LOWER EARNINGS IN SETTING OTP'S RETURN ON EQUITY?

27 A. Yes. OTP witness Mr. Robert B. Hevert recommends that the Commission consider  
28 OTP's under-budget completion of the Big Stone AQCS Project when setting OTP's  
29 return on equity (ROE). Considering this accomplishment in setting the ROE for OTP  
30 would help to reinforce that prudent execution of capital projects and the resulting cost

1 savings for customers is a priority of both utilities and regulators. While OTP has always  
2 made the prudent execution of capital expenditures one of its most important business  
3 priorities, OTP believes that reinforcement of that priority in the setting of OTP's  
4 authorized ROE is appropriate in this case from a regulatory perspective.

5 **B. Hoot Lake MATS Project**

6 Q. WHAT WILL YOU DISCUSS IN THIS SUBSECTION?

7 A. In this subsection, I will discuss the Hoot Lake MATS Project, which OTP also  
8 completed under budget.

9  
10 Q. WHAT IS THE HOOT LAKE MATS PROJECT?

11 A. The Hoot Lake MATS Project involved the upgrade of Electrostatic Precipitators and the  
12 installation of an Activated Carbon Injection system at Hoot Lake. The Hoot Lake MATS  
13 Project is designed to control mercury and particulate matter emissions at the plant. The  
14 project is described in greater detail in Mr. Phinney's Direct Testimony.

15  
16 Q. DID OTP COMPLETE THE HOOT LAKE MATS PROJECT AT A COST  
17 SUBSTANTIALLY BELOW BUDGET?

18 A. Yes. Mr. Phinney explains in his Direct Testimony that the final capital cost for the Hoot  
19 Lake MATS Project is \$7.145 million (OTP Total), which is \$2.8 million (28 percent)  
20 below the total original project budget of \$10 million (OTP Total).

21  
22 Q. IS OTP PROPOSING TO CHANGE TO HOW HOOT LAKE MATS PROJECT  
23 CAPITAL COSTS ARE RECOVERED?

24 A. Yes. The South Dakota jurisdictional share of the Hoot Lake MATS Project capital costs  
25 currently are being recovered through the ECRR. Mr. Haugen describes OTP's proposal  
26 to move the Hoot Lake MATS Project capital costs from the ECRR into base rates  
27 effective at the time OTP is proposing to implement interim rates in this case.

28

1 Q. DOES THIS PROPOSAL INCREASE COSTS TO CUSTOMERS?

2 A. No. Moving the Hoot Lake MATS Project from the ECRR into base rates is merely a  
3 change to how the costs of the project are recovered.

4 **C. Transmission Projects**

5 Q. WHAT WILL YOU DISCUSS IN THIS SUBSECTION OF YOUR DIRECT  
6 TESTIMONY?

7 A. In this subsection, I will provide background information and a description of OTP's  
8 major completed transmission projects, which are included in OTP's proposal to roll  
9 transmission projects now included in OTP's Transmission Cost Recovery Rider (TCRR)  
10 into base rates. Mr. Haugen will explain that proposal in his Direct Testimony.

11  
12 Q. PLEASE BRIEFLY DESCRIBE THE MAJOR TRANSMISSION PROJECTS IN  
13 WHICH OTP HAS INVESTED SINCE OTP'S LAST RATE CASE?

14 A. OTP has been involved with numerous transmission projects since OTP's last rate case in  
15 2010. The most significant completed projects include: (1) the Big Stone South to  
16 Brookings multi-value project (MVP); (2) the CAPX2020 transmission projects,  
17 including Fargo to Monticello, Bemidji to Grand Rapids, and Brookings to Hampton; (3)  
18 the Casselton to Buffalo 115kV project, and (4) the Oakes Area transmission project. The  
19 Commission has reviewed and approved each of these projects for cost recovery in prior  
20 proceedings as noted in Mr. Haugen's testimony.

21  
22 Q. WHAT WAS THE PURPOSE OF THE BIG STONE SOUTH TO BROOKINGS  
23 PROJECT?

24 A. The Big Stone South-Brookings County project is a 70-mile, 345kV transmission line  
25 built between a new Big Stone South Substation near Big Stone City, S.D., and the  
26 Brookings County Substation near Brookings, S.D. The project is one of 17 MVPSS  
27 approved by the Midcontinent Independent System Operator (MISO) in December 2011.  
28 The MVPs will help expand and enhance the region's transmission system, reduce  
29 congestion, provide access to affordable energy sources and meet public policy

1 requirements, including renewable energy mandate. The project was placed in service in  
2 September 2017.

3  
4 Q. PLEASE BRIEFLY DESCRIBE THE CAPX2020 TRANSMISSION PROJECTS.

5 A. The three CAPX2020 transmission projects in which OTP has invested are part of the  
6 CAPX2020 portfolio of five projects formed to upgrade and expand the electric  
7 transmission grid to ensure continued reliable and affordable service. The total  
8 CAPX2020 portfolio involves an 800 mile, nearly \$2 billion investment initiative,  
9 including four 345kV transmission lines and one 230kV line involving 11 transmission-  
10 owning utilities in South Dakota, North Dakota, Minnesota and Wisconsin. The  
11 CAPX2020 portfolio projects were approved by MISO as part of its Transmission  
12 Expansion Planning process, which identifies issues and opportunities, develops  
13 alternatives for consideration, and evaluates those alternatives to determine effective  
14 transmission solutions.

15  
16 Q. PLEASE DESCRIBE OTP'S CAPX2020 PROJECTS.

17 A. OTP has participated in three CAPX2020 projects: (1) CAPX2020 Fargo to Monticello;  
18 (2) CAPX2020 Bemidji to Grand Rapids; and (3) CAPX2020 Brookings to Hampton.  
19 The CAPX2020 Fargo to Monticello project includes 240 miles of 345kV line running  
20 from Fargo, North Dakota to Monticello, Minnesota and associated upgrades. The project  
21 was energized April 2, 2015.

22 The CAPX2020 Bemidji to Grand Rapids project, which is inclusive of the  
23 Bemidji to Cass Lake segment, is a 70-mile 230kV line running from Bemidji, Minnesota  
24 to Grand Rapids, Minnesota. The project was energized September 2012.

25 Finally, the CAPX2020 Brookings to Hampton includes 250 miles of 345kV line  
26 running from Brookings, South Dakota to Hampton, Minnesota. The project, which  
27 connects to new renewable generation resources in southern and western Minnesota and  
28 North Dakota and South Dakota, was energized March 26, 2015.

1 Q. PLEASE DESCRIBE THE CASSELTON TO BUFFALO AND OAKES PROJECTS.

2 A. The Casselton to Buffalo project includes 16 miles of 115kV line and related  
3 modifications and replacements. The project was completed and placed in-service in  
4 November 2017. The Oakes projects includes upgrades to the transmission system around  
5 Oakes, North Dakota. This project was completed in late 2015.

6

7 Q. IS OTP NOW RECOVERING THE COST OF THESE PROJECTS IN OTP'S TCRR?

8 A. Yes. The South Dakota allocated portion of the costs of each of these transmission  
9 projects is included in the eight completed projects that OTP is recovering through the  
10 TCRR.

11

12 Q. WHAT IS OTP'S PROPOSAL REGARDING THOSE COMPLETED  
13 TRANSMISSION PROJECTS CURRENTLY BEING RECOVERED IN OTP'S TCRR?

14 A. OTP is proposing to roll the recovery of these investments out of the TCRR and into base  
15 rates at the time Otter Tail proposes interim rates to go into effect in this case. Mr.  
16 Haugen discusses the roll-in of these projects into base rates in his Direct Testimony.

17 **D. Customer Information System**

18 Q. WHAT WILL YOU DISCUSS IN THIS SUBSECTION OF YOUR DIRECT  
19 TESTIMONY?

20 A. In this subsection, I will provide background information and a description of OTP's new  
21 Customer Information System which OTP refers to internally as "CISone."

22

23 Q. IS OTP NOW IMPLEMENTING CISONE?

24 A. Yes. As OTP witness Mr. Bruce Gerhardson briefly describes in his Direct Testimony,  
25 OTP is implementing CISone to replace an existing legacy customer information system  
26 that OTP built internally and has been using for almost 30 years. Among other things,  
27 customer billing will be one of the key functional business operations that will transfer  
28 from the legacy system to the new CISone system. Mr. Gerhardson outlines numerous  
29 other functional improvements CISone will provide as OTP builds critical technical  
30 infrastructure to address changing needs of both customers and OTP employees. OTP's

1 current estimated cost of the system is \$15.8 million (OTP Total) / \$1.5 million (OTP  
2 SD).

3  
4 Q. PLEASE FURTHER DESCRIBE THE ADDITIONAL FUNCTIONALITY THAT  
5 CISONE WILL PROVIDE OTP'S CUSTOMERS AND EMPLOYEES.

6 A. There are many benefits that OTP customers and employees will realize once CISone is  
7 implemented. Much of this is due to the limitations of the current system due to its age.  
8 One significant source of high-level benefit will be the system's ability to "talk" to other  
9 OTP systems through interfaces, allowing data to flow in real-time rather than through  
10 overnight batches and file transfers as is currently done. This will allow information  
11 exchange at a much more rapid pace. Other benefits include:

- 12 • **Ease of new or updated rate implementation:** The existing CIS is limited due  
13 to field and capacity constraints and updating or changing rates or riders takes  
14 significant database modification. CISone will allow OTP to more easily prepare  
15 for rate/rider updates and changes, as well as provide a better process to test those  
16 changes.
- 17 • **Customer Self Service (CSS):** CISone will better support self-service and online  
18 business.
- 19 • **Mobile work management (MWM):** Mobile field workers will have access to  
20 information much more quickly, and they will have access to information that was  
21 not previously available to them in the field. "Apps" will be available through  
22 smartphones and tablets.
- 23 • **A new system will be able to support future initiatives:** CISone will support  
24 initiatives such as two-way Geographic Information System (GIS) integration,  
25 Advanced Metering Infrastructure (AMI), and Outage Management System  
26 (OMS) support.
- 27 • **Less reliance on CIS programmers and technicians:** More functions will be  
28 shifted to system end-users.
- 29 • **Improved automation:** The current CIS system is not capable of meeting current  
30 functional demands without significant manual intervention, which will not be  
31 needed with CISone.
- 32 • **Elimination of reusing of data fields:** This will minimize the risk of data  
33 corruption.



- 1 • **Easier detection and correction of billing issues:** Detection and correction will  
2 be facilitated.
- 3 • **Advanced ad-hoc reporting:** The new CIS system will come with many reports  
4 and queries that previously would have taken significant programming to develop.
- 5 • **More advanced “Checkout and Lock” features:** These features will mitigate  
6 the risk of data corruption and account errors.
- 7 • **A more robust primary/secondary failover system:** CISone is designed so that  
8 an in the event of a failure it will result in less downtime to restore.
- 9 • **Better ability to drive consistent business processes across all jurisdictions:**  
10 CISone will facilitate consistency across all jurisdictions.

11  
12 Q. WHEN DOES OTP ANTICIPATE IMPLEMENTING CISONE?

13 A. CISone is currently scheduled to “go-live” in the 4<sup>th</sup> quarter, 2018. Implementation will  
14 only occur after CISone has been fully tested to confirm that OTP’s customer billings  
15 will be accurately and correctly computed and accounted for. OTP will keep the  
16 Commission informed on the schedule during the course of this case.

17  
18 Q. HOW DOES IMPLEMENTATION OF CISONE RELATE TO THE  
19 IMPLEMENTATION OF FINAL RATES IN THIS RATE CASE?

20 A. Because the implementation of the CISone system closely aligns with the timeline of this  
21 rate case and the potential implementation date of final rates, OTP is evaluating the  
22 feasibility of simultaneously implementing final rates the same month as CISone is  
23 implemented. If simultaneous implementation is not feasible, OTP is also considering  
24 implementation of final rates in the current CIS system if this case has concluded prior to  
25 CISone implementation and the Commission deems that to be the most appropriate  
26 approach.

27 CISone also could potentially be ready for implementation ahead of  
28 implementation of final rates. If OTP implements CISone ahead of final rates, OTP  
29 believes it would be appropriate to have a two or three month “window” between  
30 implementation of CISone and final rates for further confirmation of CISone system  
31 operation. With interim rates in effect, OTP would be open to delaying implementation of  
32 final rates as an option to best align the schedules of this case and CISone



1 implementation. Customers would be protected and compensated for any delay by  
2 interest applied to any interim refund.

3  
4 Q. IS OTP SEEKING RECOVERY OF CISONE COSTS IN THIS CASE?

5 A. Yes. OTP included the CISone project, including costs, in the 2017 Test Year as a known  
6 and measurable change. CISone will only be included in final rates, not in Otter Tail's  
7 proposed interim rates. The CISone system will have a ten-year depreciable life. OTP  
8 has included a Test Year adjustment to annualize the costs associated with CISone, based  
9 on this ten-year life, into the 2017 Test Year. OTP witness Mr. Tyler A. Akerman  
10 provides further detail of the normalizing adjustment in his Direct Testimony.

11  
12 Q. WILL THE IMPLEMENTATION OF CISONE RESULT IN ANY CHANGES TO  
13 OTP'S CUSTOMER BILL CALCULATIONS, RATE DESIGNS, TARIFF  
14 LANGUAGE, OR OTP'S GENERAL RULES AND REGULATIONS?

15 A. Yes. Before filing this rate case, OTP met with Commission Staff to inform them that  
16 OTP anticipates CISone will necessitate some changes to OTP's tariffs and bills, as well  
17 as changes to the language in OTP's rate book. OTP will need Commission approval to  
18 make those changes. OTP proposes to make a separate filing sometime in the second  
19 quarter of 2018 to seek approval of the CISone tariff and bill changes. Because of the  
20 potential scenarios related to timing of the final rates and CISone, OTP and Commission  
21 Staff agreed handling these changes in a separate filing would provide greater flexibility  
22 in terms of seeking Commission approvals for CISone related changes. This flexibility is  
23 necessary should the schedule indicate CISone could be implemented ahead of the  
24 completion of this case and implementation of final rates.

25  
26 Q. ARE THERE ANY RATE PROPOSALS IN THIS CASE THAT OTP WILL NOT BE  
27 ABLE TO IMPLEMENT IN OTP'S CURRENT CIS SYSTEM?

28 A. Yes. In this case, OTP is proposing to implement an E8760 allocation of fuel and  
29 purchased power costs recovered through the Fuel Adjustment Clause rider (also known  
30 as the Fuel Clause, FCA or Energy Adjustment). I will discuss this proposed change to  
31 OTP's Fuel Clause in greater detail later in my Direct Testimony but as a summary,

1 implementing this E8760 allocation results in a distinct and separate Fuel Clause rate for  
2 each customer class. OTP's current legacy billing system is not able to facilitate a  
3 separate Fuel Clause rate for each class. This functionality is being designed into CISone.  
4 OTP proposes that, if final rates go into effect before CISone is implemented, the  
5 Commission allow OTP to delay the transition to a 10-class FCA rate until after CISone  
6 is implemented. In the interim, OTP proposes to charge all classes the same FCA rate. In  
7 OTP's recent Minnesota general rate case, the Minnesota Public Utilities Commission  
8 approved delaying a similar E8760 Fuel Clause rate implementation until OTP's CISone  
9 system is placed in service. A similar proposal is included in OTP's current North Dakota  
10 case. OTP is seeking consistency of the use of an E8760 allocator across all jurisdictions.  
11

12 Q. HAS OTP PROVIDED SEPARATE RATE SCHEDULES TO REFLECT EACH OF  
13 THESE SCENARIOS?

14 A. Yes. In Volume 3, a proposed version of Section 13.01 is provided that would be  
15 applicable to the application of the E8760 allocation to the Fuel Clause once CISone is  
16 placed into service. In this version, each customer class's specific Energy Adjustment  
17 Factor Ratio (EAF Ratio) is included. A second proposed version of Section 13.01 is  
18 provided that would be applicable in the event final rates in this case are implemented  
19 ahead of the implementation of CISone. In this version, each customer class's specific  
20 EAF Ratio is set to 1.000. In this instance, all customers would be charged the same FCA  
21 rate as I noted above.

#### 22 **IV. 2017 NORMALIZED RETAIL REVENUES**

23 Q. WHAT IS THE PURPOSE OF THIS SECTION OF YOUR TESTIMONY?

24 A. This section describes how 2017 South Dakota normalized retail revenues were  
25 determined. First, I will describe how 2017 South Dakota actual retail revenues were  
26 established. I will then describe the adjustments made to determine total 2017 normalized  
27 retail revenues for the 2017 Test Year.  
28

1           **A. 2017 Actual Retail Revenues**

2    Q.    PLEASE DEFINE RETAIL REVENUES.

3    A.    For the purposes of ratemaking, retail revenues are the total retail revenues (billed and  
4           unbilled) on a calendar month basis, plus or minus the adjustments I discuss below. In  
5           other words, the calendar month revenue includes revenue for the billed sales and  
6           estimated revenue for electricity that has been delivered to customers, but not yet billed.  
7           This includes revenues collected through base rates as well as revenues applicable to  
8           OTP’s various cost recovery riders.

9  
10   Q.   WHAT DO YOU MEAN BY “REVENUES ON A CALENDAR MONTH BASIS”?

11   A.    Calendar month revenues are determined by making an adjustment for unbilled revenues  
12           to billing month retail revenues. Billing month revenues do not coincide with the calendar  
13           month, as they are billed on cycles (20 cycles in a month for OTP). Total 2017 billed  
14           revenues for the South Dakota retail jurisdiction were \$33,113,281.

15           To have retail revenues match to the calendar year for which expenses are  
16           incurred, the incremental amount of revenues that have not been billed at the end of the  
17           year for each of the 20 billing cycles are estimated using a comprehensive model. This  
18           model calculates the unbilled revenues for 2017 that were billed in January 2018, net of  
19           the December 2016 unbilled revenues that were billed in January of 2017. For 2017, the  
20           unbilled revenue calculation increased South Dakota retail revenues by \$108,870.

21           In addition, total billed revenues are also adjusted by the amount of any over or  
22           under collection balance attributable to OTP’s cost recovery riders to reflect the actual  
23           calendar year revenue requirement within that rider. The total amount of these  
24           adjustments was a decrease to South Dakota retail revenue of (\$292,279). OTP’s total  
25           South Dakota retail revenues for 2017 before any normalizing adjustments were  
26           \$32,929,872.

1           **B. Weather Normalization**

2    Q.    HAVE ACTUAL 2017 SOUTH DAKOTA RETAIL REVENUES BEEN WEATHER  
3           ADJUSTED TO ARRIVE AT THE 2017 TEST YEAR REVENUES?

4    A.    Yes, actual 2017 South Dakota retail revenues have been weather normalized as  
5           described below.

6  
7    Q.    WHAT IS THE PURPOSE OF WEATHER NORMALIZING HISTORIC DATA?

8    A.    If OTP were using a projected test year based on a budget, a weather normalization  
9           adjustment would not be necessary, since budgets assume normal weather. However, in a  
10          test year based on historic data, the historic sales data needs to be adjusted to produce  
11          retail revenue and variable costs that are representative of the effects of “normal”  
12          weather.

13  
14   Q.    PLEASE DESCRIBE THE WEATHER NORMALIZATION METHODOLOGY USED  
15          BY OTP.

16   A.    OTP’s weather normalization process utilizes a similar methodology to what was used in  
17          OTP’s last South Dakota general rate case. For 2017, the weather normalization  
18          adjustment results in an increase to South Dakota base revenues of \$202,124. The  
19          weather normalization adjustment also results in increased fuel expenses and associated  
20          FCA revenues of approximately \$133,229 for South Dakota. The combination of these  
21          adjustments is shown as Test Year Adjustment TY-05 in Schedule 10 to Mr. Akerman’s  
22          Direct Testimony.

23                 OTP’s weather normalization process utilizes the current year plus the prior 20  
24                 years of OTP hourly weather data, monthly revenue, and monthly kWh data. A statistical  
25                 regression procedure is used to determine weather normalization models for each of 40  
26                 different rate groups within each of OTP’s three states. Variables used include: (i)  
27                 kWh/day; (ii) heating and cooling degree days; (iii) the number of months since January  
28                 1997; and (iv) up to 13 autoregressive terms. The results are checked for accuracy and  
29                 reasonableness using graphs and reports. Weather normalized kWh sales are then priced  
30                 on current rates using a calendar month basis. The resulting revenue amounts do not  
31                 include FCA revenues.

1           Consequently, to include the impact of weather normalization on the FCA,  
2 weather normalized kWh sales are multiplied by the appropriate total cost of energy rate  
3 for each of the twelve months to determine the fuel and purchased power costs. As noted  
4 above, total FCA fuel and purchased power costs and associated FCA revenues for South  
5 Dakota are \$133,229.

6  
7 Q. DOES WEATHER NORMALIZATION RESULT IN AN ADJUSTMENT TO  
8 UNBILLED REVENUES FOR THE 2017 TEST YEAR?

9 A. Yes, but not separately. As stated in the previous question, weather normalization is  
10 computed on a calendar month basis, which includes unbilled sales.

11           **C. Billing Adjustments**

12 Q. DO THE 2017 TEST YEAR SALES REFLECT ANY BILLING ADJUSTMENTS?

13 A. Yes. During 2017 OTP made minor bill adjustments attributable to time periods prior to  
14 2017. There have also been billing adjustments made in early 2018 that were attributable  
15 to 2017.

16           Test Year Adjustment TY-06 in Schedule 10 to Mr. Akerman's Direct Testimony  
17 moves the revenues and associated estimated fuel costs to the proper year. These  
18 adjustments increase 2017 South Dakota revenues by \$4,325, and associated fuel costs by  
19 \$2,179.

20           **D. Total 2017 Normalized Retail Revenues**

21 Q. WHAT ARE THE TOTAL NORMALIZED SOUTH DAKOTA RETAIL REVENUES  
22 FOR 2017?

23 A. Table 1 below summarizes OTP's total 2017 normalized South Dakota retail revenues.  
24

1 **Table 1**

2 Total 2017 SD Normalized Retail Revenue Summary

<b>Revenue Component</b>	<b>SD Total</b>
Billed Revenues	\$33,113,281
Unbilled Revenue	\$108,870
Rider Revenue Adjustments	\$(292,279)
<b>Total 2017 Retail Revenue</b>	<b>\$32,929,872</b>
Weather Normalization Adjustments (Base + Fuel)	\$335,353
Billing Adjustments	\$4,325
<b>Total 2017 Normalized Retail Revenue</b>	<b>\$33,269,550</b>

3  
4 Mr. Haugen provides further detail in his Direct Testimony as to OTP's proposed  
5 class revenue responsibilities.

6 **V. JURISDICTIONAL AND CLASS ALLOCATORS**

7 Q. WHAT IS THE PURPOSE OF THIS SECTION OF YOUR DIRECT TESTIMONY?

8 A. In this section of my Direct Testimony, I will discuss the use of jurisdictional and class  
9 allocators. I will discuss Test Year allocators used by OTP, including the E8760  
10 allocator.

11  
12 Q. WHAT ARE THE ROLES OF JURISDICTIONAL AND CLASS ALLOCATORS IN  
13 THE RATEMAKING PROCESS?

14 A. Jurisdictional allocators are used to allocate system costs among jurisdictions and class  
15 allocators are used to allocate jurisdictional costs among customer classes.

16  
17 Q. WHY ARE JURISDICTIONAL AND CLASS ALLOCATORS NECESSARY?

18 A. OTP operates an integrated electrical system that serves customers across multiple  
19 jurisdictions. This integrated system design takes advantage of economies of scale to  
20 provide least cost energy solutions for all our customers. Because OTP operates as one

1 system, costs of investment in the system and the expenses necessary to operate the  
 2 system need to be allocated among the jurisdictions. Costs allocated to each jurisdiction  
 3 need to be further allocated to customer classes to design rates.  
 4

5 Q. HOW DO THESE ALLOCATIONS OCCUR?

6 A. System costs and revenues are allocated to jurisdictions in the Jurisdictional Cost of  
 7 Service Study (JCOSS) described in more detail by Mr. Akerman. Jurisdictional costs  
 8 and revenues are allocated to customer classes in the Class Cost of Service Study  
 9 (CCOSS) described by Mr. Haugen.

10 **A. Test Year JCOSS and CCOSS Allocators**

11 Q. WHAT ALLOCATORS DID OTP USE IN ITS TEST YEAR JCOSS AND CCOSS?

12 A. Table 2 below identifies the main allocators used in the 2017 Test Year JCOSS and  
 13 CCOSS. The OTP Cost Allocation Procedures Manual (CAPM), included as  
 14 Exhibit\_\_(SDT-1), Schedule 3, provides additional detail regarding the development of  
 15 each allocator.  
 16

17 **Table 2**

18 JCOSS and CCOSS Allocators

Cost Function	Classification	JCOSS Allocator <sup>2</sup>	CCOSS Allocator <sup>3</sup>
Production Plant	Base Demand	E1	E1-E8760
	Peak Demand	D1	D1
	Base Energy (Wind)	E2	E2-E8760
Transmission Plant	Demand-Related	D2	D2
Distribution Plant	Demand-Related (Primary)	D3	D3
	Demand-Related (Secondary)	D4	D4
	Customer-Related (Primary)	C2	C2
	Customer-Related (Secondary)	C3	C3
	Street Lighting	C4	C4
	Area Lighting	C5	C5
	Meters	C6	C6
	Load Management	C9	C9

19  
 \_\_\_\_\_  
<sup>2</sup> See Volume 4A, Section C, Supporting Information, Schedule B-7.

<sup>3</sup> See Volume 4A, Section C, Supporting Information, Schedule E-3.

1 Q. HAS OTP CHANGED THE CAPM SINCE ITS LAST SOUTH DAKOTA RATE  
2 CASE?

3 A. Yes. OTP has refined the language pertaining to the classification and allocation of wind  
4 generation resources, as well as other minor clarifications and formatting updates since  
5 OTP's last South Dakota rate case in 2010. Exhibit (SDT-1), Schedule 3, provides the  
6 content changes in red-line and clean versions.

7  
8 Q. DID OTP USE THESE SAME ALLOCATORS IN ITS LAST SOUTH DAKOTA  
9 RATE CASE?

10 A. Yes. We used the same energy, demand and customer allocation factors outlined in the  
11 CAPM for cost allocations in this case as we did in our last South Dakota rate case except  
12 for the addition of an E8760 allocator for the CCOSS and Fuel Clause Adjustment Rider.

13  
14 Q. ARE THE ALLOCATORS USED IN THE CURRENT CASE BASED ON  
15 HISTORICAL INFORMATION?

16 A. Yes. OTP is using a historic 2017 Test Year in this case and developed the allocation  
17 factors based on 2017 actual information, adjusted for the known and measurable  
18 changes I discussed earlier. This is consistent with the historical Test Year used in OTP's  
19 last South Dakota rate case. The process of developing the allocators is described in the  
20 CAPM.

21  
22 Q. DOES OTP USE THE SAME ALLOCATION METHODOLOGIES ACROSS ALL OF  
23 ITS JURISDICTIONS?

24 A. Yes. Each of our jurisdictions has approved the same jurisdictional cost allocation  
25 methodology. OTP's proposal to implement the E8760 allocator for class cost of service  
26 allocations is also consistent with what has been approved or proposed in OTP's other  
27 jurisdictions as well.

28



1           **B. E8760 Allocator**

2    Q.    WHAT IS AN E8760 ALLOCATOR?

3    A.    An E8760 allocator applies a cost factor to each kWh of energy consumed for every one  
4           of the 8,760 hours in the year to develop a weighted cost of energy factor. The E8760  
5           allocator reflects changes in the cost of energy from hour to hour.

6  
7    Q.    HOW IS AN E8760 ALLOCATOR DIFFERENT FROM THE E1 AND E2  
8           ALLOCATORS?

9    A.    While the E8760 allocator reflects changes in the cost of energy from hour to hour,  
10           OTP's E1 and E2 allocation factors are computed based solely on energy consumed,  
11           without any consideration for the associated date and time of consumption and  
12           corresponding hourly cost of that energy. The difference between the E1 allocator and the  
13           E2 allocator is that E1 excludes residential demand control, interruptible, irrigation, and a  
14           portion of water heating and deferred sales.

15  
16   Q.    HOW DID OTP DEVELOP THE E1-E8760 AND E2-E8760 ALLOCATORS?

17   A.    The class E8760 allocators were developed in five steps as follows:

18           Step 1: Develop Load Shapes. OTP developed class-based load shapes for each of the  
19           8,760 hours based on load research data from 2016, the last full year of data available.

20           Step 2: Apply Load Shapes to Class Sales within South Dakota. The 2016 class-based  
21           load shapes were applied to 2017 class sales for South Dakota. This resulted in a  
22           distribution of all sales within each class, across all 8,760 hours of the year for South  
23           Dakota.

24           Step 3: Apply Hourly Costs to Class-Based Load Shapes for South Dakota: OTP  
25           multiplied the actual hourly class sales by hourly 2017 MISO Day Ahead Locational  
26           Marginal Prices for the OTP load zone, which results in hourly costs by class.

27           Step 4: Sum Class Hourly Costs: This results in total energy costs over the 8,760 hours  
28           for each class.

29           Step 5: Compare Class Energy Costs to Total Energy Costs: This results in the E8760  
30           allocators, which are shown in Table 3 below.

31

1 Q. HAS OTP USED THE E1-E8760 AND E2-E8760 ALLOCATORS IN THE CCOSS?  
2 A. Yes. OTP allocated energy-related production plant costs using the E1-E8760 and E2-  
3 E8760 allocators in the CCOSS.

4 **VI. FUEL ADJUSTMENT CLAUSE RIDER**

5 Q. WHAT IS THE PURPOSE OF THIS SECTION OF YOUR DIRECT TESTIMONY?

6 A. In this section of my Direct Testimony, I will discuss a proposed change to the name of  
7 the Fuel Adjustment Clause Rider, Electric Rate Schedule 13.01, and the use of the  
8 E8760 allocator I just discussed, in that rider. I will also discuss removal of any reference  
9 to non-asset-based trading from that rate schedule.

10

11 Q. IS OTP PROPOSING A NEW NAME FOR THE FUEL ADJUSTMENT CLAUSE  
12 RIDER?

13 A. Yes. OTP proposes to change the name of Electric Rate Schedule 13.01 from the Fuel  
14 Adjustment Clause Rider to the Energy Adjustment Rider to be consistent with the  
15 naming conventions of the comparable riders in OTP's other jurisdictions. I will use that  
16 proposed term throughout the rest of my testimony.

17

18 Q. DOES OTP PROPOSE TO USE AN E8760 ALLOCATOR TO ALLOCATE FUEL  
19 COSTS IN ITS ENERGY ADJUSTMENT RIDER?

20 A. Yes. OTP proposes to use an E8760 allocator in its Energy Adjustment Rider.

21

22 Q. WHAT IS THE RATIONALE FOR COMPUTING AND USING AN E8760  
23 ALLOCATOR FOR ENERGY ADJUSTMENT RIDER?

24 A. Energy usage can vary significantly between customer classes over the course of a day,  
25 week, month or year. At the same time, costs to provide that energy also vary each day,  
26 week, month or year. The E8760 allocator takes into account when energy is used and the  
27 associated cost of that energy and creates an appropriate weighting of the overall cost  
28 each class is accountable for. As a result, the E8760 allocator yields a distinct and

1 separate Energy Adjustment Rider rate for each customer class that more accurately  
 2 reflects the cost causation responsibility of that class for energy costs.

3  
 4 Q. HOW DOES THE USE OF THE E8760 ALLOCATOR IMPACT CLASS  
 5 ALLOCATIONS OF FUEL COSTS?

6 A. For illustrative purposes, Table 3 below shows how the 10 customer classes are impacted  
 7 using the average fuel rate and applying the E2-E8760 allocator. The average fuel rate  
 8 shown is based on total system costs, which is consistent with how fuel is calculated and  
 9 as summarized in Volume 1, Statement P.

10  
 11 **Table 3**

<b>Fuel Allocation</b>	<b>A</b>	<b>B</b>	<b>C</b>
<b>Customer Classes</b>	<b>Avg Fuel \$/kWh</b>	<b>E2-E8760 Allocation Ratio</b>	<b>E2-E8760 Avg Fuel \$/kWh</b>
			<b>(A*B)</b>
Residential (RDC/RES)	\$ 0.026153	1.0240	\$ 0.026779
Farms (FAR)	\$ 0.026153	1.017	\$ 0.026587
General Service (TUS/GSO/GSU)	\$ 0.026153	1.031	\$ 0.026975
Large General Service (PLG/SLG/TLG)	\$ 0.026153	0.981	\$ 0.025661
Irrigation Services (IRR)	\$ 0.026153	0.912	\$ 0.023838
Outdoor Lighting (ALT/SLT)	\$ 0.026153	0.808	\$ 0.021140
OPA (OPA)	\$ 0.026153	1.007	\$ 0.026327
Controlled Service Water Heating (WHR)	\$ 0.026153	1.038	\$ 0.027154
Controlled Service Interruptible (LDF/SDF)	\$ 0.026153	1.013	\$ 0.026484
Controlled Service Deferred (DFL/FTD)	\$ 0.026153	0.946	\$ 0.024739

12  
 13  
 14 Q. HOW DOES OTP PROPOSE TO USE THE E2-E8760 ALLOCATOR IN THE  
 15 ENERGY ADJUSTMENT RIDER?

16 A. OTP proposes to allocate costs through the Energy Adjustment Rider using the E2-E8760  
 17 allocation method as a basis for cost allocation. OTP proposes to continue calculating a  
 18 monthly average fuel rate and then apply the E2-E8760 allocation ratio to derive an E2-  
 19 E8760 based fuel cost per kWh which is then applied to each of the 10 customer classes.

1 Q. WHEN DOES OTP PROPOSE TO IMPLEMENT USE OF THE E2-E8760  
2 ALLOCATOR FOR THE ENERGY ADJUSTMENT RIDER?

3 A. OTP proposes to begin use of the E2-E8760 allocator for Energy Adjustment Rider  
4 purposes at the time final rates go into effect, provided the CISone system is in service.  
5 As described earlier in my testimony, CISone is scheduled to “go-live” in the 4<sup>th</sup> quarter  
6 of 2018. OTP’s current legacy billing system is unable to calculate a separate Energy  
7 Adjustment Rider rate for each of the ten customer classes, which is necessary to  
8 implement use of the E8760 allocator. Therefore, implementation would need to be  
9 delayed until CISone is in service.

10

11 Q. IS OTP PROPOSING A MODIFICATION TO THE ENERGY ADJUSTMENT RIDER  
12 RELATED TO NON-ASSET BASED TRADING?

13 A. Yes. OTP is proposing to remove Paragraph 13 of Electric Rate Schedule 13.01, as OTP  
14 is currently no longer involved in non-asset-based trading. I discuss this change to non-  
15 asset-based trading later in my testimony.

## 16 **VII. CORPORATE COST ALLOCATIONS**

17 Q. WHAT WILL YOU DISCUSS IN THIS SECTION OF YOUR DIRECT TESTIMONY?

18 A. In this section of my Direct Testimony, I will explain how corporate costs that are  
19 incurred by Otter Tail Corporation in connection with the services provided by Otter Tail  
20 Corporation for the operation of OTP are handled in the 2017 Test Year.

21

22 Q. PLEASE DESCRIBE THE OWNERSHIP STRUCTURE OF OTP AND OTTER TAIL  
23 CORPORATION.

24 A. OTP is a wholly owned subsidiary of Otter Tail Corporation. In 2008, Otter Tail  
25 Corporation filed a petition with the Commission seeking approval to form a new holding  
26 company through restructuring, with the purpose of establishing OTP as a separate,  
27 subsidiary corporation. The Commission approved the request on October 30, 2008, and  
28 as of July 1, 2009, OTP became a separate legal entity, instead of an operating division,  
29 which OTP had been prior to the formation of Otter Tail Corporation.

1 Q. WHAT SERVICES DOES OTTER TAIL CORPORATION PROVIDE TO OTP?

2 A. Otter Tail Corporation provides the following services to OTP: financial reporting, tax  
3 planning and reporting, treasury, financial planning, corporate communications, internal  
4 audit, benefits plans, safety and risk management, shareholder services and investor  
5 relations, aviation and executive management services.

6

7 Q. ARE THESE SERVICES GOVERNED BY ANY AGREEMENTS?

8 A. Yes. At the time of the restructuring, OTP entered into three agreements with Otter Tail  
9 Corporation: (i) an Administrative Services Agreement that describes how services are  
10 provided from Otter Tail Corporation to OTP and how costs for such services are  
11 assigned and allocated to OTP; (ii) a Tax Sharing Agreement that describes how tax  
12 obligations and benefits are to be allocated; and (iii) a Cash Management Agreement that  
13 describes how cash management services can be provided by Otter Tail Corporation to  
14 OTP. Currently, no cash management services are being provided by Otter Tail  
15 Corporation to OTP.

16

17 Q. HOW ARE OTP TAXES COMPUTED UNDER THE TAX SHARING AGREEMENT?

18 A. OTP computes its taxes on a standalone basis, exclusive of Otter Tail Corporation. The  
19 determination of taxes on a standalone basis means that OTP incurs the same taxes as if it  
20 was a separate corporation and does not incur any taxes for Otter Tail Corporation or for  
21 the business of other subsidiaries of Otter Tail Corporation. All tax decisions for OTP are  
22 based on strategies beneficial to its ratepayers. All tax calculations included in the 2017  
23 Test Year are based only on OTP financial performance. The tax calculations included in  
24 this Test Year are detailed in Volume 4A, Supporting Information, Schedule C-7.

25

26 Q. HOW DO THE SERVICES PERFORMED BY OTTER TAIL CORPORATION  
27 COMPARE WITH THE SERVICES PERFORMED BY SUBSIDIARY SERVICE  
28 COMPANIES OF SOME OTHER UTILITY HOLDING COMPANIES?

29 A. The services performed for OTP by Otter Tail Corporation are less extensive than service  
30 performed by other holding company service company subsidiaries, such as Xcel  
31 Energy's corporate services unit. Otter Tail Corporation does not process OTP's invoices

1 or customers' bills; it does not perform billing for OTP; it does not manage OTP's human  
2 resources (HR), information technologies (IT), or procurement. Rather, OTP directly  
3 provides its own accounting, bill and invoice processing, IT, HR, supply chain,  
4 engineering, rates and regulation, payroll, marketing and sales, fuel and energy  
5 procurement, and customer service.  
6

7 Q. HOW DID YOU ARRIVE AT THE APPROPRIATE LEVEL OF OTTER TAIL  
8 CORPORATION EXPENSES TO INCLUDE IN THE TEST YEAR?

9 A. Under the Administrative Services Agreement, the costs of corporate functions are  
10 allocated using the allocation methodology and specific allocation factors described in  
11 the Corporate Cost Allocation Manual (CAM), included as Exhibit\_\_(SDT-1), Schedule  
12 4. Allocation factors were applied to actual 2017 corporate expenses, adjusted for certain  
13 corporate expenses which have either been capped or disallowed in prior Commission  
14 Orders. Both redline, and clean copies of the 2017 CAM are provided in Schedule 4.  
15

16 Q. HOW WERE THE COST ALLOCATION METHODOLOGIES DEVELOPED?

17 A. The following goals were considered when the corporate cost allocation methodology  
18 was developed:

- 19 1) The result should fully allocate costs;
- 20 2) Costs are directly assigned where possible;
- 21 3) If direct assignment is not possible, an indirect allocation will be made if there is a  
22 cost causative link to another cost category for which direct assignment is used;
- 23 4) When neither direct nor indirect cost causation can be found, a representative  
24 general allocator is used;
- 25 5) The result is equitable for customers and shareholders;
- 26 6) The methodology is easy to administer – no additional studies or data gathering is  
27 needed; and
- 28 7) The allocators have components that are based on verifiable public information, to  
29 the extent possible.  
30

1 Q. PLEASE EXPLAIN THE ALLOCATION PROCESS IN MORE DETAIL.

2 A. Otter Tail Corporation costs can be charged to OTP or to Otter Tail Corporation's non-  
3 utility operations. The allocation process uses three steps. First, all labor and other costs  
4 that are appropriate for direct assignment to OTP or non-utility operations are identified  
5 and directly assigned. Members of the Corporate Group use timesheets to directly assign  
6 labor. Invoices and other costs are directly assigned as appropriate. In the 2017 Test  
7 Year, approximately 42 percent of all Otter Tail Corporation costs were allocated to OTP  
8 or non-utility operations using direct assignment.

9 Second, indirect allocators are used for certain functions. Indirect allocators are  
10 used where an indirect-cost causative linkage to another cost category or group of cost  
11 categories exists. About 17 percent of corporate costs were allocated to OTP or non-  
12 utility operations using indirect allocators.

13 The remaining 41 percent of corporate costs are not appropriate for either direct  
14 assignment or indirect allocation. These costs are allocated to OTP or non-utility  
15 operations using the general allocator that is composed of revenues, assets and labor  
16 dollars, equally weighted.

17

18 Q. HOW MUCH OF THE TOTAL OTTER TAIL CORPORATION COST IS  
19 ALLOCATED TO OTP IN THE 2017 TEST YEAR?

20 A. Table 4, below, shows the allocation of Otter Tail Corporation costs for the 2017 Test  
21 Year.

22

23

24

**Table 4**

Otter Tail Corporation Cost Allocation

	Otter Tail Corporation 2017 Costs		SD Share
Allocated to OTP	\$10,294,461 <sup>4</sup>	51.5%	\$859,751 <sup>5</sup>
Allocated to Non-Utility	\$9,694,759	47.9%	
Total Corporate Costs	\$19,989,220	100.0%	

25

---

<sup>4</sup> OTP Allocation before any adjustments \$10,294,461  
Net billings and accruals to Otter Tail Corporation (\$17,769)  
Total Net Corporate Costs to OTP (Before Incentive Cap) \$10,276,692 (Volume 1 Statement H-4 Line 37)

<sup>5</sup> Volume 1 Statement H-4, Line 47 SD Share.

1 Q. DOES THE ALLOCATION IN TABLE 4 REFLECT THE COMMISSION'S  
2 DECISIONS ON INCENTIVE COMPENSATION?

3 A. Yes. The Otter Tail Corporation costs allocated to OTP in the 2017 Test Year reflect the  
4 Commission's decisions regarding bonuses and incentive compensation in determining  
5 the South Dakota share. Specifically, Otter Tail Corporation executives' bonuses and  
6 incentive compensation are capped at 25 percent of base salary, as reflected in Volume  
7 4A, Section B, workpaper B-16. Statement H-4 shows the adjustment made to calculate  
8 the South Dakota amount.  
9

10 Q. ARE THE COSTS REFLECTED IN TABLE 4 REASONABLE AND APPROPRIATE  
11 FOR INCLUSION IN THE 2017 TEST YEAR?

12 A. Yes. All costs have been allocated in a manner consistent with prior cases. The Otter Tail  
13 Corporation costs reflected in Table 4 are reasonable and appropriate for inclusion in the  
14 2017 Test Year. Approximately 70 percent of operating and net income for Otter Tail  
15 Corporation is derived from OTP,<sup>6</sup> yet as Table 4 above reflects, only 51.5 percent of  
16 Corporate costs are allocated to OTP.

## 17 **VIII. ECONOMIC DEVELOPMENT RATES**

18 Q. WHAT TOPICS WILL YOU DISCUSS IN THIS SECTION OF YOUR DIRECT  
19 TESTIMONY?

20 A. In this section of my Direct Testimony, I will discuss two new economic development  
21 rates being proposed by OTP.  
22

23 Q. DOES OTP'S CURRENT RATE STRUCTURE SUPPORT ECONOMIC  
24 DEVELOPMENT?

25 A. Yes. As Mr. Gerhardson points out in his Direct Testimony, OTP has the 4<sup>th</sup> lowest  
26 blended rate for all customers in the United States, and the second lowest of any investor-

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<sup>6</sup> Derived from page 5 of Otter Tail Corporation's 2017 Annual Report to Shareholders. Operating Income for OTP was \$90 million; Otter Tail Corporation operating income was \$126 million. Similarly, OTP accounted for \$49 million of Otter Tail Corporation's total net income of \$72 million.



1 owned utility in South Dakota. High energy use entities that may be considering locating  
2 or expanding in South Dakota will give careful consideration to low rates in evaluating  
3 their options, including locating in areas in South Dakota that OTP serves. OTP's high  
4 customer satisfaction and reliable service are additional supporting factors that helps OTP  
5 attract new load.

6  
7 Q. IS OTP PROPOSING ANY NEW RATES IN THIS CASE THAT WOULD SUPPORT  
8 FURTHER ECONOMIC DEVELOPMENT IN SOUTH DAKOTA?

9 A. Yes. In this case, OTP is proposing two new rate offerings: a new Economic  
10 Development Rider-Large General Service (EDR) rate; and a new Super Large General  
11 Service (Super LGS) rate offering. In order to expand OTP's "tool-box" of rate offerings  
12 to help attract new business, OTP has designed these two rate offerings to enhance OTP's  
13 potential to attract business to South Dakota. Both rate mechanisms would allow OTP to  
14 compute customer-specific rate quotes in the form of a discount, using a formulaic  
15 approach that insures that a proposed discount will still yield benefits to all other  
16 customers should the customer take service from OTP. OTP witness Mr. David Prazak  
17 provides the details associated with these new rate offerings in his Direct Testimony,  
18 along with proposed rate schedules for each.

19  
20 Q. PLEASE BRIEFLY DESCRIBE THE ECONOMIC DEVELOPMENT-LARGE  
21 GENERAL SERVICE RIDER RATE.

22 A. The mechanism calculates a proposed rate discount off OTP's Large General Service  
23 Rider rate. OTP could potentially offer a discount for up to a five-year period with this  
24 rider. OTP has developed a model to price the potential discount while ensuring that the  
25 potential customer will at least pay the annual incremental (marginal) costs to serve them.  
26 This helps ensure net benefits are realized by all other customers through the addition of  
27 the load.

28  
29 Q. PLEASE BRIEFLY DESCRIBE THE SUPER LGS RATE.

30 A. The Super LGS rate is intended for very large, high load factor customers such as a data  
31 processing facility or a large agricultural processing facility that might have a connected

1 load of 25 MWs or more and run at a very high capacity level (at least 80 percent load  
2 factor). Following a similar approach as the EDR rate, a rate would be computed based  
3 on a customer's specific operating profile and would be set at a level which still provides  
4 benefits to other customers. Unlike the EDR rate, the Super LGS rate could continue  
5 beyond a five-year period.

6  
7 Q. PLEASE EXPLAIN FURTHER HOW THESE RATES BENEFIT OTHER  
8 CUSTOMERS.

9 A. The computation of these rates takes into account the marginal costs OTP would incur to  
10 serve these customers. Because these marginal costs are covered under both rate  
11 offerings, the incremental margins over and above the marginal costs helps cover OTP's  
12 fixed costs of service. Other customers realize the benefit of these new customers in at  
13 least two ways. First, in the near term (for example when a rider filing such as the TCRR  
14 is made), the costs being recovered within the rider would be spread over a greater  
15 number of KWs or kWhs, reducing the effective rate that all customers would pay.  
16 Second, adding new load that contributes incremental margin to OTP could help delay  
17 the need for future rate cases. When rates are reset in the next rate case, again, the costs  
18 would be spread over a greater number of KWs and kWhs keeping rates lower than  
19 without these customers.

20  
21 Q. ARE THERE OTHER BENEFITS IF THESE RATES ARE SUCCESSFUL IN  
22 ATTRACTING NEW BUSINESS TO OTP AREAS IN SOUTH DAKOTA?

23 A. Yes. For example, attracting a large agricultural processing facility or data processing  
24 facility would certainly bring with it new employment opportunities; potentially attract  
25 more people to the communities OTP serves; provide further economic activity to  
26 existing or potentially new additional businesses providing products and services to the  
27 area; increase the state's tax base that would drive increased property, sales, and income  
28 taxes for the state.

29

1 Q. HOW WOULD YOU SUMMARIZE OTP'S NEED FOR ECONOMIC  
2 DEVELOPMENT RATES?

3 A. The sustainability of the small towns OTP serves across rural South Dakota is critical for  
4 OTP's long-term success and its commitment to provide low cost, safe, reliable energy to  
5 all customers. A declining customer base results in OTP costs being spread over fewer  
6 customers, resulting in an increasing effect on future rates. OTP, its customers, and the  
7 state of South Dakota all benefit when economic development efforts facilitate the  
8 attraction and development of new business and the expansion or retention of existing  
9 business. OTP's design of the economic development rates discussed above assure  
10 benefits are realized to all parties involved.

11 **IX. LEAD LAG STUDY**

12 Q. WHAT IS THE PURPOSE OF THIS SECTION OF YOUR DIRECT TESTIMONY?

13 A. In this section of my Direct Testimony, I will explain OTP's Lead Lag Study.  
14

15 Q. WHAT IS THE PURPOSE OF THE LEAD LAG STUDY?

16 A. The Lead Lag Study is a widely used and accepted method for developing the Cash  
17 Working Capital (CWC) component of rate base in connection with the determination of  
18 revenue requirements. This study analyzes the lapse of time between the average day on  
19 which a utility incurs expenses to serve its customers and the average day on which cash  
20 is received from customers in payment of that service. Lead days refer to the days  
21 between incurring an expense and paying for it. Lag days refer to the days between  
22 rendering a service and receiving payment for that service.  
23

24 Q. HAS OTP'S LEAD LAG STUDY BEEN UPDATED SINCE THE LAST RATE CASE?

25 A. Yes. OTP updated its Lead Lag Study in 2015 using data from 2014.  
26

1 Q. IS THE CASH WORKING CAPITAL DETERMINATION METHODOLOGY  
2 CONSISTENT WITH OTP'S LAST RATE CASE?

3 A. Yes. The study and procedures used to calculate the working capital requirement are  
4 consistent with the approach and methodology filed by OTP and approved by the  
5 Commission in OTP's last South Dakota rate case. OTP reviewed the procedures used in  
6 the Lead Lag Study filed in that case and concluded no significant changes in policies or  
7 procedures had occurred and conducted the current study using those same procedures.  
8 The updated study is included in Volume 4B. The results of the updated Lead Lag Study  
9 are included in the CWC calculations provided in Volume 4A, Section C, Schedule B-4,  
10 pages 1-3. OTP witness Mr. Akerman discusses the overall calculation of CWC and its  
11 inclusion in rate base in his Direct Testimony.  
12

13 Q. HOW DO THE RESULTS OF THE UPDATED LEAD LAG STUDY COMPARE TO  
14 THE RESULTS OF THE STUDY USED IN OTP'S LAST RATE CASE?

15 A. The lag period has increased to 43.4 days from 38.9 days shown in OTP's last rate case in  
16 2010, with the majority of the increase coming from collections increasing from 20.07  
17 days in 2010 to 24.7 days in this latest study. As reflected in Volume 4A, Section C,  
18 Schedule B-4, page 1 of 3, OTP does not receive cash from computer-maintained billings  
19 until 43.4 days after service has been rendered. As shown on Lines 58 through 60 of  
20 Volume 4A, Section C, Schedule B-4, page 1 of 3, the 43.4 days is comprised of a 15.2-  
21 day metering period lag, a 3.5-day bill processing lag, and a 24.7-day collection period  
22 lag, which was based on the total annual billings to customers divided by the average  
23 daily utility receivable balances.

24 **X. MERRICOURT WIND PROJECT STEP INCREASE RATE**  
25 **PROPOSAL**

26 Q. WHAT IS THE PURPOSE OF THIS PORTION OF YOUR TESTIMONY?

27 A. In this section of my Direct Testimony, I will discuss OTP's proposal to include the 150  
28 MW Merricourt Wind (Merricourt) project into base rates through the use of a step  
29 increase rate upon completion of the project. Mr. Akerman addresses the financial  
30 adjustments associated with the Merricourt project to determine the increased

1 jurisdictional revenue requirement. Mr. Haugen addresses the associated class revenue  
2 requirement impacts and Mr. Prazak addresses the updates to rates attributable to the  
3 Merricourt project.  
4

5 Q. WHEN IS THE MERRICOURT PROJECT SCHEDULED TO BE PLACED IN  
6 SERVICE?

7 A. The Merricourt project is scheduled to be completed and in-service at the end of 2019.  
8

9 Q. WHY IS OTP PROPOSING A STEP INCREASE RATE FOR THE MERRICOURT  
10 PROJECT?

11 A. The Merricourt project is the largest single wind energy project in which OTP has  
12 invested in to date, with an estimated total cost of approximately \$271 million (OTP  
13 Total), \$25 million (OTP SD). Because of the size of the project and the absence of any  
14 other recovery mechanism such as a rider to recover the cost project, OTP believes  
15 developing a step increase rate in this case would be the most cost-effective and efficient  
16 approach to request recovery.  
17

18 Q. ARE THERE ANY OTHER RATE IMPACTS BEYOND COST RECOVERY THAT  
19 WILL OCCUR DUE TO THE MERRICOURT PROJECT?

20 A. Yes. When Merricourt is placed in service, the energy output from Merricourt will be  
21 generated at zero fuel cost and will displace other costs such as purchased power costs,  
22 which flow through the Energy Adjustment Rider. An updated Statement P that reflects  
23 the estimated reduction in purchased power costs is included in Volume 4A, Section  
24 5. The estimated average base fuel rate, calculated on a system basis, drops from  
25 \$0.026153 to \$0.022996 per kWh.  
26

27 Q. IF A STEP INCREASE RATE WAS NOT APPROVED IN THIS CASE, HOW  
28 WOULD OTP SEEK FUTURE RECOVERY OF THIS PROJECT?

29 A. OTP would need to file another rate case to request recovery of the Merricourt project  
30 costs. OTP's current assumption that final rates in this case will become effective  
31 January 1, 2019, and the Merricourt project is scheduled to be completed and in-service

1 just one year later. As Mr. Gerhardson discusses, OTP believes it would be in the best  
2 interest of all stakeholders to avoid the significant cost of another rate case, not long after  
3 the conclusion of this case, to incorporate this project into base rates.  
4

5 Q. ARE THERE OTHER MAJOR OTP INVESTMENTS THAT ARE GOING TO DRIVE  
6 FUTURE RATE CASES?

7 A. Yes. OTP is also developing its Astoria Station (Astoria) project, an approximately \$165  
8 million simple cycle gas generating station to be located near Astoria, South Dakota,  
9 which is currently scheduled to be completed in 2021. OTP anticipates that it will need to  
10 file a rate case in the 2021 timeframe to request recovery of the Astoria project, as well as  
11 incorporate then-completed transmission projects, such as the Big Stone South to  
12 Ellendale project, currently under construction, into base rates. The step increase proposal  
13 in this case will allow OTP to bridge the gap between this case and the potential 2021  
14 case.  
15

16 Q. WHEN DOES OTP PROPOSE THE STEP INCREASE RATES TO INCLUDE THE  
17 MERRICOURT PROJECT WOULD TAKE EFFECT?

18 A. OTP proposes that the step increase rates would become effective January 1, 2020.

## 19 **XI. MISCELLANEOUS ITEMS**

20 Q. WHAT IS THE PURPOSE OF THIS SECTION OF YOUR DIRECT TESTIMONY?

21 A. In this section of my Direct Testimony, I will discuss: 1) non-asset-based trading; 2) rate  
22 case expenses; and 3) holding company formation expenses.

### 23 **A. Non-Asset Based Trading**

24 Q. DOES THE 2017 TEST YEAR INCLUDE ANY COSTS RELATED TO NON-ASSET  
25 BASED TRADING ACTIVITIES?

26 A. No. OTP ceased all non-asset-based trading activities as of December 31, 2014. Thus,  
27 there are no new non-asset-based trading costs or revenues in the 2017 Test Year.  
28

1 Q. WHY DID OTP MAKE THE BUSINESS DECISION TO CEASE NON-ASSET  
2 BASED TRADING ACTIVITIES?

3 A. OTP conducted a financial analysis on its non-asset-based trading business in the winter  
4 and spring of 2014. The analysis showed historically declining margins and reduced  
5 profits in the future. Based on this analysis, OTP ultimately concluded that it should exit  
6 the non-asset-based trading business.

7  
8 Q. DOES OTP HAVE ANY REMAINING NON-ASSET BASED TRADING  
9 POSITIONS?

10 A. No. The last new non-asset-based trades occurred on December 31, 2014. A small  
11 number of non-asset-based positions carried into the 2015 calendar year, but they were  
12 completely liquidated by June 1, 2015. As of that date, OTP had no non-asset-based  
13 trading positions.

14 **B. Rate Case Expenses**

15 Q. WHAT IS THE ESTIMATED RATE CASE EXPENSE FOR THIS CASE?

16 A. We estimate the rate case expenses associated with this case to be \$550,000 (OTP SD).  
17 This expense includes administrative costs, the charges to be expected from the  
18 Commission and outside consulting and legal fees.

19  
20 Q. HOW DID YOU DEVELOP THIS ESTIMATE?

21 A. Administrative costs and Commission charges are estimated based on fees assessed in  
22 other South Dakota rate cases. Consulting fees and outside legal fees estimates were  
23 based on information from service providers. The details are reflected in work paper TY-  
24 09 in Volume 4A, Workpapers.

25  
26 Q. WHAT IS THE AMOUNT OF RATE CASE EXPENSE INCLUDED IN THE 2017  
27 TEST YEAR?

28 A. The 2017 Test Year annual rate case expense is \$183,333 (OTP SD).  
29

1 Q. WHAT AMORTIZATION PERIOD DID YOU USE?

2 A. We used a three-year amortization period. Because the rate case expense is a one-time  
3 expense, it would be inappropriate to treat those expenses as recurring expenses.  
4 Therefore, it is appropriate to amortize those expenses over the period of time expected  
5 before OTP's next rate case. Based on what we know today, we believe OTP will likely  
6 file its next rate case in three years.

7 **C. Holding Company Formation Expenses**

8 Q. DOES THE 2017 TEST YEAR INCLUDE ANY ADJUSTMENT FOR  
9 AMORTIZATION OF HOLDING COMPANY COSTS?

10 A. No. In Docket, EL08-025, the Commission approved OTP's request to form a holding  
11 company. OTP began amortizing holding company costs following its rate case in Docket  
12 EL08-030 and updated the amortization to three years following OTP's last general in  
13 Docket EL-10-011. There are no holding company formation expenses included in the  
14 2017 Test Year.

15 **XII. CONCLUSION**

16 Q. WHAT ARE YOUR CONCLUSIONS?

17 A. My Direct Testimony supports the conclusions that:

- 18 • OTP has effectively managed its major capital projects which has resulted in very  
19 substantial customer savings;
- 20 • The 2017 Test Year South Dakota retail revenues are reasonable and appropriate  
21 for ratemaking;
- 22 • OTP's jurisdictional and class allocations are reasonable for establishing rates in  
23 this case;
- 24 • OTP's proposed revisions to its Fuel Clause Rider are reasonable;
- 25 • OTP's corporate cost allocations meet Commission requirements and are  
26 appropriate;
- 27 • OTP's proposal rates for economic development are reasonable and appropriate;



1                   • OTP’s proposal for step increase rates for the Merricourt project will help delay  
2                   the need for another rate case.

3

4 Q.   DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

5 A.   Yes, it does.