

1 Docket No. 44698. I determined the page count devoted to the issue versus the  
2 total page count in SPS's direct testimony, SPS's rebuttal testimony, SPS's  
3 briefing on threshold/legal policy issues, SPS's Initial Brief, and SPS's Reply  
4 Brief. I then applied that average allocator to the total dollars in the applicable  
5 phase. For the GCE, I allocated 32% of the costs allocated to the policy phase to  
6 this issue. For the weather normalization issue, I assigned 14% and for the rate  
7 class issue, I assigned 47% of the costs allocated to the cost-allocation and rate  
8 design phase. The remaining costs are assigned to the uncontested issues in this  
9 case. Please refer to Attachment MVP-5, page 3, for the development of the  
10 allocators as well as the dollars assigned to each issue.

11 **A. Background of EECRF Filing in Docket No. 44698**

12 **Q. When did SPS make its EECRF filing in Docket No. 44698?**

13 A. SPS filed on May 1, 2015. In conformity with Rule 25.181(f)(10), SPS's filing  
14 included testimony and schedules, in Excel format with formulas intact, as well as  
15 the required categories of information under Rule 25.181, as applicable. In  
16 particular, in addition to its EECRF application, SPS submitted my direct  
17 testimony, as well as the Direct Testimonies of Messrs. J. Derek Shockley and  
18 Jeffrey L. Comer. SPS also provided an affidavit from Stephen J. Davis in  
19 support of its RCE expenses incurred in Docket No. 42454 (i.e., SPS's 2015  
20 EECRF proceeding). The affidavit of Mr. Davis was an attachment to my  
21 testimony in Docket No. 44698.

1     **Q.     What relief did SPS request in that application?**

2     A.     SPS sought similar relief as it seeks in this current application for PY 2017, but  
3             for PY 2016. In particular, SPS sought a finding from the Commission that for  
4             PY 2016:

- 5                     (1)     the programs proposed by SPS were cost-effective;  
6  
7                     (2)     the affiliate costs were reasonable as set forth under PURA §  
8                             36.058;  
9  
10                    (3)     the R&D were lower than the caps set forth in Rule  
11                             25.181(i);  
12  
13                    (4)     the incentives forecasted to be paid were lower than the cap  
14                             in Rule 25.181(g);  
15  
16                    (5)     as a result of the plan, SPS is expected to achieve the  
17                             required demand and energy savings reductions;  
18  
19                    (6)     the RCEs incurred by SPS in Docket No. 42454 were  
20                             reasonable and necessary; and  
21  
22                    (7)     an EECRF rider could be implemented to recover the  
23                             program and administrative costs.  
24

25             In addition, SPS sought a GCE for recovery of \$34,593 in administrative expenses  
26             that exceeded the 15 percent cap under Rule 25.181(i). SPS submitted its request  
27             for a GCE in conformity with Rule 25.181(e)(2).

28     **Q.     What attorneys did SPS retain to assist with Docket No. 44698?**

29     A.     SPS retained Winstead PC ("Winstead") to assist with the preparation and  
30             prosecution of Docket No. 44698. Ms. Carrie Collier-Brown and Ms. Leila  
31             Melhem of Winstead performed and billed for legal services to Docket No.

1        44698.<sup>11</sup> As described in the affidavit of Matthew P. Loftus, provided as  
2        Attachment MVP-8 to this testimony, Ms. Collier-Brown performed the vast  
3        majority of the work, while Ms. Melhem billed approximately 1.6 hours for legal  
4        services to Docket No. 44698. Mr. Loftus, who is an XES attorney based in  
5        Austin, Texas, provides this affidavit to address, among other items, why  
6        Winstead was selected as outside counsel and the hourly rates paid. The affidavit  
7        of Mr. Davis for this proceeding describes in greater detail the work performed by  
8        Winstead. Mr. Davis's affidavit is my Attachment MVP-6.

9        **Q. Did SPS agree to pay Ms. Collier-Brown's and Ms. Melhem's hourly rates**  
10       **for the work they did on the case?**

11       A. Yes, SPS agreed to pay the hourly rates of Ms. Carrie Collier-Brown and Ms.  
12       Melhem. Messrs. Davis and Loftus address this topic in their affidavits. In his  
13       affidavit, Mr. Davis addresses the reasonableness of Ms. Collier-Brown's hourly  
14       rate and the work she performed in Docket No. 44698.

15       **Q. Did SPS retain any outside consultants to provide testimony in Docket No.**  
16       **44698?**

17       A. No. All of the witnesses were either SPS or XES employees.

---

<sup>11</sup> Mr. Ron Moss of Winstead was also retained, but did not perform any work for Docket No. 44698.

1    **Q.     Did SPS or its outside attorneys retain any non-testifying consultants to assist**  
2           **with preparation of the RFP or testimony and to assist with the prosecution**  
3           **of the case?**

4    A.    Yes.  As I noted above, Mr. Davis was an expert retained to evaluate the  
5           reasonableness of the 2014 EECRF rate case expenses requested in Docket No.  
6           44698.

7    **B.     Novelty and Complexity of the Issues Addressed**

8    **Q.     Did the Commission request briefing on threshold/legal policy issues in**  
9           **Docket No. 44698?**

10   A.    Yes.  In response to Staff's request, the Commission requested briefing on what  
11           rate classes were approved by the Commission in SPS's last base rate case  
12           (Docket No. 42004) and whether by an agreement parties to a stipulation can  
13           preclude the use of rate classes in an EECRF proceeding.  In addition, the  
14           Commission asked, if no rate classes were approved in Docket No. 42004, how  
15           should it define rate classes in Docket No. 44698.

16   **Q.     Had the Commission requested briefing on threshold/legal policy issues in**  
17           **prior SPS EECRF proceedings?**

18   A.    No.  This could be considered a novel issue as Exhibit A to the non-unanimous  
19           stipulation ("NUS") in Docket No. 42004 specifically stated it did not represent  
20           an agreement on the rate classes and was not precedential for purposes of future  
21           proceedings.

1   **Q.   Did the parties submit briefs?**

2   A.   Yes. The Office of Public Utility Counsel ("OPUC"), Staff, and SPS submitted  
3       briefs on May 27, 2016.

4   **Q.   How did the Commission rule on the threshold/legal policy issues?**

5   A.   On June 24, 2015, the Commission issued a Supplemental Preliminary Order,  
6       holding that the NUS did not preclude the use of the rate classes approved in  
7       Docket No. 42004 from being used in Docket No. 44698. The Commission  
8       directed the parties to: (1) use the rate classes approved in Docket No. 42004 for  
9       Docket No. 44698; and (2) answer Issue 11(M) of the Preliminary Order  
10      accordingly.

11   **Q.   In addition to the threshold/legal policy issues, did Docket No. 44698 present**  
12      **any new or complex issues, compared to prior SPS EECRF proceedings?**

13   A.   No. The only new request for relief was the GCE, which was for a minimal  
14      amount and for which the Commission specifically allows a utility to request  
15      under Rule 25.181(e)(2). All other issues had been previously addressed in prior  
16      SPS EECRF proceedings or were routine requests for relief that had been  
17      approved in prior SPS EECRF proceedings.

18   **Q.   While there were no novel or complex issues raised by SPS's application in**  
19      **Docket No. 44698, were issues raised that ultimately required rebuttal**  
20      **testimony and litigation?**

21   A.   Yes. As I discuss further below, the Commission Staff objected to: (1) the  
22      EECRF rate classes proposed by SPS; and (2) the GCE. In addition, OPUC  
23      proposed that SPS use projected 2016 billing units based on a 10-year weather

1 average instead of the 30-year average that SPS used when developing its  
2 proposed PY 2016 EECRF rates. With the exception of the GCE, the other two  
3 issues had been decided in SPS's immediately prior EECRF proceeding, Docket  
4 No. 42454, and SPS had prevailed on both issues.

5 **C. Discovery**

6 **Q. How many parties intervened in SPS's rate case?**

7 **A. In addition to Staff, OPUC, and Texas Industrial Energy Consumers intervened.**

8 **Q. Did SPS receive discovery from any of those parties?**

9 **A. Yes. SPS received a total of five sets of discovery from Staff and OPUC.**

10 **Q. In addition to formal discovery, did SPS respond to informal discovery**  
11 **requests?**

12 **A. Yes. SPS responded to a variety of informal discovery from Staff and OPUC.**

13 **Q. In addition to formal discovery, were technical conferences and additional**  
14 **meetings held in an effort address questions from Staff and OPUC?**

15 **A. Yes. SPS held a technical conference with the parties on July 6, 2015. In**  
16 **addition, SPS held follow-up meetings and conference calls.**

17 **D. Issues Raised in Testimony of Staff and OPUC that Required SPS**  
18 **Rebuttal Testimony**

19 **Q. What issues were raised by Staff that required Rebuttal Testimony from**  
20 **SPS?**

21 **A. Staff recommended: (1) establishing a separate EECRF rate for residential**  
22 **customers receiving service under the Residential Service with Electric Space**  
23 **Heating base rate schedule and establishing separate EECRF rates for commercial**

1 and industrial customers receiving service under the Service Agreement  
2 Summaries 4, 8, and 13; and (2) that the Commission deny a GCE for the \$34,593  
3 that exceeded the administrative cost cap.

4 **Q. What was Staff's argument supporting their EECRF rate recommendations?**

5 A. Staff primarily argued that eleven rate schedules should be the basis for the  
6 EECRF rates based on its interpretation of: (1) the Commission's final order in  
7 SPS's prior rate case (at the time) in Docket No. 42004; (2) Rule 25.181(c)(49);  
8 and (3) 16 TAC § 25.5(100).<sup>12</sup>

9 **Q. Were Staff's EECRF rate recommendations raised in a prior SPS EECRF  
10 proceeding?**

11 A. Yes. In SPS's 2014 EECRF application, Staff raised similar arguments. The  
12 issues were litigated through a hearing on briefs in that proceeding (Docket No.  
13 42454) and SPS's position prevailed before the Commission. SPS took the same  
14 approach in proposing its EECRF rates in Docket No. 44698.

15 **Q. What was Staff's argument in support of rejecting SPS's requested GCE?**

16 A. Staff argued that because SPS had not met its PY 2014 and PY 2013 demand  
17 savings goals, the GCE should be denied.<sup>13</sup>

18 **Q. What issue was raised by OPUC that required Rebuttal Testimony from  
19 SPS?**

20 A. OPUC recommended that SPS use projected 2016 billing units based on a 10-year  
21 weather average instead of the 30-year average that SPS used. Among other

---

<sup>12</sup> Docket No. 44698, Staff Ex. 1 at 10-12 (Murphy Direct).

<sup>13</sup> Docket No. 44698, Staff Ex. 1 at 12 (Harris Direct).

1 reasons, OPUC asserted that SPS uses 10-year weather normalization in its base  
2 rate case and that the cost for SPS to develop a forecast based on a 10-year normal  
3 weather was not prohibitive.<sup>14</sup>

4 **Q. Had the Commission previously determined that SPS's use of 30-year**  
5 **average weather is reasonable to calculate its EECRF rates?**

6 A. Yes. OPUC raised the same issue in SPS's 2014 EECRF proceeding, Docket No.  
7 42454. After a contested and litigated proceeding, the Commission determined in  
8 Docket No. 42454 that SPS's calculation of billing determinants for 2015 using  
9 30-year average weather was reasonable.

10 **E. Rebuttal Testimony and Preparation for Hearing**

11 **Q. Did SPS file rebuttal testimony?**

12 A. Yes. SPS filed rebuttal testimony on August 7, 2015. In particular, Messrs.  
13 Comer and Shockley, as well as myself, submitted Rebuttal Testimony on behalf  
14 of SPS. Among other items, the testimony: (1) rebutted the assertions of Staff  
15 with respect to the use of rate schedules for purposes of establishing EECRF rates  
16 and relied on the prior decision of the Commission in Docket No. 42454 to  
17 support SPS's position;<sup>15</sup> (2) emphasized that SPS had met the burden of proof in  
18 timely seeking a GCE;<sup>16</sup> and (3) relied on the prior decision of the Commission in

---

<sup>14</sup> Docket No. 44698, OPUC Ex. 1 at 4 (Marcus Direct).

<sup>15</sup> Docket No. 44698, SPS Ex. 6 at 8-11 (Comer Rebuttal).

<sup>16</sup> Docket No. 44698, SPS Ex. 4 at 10-15 (Pascucci Rebuttal) and SPS Ex. 5 at 9-15 (Shockley Rebuttal).



1 Docket No. 42454 to support SPS's position to use projected 2016 billing units  
2 based on a 30-year average.<sup>17</sup>

3 **Q. Did SPS agree with any position of SPS and OPUC through its Rebuttal**  
4 **Testimony?**

5 A. Yes. SPS agreed: (1) with OPUC to launch a Residential LED pilot using R&D  
6 funds in 2016;<sup>18</sup> (2) with Staff for SPS to revise the Consumer Price Index  
7 adjustment, which increased the 2016 residential cost cap from \$0.001260 to  
8 \$0.001265 per kWh and increased the 2016 commercial cost cap from \$0.000788  
9 to \$0.000791 per kWh;<sup>19</sup> (3) with Staff to increase the PY 2014 over-recovery  
10 balance by \$155,102 to properly account for SPS's PY 2012 over-recovery,  
11 performance bonus, and RCEs;<sup>20</sup> and (4) with Staff's recommendation to track  
12 RCEs by task pursuant to 16 TAC § 25.245.<sup>21</sup>

13 **Q. Did SPS hold any meetings to prepare its witnesses for the hearing on the**  
14 **merits?**

15 A. Yes. SPS conducted preparation sessions in Austin prior to the hearing. The  
16 hearing was held on August 20, 2015.

---

<sup>17</sup> Docket No. 44698, SPS Ex. 3 at 18-21 (Comer Direct).

<sup>18</sup> Docket No. 44698, SPS Ex. 5 at 5 (Shockley Rebuttal).

<sup>19</sup> Docket No. 44698, SPS Ex. 6 at 5 and 28 (Comer Rebuttal).

<sup>20</sup> Docket No. 44698, SPS Ex. 6 at 5 and 29 (Comer Rebuttal).

<sup>21</sup> Docket No. 44698, SPS Ex. 4 at 3 and 4 (Pascucci Rebuttal).

- 1    **F.    Hearing and Post Hearing**
- 2    **Q.    How long did the hearing last?**
- 3    A.    The hearing on the merits lasted one day and was held on August 20, 2015.
- 4    **Q.    Did the other parties cross-examine SPS's witnesses?**
- 5    A.    Yes. Staff cross-examined both Mr. Comer and me. OPUC, TIEC, and SPS
- 6    cross-examined Staff witness Brian Murphy.
- 7    **G.    Post-Hearing Briefing**
- 8    **Q.    Did SPS file post-hearing briefs in Docket No. 44698?**
- 9    A.    Yes. The parties submitted post hearing briefs on September 4, 2015 and reply
- 10    briefs on September 11, 2015. SPS's post hearing brief was 44 pages in length
- 11    and its reply brief was 29 pages in length.
- 12    **H.    ALJs' and Commission's Decisions**
- 13    **Q.    When did the ALJ issue the Proposal for Decision ("PFD") in Docket No.**
- 14    **44698?**
- 15    A.    The ALJ issued the PFD on November 16, 2015.
- 16    **Q.    Did the PFD find in SPS's favor with respect to the three contested issues?**
- 17    A.    Yes. SPS prevailed on all three issues.
- 18    **Q.    Did Staff and OPUC file exceptions to the Docket No. 44698 PFD?**
- 19    A.    Yes, both Staff and OPUC filed exceptions to the PFD on November 30, 2016.
- 20    **Q.    Did SPS file a response to the exceptions of OPUC and Staff?**
- 21    A.    Yes. SPS's response was filed on December 7, 2015.

1 Q. When did the Commission issue a final order in Docket No. 44698?

2 A. The Commission issued a final order on January 6, 2016.

3 Q. Did the Commission completely adopt the PFD?

4 A. No. The Commission amended the PFD to require SPS to present projected  
5 billing units based on a 10-year weather average in its next EECRF application.

6 I. **Breakdown of RCEs Incurred in Docket No. 44698**

7 Q. In addition to the \$109,018.17 of RCEs incurred by SPS in Docket No. 44698,  
8 did SPS incur any expenses from municipalities?

9 A. No.

10 Q. Is SPS seeking to recover all of the RCEs associated with Docket No. 44698 in  
11 this proceeding?

12 A. Yes. For reasons I discuss, as well as the reasons presented in Mr. Davis's  
13 affidavit, the \$109,018.17 of RCEs incurred by SPS in Docket No. 44698 should  
14 be recovered.

15 Q. What types of expenses did SPS incur for Docket No. 44698?

16 A. As I detailed above, of the \$109,018.17 of RCEs incurred by SPS in Docket No.  
17 44698, \$101,292.53 of that total was for legal expenses from outside counsel.  
18 SPS also incurred \$7,808.06, which, after adjustments, was decreased to  
19 \$7,725.64, in employee and other expenses for travel, lodging, and postage costs  
20 associated with filing and litigating Docket No. 44698.

1                   **1. Outside Legal Counsel RCEs**

2   **Q. Does the majority of this section of your testimony regard Ms. Collier-**  
3   **Brown's work?**

4   **A. Yes.** As I noted above, Ms. Melhem did perform a minor amount of work for  
5   Docket No. 44698. The work she performed related to final reviews of SPS's  
6   rebuttal testimony for filing purposes and amounted to approximately 1.6 hours.  
7   Her work was needed because Ms. Collier-Brown was on vacation. Mr. Davis's  
8   affidavit supports the reasonableness of Ms. Melhem's work. The remainder of  
9   this section of my testimony focuses on the outside legal work that was performed  
10   in Docket No. 44698 by Ms. Collier-Brown.

11   **Q. What types of work did Winstead perform for SPS in Docket No. 44698?**

12   **A.** Ms. Collier-Brown's work during the preparation and prosecution of Docket No.  
13   44698 was at the direction of Mr. Loftus and in coordination with internal XES  
14   personnel, including me.

15               Beginning in the first quarter of 2015, which is when work on the EECRF  
16   application and filing began, to late April 2015, which is when the Application  
17   was filed, Ms. Collier-Brown:

- 18               • assisted Messrs. Comer and Shockley with the preparation of their  
19               direct testimony, attachments, and workpapers; and  
20               • drafted the Application.

21               After the Application was filed, Ms. Collier-Brown assisted in preparing  
22   SPS's brief on the threshold/legal policy issues.

1           During the Discovery phase, which lasted until August 14, 2015, Ms.  
2 Collier-Brown assisted the witnesses and their assistants in preparing discovery  
3 responses.

4           During the Rebuttal phase, Ms. Collier-Brown assisted with Mr. Comer's  
5 Rebuttal Testimony. Ms. Collier-Brown also assisted with witness preparation for  
6 the hearing and participated in the hearing.

7           In the Post-Hearing phase, Ms. Collier-Brown assisted with drafting the  
8 post-hearing briefs and the proposed findings of fact and conclusions of law.

9 **Q. Was Ms. Collier-Brown's work duplicative of the work Mr. Loftus**  
10 **performed?**

11 **A.** No. As discussed in Mr. Loftus's affidavit, he and Ms. Collier-Brown generally  
12 provided legal assistance for specific issues and to the witnesses who addressed  
13 the issues. Drafting of post-hearing briefs was performed in a similar manner,  
14 with Mr. Loftus and Ms. Collier-Brown drafting sections of the briefs that related  
15 to their particular issues.

16 **Q. Approximately how much additional RCE did SPS incur in Docket No.**  
17 **44698 as a result of litigation?**

18 **A.** SPS incurred \$14,029.77 in RCEs that were directly related to hearing preparation  
19 costs and costs for the hearing. In addition, SPS incurred \$19,914.48 in briefing  
20 costs. Please refer to Attachment MVP-5, page 2 for these amounts.

21 As I discussed above, SPS prevailed on all of the litigated issues in the PFD and  
22 prevailed before the full Commission with the exception of the adoption of

1 OPUC's recommendation that SPS present projected billing units based on a 10-  
2 year weather average in its next EECRF application.

3 **Q. Was it reasonable and necessary for SPS to retain Winstead to represent it in**  
4 **Docket No. 44698?**

5 A. Yes. While Mr. Loftus provided significant assistance in Docket No. 44698, he is  
6 also responsible for other legal and regulatory matters regarding SPS's operations  
7 in both Texas and New Mexico. Given these other responsibilities and work load,  
8 Mr. Loftus's affidavit confirms he would not have been able to adequately  
9 prepare and prosecute Docket No. 44698 without assistance from outside counsel.

10 **Q. Are you offering an opinion regarding the difficulty of the work performed**  
11 **by the outside attorneys?**

12 A. No. Mr. Davis is addressing those issues.

13 **2. Travel-related Expenses**

14 **Q. What topic do you discuss in this section of your testimony?**

15 A. I describe the types and amounts of expenses incurred for lodging, meals and  
16 beverages, and transportation for the preparation and prosecution of Docket No.  
17 44698. These expenses are also referred to as "travel-related expenses." I also  
18 explain why it was necessary for SPS to incur those expenses, and I explain that  
19 the expense amounts are reasonable. These costs are also supported by the  
20 affidavit of Mr. Davis through his review of the XES and SPS internal personnel  
21 travel expenses.

1 **Q. Describe further the types of costs that fall under travel-related expenses?**

2 A. The expenses consist of lodging costs; transportation costs – including expenses  
3 for airfare, car rental, taxis, parking, and mileage reimbursement; and meals and  
4 beverages.

5 **Q. What amount and types of expenses for lodging, meals and beverages, and**  
6 **transportation did SPS incur in Docket No. 44698?**

7 A. SPS incurred a total of \$7,360.41 for these types of expenses for the preparation  
8 and defense of Docket No. 44698. These expenses are presented in Attachment  
9 MVP-5, page 1.

10 **Q. Who incurred these costs?**

11 A. In addition to me, the costs were incurred by the following eight SPS or XES  
12 employees: (1) Brooke Trammell (SPS Manager, Rate Cases); (2) Jeremiah  
13 Cunningham (SPS Regulatory Case Specialist); (3) Mr. Loftus (XES Assistant  
14 General Counsel); (4) Mr. Shockley (XES Demand-Side Management Marketing  
15 Manager, Product Portfolio Supervision); and (5) Mr. Comer (who at the time was  
16 an SPS Pricing Analyst, but has subsequently taken a new position). Other than  
17 Mr. Loftus, no other listed employee lives in Austin, Texas.

18 **Q. Why were the travel-related expenses necessary?**

19 A. SPS's travel-related expenses were primarily for travel to Austin by SPS and XES  
20 employees for the hearing on the merits. These trips were necessary because, as I  
21 noted above, with the exception of Mr. Loftus none of the other SPS or XES  
22 employees working on the case live in Austin.

1   **Q.    Please provide an example of why it was reasonable and necessary for SPS to**  
2       **incur travel-related expenses.**

3    A.    It was reasonable and necessary for SPS to incur travel-related expenses in  
4        circumstances for Mr. Comer and me to travel to Austin for preparation for the  
5        hearing on the merits and to participate in the hearing on the merits. We were  
6        both witnesses for whom cross-examination was not waived. Neither Mr. Comer  
7        nor I live in Austin and, therefore, we needed to travel to Austin for the hearing.

8                Similarly, Ms. Trammell and Mr. Cunningham are the SPS Regulatory  
9        personnel responsible for the EECRF filings and are both based out of Amarillo.  
10       It falls reasonably within the scope of their job duties to be present for such  
11       proceedings and their familiarity with the testimony, discovery, and contested  
12       issues made their presence valuable in preparing for and undertaking the hearing.

13   **Q.    When accounting for employees' travel-related costs, did SPS consider**  
14       **whether the employees worked on non-Docket No. 44698 matters during**  
15       **their trips?**

16   A.    Yes. If employees are also traveling for business other than the EECRF, they  
17        must carefully split the travel costs between the EECRF and the other business  
18        purpose(s).

19   **Q.    Were the air travel costs reasonable?**

20   A.    Yes. As a matter of course, the XES and SPS employees try to book their flights  
21        as far in advance as possible and find the most economical flights available. In  
22        addition, they fly coach on those flights.



1    **Q.    Were the lodging costs reasonable?**

2    A.    Yes. When overnight travel was required, the XES and SPS employees selected  
3       hotels where SPS has negotiated rates.

4    **Q.    Why was it necessary for SPS to incur the costs for meals and beverages?**

5    A.    When the XES and SPS employees listed above traveled to Austin as part of their  
6       work for Docket No. 44698, meal costs were incurred that would not otherwise  
7       have been incurred. It is reasonable for SPS to reimburse those meal expenses.

8    **Q.    Were the meals and beverage costs reasonable?**

9    A.    Yes. SPS has reviewed all charges for meals and beverages and excluded all  
10      costs in excess of \$25 per person per meal. SPS has also excluded all costs  
11      associated with alcohol.

12   **Q.    Why was it necessary for SPS to incur the ground transportation costs?**

13   A.    In general, it was necessary to incur the ground transportation costs for travel  
14      between the airport and the hotels where the XES and SPS employees stayed.

1    **Q.    Were the ground transportation costs reasonable?**

2    A.    Yes. Employees, attorneys, and consultants are expected to select the most  
3           economical form of ground transportation. In some instances, a taxi or shuttle is  
4           most economical. In other instances, a rental car is more economical, in which  
5           case cars are rented through Xcel Energy's preferred vendor. If more than one  
6           SPS or XES employee is traveling at the same time, those employees are required  
7           to share the taxi or rental car unless there is a compelling reason to do otherwise.  
8           SPS also reimburses SPS and XES employees for their personal mileage when  
9           they drive their own cars to and from the airport. However, the personal mileage  
10          reimbursement is limited to the mileage over what the employee would have  
11          otherwise driven when commuting to work.

1 **IX. PERFORMANCE BONUS**

2 **Q. Please summarize the rule provisions governing performance bonuses.**

3 A. Rule 25.181(h) provides that a utility that exceeds its demand and energy  
4 reduction goals at a cost that does not exceed the cost caps in Rule 25.181(f)(7)  
5 “shall be awarded a performance bonus calculated in accordance with this  
6 subsection.” The purpose of the performance bonus is to incent the utility to  
7 achieve successful energy efficiency programs by allowing the utility to receive a  
8 share of the net benefits realized in meeting its demand reduction goal.

9 **Q. Is SPS seeking recovery of a performance bonus in this case?**

10 A. Yes. SPS exceeded its Commission-approved demand goal in PY 2015 and,  
11 therefore, is eligible to recover a performance bonus in its PY 2017 EECRF.

12 **Q. What is the calculated performance bonus SPS has earned?**

13 A. The bonus is \$804,512. The calculation of the bonus is included as Attachment  
14 MVP-2.

15 **Q. Does this conclude your prefiled direct testimony?**

16 A. Yes.

**AFFIDAVIT**

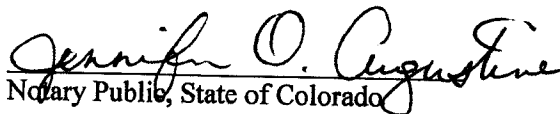
STATE OF COLORADO     )  
                                      )  
DENVER COUNTY         )

MICHAEL V. PASCUCCI, first being sworn on his oath, states:

I am the witness identified in the preceding prepared direct testimony. I have read the testimony and the accompanying attachments and am familiar with their contents. Based upon my personal knowledge, the facts stated in the testimony are true. In addition, in my judgment and based upon my professional experience, the opinions and conclusions stated in the testimony are true, valid, and accurate.

  
Michael V. Pascucci

Subscribed and sworn to before me today, April 26 2016.

  
Notary Public, State of Colorado

JENNIFER D. AUGUSTINE  
NOTARY PUBLIC  
STATE OF COLORADO  
NOTARY ID 20064006595  
MY COMMISSION EXPIRES 02/16/2018

My Commission Expires: 2/16/18

## CERTIFICATE OF SERVICE

I certify that on the 29<sup>th</sup> day of April 2016, a true and correct copy of the foregoing instrument was served on all parties of record by hand delivery, Federal Express, regular first class mail, certified mail, electronic mail, or facsimile transmission.



---

Southwestern Public Service Company

Goal Calculation

Data converted to Meter (required for EEP)

Table 4: Annual Growth in Demand and Energy Consumption (at Meter)																	
Demand Line Loss Factor	Calendar Year	Peak Demand (MW)						Energy Consumption (MWh)						Average Growth (MW) <sup>2</sup>	Demand Goal	Energy Goal	
		Total System		Residential & Commercial		Opt Outs	Total System		Residential & Commercial								
		Actual	Actual Weather Adjusted	Actual	Actual Weather Adjusted		Actual	Actual Weather Adjusted	Actual	Actual Weather Adjusted							
9.6%	2008	2,587	2,589	1,694	1,696	0	14,143,864	14,198,484	13,932,332	7,668,155	7,717,744	20	0	NA	NA		
	2009	2,592	2,561	1,735	1,707	42	13,920,045	13,932,332	7,371,821	7,382,989	30	0	NA	NA			
	2010	2,567	2,582	1,707	1,716	33	14,175,553	14,110,580	7,512,089	7,452,380	-30	20	NA	NA			
	2011	2,522	2,494	1,779	1,750	40	14,054,830	13,730,734	7,963,150	7,639,055	17	25	NA	NA			
	2012	2,634	2,523	1,887	1,775	50	13,880,058	13,721,135	7,748,839	7,589,916	28	7	NA	NA			
	2013	2,468	2,425	1,656	1,633	44	13,994,646	13,899,306	7,764,906	7,629,565	15	9	NA	NA			
	2014	2,506	2,497	1,711	1,702	39	14,061,579	14,038,723	7,712,573	7,689,717	-137	13	NA	NA			
	2015	2,405	2,478	1,618	1,691	45	14,032,058	13,959,998	7,621,821	7,549,761	74	12	4	6,308			
	2016	NA	NA	NA	1,738	NA	NA	NA	NA	NA	7,722,756	NA	-21	-6	-11,230		
	2017	NA	NA	NA	1,777	NA	NA	NA	NA	NA	7,853,516	NA	-1	0	-268		
7% not tied in	2018	NA	NA	NA	1,817	NA	NA	NA	NA	8,019,827	NA	6	2	2,953	5,454		
	2019	NA	NA	NA	1,863	NA	NA	NA	NA	8,162,213	NA	10	3	NA	24,012		
	2020	NA	NA	NA	1,906	NA	NA	NA	NA	8,265,693	NA	46	14	NA	21,094		
	2021	NA	NA	NA	1,951	NA	NA	NA	NA	8,362,492	NA	40	12	NA	27,309		
	2022	NA	NA	NA	1,993	NA	NA	NA	NA	8,453,178	NA	52	16	NA	22,322		
	2023	NA	NA	NA	2,033	NA	NA	NA	NA	8,537,018	NA	42	13	NA	22,628		
	2024	NA	NA	NA	2,072	NA	NA	NA	NA	8,608,204	NA	43	13	NA	22,678		
	2025	NA	NA	NA	2,110	NA	NA	NA	NA	8,681,082	NA	43	13	NA	0		
	2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	2027	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	2028	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Updated based on "Texas Peak Demand Sales for DSM filing (02-13-15)"

Table 4: Annual Growth in Demand and Energy Consumption (at Source)

Table 4: Annual Growth in Demand and Energy Consumption (at Source)																	
Calendar Year	Peak Demand (MW)						Energy Consumption (MWh)						Growth (MW)	Average Growth (MW) <sup>5</sup>			
	Total System			Residential & Commercial			Opt-Outs			Total System					Residential & Commercial		
	Actual		Weather Adjusted	Actual		Weather Adjusted	Actual		Weather Adjusted	Actual		Weather Adjusted			Actual		Weather Adjusted
	Actual	Adjusted		Actual	Adjusted		Actual	Adjusted		Actual	Adjusted				Actual	Adjusted	
2008				1,694		1,696		-							20	0	0
2009				1,735		1,707		42							30	0	0
2010				1,707		1,716		33							-30	20	20
2011				1,779		1,750		40							17	25	25
2012				1,887		1,775		50							28	7	7
2013				1,656		1,633		44							15	9	9
2014				1,711		1,702		39							-137	13	13
2015				1,618		1,691		45							74	12	12
2016				-		1,738		-		NA	NA	NA	NA	NA	-16	-21	-21
2017				-		1,777		-		NA	NA	NA	NA	NA	92	-1	-1
2018				-		1,817		-		NA	NA	NA	NA	NA	39	6	6
2019				-		1,863		-		NA	NA	NA	NA	NA	40	10	10
2020				-		1,906		-		NA	NA	NA	NA	NA	46	46	46
2021				-		1,951		-		NA	NA	NA	NA	NA	43	40	40
2022				-		1,993		-		NA	NA	NA	NA	NA	44	52	52
2023				-		2,033		-		NA	NA	NA	NA	NA	42	42	42
2024				-		2,072		-		NA	NA	NA	NA	NA	40	43	43
2025				-		2,110		-		NA	NA	NA	NA	NA	39	43	43

# Southwestern Public Service Company

## Goal Data

	Peak Demand at the Source			Sales at the Meter		Annual Increase (MW)	Calculations											
	Weather		Retail Peak	Normalized Texas Retail Peak (MW)	Normalized Texas Retail Sales (MW/h)		Five Year Average Growth (MW)	30% of Average Growth (MW)	4/10 of Peak Demand (MW)	Trigger Reached? Goal (MW/h)								
	Texas Retail Peak (MW)	Opt Out MW	with LLF Applied Minus Opt-Out (MW)															
2006	1,658	1,645	1,645	7,533,884	7,533,884													
2007	1,440	1,666	1,666		7,638,053	20			7	2	-	-	11,529					
2008	1,694	1,696	1,696		7,717,744	30			7	2	-	-	11,672					
2009	1,735	1,707	1,696	42	7,382,989	(30)			7	2	-	-	11,883					
2010	1,707	1,716	1,683	33	7,452,380				7	2	-	-	11,670					
2011	1,779	1,750	1,710	40	7,639,055	17			7	2	-	-	11,792					
2012	1,887	1,775	1,726	50	7,589,916	28			7	1	13,250	1	11,985					
2013	1,656	1,633	1,589	44	7,629,565	15			7	2	3,510	2	12,093					
2014	1,711	1,702	1,663	39	7,689,717	(137)			6	2	4,917	2	11,134					
2015	1,618	1,691	1,646	45	7,963,753	74			4	2	6,828	2	11,652					
2016		1,738	1,738		8,099,815	(16)			4	2	6,308	2	11,538					
2017		1,777	1,777		8,251,816	92			(6)	2	(11,230)	2	12,182					
2018		1,817	1,817		8,414,366	39			(0)	2	(268)	2	12,456					
2019		1,863	1,863		8,566,356	40			2	2	2,953	2	12,735					
2020		1,906	1,906		8,718,497	46			3	2	5,454	2	13,058					
2021		1,951	1,951		8,859,796	43			14	1	24,012	1	13,359					
2022		1,993	1,993		8,995,939	44			12	1	21,094	1	13,670					
2023		2,033	2,033		9,133,309	42			16	1	27,309	1	13,965					
2024		2,072	2,072		9,277,671	40			13	1	22,322	1	14,247					
2025		2,110	2,110		9,423,850	39			8	1	22,628	1	14,517					
2026		2,148	2,148		9,570,118	38			13	1	22,678	1	14,789					
2027		2,187	2,187		9,721,886	39			12	1	21,887	1	15,052					
2028		2,228	2,228		9,882,566	39			12	1	21,449	1	15,329					
2029		2,269	2,269		10,043,339	40			12	1	20,738	1	15,611					
2030		2,309	2,309		10,209,319	41			12	1	20,460	1	15,901					
2031		2,352	2,352		10,367,991	40			12	1	20,458	1	16,183					
2032		2,395	2,395		10,526,284	43			12	1	20,749	1	16,485					
2033		2,438	2,438		10,683,038	42			12	1	20,917	1	16,783					
2034		2,483	2,483		10,903,884				12	1	21,488	1	17,087					
2035		2,536	2,536															
2036																		
2037																		



Southwestern Public Service Company

Goal Data

1

**Southwestern Public Service Company**

**Line Loss Factors**

	<b>Current Loss Factors</b>	<b>New Loss Factors to use in 2014 Texas Rate Case Distributed 10-24-2013</b>	
<b><u>Energy Loss Factors</u></b>			
Sales at the Generator @ Generation	1.000000	1.000000	7.40%
Sales @ 115, 230 & 345 KV Level 2	1.024427	1.026158	
Sales @ 69 KV Level 3	1.032089	1.032914	
Sales @ Primary (33kv - 2.4kv) Level 4	1.112001	1.099263	
Secondary Sales @ the Transf Level 5	1.130411	1.118223	
Sales served by secondary lines Level 6	1.134348	1.121893	
Composit Factors 5 & 6 Used in billing	1.132439	1.120217	
<b><u>Demand Loss Factors</u></b>			
Sales at the Generator @ Generation	1.000000	1.000000	9.62%
Sales @ 115, 230 & 345 KV Level 2	1.030610	1.026174	
Sales @ 69 KV Level 3	1.040605	1.035392	
Sales @ Primary (33kv - 2.4kv) Level 4	1.156872	1.127359	
Secondary Sales @ the Transf. Level 5	1.188431	1.158647	
Sales served by secondary lines Level 6	1.193903	1.164118	
Composit Factors 5 & 6 Used in billing	1.191800	1.161975	

Southwestern Public Service Company

2017 Opt Out Information

Premise Number	Year Received	Final Year	Annual Peak kWh Contribution						
			2015	2014	2013	2012	2011	2010	2009
1	2013	2016	598	556	543	734	650	648	669
2	2013	2016	36	670	952	815	0	0	0
3	2013	2016	2161	2139	2299	2149	2516	0	2710
4	2013	2016	272	270	269	281	209	249	271
5	2013	2016	3448	3266	2870	3178	2525	2376	2228
6	2013	2016	1859	1851	2133	2080	2355	0	2611
7	2013	2016	3867	3931	4110	4479	4201	4384	4314
8	2013	2016	1364	1368	1322	1391	1432	1505	1259
9	2013	2016	0	0	1441	1340	1261	0	0
10	2013	2016	66	46	56	36	0	0	0
11	2013	2016	29	4	61	71	74	106	138
12	2013	2016	76	65	71	78	78	7	0
13	2013	2016	36	36	45	71	62	6	0
14	2013	2016	30	11	25	14	62	0	0
15	2013	2016	55	0	0	3	14	0	0
16	2013	2016	57	70	25	50	5	0	0
17	2013	2016	8	0	23	0	6	0	0
18	2013	2016	0	1	0	0	1	0	0
19	2013	2016	1	2	1	1	1	0	0
20	2013	2016	26	19	23	19	34	25	21
21	2013	2016	41	53	49	41	51	50	57
22	2013	2016	0	1	31	1	2	60	5
23	2013	2016	35	39	38	36	49	38	55
24	2013	2016	30	28	6	23	16	21	15
25	2013	2016	29	25	30	24	25	28	35
26	2013	2016	12	20	35	30	35	38	39
27	2013	2016	42	18	30	68	103	87	89
28	2013	2016	74	28	90	92	115	75	110
29	2013	2016	67	42	73	25	25	61	99
30	2013	2016	72	0	58	63	68	59	66
31	2013	2016	44	38	48	97	67	72	79
32	2013	2016	57	61	66	42	77	52	81
33	2013	2016	6	6	12	10	5	8	6
34	2013	2016	293	342	485	484	479	0	0
35	2015	2018	8	14	13	0	0	0	0
36	2015	2018	5	9	8	0	0	0	0
37	2015	2018	15	14	18	0	0	0	0
38	2015	2018	21	6	9	0	0	0	0
39	2015	2018	23	22	12	14	0	0	0
40	2015	2018	15	17	12	0	0	0	0
41	2015	2018	1	372	308	0	0	0	0
42	2015	2018	12	15	13	0	0	0	0
43	2015	2018	67	7	6	0	0	0	0
44	2015	2018	14	19	13	0	0	0	0
45	2015	2018	10	10	11	13	13	0	0
46	2015	2018	325	337	309	0	0	0	0
47	2015	2018	64	42	90	62	62	75	59
48	2015	2018	1122	1237	1133	1303	1336	1323	1597
49	2015	2018	21	23	0	0	0	0	0
50	2015	2018	27	31	29	27	27	32	34
51	2015	2018	34	35	35	35	33	36	11
52	2015	2018	40	42	38	71	71	77	42
53	2015	2018	123	119	30	44	41	55	59
54	2015	2018	54	55	40	85	69	79	49
55	2015	2018	0	0	0	0	0	0	0
56	2015	2018	1	1	1	2	1	2	2
57	2015	2018	23	27	23	43	48	47	23
58	2015	2018	0	0	0	1	1	1	1
59	2015	2018	1	0	1	3	2	4	2
60	2015	2018	66	27	36	37	33	40	42
61	2015	2018	100	214	163	367	419	454	92
62	2015	2018	27	56	47	58	29	41	25
63	2015	2018	31	39	30	37	29	34	16
64	2015	2018	27	26	22	45	48	55	17
65	2015	2018	6	11	10	10	10	9	7

Southwestern Public Service Company

2017 Opt Out Information

Premise Number	Year Received	Final Year	Annual Peak kWh	Contribution						
66	2015	2018	22	21	23	16	14	60	30	
67	2015	2018	27	28	27	26	25	24	13	
68	2015	2018	1	1	1	1	1	0	1	
69	2015	2018	0	0	1	1	0	0	0	
70	2015	2018	2	2	2	2	3	2	1	
71	2015	2018	25	30	30	28	28	32	37	
72	2015	2018	55	19	28	28	27	31	32	
73	2015	2018	73	70	51	56	44	43	24	
74	2015	2018	22	7	9	9	12	14	6	
75	2015	2018	49	50	49	48	46	52	48	
76	2015	2018	61	72	42	145	115	116	48	
77	2015	2018	72	26	34	35	33	35	43	
78	2015	2018	121	123	122	117	111	124	37	
79	2015	2018	3	1	1	1	2	0	1	
80	2015	2018	60	65	67	64	46	41	50	
81	2015	2018	29	27	24	52	47	59	26	
82	2015	2018	23	16	21	21	21	24	21	
83	2015	2018	42	48	50	49	47	43	16	
84	2015	2018	36	39	38	43	34	23	16	
85	2015	2018	0	0	0	0	0	0	0	
86	2015	2018	27	25	26	25	30	39	33	
87	2015	2018	26	27	21	48	48	48	24	
88	2015	2018	1	14	10	0	0	21	19	
89	2015	2018	24	24	21	22	20	17	11	
90	2015	2018	44	51	43	40	40	45	44	
91	2015	2018	58	59	47	93	93	101	18	
92	2015	2018	97	29	39	43	33	40	16	
93	2015	2018	16	15	15	30	28	31	7	
94	2015	2018	42	13	18	18	17	22	23	
95	2015	2018	10	7	5	3	5	5	6	
96	2015	2018	17	28	27	25	22	24	22	
97	2015	2018	0	1	1	1	1	1	1	
98	2015	2018	12	12	12	13	9	10	6	
99	2015	2018	6	4	7	8	5	35	37	
100	2015	2018	25	32	28	52	54	60	9	
101	2015	2018	135	178	161	186	152	189	159	
102	2015	2018	7	14	13	11	14	15	15	
103	2015	2018	29	33	32	32	31	33	38	
104	2015	2018	19	25	22	24	19	20	16	
105	2015	2018	35	21	17	39	35	41	24	
106	2015	2018	18	26	23	27	22	16	9	
107	2015	2018	1	1	0	0	0	0	0	
108	2015	2018	47	43	39	74	70	77	41	
109	2015	2018	21	19	22	17	17	17	18	
110	2015	2018	87	83	77	89	85	77	34	
111	2015	2018	18	18	15	37	38	35	18	
112	2015	2018	194	210	213	248	196	200	153	
113	2015	2018	15	25	26	52	39	44	22	
114	2015	2018	19	22	21	20	19	20	22	
115	2015	2018	38	39	31	62	59	66	33	
116	2015	2018	0	0	0	0	0	0	0	
117	2015	2018	1	1	3	2	1	3	3	
118	2015	2018	2	1	1	1	1	1	1	
119	2015	2018	41	41	44	41	36	48	45	
120	2015	2018	40	45	35	71	74	71	15	
121	2015	2018	31	38	35	35	37	33	20	
122	2015	2018	29	42	30	37	30	32	35	
123	2015	2018	92	32	44	44	44	53	55	
124	2015	2018	1	1	1	1	1	0	0	
125	2015	2018	0	0	1	1	1	1	2	
126	2015	2018	0	0	0	0	0	0	0	
127	2015	2018	0	0	0	0	0	1	2	
128	2015	2018	41	41	51	46	48	45	49	
129	2015	2018	18	19	21	20	22	21	24	
130	2015	2018	20	19	19	19	25	23	24	
131	2015	2018	39	33	30	30	0	69	65	

Southwestern Public Service Company

2017 Opt Out Information

Premise Number	Year Received	Final Year	Annual Peak kWh Contribution							
132	2015	2018	11	10	10	0	0	8	8	
133	2015	2018	37	38	36	39	37	46	33	
134	2015	2018	27	25	24	23	22	23	23	
135	2015	2018	25	24	19	39	32	34	19	
136	2015	2018	1	1	1	3	2	1	1	
137	2015	2018	38	45	32	72	71	82	28	
138	2015	2018	24	25	26	25	24	27	30	
139	2015	2018	26	24	24	22	21	21	23	
140	2015	2018	9	15	16	15	15	14	18	
141	2015	2018	700	736	648	1429	1336	1485	691	
142	2015	2018	28	24	25	21	21	26	26	
143	2015	2018	0	0	0	1	1	1	1	
144	2015	2018	35	32	35	33	31	35	38	
145	2015	2018	0	0	0	0	0	0	0	
146	2015	2018	10	12	11	13	11	9	8	
147	2015	2018	1	1	0	1	1	1	1	
148	2015	2018	4	4	3	3	3	3	3	
149	2015	2018	48	16	21	21	20	23	24	
150	2015	2018	20	24	23	46	45	44	22	
151	2015	2018	129	127	77	82	82	104	49	
152	2015	2018	1	1	1	1	1	1	1	
153	2015	2018	17	20	22	20	20	23	25	
154	2015	2018	45	35	35	34	35	35	49	
155	2015	2018	14	14	15	14	14	16	16	
156	2015	2018	11	13	14	17	10	13	2	
157	2015	2018	18	21	22	22	20	35	35	
158	2015	2018	0	0	0	0	0	0	0	
159	2015	2018	47	43	49	41	38	44	51	
160	2015	2018	36	40	40	40	37	31	37	
161	2015	2018	202	26	55	98	103	158	140	
162	2015	2018	32	38	22	46	49	50	27	
163	2015	2018	218	210	235	285	244	250	215	
164	2015	2018	54	51	43	103	93	95	11	
165	2015	2018	23	22	22	21	19	21	24	
166	2015	2018	9	9	11	9	10	10	11	
167	2015	2018	224	198	213	214	188	209	249	
168	2015	2018	1	1	2	2	2	1	2	
169	2015	2018	0	1	1	2	2	1	2	
170	2015	2018	25	22	24	23	19	22	24	
171	2015	2018	25	22	21	26	22	26	12	
172	2015	2018	1	1	1	2	2	1	1	
173	2015	2018	18	18	20	18	18	19	21	
174	2015	2018	51	16	28	22	22	25	29	
175	2015	2018	15	23	21	23	20	19	18	
176	2015	2018	89	27	36	34	36	44	20	
177	2015	2018	15	26	25	28	23	16	6	
178	2015	2018	0	0	1	1	1	1	1	
179	2015	2018	2	2	2	2	1	1	1	
180	2015	2018	40	30	42	39	36	31	39	
181	2015	2018	0	0	0	0	0	0	0	
182	2015	2018	108	118	114	104	110	85	102	
183	2015	2018	11	11	14	15	15	15	15	
184	2015	2018	23	22	21	21	19	24	22	
185	2015	2018	21	21	18	37	37	39	20	
186	2015	2018	107	33	48	54	53	45	21	
187	2015	2018	22	21	21	20	20	22	24	
188	2015	2018	33	32	27	53	51	70	22	
189	2015	2018	24	22	23	23	20	17	25	
190	2015	2018	27	27	23	48	51	51	8	
191	2015	2018	26	27	20	41	39	44	22	
192	2015	2018	26	31	25	48	49	48	25	
193	2015	2018	31	33	32	28	28	31	31	
194	2015	2018	496	144	126	178	241	285	221	
195	2015	2018	47	64	43	101	86	97	41	
196	2015	2018	153	148	136	269	244	284	108	
197	2015	2018	77	26	35	35	35	45	44	

Southwestern Public Service Company

2017 Opt Out Information

Premise Number	Year Received	Final Year	Annual Peak kWh	Contribution						
198	2015	2018	23	23	22	20	20	21	24	
199	2015	2018	25	24	23	23	22	24	27	
200	2015	2018	1	1	1	1	1	1	1	
201	2015	2018	0	0	0	0	0	0	0	
202	2015	2018	26	25	20	44	46	35	14	
203	2015	2018	1	2	1	1	4	1	1	
204	2015	2018	51	63	56	62	27	29	36	
205	2015	2018	32	31	36	35	31	37	39	
206	2015	2018	24	25	25	26	27	5	31	
207	2015	2018	54	46	55	64	49	57	56	
208	2015	2018	23	23	22	22	23	24	25	
209	2015	2018	25	20	23	27	27	31	34	
210	2015	2018	59	48	84	66	67	74	87	
211	2015	2018	0	0	0	0	0	0	0	
212	2015	2018	0	0	0	1	0	3	0	
213	2015	2018	59	21	36	35	33	41	42	
214	2015	2018	22	24	24	27	21	23	23	
215	2015	2018	28	30	29	38	27	32	31	
216	2015	2018	322	150	151	127	137	109	120	
217	2015	2018	8	14	28	26	26	31	32	
218	2015	2018	45	44	36	73	69	72	42	
219	2015	2018	17	23	23	24	20	16	10	
220	2015	2018	31	10	15	15	14	14	8	
221	2015	2018	40	36	35	33	31	40	36	
222	2015	2018	9	24	22	28	21	27	24	
223	2015	2018	0	0	0	0	0	0	0	
224	2015	2018	0	0	0	0	0	0	0	
225	2015	2018	94	118	69	197	210	171	77	
226	2015	2018	25	11	11	0	0	11	7	
227	2015	2018	34	31	31	31	31	33	13	
228	2015	2018	27	35	29	77	76	90	41	
229	2015	2018	65	72	67	76	63	51	36	
230	2015	2018	38	39	35	47	34	32	15	
231	2015	2018	48	42	33	75	80	45	24	
232	2015	2018	38	37	38	36	36	41	51	
233	2015	2018	8	14	12	13	13	16	15	
234	2015	2018	0	0	0	0	0	0	0	
235	2015	2018	1	1	1	1	1	1	1	
236	2015	2018	0	0	0	2	2	2	1	
237	2015	2018	1	0	1	0	1	0	0	
238	2015	2018	0	0	0	0	0	0	0	
239	2015	2018	142	150	129	4	114	140	132	
240	2015	2018	34	39	34	60	69	78	12	
241	2015	2018	29	28	30	29	29	32	19	
242	2015	2018	32	43	45	50	46	42	25	
243	2015	2018	8	9	6	7	32	29	18	
244	2015	2018	1706	1821	1557	1813	1552	1714	1426	
245	2015	2018	4	3	3	3	2	3	3	
246	2015	2018	21	24	26	24	23	22	30	
247	2015	2018	83	73	11	17	15	17	17	
248	2015	2018	20	18	20	19	18	22	21	
249	2015	2018	36	38	34	34	31	40	41	
250	2015	2018	80	31	47	52	38	41	33	
251	2015	2018	43	40	32	69	76	83	19	
252	2015	2018	33	26	27	28	23	26	25	
253	2015	2018	23	19	22	22	19	21	28	
254	2015	2018	28	23	15	22	15	12	12	
255	2015	2018	1	1	1	1	1	1	1	
256	2015	2018	0	0	0	0	1	0	1	
257	2015	2018	48	52	47	53	47	36	39	
258	2015	2018	22	21	21	21	21	22	24	
259	2015	2018	28	26	36	37	38	43	40	
260	2015	2018	122	44	62	66	68	66	74	
261	2015	2018	17	19	18	20	16	13	7	
262	2015	2018	26	8	15	10	16	17	17	
263	2015	2018	264	296	255	755	681	630	246	

Southwestern Public Service Company

2017 Opt Out Information

Premise Number	Year Received	Final Year	Annual Peak kWh Contribution							
264	2015	2018	98	39	52	55	51	56	40	
265	2015	2018	19	21	17	36	37	40	20	
266	2015	2018	304	405	352	340	285	324	303	
267	2015	2018	27	9	11	12	13	14	12	
268	2015	2018	1	0	0	0	0	0	0	
269	2015	2018	0	0	0	0	0	0	0	
270	2015	2018	0	0	0	1	1	1	0	
271	2015	2018	9	10	9	11	9	10	10	
272	2015	2018	7	9	9	12	10	11	8	
273	2015	2018	12	12	12	12	11	11	12	
274	2015	2018	12	11	10	20	18	21	11	
275	2015	2018	45	46	38	82	90	76	53	
276	2015	2018	36	40	29	57	56	41	22	
277	2015	2018	105	101	84	79	60	83	36	
278	2015	2018	2	4	11	17	16	13	16	
279	2015	2018	38	35	34	31	30	30	37	
280	2015	2018	18	21	19	19	13	14	16	
281	2015	2018	28	7	11	11	12	14	16	
282	2015	2018	29	35	24	55	43	52	29	
283	2015	2018	33	66	48	64	46	45	53	
284	2015	2018	260	297	267	307	248	242	231	
285	2015	2018	53	52	43	69	63	79	33	
286	2015	2018	7	10	9	10	9	11	11	
287	2015	2018	7	16	16	17	15	11	14	
288	2015	2018	13	14	11	22	22	22	11	
289	2015	2018	36	38	28	62	56	0	0	
290	2015	2018	53	55	56	51	51	0	0	
291	2015	2018	20	24	23	22	22	0	0	
292	2015	2018	43	16	0	0	0	0	0	
293	2015	2018	42	25	0	0	0	0	0	
294	2015	2018	21	23	0	0	0	0	0	
295	2015	2018	20	18	0	0	0	0	0	
296	2015	2018	21	42	0	0	0	0	0	
297	2015	2018	41	15	0	0	0	0	0	
298	2015	2018	17	0	0	0	0	0	0	
299	2015	2018	65	63	0	0	0	0	0	
300	2015	2018	50	0	0	0	0	0	0	
301	2015	2018	38	0	0	0	0	0	0	
302	2015	2018	0	0	0	0	0	0	0	
303	2015	2018	0	0	0	0	0	0	0	
304	2015	2018	28	17	0	0	0	0	0	
305	2014	2017	9	8	12	6	0	0	0	
306	2014	2017	0	0	173	0	0	0	0	
307	2014	2017	1129	469	0	0	0	0	0	
308	2014	2017	0	0	0	0	0	0	0	
309	2014	2017	1	0	0	0	0	0	0	
310	2014	2017	7	18	4	5	5	3	5	
311	2014	2017	2	2	1	1	2	1	1	
312	2014	2017	2	2	1	2	0	0	0	
313	2014	2017	22	22	7	0	0	0	0	
314	2014	2017	0	5	10	0	0	0	0	
315	2014	2017	0	0	4	0	0	0	0	
316	2014	2017	9	3	5	6	6	4	3	
317	2014	2017	1	21	22	18	20	18	24	
318	2014	2017	3	1	1	1	1	1	1	
319	2014	2017	0	0	0	3	0	0	1	
320	2015	2018	1	33	32	27	29	27	34	
321	2015	2018	10	20	22	22	22	28	30	
322	2015	2018	4	2	5	4	2	2	3	
323	2015	2018	11	26	22	21	22	16	18	
324	2015	2018	72	132	118	117	36	110	131	
325	2015	2018	8	11	12	11	10	6	8	
326	2015	2018	1	2	2	1	1	0	1	
327	2015	2018	1	21	19	21	20	20	96	
328	2015	2018	0	0	0	0	0	0	0	
329	2015	2018	52	90	74	52	56	42	46	

Southwestern Public Service Company

2017 Opt Out Information

Premise Number	Year Received	Final Year	Annual Peak kWh	Contribution						
330	2015	2018	18	10	11	10	9	12	14	
331	2015	2018	30	18	18	17	16	17	23	
332	2015	2018	2	0	1	1	2	1	2	
333	2015	2018	23	26	28	30	27	31	31	
334	2015	2018	2	6	6	11	7	21	32	
335	2015	2018	0	1	3	6	8	5	5	
336	2015	2018	10	22	14	31	30	26	25	
337	2015	2018	1	1	1	1	1	16	19	
338	2015	2018	31	55	64	74	64	83	90	
339	2015	2018	3	4	4	4	3	5	4	
340	2015	2018	7	9	10	5	5	6	6	
341	2015	2018	0	1	1	0	1	1	0	
342	2015	2018	0	0	1	1	0	1	1	
343	2015	2018	9	11	12	9	15	17	37	
344	2015	2018	19	42	0	35	28	70	3	
345	2015	2018	81	79	77	76	80	49	71	
346	2015	2018	1	1	1	1	1	1	1	
347	2015	2018	31	57	35	65	34	55	67	
348	2015	2018	7	9	10	9	10	14	12	
349	2015	2018	2	3	1	2	2	2	3	
350	2015	2018	50	44	46	42	43	49	60	
351	2015	2018	19	44	43	44	0	26	77	
352	2015	2018	22	40	45	20	21	19	23	
353	2015	2018	1	2	2	2	2	2	0	
354	2015	2018	13	13	24	13	16	18	20	
355	2015	2018	1	1	1	1	1	1	1	
356	2015	2018	5	4	5	7	3	-1	4	
357	2015	2018	17	22	16	20	19	17	3	
358	2015	2018	1	1	1	1	1	1	1	
359	2015	2018	1	1	1	0	0	0	0	
360	2015	2018	190	403	391	475	450	432	438	
361	2015	2018	20	31	31	31	34	23	32	
362	2015	2018	8	7	7	9	9	11	4	
363	2015	2018	1	1	1	1	2	2	2	
364	2015	2018	84	105	84	86	40	14	26	
365	2015	2018	12	14	13	13	13	12	14	
366	2015	2018	29	26	30	28	9	18	29	
367	2015	2018	2	3	1	1	1	2	5	
368	2015	2018	0	0	0	0	1	2	3	
369	2015	2018	12	16	17	17	19	15	18	
370	2015	2018	0	1	17	0	4	17	19	
371	2015	2018	3	1	1	1	1	0	1	
372	2015	2018	1	1	1	1	1	1	3	
373	2015	2018	21	10	11	9	9	9	10	
374	2015	2018	21	44	45	52	43	51	61	
375	2015	2018	35	30	29	0	58	42	73	
376	2015	2018	1	0	0	0	0	0	0	
377	2015	2018	29	30	31	33	33	18	24	
378	2015	2018	29	42	4	51	49	26	44	
379	2015	2018	3	5	3	7	4	7	9	
380	2015	2018	32	38	32	33	28	11	11	
381	2015	2018	2	12	9	9	2	9	19	
382	2015	2018	30	43	67	73	48	33	41	
383	2015	2018	0	0	0	0	0	0	0	
384	2015	2018	16	6	8	20	2	4	2	
385	2015	2018	0	0	0	0	0	1	0	
386	2015	2018	1	3	10	1	12	14	20	
387	2015	2018	101	78	93	100	38	80	103	
388	2015	2018	0	1	2	1	2	2	2	
389	2015	2018	5	0	6	10	8	10	6	
390	2015	2018	15	48	0	0	0	56	19	
391	2015	2018	135	132	121	86	139	47	29	
392	2015	2018	115	99	95	104	44	60	82	
393	2015	2018	36	39	34	37	14	24	53	
394	2015	2018	2	3	5	7	5	4	5	
395	2015	2018	63	75	77	87	70	97	94	



Southwestern Public Service Company

2017 Opt Out Information

Premise Number	Year Received	Final Year	Annual Peak kWh Contribution							
396	2015	2018	11	10	7	13	16	14	15	
397	2015	2018	9	9	0	0	0	10	14	
398	2015	2018	70	88	86	92	73	97	109	
399	2015	2018	76	66	66	77	65	46	86	
400	2015	2018	1	0	0	0	0	0	0	
401	2015	2018	121	84	79	85	63	73	91	
402	2015	2018	0	1	2	2	1	1	1	
403	2015	2018	1	0	0	0	0	0	0	
404	2015	2018	1	2	0	0	0	0	0	
405	2015	2018	14	20	35	35	36	23	35	
406	2015	2018	6	14	15	16	15	15	0	
407	2015	2018	29	61	60	63	70	68	0	
408	2015	2018	71	49	52	54	30	42	0	
409	2015	2018	97	78	84	83	80	71	0	
410	2015	2018	10	10	7	7	9	20	0	
411	2015	2018	104	74	70	75	49	52	0	
412	2015	2018	5	8	11	14	8	0	0	
413	2015	2018	11	21	21	19	31	0	0	
414	2015	2018	27	28	32	33	0	0	0	
415	2015	2018	1	3	1	5	2	2	3	
416	2015	2018	10	12	26	35	5	5	32	
417	2015	2018	7	7	18	23	10	11	27	
418	2015	2018	4	3	12	19	6	9	20	
419	2015	2018	6	16	22	39	20	21	24	
420	2015	2018	14	14	10	11	13	0	16	
421	2015	2018	3	3	6	9	5	5	11	
422	2015	2018	2	2	5	7	4	3	7	
423	2015	2018	25	33	53	62	33	25	66	
424	2015	2018	39	23	42	42	18	33	71	
425	2015	2018	50	36	84	84	42	37	85	
426	2015	2018	14	16	40	38	19	23	47	
427	2015	2018	373	369	734	899	435	307	1315	
428	2015	2018	9	14	30	25	11	9	20	
429	2015	2018	2	8	15	17	10	12	29	
430	2015	2018	7	8	10	9	11	18	24	
431	2015	2018	54	47	91	125	57	43	138	
432	2015	2018	115	77	147	173	89	55	206	
433	2015	2018	149	149	236	288	141	150	380	
434	2015	2018	17	18	31	29	14	10	36	
435	2015	2018	2	4	8	6	4	3	6	
436	2015	2018	1	5	8	6	6	3	8	
437	2015	2018	17	25	36	50	13	4	59	
438	2015	2018	218	0	290	270	145	155	90	
439	2015	2018	3	3	11	12	6	6	13	
440	2015	2018	3	3	5	5	2	2	8	
441	2015	2018	0	1	1	2	1	1	1	
442	2015	2018	3	3	6	7	3	4	8	
443	2015	2018	5	3	14	9	6	4	8	
444	2015	2018	11	11	19	22	8	0	25	
445	2015	2018	62	58	104	110	58	41	121	
446	2015	2018	1	1	6	3	6	7	18	
447	2015	2018	56	62	101	112	52	49	115	
448	2015	2018	191	176	244	378	168	124	346	
449	2015	2018	13	19	46	26	13	31	70	
450	2015	2018	13	17	37	44	19	22	57	
451	2015	2018	6	4	10	13	8	6	17	
452	2015	2018	3	2	5	10	3	3	6	
453	2015	2018	1	1	1	2	0	1	1	
454	2015	2018	94	76	160	191	87	64	88	
455	2015	2018	9	9	19	15	7	6	15	
456	2015	2018	13	12	23	31	12	14	36	
457	2015	2018	85	52	104	110	56	63	142	
458	2015	2018	8	11	20	22	10	10	23	
459	2015	2018	5	4	7	8	4	5	11	
460	2015	2018	1	1	1	1	1	0	1	
461	2015	2018	186	154	157	176	158	0	202	

Southwestern Public Service Company

2017 Opt Out Information

Premise Number	Year Received	Final Year	Annual Peak kWh	Contribution						
462	2015	2018	13	13	32	50	12	9	44	
463	2015	2018	5	9	10	15	6	8	11	
464	2015	2018	4	5	10	11	5	5	14	
465	2015	2018	32	26	53	56	28	16	123	
466	2015	2018	25	23	44	66	38	26	75	
467	2015	2018	88	81	86	103	47	44	118	
468	2015	2018	0	1	1	1	1	1	1	
469	2015	2018	3	3	8	10	5	4	8	
470	2015	2018	4	5	9	9	5	6	16	
471	2015	2018	78	62	89	78	64	0	85	
472	2015	2018	9	7	11	15	8	3	16	
473	2015	2018	2	3	8	8	5	1	4	
474	2015	2018	4	7	25	12	2	3	12	
475	2015	2018	30	35	57	72	38	38	67	
476	2015	2018	35	0	23	23	25	24	27	
477	2015	2018	2	4	5	5	3	2	8	
478	2015	2018	4	2	4	10	4	3	9	
479	2015	2018	6	7	13	14	7	7	14	
480	2015	2018	5	8	14	16	9	9	19	
481	2015	2018	140	135	139	271	130	79	78	
482	2015	2018	0	1	6	13	16	7	36	
483	2015	2018	0	0	1	1	1	0	0	
484	2015	2018	10	6	16	16	6	13	33	
485	2015	2018	5	3	13	11	4	5	12	
486	2015	2018	44	25	43	48	22	41	23	
487	2015	2018	4	8	12	25	24	18	43	
488	2015	2018	2	1	2	3	1	1	3	
489	2015	2018	0	0	0	0	1	0	0	
490	2015	2018	1	0	1	5	2	0	7	
491	2015	2018	11	11	26	27	17	33	59	
492	2015	2018	10	14	22	16	11	9	27	
493	2015	2018	14	0	22	23	6	4	21	
494	2015	2018	8	12	16	31	10	9	32	
495	2015	2018	67	57	117	128	64	45	145	
496	2015	2018	27	30	51	57	29	20	58	
497	2015	2018	47	22	96	107	47	42	100	
498	2015	2018	3	2	5	8	3	3	6	
499	2015	2018	39	41	78	86	41	29	83	
500	2015	2018	3	0	31	27	14	12	28	
501	2015	2018	313	368	645	696	333	351	692	
502	2015	2018	44	45	76	87	41	29	78	
503	2015	2018	3	3	0	0	0	0	0	
504	2015	2018	294	122	242	263	127	137	313	
505	2015	2018	4	8	16	16	7	8	32	
506	2015	2018	7	8	16	16	9	7	19	
507	2015	2018	10	8	13	18	11	10	26	
508	2015	2018	4	4	19	17	4	4	11	
509	2015	2018	14	16	27	33	15	1	37	
510	2015	2018	6	3	7	8	1	7	4	
511	2015	2018	450	310	643	692	313	347	445	
512	2015	2018	0	0	0	0	0	0	0	
513	2015	2018	13	4	7	8	4	5	14	
514	2015	2018	8	5	13	6	2	6	14	
515	2015	2018	59	48	102	112	7	61	87	
516	2015	2018	8	42	77	76	36	40	76	
517	2015	2018	40	41	69	75	37	28	82	
518	2015	2018	50	45	89	111	50	35	114	
519	2015	2018	44	27	78	84	41	32	92	
520	2015	2018	81	46	141	158	77	61	180	
521	2015	2018	106	61	113	113	49	58	124	
522	2015	2018	10	29	55	55	26	29	66	
523	2015	2018	156	124	277	304	134	95	298	
524	2015	2018	31	27	57	71	31	22	69	
525	2015	2018	40	44	73	80	40	28	82	
526	2015	2018	99	77	158	178	84	63	188	
527	2015	2018	30	30	50	59	30	27	83	

Southwestern Public Service Company

2017 Opt Out Information

Premise Number	Year Received	Final Year	Annual Peak kWh Contribution							
528	2015	2018	79	77	140	168	81	74	227	
529	2015	2018	15	14	29	34	16	12	39	
530	2015	2018	37	14	35	40	22	26	62	
531	2015	2018	53	55	114	94	48	45	105	
532	2015	2018	10	10	17	22	7	5	68	
533	2015	2018	134	130	270	288	137	36	107	
534	2015	2018	159	65	142	153	80	82	183	
535	2015	2018	90	74	76	165	69	53	174	
536	2015	2018	137	97	221	238	102	40	100	
537	2015	2018	42	34	76	79	37	26	77	
538	2015	2018	0	0	69	1	100	80	225	
539	2015	2018	53	53	94	111	53	38	107	
540	2015	2018	75	108	126	140	72	47	137	
541	2015	2018	43	53	82	99	57	39	112	
542	2015	2018	78	37	58	85	40	33	102	
543	2015	2018	54	16	133	150	65	82	176	
544	2015	2018	0	22	35	36	21	20	19	
545	2015	2018	26	0	39	0	23	16	47	
546	2015	2018	57	68	105	133	61	76	172	
547	2015	2018	33	33	56	71	36	30	150	
548	2015	2018	2	0	0	0	0	0	0	
549	2015	2018	26	24	40	60	30	6	77	
550	2015	2018	13	9	0	0	0	17	62	
551	2015	2018	133	96	197	232	110	52	228	
552	2015	2018	64	78	144	158	59	86	179	
553	2015	2018	0	2	23	24	14	13	15	
554	2015	2018	154	93	184	209	92	62	214	
555	2015	2018	45	50	93	98	42	53	187	
556	2015	2018	63	49	133	218	107	71	229	
557	2015	2018	1	1	2	2	1	1	7	
558	2015	2018	1	2	3	3	2	2	4	
559	2015	2018	7	6	20	16	5	9	20	
560	2015	2018	7	3	10	9	3	3	11	
561	2015	2018	6	10	0	0	0	0	0	
562	2015	2018	37	24	65	60	32	19	71	
563	2015	2018	111	149	282	302	64	127	140	
564	2015	2018	127	47	117	134	70	78	0	
565	2015	2018	57	50	92	123	60	40	0	
566	2015	2018	86	79	122	183	88	30	0	
567	2015	2018	77	82	135	174	80	0	0	
568	2015	2018	12	26	60	64	30	0	0	
569	2015	2018	100	86	182	177	75	0	0	
570	2015	2018	94	59	95	119	55	0	0	
571	2015	2018	1	4	16	25	15	0	0	
572	2015	2018	1	1	2	4	0	0	0	
573	2015	2018	0	37	17	25	23	18	21	
574	2015	2018	9	31	13	18	22	13	25	
575	2015	2018	0	1	0	1	2	1	2	
576	2015	2018	76	128	66	71	67	80	86	
577	2015	2018	43	114	58	69	70	35	51	
578	2015	2018	0	3	1	1	2	1	1	
579	2015	2018	1	2	1	1	1	1	2	
580	2015	2018	62	125	67	72	66	72	84	
581	2015	2018	51	99	46	49	89	0	39	
582	2015	2018	33	50	22	35	67	29	64	
583	2015	2018	29	126	63	66	118	0	68	
584	2015	2018	75	155	73	81	88	90	92	
585	2015	2018	106	184	92	84	125	59	45	
586	2015	2018	23	105	54	65	123	0	0	
587	2015	2018	9	41	35	34	27	32	0	
588	2015	2018	6	89	43	45	38	35	0	
589	2015	2018	31	62	28	31	0	0	0	
590	2015	2018	26	49	25	29	0	0	0	
591	2016	2019	1099	1097	645	580	1077	395	537	
592	2016	2019	578	562	518	532	489	0	0	
593	2016	2019	28	37	34	45	34	34	0	

**Southwestern Public Service Company**

**2017 Opt Out Information**

Premise Number	Year Received	Final Year	Annual Peak kWh Contribution							
594	2016	2019	1356	1935	1295	0	0	0	0	0
595	2016	2019	29	0	0	0	0	0	0	0
596	2016	2019	9	0	0	0	0	0	0	0
597	2016	2019	24	0	0	0	0	0	0	0
598	2016	2019	0	0	0	0	0	0	0	0
Total kWh			44897.58	44554.8	48734.48	52483.58	43757.11	35239.48	44274.7	
Total MWh			44.89758	44.5548	48.73448	52.48358	43.75711	35.23948	44.2747	

**Southwestern Public Service Company**

**Inputs Assumptions**

Line Loss Factor	9.62%
Growth in Demand Factor	30%
	0.40%
Load Factor	20%
Hours in Year	8760

**Southwestern Public Service Company**

**Calculation of Net Benefits, Cost Effectiveness, and Performance Bonus for PY 2015**

## **Bonus and Cost-effectiveness Calculator**

Version v8.0

updated 2/26/2015

**FRONTIER**

Frontier Associates

# Southwestern Public Service Company

## Calculation of Net Benefits, Cost Effectiveness, and Performance Bonus for PY 2015

### Step 1 - Fixed Inputs

Insert or Verify Data in Blue Cells	Fixed Inputs per PUC Rule		2013		2014		2015	
			Avoided Cost		Reference		2015	
Avoided Cost per kW	\$	80.00	\$ 80.00		\$ 80.00		\$ 80.00	
Avoided Cost per kWh	\$	0.05321	\$ 0.05321		\$ 0.05321		\$ 0.05321	
Utility Specific Discount Rate (WACC)		7.8800%	7.8800%		7.8800%		7.8800%	
Inflation Rate		2.0%	2.0%		2.0%		2.0%	
Maximum % Net Benefits for Bonus		10.0%	10.0%		10.0%		10.0%	

updated by Xcel 3/2016

PUC Goals	kW	kWh
2015 Goals	5,495	9,627,240

Cost-effectiveness Input	
Bonus Collected in 2015 = Bonus Earned in 2013	\$ -

no bonus earned PY2013 per Xcel 3/2016

Please Note: The bonus included in the cost-effectiveness analysis is the **bonus collected** for the program year, not the bonus earned. For example, for PY2015 cost-effectiveness, the **bonus collected** (= 2013 bonus earned) should be included in cell B14 of this tab.

As a result, this bonus will not match the bonus calculated in the Step 4 Bonus Calculator Tab which is the **bonus earned** for PY2015.

Southwestern Public Service Company

Calculation of Net Benefits, Cost Effectiveness, and Performance Bonus for PY 2015  
Step 2 - Results Calc

Instructions	Program (list custom measure here if necessary)	Select from drop-down Measure (Select from Drop Down Menu)	(It's ok # Premises
<b>WHITE CELLS:</b> Enter Data <b>GREY CELLS:</b> Sub-Totals or Blanks <b>BLUE CELLS:</b> Optional Data Entry <b>GREEN CELLS:</b> Automatic Calculations Max of 16 programs	<b>Commercial SOP</b>	N/A	-
	Not in TRM 2.1 for Comm?	C-CeilRoofIns	
	C-HIDLmps	Comm Lamps and Fixtures: High Intensity Discharge Lamps	
	C-IBCF	Comm Lamps and Fixtures: Integrated-ballast CFL Lamps	
	C-IntLED	Comm Lamps and Fixtures: Integral LED Lamps	
<b>Measure Search:</b>	C-LED - updated 4.21.16 per EM&V team	Comm Lamps and Fixtures: Light Emitting Diode	
	C-LightCtrlOS	Comm Lighting Controls: Occupancy Sensor	
	C-SplitPckHPAC	Comm Split System/Single Packaged Heat Pumps and Air Conditioners	
	C-T8T5Lmps	Comm Lamps and Fixtures: T8 and T5 Linear Fluorescents	
		N/A	-
<b>Small Commercial SOP</b>  Not in TRM 2.1 for Comm? C-HoloLmps C-HIDLmps - updated 4.21.16 per EM&V team C-IBCF C-IntLED C-LED C-LightCtrlOS C-ModCFLCCFL - updated 4.21.16 per EM&V team C-SplitPckHPAC C-T8T5Lmps	C-CeilRoofIns	Comm Lamps and Fixtures: Halogen Lamps	
	C-HoloLmps	Comm Lamps and Fixtures: High Intensity Discharge Lamps	
	C-IBCF	Comm Lamps and Fixtures: Integrated-ballast CFL Lamps	
	C-IntLED	Comm Lamps and Fixtures: Integral LED Lamps	
	C-LED	Comm Lamps and Fixtures: Light Emitting Diode	
	C-LightCtrlOS	Comm Lighting Controls: Occupancy Sensor	
	C-ModCFLCCFL - updated 4.21.16 per EM&V team	Comm Lamps and Fixtures: Modular CFL and CCFL Fixtures	
	C-SplitPckHPAC	Comm Split System/Single Packaged Heat Pumps and Air Conditioners	
	C-T8T5Lmps	Comm Lamps and Fixtures: T8 and T5 Linear Fluorescents	
		N/A	-
	Comm Load Curtailment		
		N/A	-
	10 year EUL	custom	
	15 year EUL	custom	
	15.5 year EUL	custom	
	20 year EUL	custom	
	25 year EUL	custom	
<b>Residential SOP</b>		N/A	-
	R-AirInf	Res Air Infiltration	
	R-CeilingIns	Res Ceiling Insulation	
	R-CentAC	Res Central AC	
	R-CentHP	Res Central Heat Pump	
<b>Hard-to-Reach SOP</b>	R-DuctEff	Res Duct Efficiency Improvement	
		N/A	-



Southwestern Public Service Company

Calculation of Net Benefits, Cost Effectiveness, and Performance Bonus for PY 2015

Step 2 - Results Calc

Instructions	Manually Enter Data to cut and paste in these cells)					Automatic Or Manual	Total Admin for Bonus (Excluding Bonus; including cost paid for EECRF)
	Program (list custom measure here if necessary)	kW	kWh	Incentives	Estimated Useful Life		
WHITE CELLS: Enter Data GREY CELLS: Sub-Totals or Blanks BLUE CELLS: Optional Data Entry Max of 16 programs	Commercial SOP	1,861.7	6,429,444	\$ 597,672.43	NA	\$	144,595
	Not in TRM 2.1 for Comm?	31.61	63,222	\$ 9,684.03		\$	2,343
	C-HIDLmps	4.76	24,546	\$ 2,150.24	15.5	\$	520
	C-IBCF	18.47	110,938	\$ 7,856.57	2.5	\$	1,901
	C-IntLED	141.3	584,852	\$ 43,400.70	9.0	\$	10,500
	C-LED - updated 4.21.16 per EM&V team	891.9	4,433,665	\$ 322,601.92	15.0	\$	78,047
	C-LightCentriOS	10.9	66,262	\$ 4,595.11	10.0	\$	1,112
	C-SplitPckHPAC	671.0	623,534	\$ 172,037.36	15.0	\$	41,621
	C-T8TSLmps	91.8	522,425	\$ 35,346.50	15.5	\$	8,551
	Small Commercial SOP	134.1	532,009	\$ 42,902.39	NA	\$	21,265
Measure Search:	Not in TRM 2.1 for Comm?	21.89	43,788	\$ 5,889.26		\$	2,919
	C-HIDLmps	883		\$ 62.60	1.5	\$	31
	C-HoloLmps	0.19		\$ 346.67	15.5	\$	172
	C-IBCF	6.97	31,787	\$ 2,268.38	2.5	\$	1,124
	C-IntLED	26.61	114,108	\$ 8,298.87	9.0	\$	4,113
	C-LED	6.62	38,349	\$ 2,504.15	15.0	\$	1,241
	C-LightCentriOS	0.43	2,290	\$ 156.24	10.0	\$	77
	C-ModCFLCFL - updated 4.21.16 per EM&V team	0.16	654.83	\$ 58.07	16.0	\$	29
	C-SplitPckHPAC	9.58	17,218	\$ 2,819.70	15.0	\$	1,398
	C-T8TSLmps	61.60	282,931	\$ 20,498.45	15.5	\$	10,160
Load Management SOP		4,252.0	34,004	\$ 212,600.00	NA	\$	31,799
		4,252.00	34,004	\$ 212,600.00	1.0	\$	31,799
	Recommissioning MTP	420.2	3,188,423	\$ 647,439.69	NA	\$	47,394
	10 year EUL	53.79	610,518	\$		\$	
	15 year EUL	267.06	2,069,306	\$ 528,777.75		\$	38,707
	15.5 year EUL	44.47	371,838	\$ 62,134.68		\$	4,548
	20 year EUL	38.88	95,770	\$ 39,840.62		\$	2,916
	25 year EUL	15.98	40,992	\$ 16,686.64		\$	1,221
	Residential SOP	829.5	2,386,697	\$ 556,073.94	NA	\$	84,859
	R-AirInf	114.00	119,766	\$ 52,642.51	11.0	\$	8,014
Hard-to-Reach SOP	R-CeilingIns	384.62	857,001	\$ 234,976.86	25.0	\$	35,774
	R-CentAC	114.52	221,240	\$ 66,441.05	19.0	\$	10,115
	R-CentHP	58.74	193,297	\$ 43,258.28	16.0	\$	6,586
	R-DuctEff	157.66	995,393	\$ 158,755.24	18.0	\$	24,169
		443.5	1,271,605	\$ 351,612.42	NA	\$	51,533
						\$	
						\$	
						\$	
						\$	
						\$	

\*Filter measure list for cells in column C

Southwestern Public Service Company

Calculation of Net Benefits, Cost Effectiveness, and Performance Bonus for PY 2015  
Step 2 - Results Calc

Instructions	Automatic Calculations for Cost:			
	Program (list custom measure here if necessary)	Total Admin for CE (Including Bonus; excluding cost paid for EECRF)	Total Program Cost for Bonus (Excluding Bonus; including cost paid for EECRF)	Total Program Cost for CE (Including Bonus; excluding cost paid for EECRF)
<b>WHITE CELLS:</b> Enter Data <b>GREY CELLS:</b> Sub-Totals or Blanks <b>BLUE CELLS:</b> Optional Data Entry <b>GREEN CELLS:</b> Performance Calculations Max of 16 programs	<b>Commercial SOP</b>	\$	144,595 \$	742,268 \$
	Not in TRM 2.1 for Comm?			
	C-HIDLmps	2,343 \$	12,027 \$	12,027 \$
	C-IBCFI	520 \$	2,670 \$	2,670 \$
	C-IntLED	1,901 \$	9,757 \$	9,757 \$
<b>Measure Search:</b>	C-LED - updated 4.21.16 per EM&V team	10,500 \$	53,901 \$	53,901 \$
		78,047 \$	400,649 \$	400,649 \$
	C-LightOnTriOS	1,112 \$	5,707 \$	5,707 \$
	C-SplitPchHPAC	41,621 \$	213,658 \$	213,658 \$
	C-T8T5Lmps	8,551 \$	43,898 \$	43,898 \$
<b>Small Commercial SOP</b>		\$	21,265 \$	64,168 \$
	Not in TRM 2.1 for Comm?			
	C-HaloLmps	2,919 \$	8,808 \$	8,808 \$
	C-HIDLmps - updated 4.21.16 per EM&V team	31 \$	94 \$	94 \$
	C-IBCFI	172 \$	519 \$	519 \$
	C-IntLED	1,124 \$	3,393 \$	3,393 \$
	C-LED	4,113 \$	12,412 \$	12,412 \$
	C-LightOnTriOS	1,241 \$	3,745 \$	3,745 \$
	C-ModCFI/CFI - updated 4.21.16 per EM&V team	77 \$	234 \$	234 \$
	C-SplitPchHPAC	29 \$	87 \$	87 \$
<b>Load Management SOP</b>		1,398 \$	4,217 \$	4,217 \$
	C-T8T5Lmps	10,160 \$	30,659 \$	30,659 \$
		\$	244,399 \$	244,399 \$
		\$	244,399 \$	244,399 \$
		\$	694,833 \$	694,833 \$
<b>Recommissioning MTP</b>		\$	\$	\$
	10 year EUL	\$	\$	\$
	15 year EUL	\$	\$	\$
	15.5 year EUL	\$	\$	\$
	20 year EUL	\$	\$	\$
<b>Residential SOP</b>		2,916 \$	42,757 \$	42,757 \$
		1,221 \$	17,908 \$	17,908 \$
		84,659 \$	640,733 \$	640,733 \$
	R-AirInf	8,014 \$	60,657 \$	60,657 \$
	R-CeilingIns	35,774 \$	270,751 \$	270,751 \$
	R-CentAC	10,115 \$	76,556 \$	76,556 \$
	R-CentHP	6,586 \$	49,844 \$	49,844 \$
	R-DuctEff	24,169 \$	182,925 \$	182,925 \$
		\$	403,146 \$	403,146 \$
		51,533 \$		

\*Filter measure list for calls in column C

Instructions	Effectiveness and Bonus						
	Program (list custom measure here if necessary)	PV (Avoided Capacity Cost)	PV (Avoided Energy Cost)	PV Avd Capacity Cost * kW	PV Avoided Energy Cost * kWh	Total Avoided Cost	Net Benefits
WHITE CELLS: Enter Data GREY CELLS: Sub-Totals or Blanks BLUE CELLS: Optional Data Entry GREEN CELLS: Alternative Calculations Max of 16 programs	Commercial SOP	\$ 5,111	\$ 3,400	\$ 1,417,312	\$ 3,225,763	\$ 4,643,074	\$ 3,900,807
	Not in TRM 2.1 for Comm?	\$ 595	\$ 0.396	\$ 18,821	\$ 25,038	\$ 43,859	\$ 31,832
	C-HIDLmps	\$ 806	\$ 0.536	\$ 3,835	\$ 13,153	\$ 16,987	\$ 14,317
	C-IBCFI	\$ 181	\$ 0.121	\$ 3,351	\$ 13,388	\$ 16,739	\$ 6,982
	C-IntLED	\$ 550	\$ 0.366	\$ 77,658	\$ 213,853	\$ 291,511	\$ 237,610
	C-LED - updated 4.21.16 per EM&V team	\$ 789	\$ 0.525	\$ 703,792	\$ 2,326,909	\$ 3,030,701	\$ 2,630,052
	C-LightCntrlOS	\$ 595	\$ 0.396	\$ 6,484	\$ 26,242	\$ 32,726	\$ 27,020
	C-SpltpctHPAC	\$ 789	\$ 0.525	\$ 529,440	\$ 327,248	\$ 856,688	\$ 643,029
	C-T8TSLmps	\$ 806	\$ 0.536	\$ 73,931	\$ 279,932	\$ 353,862	\$ 309,965
	Small Commercial SOP	\$ 6,045	\$ 4	\$ 91,745	\$ 244,999	\$ 336,743	\$ 272,576
*Filter measure list for cells in column C	Not in TRM 2.1 for Comm?	\$ 595	\$ 0.396	\$ 13,034	\$ 17,342	\$ 30,375	\$ 21,567
	C-Halolmps	\$ 112	\$ 0.074	\$ 21	\$ 66	\$ 87	\$ (7)
	C-IBCFI	\$ 181	\$ 0.121	\$ 1,265	\$ 3,836	\$ 5,101	\$ (519)
	C-IntLED	\$ 550	\$ 0.366	\$ 14,629	\$ 41,724	\$ 56,353	\$ 43,940
	C-LED	\$ 789	\$ 0.525	\$ 5,224	\$ 20,127	\$ 25,350	\$ 21,605
	C-LightCntrlOS	\$ 595	\$ 0.396	\$ 256	\$ 907	\$ 1,163	\$ 929
	C-ModCFLCFL - updated 4.21.16 per EM&V team	\$ 822	\$ 0.547	\$ 131	\$ 358	\$ 489	\$ 403
	C-SpltpctHPAC	\$ 789	\$ 0.525	\$ 7,559	\$ 9,037	\$ 16,596	\$ 12,379
	C-T8TSLmps	\$ 806	\$ 0.536	\$ 49,626	\$ 151,603	\$ 201,229	\$ 170,570
	Load Management SOP	\$ 76	\$ 0	\$ 321,620	\$ 1,711	\$ 323,330	\$ 78,931
Recommissioning MTP		\$ 76	\$ 0.050	\$ 321,620	\$ 1,711	\$ 323,330	\$ 78,931
	10 year EUL	\$ 4,247	\$ 3	\$ 331,662	\$ 1,615,157	\$ 1,946,818	\$ 1,251,985
	15 year EUL	\$ 595.43	\$ 0.396	\$ 32,028	\$ 241,785	\$ 273,813	\$ 273,813
	15.5 year EUL	\$ 789.07	\$ 0.525	\$ 210,732	\$ 1,086,029	\$ 1,296,760	\$ 729,275
	20 year EUL	\$ 805.61	\$ 0.536	\$ 35,824	\$ 199,243	\$ 235,067	\$ 168,384
	25 year EUL	\$ 935.38	\$ 0.622	\$ 36,364	\$ 59,583	\$ 95,946	\$ 53,189
		\$ 1045.94	\$ 0.696	\$ 16,714	\$ 28,517	\$ 45,231	\$ 27,323
	Residential SOP	\$ 4,297	\$ 3	\$ 766,503	\$ 1,470,272	\$ 2,236,775	\$ 1,586,042
	R-AirInf	\$ 638.61	\$ 0.425	\$ 72,802	\$ 50,871	\$ 123,673	\$ 63,016
	R-CeilingIns	\$ 1045.94	\$ 0.696	\$ 402,289	\$ 596,198	\$ 998,487	\$ 727,736
Hard-to-Reach SOP	R-CentBAC	\$ 909.30	\$ 0.605	\$ 104,133	\$ 133,806	\$ 237,939	\$ 161,383
	R-CentHIP	\$ 821.70	\$ 0.547	\$ 48,267	\$ 105,643	\$ 153,909	\$ 104,065
	R-DuctEff	\$ 881.72	\$ 0.586	\$ 139,012	\$ 583,753	\$ 722,766	\$ 539,841
		\$ 3,128	\$ 2	\$ 423,749	\$ 800,029	\$ 1,223,778	\$ 820,632

Southwestern Public Service Company

Calculation of Net Benefits, Cost Effectiveness, and Performance Bonus for PY 2015  
Step 2 - Results Calc

Instructions	Program (list custom measure here if necessary)	Ben-Cost Ratio	Estimated Max. Bonus (10% NB)	Load Factor	% of Total Avoided Costs from kW	% of Total Avoided Costs from kWh	Additional / Total \$/Installation
WHITE CELLS: Enter Data GREY CELLS: Sub-Totals or Totals BLUE CELLS: Optional Data Entry GREEN CELLS: Additional Comments Max of 16 programs	Commercial SOP	6.26	\$ 390,081	39%			
	Not in TRM 2.1 for Comm?	3.65	\$ 3,183	23%	43%	57%	#DIV/0!
	C-HIDLmps	6.36	\$ 1,432	59%	23%	77%	#DIV/0!
	C-IBCFI	1.72	\$ 698	69%	20%	80%	#DIV/0!
	C-IntLED	5.41	\$ 23,761	47%	27%	73%	#DIV/0!
	C-LED - updated 4.21.16 per EM&V team	7.56	\$ 263,005	57%	23%	77%	#DIV/0!
	C-LightCentriOS	5.73	\$ 2,702	69%	20%	80%	#DIV/0!
	C-SplitPckHPAC	4.01	\$ 64,303	11%	62%	38%	#DIV/0!
	C-7875Lmps	8.06	\$ 30,996	65%	21%	79%	#DIV/0!
	Small Commercial SOP	5.25	\$ 27,258	45%			
Measure Search:	Not in TRM 2.1 for Comm?	3.45	\$ 2,157	23%	43%	57%	#DIV/0!
	C-HoldLmps	0.93	\$ (1)	53%	24%	76%	#DIV/0!
	C-HoldLmps - updated 4.21.16 per EM&V team	0.00	\$ (52)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	C-IBCFI	1.50	\$ 171	52%	25%	75%	#DIV/0!
	C-IntLED	4.54	\$ 4,394	49%	26%	74%	#DIV/0!
	C-LED	6.77	\$ 2,161	66%	21%	79%	#DIV/0!
	C-LightCentriOS	4.98	\$ 93	61%	22%	78%	#DIV/0!
	C-ModCLCCFI - updated 4.21.16 per EM&V team	5.63	\$ 40	47%	27%	73%	#DIV/0!
	C-SplitPckHPAC	3.94	\$ 1,238	21%	46%	54%	#DIV/0!
	C-7875Lmps	6.56	\$ 17,057	52%	25%	75%	#DIV/0!
Load Management SOP		1.32	\$ 7,893	0%			
		1.32	\$ 7,893	0%	99%	1%	#DIV/0!
	Recommissioning MTP	2.80	\$ 125,198	87%			
	10 year EUL	#DIV/0!	\$ 27,381	130%	12%	88%	#DIV/0!
	15 year EUL	2.29	\$ 72,927	88%	16%	84%	#DIV/0!
	15.5 year EUL	3.53	\$ 16,838	95%	15%	85%	#DIV/0!
	20 year EUL	2.24	\$ 5,319	28%	36%	62%	#DIV/0!
	25 year EUL	2.53	\$ 2,732	29%	37%	63%	#DIV/0!
	Residential SOP	3.49	\$ 159,604	33%			
	R-AirInj	2.04	\$ 6,302	12%	59%	41%	#DIV/0!
Hard-to-Reach SOP	R-CeilingIns	3.69	\$ 72,774	25%	40%	60%	#DIV/0!
	R-CentAC	3.11	\$ 16,138	22%	44%	56%	#DIV/0!
	R-CentHP	3.09	\$ 10,407	38%	31%	69%	#DIV/0!
	R-DuctEff	3.95	\$ 53,984	72%	19%	81%	#DIV/0!
		3.04	\$ 82,063	33%			

\*Filter measure list for cells in column C

Calculation of Net Benefits, Cost Effectiveness, and Performance Bonus for PY 2015  
 Step 2 - Results Calc

Instructions	Analysis (Do Not Include in Filing)					
	Program (list custom measure here if necessary)	Total Annual \$/kW	Total Annual \$/kWh	Total Avoided Cost/kW	Total Avoided Cost/kWh	Total Incentive Paid as % of Total Avoided Cost
WHITE CELLS: Enter Data GREY CELLS: Sub-Totals or Blanks BLUE CELLS: Optional Data Entry GREEN CELLS: Performance Calculations Max of 16 programs	Commercial SOP	\$ 399				
	Not in TRM 2.1 for Comm?	\$ 380	\$ 0.1902	\$ 1,388	\$ 0.69	22%
	C-HIDLmps	\$ 561	\$ 0.1088	\$ 3,569	\$ 0.69	13%
	C-IBCFI	\$ 528	\$ 0.0880	\$ 906	\$ 0.15	47%
	C-IntLED	\$ 382	\$ 0.0922	\$ 2,064	\$ 0.50	15%
Measure Search:	C-LED - updated 4.21.16 per EM&V team	\$ 449	\$ 0.0904	\$ 3,398	\$ 0.68	11%
	C-LightCentriOS	\$ 524	\$ 0.0861	\$ 3,005	\$ 0.49	14%
	C-SplPckHPAC	\$ 318	\$ 0.3427	\$ 1,277	\$ 1.37	20%
	C-T8TSLmps	\$ 478	\$ 0.0840	\$ 3,856	\$ 0.68	10%
	Small Commercial SOP	\$ 479				
*Filter measure list for cells in column C	Not in TRM 2.1 for Comm?	\$ 402	\$ 0.2012	\$ 1,388	\$ 0.69	19%
	C-HoloLmps	\$ 493	\$ 0.1061	\$ 458	\$ 0.10	72%
	C-HIDLmps - updated 4.21.16 per EM&V team	\$ 487	\$ 0.1067	\$ 732	\$ 0.16	44%
	C-IBCFI	\$ 466	\$ 0.1088	\$ 2,118	\$ 0.49	15%
	C-IntLED	\$ 566	\$ 0.0977	\$ 3,829	\$ 0.66	10%
	C-LED	\$ 543	\$ 0.1020	\$ 2,705	\$ 0.51	13%
	C-LightCentriOS	\$ 543	\$ 0.1326	\$ 3,058	\$ 0.75	12%
	C-ModCLCFL - updated 4.21.16 per EM&V team	\$ 440	\$ 0.2449	\$ 1,732	\$ 0.96	17%
	C-SplPckHPAC	\$ 498	\$ 0.1084	\$ 3,267	\$ 0.71	10%
	C-T8TSLmps	\$ 57				
	Load Management SOP	\$ 57	\$ 7.1874	\$ 76	\$ 9.51	66%
	Recommissioning MTP	\$ 1,654				
	10 year EUL	\$ -	\$ -	\$ 5,090	\$ 0.45	0%
	15 year EUL	\$ 2,125	\$ 0.2742	\$ 4,856	\$ 0.63	41%
	15.5 year EUL	\$ 1,500	\$ 0.1793	\$ 5,286	\$ 0.63	26%
Residential SOP	20 year EUL	\$ 1,100	\$ 0.4465	\$ 2,468	\$ 1.00	42%
	25 year EUL	\$ 1,121	\$ 0.4369	\$ 2,830	\$ 1.10	37%
	R-AirInf	\$ 772				
	R-CeilingIns	\$ 532	\$ 0.5065	\$ 1,085	\$ 1.03	43%
	R-CentAC	\$ 704	\$ 0.3159	\$ 2,596	\$ 1.17	24%
Hard-to-Reach SOP	R-CentHP	\$ 668	\$ 0.3460	\$ 2,078	\$ 1.08	28%
	R-DuctEff	\$ 849	\$ 0.2579	\$ 2,620	\$ 0.80	28%
		\$ 1,160	\$ 0.1838	\$ 4,584	\$ 0.73	22%
		\$ 909				

Southwestern Public Service Company

Calculation of Net Benefits, Cost Effectiveness, and Performance Bonus for PY 2015  
Step 2 - Results Calc

Instructions	Program (list custom measure here if necessary)	Select from drop-down Measure (Select from Drop Down Menu)	(It's ok # Premises
	R-AirInf	Res Air Infiltration	
	R-CeilingIns	Res Ceiling Insulation	
	R-CFL	Res Compact Fluorescent Lamps	
	R-DuctEff	Res Duct Efficiency Improvement	
	Low Income Weatherization	N/A	
	R-AirInf	Res Air Infiltration	
	R-CeilingIns	Res Ceiling Insulation	
	R-CentHP	Res Central Heat Pump	
	R-CFL	Res Compact Fluorescent Lamps	
	R-DuctEff	Res Duct Efficiency Improvement	
	R-Refrig	Res Energy Star Refrigerators	
	R-SiteVisit	Site Visit	
	R-SolarScreens	Res Solar Screens	
	R-WHPipeIns	Res Water Heater Pipe Insulation	
	R-WHTankIns	Res Water Heater Tank Insulation	
	R-WinAC	Res Window Air Conditioner	
	Portfolio Total		

Southwestern Public Service Company

Calculation of Net Benefits, Cost Effectiveness, and Performance Bonus for PY 2015  
Step 2 - Results Calc

Instructions	Manually Enter Data to cut and paste in these cells					Automatic Or Manual	Total Admin for Bonus (Excluding Bonus; including cost paid for EECRF)
	Program (list custom measure here if necessary)	kW	kWh	Incentives	Estimated Useful Life		
	R-Airing	54.85	58,130	\$ 30,431.28	11.0	\$	4,460
	R-Ceilingins	286.97	636,960	\$ 206,515.71	25.0	\$	30,268
	R-CFL	2.79	22,374	\$ 4,191.00	7.7	\$	614
	R-DuctEff	98.91	554,141	\$ 110,474.43	18.0	\$	16,191
	Low Income Weatherization	224.6	694,404	\$ 358,461.51	NA	\$	77,493
	R-Airing	5.49	7,004	\$ 1,463.67	11.0	\$	316
	R-Ceilingins	10.56	15,968	\$ 20,469.16	25.0	\$	4,425
	R-CentHP	202.62	635,538	\$ 299,060.16	16.0	\$	64,652
	R-CFL	2.23	17,465	\$ 7,997.40	7.7	\$	1,729
	R-DuctEff	0.42	4,082	\$ 443.88	18.0	\$	96
	R-Refrig	0.35	2,426	\$ 4,546.80	17.0	\$	983
	R-SiteVisit	-	-	\$ 13,175.00		\$	2,848
	R-SilScrm	2.66	10,888	\$ 9,033.12	10.0	\$	1,953
	R-WHPipelines	0.05	387	\$ 126.36	13.0	\$	27
	R-WHTnkns	0.06	486	\$ 158.76	7.0	\$	34
	R-WinAC	0.16	160	\$ 1,987.20	11.0	\$	430
	Portfolio Total	8,166	14,536,587	\$ 2,766,762	NA	\$	458,739

Southwestern Public Service Company

Calculation of Net Benefits, Cost Effectiveness, and Performance Bonus for PY 2015  
Step 2 - Results Calc

Instructions	Program (list custom measure here if necessary)	Automatic Calculations for Cost-		
		Total Admin for CE (Including Bonus; excluding cost paid for EECRF)	Total Program Cost for Bonus (Excluding Bonus; including cost paid for EECRF)	Total Program Cost for CE (Including Bonus; excluding cost paid for EECRF)
	R-AirInf \$	4,460 \$	34,891 \$	34,891 \$
	R-CeilingIns \$	30,268 \$	236,783 \$	236,783 \$
	R-CFL \$	614 \$	4,805 \$	4,805 \$
	R-DuctEff \$	16,191 \$	126,666 \$	126,666 \$
	<b>Low Income Weatherization</b>	<b>77,493 \$</b>	<b>435,955 \$</b>	<b>435,955 \$</b>
	R-AirInf \$	316 \$	1,780 \$	1,780 \$
	R-CeilingIns \$	4,425 \$	24,894 \$	24,894 \$
	R-CentHP \$	64,652 \$	363,712 \$	363,712 \$
	R-CFL \$	1,729 \$	9,726 \$	9,726 \$
	R-DuctEff \$	96 \$	540 \$	540 \$
	R-Heating \$	983 \$	5,530 \$	5,530 \$
	R-SiteVisit \$	2,848 \$	16,023 \$	16,023 \$
	R-SirScm \$	1,953 \$	10,986 \$	10,986 \$
	R-WHPipels \$	27 \$	154 \$	154 \$
	R-WHTnkIns \$	34 \$	193 \$	193 \$
	R-WinAC \$	430 \$	2,417 \$	2,417 \$
	<b>Portfolio Total</b>	<b>458,739 \$</b>	<b>3,225,501 \$</b>	<b>3,225,501 \$</b>

\$ 3,225,501



Calculation of Net Benefits, Cost Effectiveness, and Performance Bonus for PY 2015  
 Step 2 - Results Calc

Instructions		effectiveness and Bonus						
	Program (list custom measure here if necessary)	PV (Avoided Capacity Cost)	PV (Avoided Energy Cost)	PV Avd Capacity Cost * kW	PV Avoided Energy Cost * kWh	Total Avoided Cost	Net Benefits	
	R-AirInj	638.61 \$	0.425 \$	35,028 \$	24,691 \$	59,719 \$	24,828 \$	
	R-CeilingIns	1045.94 \$	0.696 \$	300,153 \$	443,120 \$	743,273 \$	506,490 \$	
	R-CFL	486.41 \$	0.324 \$	1,357 \$	7,239 \$	8,596 \$	3,790 \$	
	R-DuctEff	881.72 \$	0.586 \$	87,211 \$	324,979 \$	412,190 \$	285,524 \$	
	Low Income Weatherization	\$ 7,205	\$ 5	\$ 184,546	\$ 375,556	\$ 560,101	\$ 124,147	
	R-AirInj	638.61 \$	0.425 \$	3,506 \$	2,975 \$	6,481 \$	4,701 \$	
	R-CeilingIns	1045.94 \$	0.696 \$	11,045 \$	11,109 \$	22,154 \$	(2,741) \$	
	R-CentHP	821.70 \$	0.547 \$	166,492 \$	347,342 \$	513,834 \$	150,122 \$	
	R-CFL	486.41 \$	0.324 \$	1,085 \$	5,650 \$	6,735 \$	(2,991) \$	
	R-DuctEff	881.72 \$	0.586 \$	370 \$	2,394 \$	2,764 \$	2,224 \$	
	R-Refrig	852.55 \$	0.567 \$	298 \$	1,376 \$	1,674 \$	(3,856) \$	
	R-SiteVisit	75.64 \$	0.050 \$	- \$	- \$	- \$	(16,023) \$	
	R-SilScrn	595.43 \$	0.396 \$	1,584 \$	4,312 \$	5,896 \$	(5,090) \$	
	R-WHPelms	718.05 \$	0.478 \$	36 \$	185 \$	221 \$	67 \$	
	R-WHTnkIns	450.35 \$	0.300 \$	27 \$	146 \$	173 \$	(20) \$	
	R-WinAC	638.61 \$	0.425 \$	102 \$	68 \$	170 \$	(2,247) \$	
	Portfolio Total			\$ 3,537,135	\$ 7,733,485	\$ 11,270,620	\$ 8,045,119	

Southwestern Public Service Company

Calculation of Net Benefits, Cost Effectiveness, and Performance Bonus for PY 2015  
Step 2 - Results Calc

Instructions	Program (list custom measure here if necessary)	Ben-Cost Ratio	Estimated Max Bonus (10% NB)	Additional /			
				Load Factor	% of Total Avoided Costs from kW	% of Total Avoided Costs from kWh	Total \$/Installation
	R-AirInf	1.71	\$ 2,483	12%	59%	41%	#DIV/0!
	R-CeilingIns	3.14	\$ 50,649	25%	40%	60%	#DIV/0!
	R-CFL	1.79	\$ 379	92%	16%	84%	#DIV/0!
	R-DuctEff	3.25	\$ 28,552	64%	21%	79%	#DIV/0!
	Low Income Weatherization	1.28	\$ 12,415				
	R-AirInf	3.64	\$ 470	15%	54%	46%	#DIV/0!
	R-CeilingIns	0.89	\$ (274)	17%	50%	50%	#DIV/0!
	R-CentHP	1.41	\$ 15,012	36%	32%	68%	#DIV/0!
	R-CFL	0.69	\$ (299)	89%	16%	84%	#DIV/0!
	R-DuctEff	5.12	\$ 222	111%	13%	87%	#DIV/0!
	R-Refrig	0.30	\$ (386)	79%	18%	82%	#DIV/0!
	R-SiteVisit	0.00	\$ (1,502)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	R-SisScrn	0.54	\$ (509)	47%	27%	73%	#DIV/0!
	R-WHPipeIns	1.44	\$ 7	88%	16%	84%	#DIV/0!
	R-WHTnlIns	0.89	\$ (2)	92%	16%	84%	#DIV/0!
	R-WinAC	0.07	\$ (225)	11%	60%	40%	#DIV/0!
	Portfolio Total	3.49	\$ 804,512	20%			

When't match bonus in  
step 4 because net  
benefits differ between  
CE test and bonus. For  
estimate only at the  
measure level