

# Board of Public Utilities

## Regular Meeting Agenda

Monday, January 25, 2016  
4:00 p.m., DPW Conference Room  
1199 8<sup>th</sup> Avenue



1. Call to Order
2. Roll Call
3. Approval of Agenda
4. Approval of Minutes for the Record
  - A. November 30, 2015 Regular Meeting Minutes
  - B. December 21, 2015 Special Meeting Minutes
5. Interested Citizens in the Audience Will be Heard on Items Not on the Agenda

### REPORTS

6. Cost of Energy from Indiana-Michigan Power Company (AEP)
  - A. 2015 Billings – All Charges
  - B. 2014 Billings – All Charges
7. Financial Reports
  - A. Electric Fund Project Status
  - B. Electric Fund – Financial Statement
  - C. Electric Fund – Cashflow Statement
  - D. Electric Fund – Review of Percentage Billed
  - E. Water Fund – Financial Statement
  - F. Water Fund – Cashflow Statement
  - G. Water Fund – Review of Percentage Billed
  - H. Sewer Fund – Financial Statement
  - I. Sewer Fund – Cashflow Statement
8. Quarterly Outage Report, Fourth Quarter 2015

NEW BUSINESS

**9. City Engineer Comments**

Board Members are invited to attend a joint workshop of the City Council, Casco Township Board, and South Haven Charter Township Board to discuss the sanitary sewer and wastewater treatment plant planning efforts and the proposed regional water/sewer authority. The meeting will be held on January 27, 2016 at 6:00 pm at Lake Michigan College, 125 Veterans Blvd, Room 141.

**10. Board Member Comments**

**11. Adjourn**

RESPECTFULLY SUBMITTED,

A handwritten signature in black ink, appearing to read "Larry Halberstadt". The signature is written in a cursive style with a large initial "L".

Larry Halberstadt, PE  
City Engineer

## Board of Public Utilities

### Regular Meeting Minutes

Monday, November 30, 2015  
4:00 p.m., DPW Conference Room  
1199 8<sup>th</sup> Avenue



#### 1. Call to Order by Stickland at 4:00 p.m.

#### 2. Roll Call

Present: Burr, Henry, Overhiser (ex-officio), Roberts, Rose (ex-officio) 4:29 p.m., Stein (ex-officio), Winkel, Stickland

Absent: None

#### 3. Approval of Agenda

Motion by Roberts, second by Burr to approve the November 30, 2015 Regular Meeting Agenda as presented.

All in favor. Motion carried.

#### 4. Approval of Minutes for the Record – October 26, 2015 Regular Meeting Minutes

Motion by Henry, second by Winkel to approve the October 26, 2015 Regular Meeting Minutes as written.

All in favor. Motion carried.

#### 5. Interested Citizens in the Audience Will be Heard on Items Not on the Agenda

None at this time.

### REPORTS

#### 6. Cost of Energy from Indiana-Michigan Power Company (AEP)

- A. 2015 Billings – All Charges
- B. 2014 Billings – All Charges

Discussion on PJM adjustments ensued. Halberstadt clarified that PJM is adjusted annually based on a demand reading and stays virtually the same throughout the year.

## **7. Financial Reports**

### **A. About Cashflow Statements**

Hochstedler explained the new document on Cashflow Statements; pointed out the statement on page fourteen (14) of the Agenda packet which she prepared for the auditors. This document assigns project names to purchases. Hochstedler noted a comment that was made at the last meeting regarding half a million dollars and noted that Core City accounts for where the money went.

Stickland said the question at the previous meeting was the difference in working capital as compared to previous years. Roberts said the chart on page thirteen (13) answers the question he had and thanked whoever did this as it makes many things much clearer. Discussion ensued regarding expenditures that were not anticipated in the same year which ended up being in the same year and a transformer was purchased later than expected and everything hit to be paid in 2015.

### **B. Review of Electric Fund Balance Sheet; FY 2012 through FY 2015**

#### **C. Electric Fund – Financial Statement**

#### **D. Electric Fund – Cashflow Statement**

#### **E. Electric Fund – Review of Percentage Billed**

Hochstedler pointed out on page twenty-one (21) in the Adopted Budget column and explained how she based these figures. There were various changes in the components that made up the electric sales amount; in that total was adjustment for PJM costs, over and above the five hundred thousand dollars (\$500,000) we are absorbing into the system. Hochstedler is taking out 1/12<sup>th</sup> of that five hundred thousand dollars (\$500,000) monthly because we are going to eat that in the current rates. Seven hundred forty-two thousand (\$742,000) is based on last year's twelve-month average recovery rate and there were other line items that needed to be adjusted down by three hundred thirty-eight thousand (\$338,000) so the overall net increase in revenues went up by four hundred three thousand dollars (\$403,000) and the purchased power, for last fiscal year was ten million thirty-thousand dollars (\$10,030,000), so she increased the budget by three hundred thousand dollars (\$300,000) to be sure we are in the same ball park. The last column then shows the net increase which will be added is one hundred three thousand dollars (\$103,000). Hochstedler said she understands the goal is to increase it by three hundred thousand dollars (\$300,000) per year to be used for capital expenditures. Hochstedler also noted one final adjustment to implement some kind of reporting requirement that has to do with net pension liability, which reduced the reserves to two million five-hundred fifty-five thousand (\$2,555,000). The projected for June 30, 2016 was based on that amended budget Hochstedler just spoke about; based on projections the reserves should be able to be increased by nine hundred fifty-one thousand dollars (\$951,000). The three million four hundred six thousand dollars (\$3,406,000) is versus where we were in June 2015. This is close to the one million dollar (\$1,000,000) increase so Hochstedler pointed that out that she does not believe there is a need for rate increases.

Burr said we are only doing one hundred sixty thousand dollars (\$160,000) on capital; if we want to spend the six hundred forty thousand dollars (\$640,000) with the depreciation level.

Hochstedler said she is going with what was in the budget because she doesn't have, on the radar, five to six hundred thousand dollars (\$500,000 to \$600,000) for capital.

Stickland said he thought the goal was one million dollars (\$1,000,000) if we did not have any capital projects. Discussion ensued regarding how to get to that figure. Burr said we still have to update the five (5) year plan and decide when we are doing the next phase of the core project.

Halberstadt updated the board that Phase Three (3) design is almost complete, and it is thought that the Phase 3 area is a bit larger than the Phase 1 and 2 areas, so he anticipates Phase 3 costing more than Phase 1 and 2, which were about one million dollars (\$1,000,000) each. Halberstadt will contact GRP and see how close they are to an estimate. Hochstedler said we will need those figures in budget, for next budget year, so we can start planning for the 2017 budget. Halberstadt noted that we have always planned not to do the core projects in the summer.

Discussion ensued regarding the estimates and actual for the core projects, which Halberstadt noted did not include tree trimming, engineering, etc. Hochstedler explained that the pension costs are now required to be reported. In the overall scheme of things those are the ones that actually report their liability on their balance sheets. The conclusion is that the number will change according to the market. Henry explained that Governmental Accounting Standards Board (GASB) has determined that real cost for pension must be included; it has not been reported in previous years. Cities and counties have received actuarial reports but never had to show it on their liability statements. Roberts noted this shows that it is funded.

Roberts questioned "customer deposits payable" and Hochstedler noted that we are requiring more deposits up front and when final bills are calculated, we apply some to their final bill and refund the rest. Burr explained that we have to give it back to the customer or to the state.

Burr asked about Retained Earnings; Hochstedler said that is a portion of that GASBY limitation. It looks like it was prior year expense that is included in that five hundred thirty-three thousand dollars (\$533,000) liability.

Discussion ensued about the market value adjustments; keep rates the same and pass on the entirety of the PJM to the customer.

Stickland requested that Hochstedler put together a review of the 5-year plan for the next meeting in January.

- F. Water Fund – Financial Statement**
- G. Water Fund – Cashflow Statement**
- H. Water Fund – Review of Percentage Billed**
- I. Sewer Fund – Financial Statement**
- J. Sewer Fund – Cashflow Statement**

Roberts asked about the sewer project and whether we are just marching on. Burr said we are looking at a bond two (2) years down the road. Hochstedler said we are talking about starting next fall on Monroe Boulevard and the Indian Grove lift station. Discussion ensued

about what is covered by reserves, which Halberstadt noted applies to things that are already under design. Halberstadt said the SAW grant is allowing them to do the design on all these projects, now that the design is done on some projects, the SRF is there and some traditional bonding.

Rose asked what is covered by the SAW grant which Halberstadt said is just design and the SRF provides funding for other aspects.

Burr requested an update at the end of January on the bonding.

## **8. Energy Optimization Update**

- A. 2016 Biennial Plan Filing
- B. MECA – Letter Agreement for Administrative Services

Halberstadt noted that the Jayco Appliance Recycling company that was doing everyone's appliance recycling recently filed Chapter 7 and disappeared.

Burr stated that he and Dissette met with a provider and hired them and we are in compliance with Michigan Public Service Commission (MPSC). Discussion ensued regarding an escape clause.

## NEW BUSINESS

### **9. Board will be requested to approve a modification to the Residential Equivalent Unit (REU) schedule used to calculate availability fees.**

Burr noted the large houses would have to pay .25 of an REU for every bedroom over four (4) and when a house is torn down and there is an existing service, there will also be a .25 of an REU for each bedroom over four (4). Discussion ensued about requiring more parking spaces for every bedroom above four (4).

Henry believes it is a good idea. Discussion ensued regarding how to count a bunkhouse. Stickland thought it was written up per toilet. Halberstadt does not want to add toilets to the REU schedule because it has never been in there. Henry said if this is the document that is going to drive the train, there needs to be specificity of what a bedroom is, or what a toilet is. Roberts suggested a fixture count, as opposed to toilets. Henry noted that there are people in the community who are upset, and do they have reason to be upset? Discussion ensued that the capacity has to be there to meet the peak. Halberstadt said it has always been up to the person to decide what size tap they need. But with these bigger structures they need to be considering a larger tap size.

Stein questioned page 117 of the REU document. Noted the McMansions will be sending more sewage down the pipes; Halberstadt agreed that will start determining lift station size, among other things. Discussion ensued about special assessments which Halberstadt noted was figured on the same REU schedule. Stickland asked about the house being built that exceeds the system, whether the owners/developers would have to pay the cost of the upgrade.

Henry said he thinks this is change in the REU schedule is a good idea but needs more specificity. Roberts suggested defining a sleeping area as accommodating two persons. Stein noted there will be various rooms that will not be defined as bedrooms. Halberstadt added, "Dens, offices, lounges." Discussion ensued regarding water usage and connection fees. What creates the demand that we need to use to design the system?

Burr stated that he would like to start with bedrooms. Halberstadt suggested starting with this, perhaps adding a definition of bedroom. Henry said if you think the people that are upset in our community and this will help alleviate that, then this should be refined and defined. Stickland said everyone agrees but how do you define it, make it simple, workable and fair. Winkel said somehow we need to do the infrastructure. Stein recommended going in with blinders open because you know you are going to get . . . Halberstadt interjected "creative architecture." Roberts said the REU is used to plan capacity.

Discussion ensued regarding the difference between Bed & Breakfasts and rental properties. Stickland explained why we have what we have. Burr said the Internal Revenue Service (IRS) lets you rent your house for twelve nights and then you have to declare the income for anything over that. Burr also noted that some of these people have gotten caught claiming homestead on second properties; the county is working on picking up the money.

Motion by Henry, second by Winkel approve a recommendation to City Council to amending the Residential Equivalent Unit (REU) schedule used to calculate availability fees for new water and sewer services based on the greater of the number of bedroom and/or bathroom in excess of four (4).

All in favor. Motion carried.

Winkel said somebody was talking about the building of a big house and asked who is going to pay for the upgrade of the sewer. Stickland said we do not have a policy that requires a resident to pay for upgrades. Stein mentioned whether the building code has to have sprinkling. Discussion ensued regarding what happens if two ten (10) bedroom houses come in and the sewer cannot handle it. Henry asked about a hotel and how they are assessed. Discussion ensued that it is 0.4 REU per room plus restaurant and bar per the schedule.

#### **10. Board will be requested to establish a schedule for Regular Meeting Dates for the 2016 Calendar Year.**

All are the last Monday except May 23, which was moved due to the Memorial Day holiday.

Motion by Winkel, second by Henry to accept the meeting calendar for the 2016 calendar year.

#### **11. City Engineer Comments**

There is no regular meeting scheduled for December. A special meeting may be called if requested.

Halberstadt gave an update on Huff's medical condition.

## **12. Board Member Comments**

Regarding taxes Henry said we are in Supreme Court; the petitioner had until mid-December and have asked for an extension. Then we wait to see if the Supreme Court will hear it.

## **13. Adjourn**

Motion by Burr, second by Roberts to adjourn at 5:50 p.m.

All in favor. Motion carried.

RESPECTFULLY SUBMITTED,

Marsha Ransom  
Recording Secretary

## Board of Public Utilities

### Special Meeting Minutes

Monday, December 21, 2015  
4:00 p.m., City Hall Council Chambers  
539 Phoenix Street



#### 1. Call to Order by Stickland at 4:00 p.m.

#### 2. Roll Call

Present: Burr (4:20), Henry, Stein (ex-officio), Winkel, Stickland

Absent: Overhiser (ex-officio), Roberts, Rose (ex-officio)

#### 3. Approval of Agenda

Motion by Winkel, second by Henry to approve the December 21, 2015 Special Meeting Agenda as presented.

All in favor. Motion carried.

#### 4. Interested Citizens in the Audience Will be Heard on Items Not on the Agenda

None at this time.

#### NEW BUSINESS

#### 7. Board will be requested to review conceptual plans for North Shore Drive improvements and approve the proposed on street parking plan.

Chris Cook, President, Abonmarche introduced the phases of the conceptual plans which will be presented and spoke about discussing the schedule for plan completion and taking stakeholder comments.

North Shore Drive, Monroe and Indian Grove lift station, the main lift station and Black River Street projects will be presented; will be funded through the State revolving loan fund. Culmination of a long-term plan we have been working on.

Also present from Abonmarche: Daniel Dombos, Project Engineer; Timothy Drews, P.E., PTOE, LEED AP, Vice President; Tony McGhee, Director of Development Services

Cook reviewed the Monroe Project, outlining the abandonment and replacement of water main, noting that questions can also be directed to Daniel Dombos from Abonmarche, Cook outlined planned storm sewer improvements and upgrades. Removal of all driveways in the project area is planned and all will be replaced with concrete whether they are originally asphalt, concrete or gravel. The force main from Indian Grove out to Monroe will be abandoned and there will be boring done through the creek area to alleviate a damming problem that exists at the creek. Plans regarding width of the street, the inclusion of a narrow bike lane and a full five foot (5') wide sidewalk was explained. Halberstadt added that the street will be striped with a double yellow center line, a white shoulder line with the bike trail between the sidewalk and shoulder line. Dombos pointed out the snaking of the sidewalk in some areas to accommodate large existing trees.

Cook indicated on the plans where the bore will be adding that some easements are set up with the property owners already. Halberstadt indicated pavement markings, crosswalks, center striping, edge line two feet (2') out for the bike lane, noting the double yellow is discouraging passing. Discussion ensued regarding the efficacy of striping to deter passing.

Cook explained about some difficult grades that exist in this area, and indicated that they have been consulting with the city's arborist regarding removal and replacement of trees. Utility poles that will need to be moved will be worked out with the electrical consultant. Halberstadt noted that electrical will be funded out of the electric fund, not out of the street fund.

There will be some drainage and grading issues that will be addressed with property owners. Halberstadt said any lots that are not served with sanitary sewers will be taken care of during this project. Discussion ensued after a question by Stickland regarding assessment of owners of vacant lots. Halberstadt noted that at the time a property adds a building the city would charge tap fees to cover that cost. After comment by Stickland, Halberstadt noted that the tap fee for new customers may not exactly equal a special assessment. Discussion ensued regarding the inequality of tap fees and special assessments and addressing that inequality.

Tim Drews, Abonmarche: Reviewed the North Shore project, noting the sanitary sewer has structural defects and infiltration; this is flat area which is way below minimum grade and noted that one goal will be to get a good portion of the sanitary sewer not at the same depth but at the right grade. One goal is to widen the street to allow parking on both sides, strategically. The arborist determined which trees need to be removed. The intent is to create a streetscape with trees of varied species to be determined by the arborist. Along with removing and replacing power poles due to the widening of the street the goal is to eliminate wires going across the road. Bump outs and appropriate parking spaces will be developed, and five foot (5') sidewalks added on both sides.

Discussion ensued regarding bicycle paths, sidewalks, crosswalks, yielding to a pedestrian in the crosswalk. Beach access sites will have the city's standard sign and some landscaping. In response to a question, it was acknowledged that this North Shore Drive project will be split into two phases. Existing curb, gutters and sidewalks are all coming out. Henry questioned the construction time line of Phase 1 to which. Cook responded with due dates to submit preliminary and final plans. The earliest any of this work will start is after Labor Day 2016. These projects are generally going to be off-season work. Halberstadt does not anticipate this project will occur in 2016/2017 because the repairs on Blue Star

Bridge will need this as a detour. Burr asked whether this will be 2017 and noted if so he will let the folks at the gas co know.

Black River Street and lift station. Parking and pavement will be addressed, per Chris Cook. Sewer line which runs along the river will be removed. Parking, the widening of the street, and reworking the plan to get the sewer main into the center of the street were discussed. Halberstadt noted this is a prime area for more parking. Cook indicated the main lift consolidation along with the balance of the project, retiring the crossing that now exists.

Discussion ensued regarding providing retention for overflow from big storms. Super high flows should be reduced through Abonmarche's whole program, but until we live with these projects for a few years we cannot be sure just how much reduction we will see. Work with the Department of Environmental Quality (DEQ) will be needed.

Cook explained the loans have solidified, supported and locked in. Abonmarche is also actively looking for some grants, particularly with road work. Cook noted the advantages of having disadvantaged status.

Discussion ensued regarding Dunkley, putting electric lines underground and working with the DEQ. The individual project costs as well as the estimated total were discussed. Cook noted that the next step for Abonmarche is to get the schedules charted, get bids for combining the packages and get into the details of the new main lift station.

**8. Board will be requested to review a modification of the Utility Policy permitting a 5 day grace period from the due date during which no late fees would be assessed.**

Amanda Morgan; City Clerk/Supervisor Customer Service: Explained the request for a five (5) day grace period. Quite often a majority of the customers are on Social Security or Disability and do not receive their money until the third of the month so with a due date of the twenty-ninth, are always late. Morgan noted the city is also strictly enforcing our utility policy; if you are late more than twice you have to pay a security deposit. Our hope is to get these customers off security deposits.

Stickland asked about the other due dates which Amanda explained that with all the other due dates, people already have their bill in hand when their checks arrive. Burr noted Albemarle is always late due to having to get the check from corporate.

Henry said this is administrative so he supports it.

Stickland said if this is avoiding problems he is for it.

In response to a question, Morgan said the bill is sent approximately twenty (20) days before it is due.

Motion by Henry, second by Burr to recommend that City Council adopt a resolution to update the Utility Policy to include a grace period for utility bill due dates.

All in favor. Motion carried.

**9. City Engineer Comments**

First Regular Meeting of 2016 is scheduled for January 25 at the DPW Building.

**10. Board Member Comments**

There were no comments

**11. Adjourn**

Motion by Winkel, second by Henry to adjourn at 5:35 p.m.

All in favor. Motion carried.

RESPECTFULLY SUBMITTED,

Marsha Ransom  
Recording Secretary

CITY OF SOUTH HAVEN																					
Cost of Electric Energy from Indiana-Michigan Power Company (AEP)																					
2015																					
Date	ACTUAL				BILLING			COST				PJM Open Access Transmission Tariff						Total Cost	cts/ KWH		
	KW Demand	KVAR Demand	KVA	Power Factor	KW Demand	KVAR Demand	KWHS	\$ KW Demand	\$ KWH	\$ Fuel Charge	\$ Fuel Adjust	Actual Fuel True-up	Sch 1A \$ KWHRS	\$ Network	RTO Start-up \$	Other	Credits			Total PJM	
Main	11,156	2,209	11,373	0.9810	11,156	2,209	6,860,829	\$198,542.89	\$77,665.96												
Welder	349	382	518	0.6741	349	382	159,204	\$6,209.37	\$1,802.23												
Phoenix	7,894	1,041	7,962	0.9914	7,894	1,041	4,570,729	\$140,489.07	\$51,741.57												
<b>Dec-15</b>	<b>19,399</b>	<b>3,633</b>	<b>19,736</b>	<b>0.9829</b>	<b>19,399</b>	<b>3,633</b>	<b>11,590,763</b>	<b>\$345,241.33</b>	<b>\$131,209.75</b>	<b>\$171,163.10</b>	<b>(\$8,297.83)</b>	<b>\$11,919.42</b>	<b>\$1,137.47</b>	<b>\$70,352.03</b>	<b>\$164.28</b>	<b>\$12,752.68</b>	<b>(\$623.03)</b>	<b>\$83,783.43</b>	<b>\$735,019.20</b>	<b>6.341</b>	
Main	11,068	2,425	11,331	0.9768	11,068	2,425	6,293,125	\$196,977.28	\$71,239.43												
Welder	181	286	339	0.5351	181	286	132,027	\$3,224.82	\$1,494.57												
Phoenix	7,300	1,514	7,455	0.9792	7,300	1,514	4,259,114	\$129,912.85	\$48,214.03												
<b>Nov-15</b>	<b>18,549</b>	<b>4,225</b>	<b>19,024</b>	<b>0.9750</b>	<b>18,549</b>	<b>4,225</b>	<b>10,684,266</b>	<b>\$330,114.95</b>	<b>\$120,948.03</b>	<b>\$157,776.69</b>	<b>(\$25,887.98)</b>	<b>(\$90,836.20)</b>	<b>\$1,048.51</b>	<b>\$68,082.61</b>	<b>\$158.98</b>	<b>\$12,668.23</b>	<b>(\$612.76)</b>	<b>\$81,345.57</b>	<b>\$573,461.06</b>	<b>5.367</b>	
Main	10,620	2,347	10,876	0.9764	10,620	2,347	6,545,989	\$189,003.52	\$74,101.90												
Welder	178	85	197	0.9024	178	85	164,183	\$3,160.75	\$1,858.58												
Phoenix	7,555	1,683	7,740	0.9761	7,554	1,683	4,478,667	\$134,446.81	\$50,699.41												
<b>Oct-15</b>	<b>18,352</b>	<b>4,115</b>	<b>18,808</b>	<b>0.9758</b>	<b>18,352</b>	<b>4,115</b>	<b>11,188,839</b>	<b>\$326,611.08</b>	<b>\$126,659.89</b>	<b>\$165,227.82</b>	<b>\$70.49</b>	<b>(\$40,328.39)</b>	<b>\$1,098.03</b>	<b>\$70,352.03</b>	<b>\$164.28</b>	<b>\$13,846.37</b>	<b>(\$632.33)</b>	<b>\$84,828.38</b>	<b>\$663,069.27</b>	<b>5.926</b>	
Main	16,160	5,527	17,079	0.9462	16,160	5,527	7,094,090	\$287,599.52	\$80,306.52												
Welder	331	255	418	0.7914	331	255	145,444	\$5,881.91	\$1,646.46												
Phoenix	12,043	4,319	12,794	0.9413	12,043	4,319	5,202,369	\$214,336.39	\$58,891.85												
<b>Sep-15</b>	<b>28,534</b>	<b>10,101</b>	<b>30,269</b>	<b>0.9427</b>	<b>28,534</b>	<b>10,101</b>	<b>12,441,903</b>	<b>\$507,817.82</b>	<b>\$140,844.83</b>	<b>\$183,732.07</b>	<b>\$80,689.47</b>	<b>\$107,943.97</b>	<b>\$1,221.00</b>	<b>\$68,082.61</b>	<b>\$158.98</b>	<b>\$13,966.53</b>	<b>(\$648.11)</b>	<b>\$82,781.01</b>	<b>\$1,103,809.17</b>	<b>8.872</b>	
Main	17,342	5,937	18,330	0.9461	17,342	5,937	8,238,251	\$308,635.57	\$93,258.65												
Welder	318	242	400	0.7958	318	242	137,863	\$5,663.01	\$1,560.64												
Phoenix	12,746	4,697	13,583	0.9383	12,746	4,697	5,963,548	\$226,831.66	\$67,508.56												
<b>Aug-15</b>	<b>30,406</b>	<b>10,876</b>	<b>32,292</b>	<b>0.9416</b>	<b>30,406</b>	<b>10,876</b>	<b>14,339,662</b>	<b>\$541,130.24</b>	<b>\$162,327.85</b>	<b>\$211,756.66</b>	<b>\$60,418.73</b>	<b>(\$1,064.60)</b>	<b>\$1,407.24</b>	<b>\$70,352.03</b>	<b>\$164.28</b>	<b>\$13,955.91</b>	<b>(\$809.79)</b>	<b>\$85,069.67</b>	<b>\$1,059,638.55</b>	<b>7.390</b>	
Main	17,582	5,888	18,542	0.9482	17,582	5,888	8,397,922	\$312,906.41	\$95,066.15												
Welder	417	345	541	0.7700	417	345	163,144	\$7,414.23	\$1,846.82												
Phoenix	12,979	4,722	13,812	0.9397	12,979	4,722	6,116,077	\$230,992.16	\$69,235.21												
<b>Jul-15</b>	<b>30,978</b>	<b>10,955</b>	<b>32,858</b>	<b>0.9428</b>	<b>30,978</b>	<b>10,955</b>	<b>14,677,143</b>	<b>\$551,312.80</b>	<b>\$166,148.19</b>	<b>\$216,740.31</b>	<b>\$7,241.70</b>	<b>\$17,316.18</b>	<b>\$1,440.36</b>	<b>\$70,352.03</b>	<b>\$164.28</b>	<b>\$12,941.71</b>	<b>(\$862.12)</b>	<b>\$84,036.26</b>	<b>\$1,042,795.44</b>	<b>7.105</b>	
Main	13,385	3,245	13,773	0.9718	13,385	3,245	6,937,553	\$238,212.76	\$78,534.49												
Welder	357	279	453	0.7885	357	279	160,005	\$6,353.53	\$1,811.29												
Phoenix	10,017	2,509	10,326	0.9700	10,017	2,509	5,043,423	\$178,268.90	\$57,092.55												
<b>Jun-15</b>	<b>23,759</b>	<b>6,033</b>	<b>24,513</b>	<b>0.9692</b>	<b>23,759</b>	<b>6,033</b>	<b>12,140,981</b>	<b>\$422,835.19</b>	<b>\$137,438.33</b>	<b>\$179,288.29</b>	<b>\$72,219.41</b>	<b>\$52,206.29</b>	<b>\$1,590.72</b>	<b>\$61,771.70</b>	<b>\$158.98</b>	<b>\$11,074.79</b>	<b>(\$566.12)</b>	<b>\$74,030.07</b>	<b>\$938,017.58</b>	<b>7.726</b>	
Main	12,069	2,877	12,407	0.9727	12,069	2,877	6,509,754	\$195,952.20	\$69,324.33												
Welder	352	256	435	0.8087	352	256	157,517	\$5,713.45	\$1,677.45												
Phoenix	9,449	2,710	9,829	0.9613	9,449	2,710	4,695,229	\$153,407.39	\$50,000.91												
<b>May-15</b>	<b>21,870</b>	<b>5,843</b>	<b>22,636</b>	<b>0.9661</b>	<b>21,869</b>	<b>5,843</b>	<b>11,362,501</b>	<b>\$355,073.04</b>	<b>\$121,002.68</b>	<b>\$202,133.20</b>	<b>(\$26,051.94)</b>	<b>\$190,579.23</b>	<b>\$1,488.72</b>	<b>\$63,830.75</b>	<b>\$164.28</b>	<b>\$10,490.61</b>	<b>(\$563.53)</b>	<b>\$75,410.83</b>	<b>\$918,147.04</b>	<b>8.081</b>	
Main	10,537	1,286	10,615	0.9926	10,537	1,286	6,040,137	\$171,083.21	\$64,323.23												
Welder	390	310	498	0.7831	390	310	195,761	\$6,336.10	\$2,084.71												
Phoenix	7,096	851	7,147	0.9929	7,096	851	4,174,049	\$115,215.53	\$44,450.69												
<b>Apr-15</b>	<b>18,023</b>	<b>2,446</b>	<b>18,189</b>	<b>0.9909</b>	<b>18,024</b>	<b>2,446</b>	<b>10,409,946</b>	<b>\$292,634.84</b>	<b>\$110,858.64</b>	<b>\$185,187.73</b>	<b>(\$1,746.79)</b>	<b>\$69,775.22</b>	<b>\$1,363.92</b>	<b>\$61,771.70</b>	<b>\$158.98</b>	<b>\$10,490.59</b>	<b>(\$618.08)</b>	<b>\$73,167.11</b>	<b>\$729,876.75</b>	<b>7.011</b>	
Main	11,515	1,311	11,589	0.9936	11,515	1,311	6,754,204	\$186,957.70	\$71,927.55												
Welder	332	28	333	0.9965	332	28	206,604	\$5,390.35	\$2,200.19												
Phoenix	8,000	1,092	8,074	0.9908	8,000	1,092	4,651,132	\$129,883.29	\$49,531.29												
<b>Mar-15</b>	<b>19,847</b>	<b>2,430</b>	<b>19,995</b>	<b>0.9926</b>	<b>19,847</b>	<b>2,430</b>	<b>11,611,940</b>	<b>\$322,231.35</b>	<b>\$123,659.03</b>	<b>\$206,570.61</b>	<b>(\$8,109.78)</b>	<b>(\$5,469.59)</b>	<b>\$1,521.40</b>	<b>\$63,830.75</b>	<b>\$164.28</b>	<b>\$10,490.61</b>	<b>(\$872.04)</b>	<b>\$75,135.00</b>	<b>\$714,016.62</b>	<b>6.149</b>	
Main	12,184	1,570	12,285	0.9918	12,178	1,570	7,974,908	\$197,728.02	\$84,927.19												
Welder	408	367	548	0.7432	408	367	175,313	\$6,616.17	\$1,866.96												
Phoenix	8,257	1,195	8,343	0.9897	8,253	1,195	3,492,559	\$133,997.33	\$37,193.31												
<b>Feb-15</b>	<b>20,849</b>	<b>3,132</b>	<b>21,083</b>	<b>0.9889</b>	<b>20,839</b>	<b>3,132</b>	<b>11,642,780</b>	<b>\$338,341.52</b>	<b>\$123,987.46</b>	<b>\$207,119.25</b>	<b>(\$51,728.87)</b>	<b>(\$41,147.55)</b>	<b>\$1,525.44</b>	<b>\$57,653.58</b>	<b>\$148.38</b>	<b>\$10,490.61</b>	<b>(\$1,135.22)</b>	<b>\$68,682.79</b>	<b>\$645,254.60</b>	<b>5.542</b>	
Main	12,325	1,739	12,447	0.9902	12,325	1,739	7,443,979	\$200,108.62	\$79,273.16												
Welder	331	309	453	0.7313	331	309	160,777	\$5,374.12	\$1,712.17												
Phoenix	8,581	1,288	8,677	0.9889	8,581	1,288	5,041,513	\$139,316.16	\$53,688.58												
<b>Jan-15</b>	<b>21,237</b>	<b>3,336</b>	<b>21,497</b>	<b>0.9879</b>	<b>21,237</b>	<b>3,336</b>	<b>12,646,269</b>	<b>\$344,798.90</b>	<b>\$134,673.91</b>	<b>\$224,970.80</b>	<b>\$16,637.43</b>	<b>\$100,270.82</b>	<b>\$1,656.92</b>	<b>\$63,830.75</b>	<b>\$164.28</b>	<b>\$10,490.61</b>	<b>(\$994.22)</b>	<b>\$75,148.34</b>	<b>\$896,500.20</b>	<b>7.089</b>	

Year to Date 2015:

144,736,992

\$10,019,605 6.923

CITY OF SOUTH HAVEN																					
Cost of Electric Energy from Indiana-Michigan Power Company (AEP)																					
2014																					
Date	ACTUAL				BILLING			COST					PJM Open Access Transmission Tariff					Total Cost	cts/ KWH		
	KW Demand	KVAR Demand	KVA	Power Factor	KW Demand	KVAR Demand	KWHRS	\$ KW Demand	\$ KWH	\$ Fuel Charge	\$ Fuel Adjust	Actual Fuel True-up	Sch 1A \$ KWHRS	\$ Network	RTO Start-up \$	Other	Credits			Total PJM	
Main	11,432	1,646	11,550	0.9898	11,432	1,646	7,085,827	\$185,609.79	\$75,459.10												
Welder	333	269	428	0.7774	333	269	153,577	\$5,398.47	\$1,635.48												
Phoenix	8,053	1,020	8,117	0.9921	8,053	1,020	4,768,206	\$130,748.35	\$50,778.06												
Welder	0	0	0		0	0	0	\$0.00	\$0.00												
<b>Dec-14</b>	<b>19,818</b>	<b>2,935</b>	<b>20,034</b>	<b>0.9892</b>	<b>19,817</b>	<b>2,935</b>	<b>12,007,610</b>	<b>\$321,756.61</b>	<b>\$127,872.64</b>	<b>\$213,609.38</b>	<b>\$7,797.74</b>	<b>\$60,535.03</b>	<b>\$1,573.24</b>	<b>\$108,790.08</b>	<b>\$299.21</b>	<b>\$15,805.37</b>	<b>(\$1,585.52)</b>	<b>\$124,882.38</b>	<b>\$856,453.78</b>	<b>7.133</b>	
Main	12,007	1,673	12,123	0.9904	12,003	1,673	6,729,178	\$194,883.96	\$71,661.03												
Welder	352	355	500	0.7036	352	355	123,903	\$5,706.95	\$1,319.48												
Phoenix	7,901	939	7,957	0.9930	7,899	939	4,543,741	\$128,253.03	\$48,387.66												
Welder	6	7	9	0.6658	6	7	4,150	\$94.17	\$44.19												
<b>Nov-14</b>	<b>20,266</b>	<b>2,973</b>	<b>20,483</b>	<b>0.9894</b>	<b>20,260</b>	<b>2,973</b>	<b>11,400,971</b>	<b>\$328,938.11</b>	<b>\$121,412.36</b>	<b>\$202,817.57</b>	<b>(\$65,271.70)</b>	<b>(\$1,364.06)</b>	<b>\$1,493.76</b>	<b>\$105,280.72</b>	<b>\$289.56</b>	<b>\$16,026.12</b>	<b>(\$1,439.90)</b>	<b>\$121,650.26</b>	<b>\$708,182.54</b>	<b>6.212</b>	
Main	18,379	4,189	18,500	0.9750	18,369	4,189	9,061,510	\$298,233.08	\$96,498.74												
Welder	309	284	420	0.7354	309	284	142,496	\$5,010.43	\$1,517.48												
Phoenix	10	24	25	0.3782	5	24	2,118,777	\$74.69	\$22,563.49												
Welder	6	7	9	0.6658	6	7	4,282	\$94.17	\$45.60												
<b>Oct-14</b>	<b>18,703</b>	<b>4,503</b>	<b>19,238</b>	<b>0.9722</b>	<b>18,688</b>	<b>4,503</b>	<b>11,327,065</b>	<b>\$303,412.36</b>	<b>\$120,625.31</b>	<b>\$201,502.82</b>	<b>(\$33,179.24)</b>	<b>\$16,236.53</b>	<b>\$1,484.08</b>	<b>\$108,790.08</b>	<b>\$299.21</b>	<b>\$17,152.73</b>	<b>(\$1,357.26)</b>	<b>\$126,368.84</b>	<b>\$734,966.62</b>	<b>6.489</b>	
Main	16,115	5,015	16,877	0.9548	16,112	5,015	8,006,033	\$261,594.43	\$85,258.65												
Welder	265	254	367	0.7230	265	254	131,837	\$4,307.41	\$1,403.97												
Phoenix	11,860	4,871	12,821	0.9250	11,857	4,871	3,682,892	\$192,514.47	\$39,220.22												
Welder	6	7	9	0.6658	6	7	4,144	\$94.17	\$44.13												
<b>Sep-14</b>	<b>28,246</b>	<b>10,146</b>	<b>30,013</b>	<b>0.9411</b>	<b>28,240</b>	<b>10,146</b>	<b>11,824,906</b>	<b>\$458,510.48</b>	<b>\$125,926.97</b>	<b>\$210,359.17</b>	<b>(\$46,334.71)</b>	<b>\$11,060.21</b>	<b>\$1,549.30</b>	<b>\$105,280.72</b>	<b>\$289.56</b>	<b>\$17,328.13</b>	<b>(\$1,342.88)</b>	<b>\$123,104.83</b>	<b>\$882,626.95</b>	<b>7.464</b>	
Main	17,344	5,375	18,158	0.9552	17,344	5,375	8,324,249	\$281,597.27	\$88,647.42												
Welder	358	342	495	0.7237	358	342	116,920	\$5,814.11	\$1,245.12												
Phoenix	12,794	5,443	13,903	0.9202	12,794	5,443	6,038,441	\$207,716.97	\$64,305.17												
Welder	8	17	19	0.4368	8	17	6,431	\$136.33	\$68.49												
<b>Aug-14</b>	<b>30,504</b>	<b>11,177</b>	<b>32,487</b>	<b>0.9390</b>	<b>30,504</b>	<b>11,177</b>	<b>14,486,040</b>	<b>\$495,264.73</b>	<b>\$154,266.19</b>	<b>\$257,699.41</b>	<b>(\$38,669.04)</b>	<b>\$30,716.83</b>	<b>\$1,897.97</b>	<b>\$108,790.05</b>	<b>\$299.21</b>	<b>\$16,772.20</b>	<b>(\$1,567.24)</b>	<b>\$126,192.19</b>	<b>\$1,025,470.31</b>	<b>7.079</b>	
Main	16,930	5,025	17,660	0.9587	16,930	5,025	7,907,886	\$274,875.40	\$84,213.45												
Welder	251	125	280	0.8945	251	125	130,862	\$4,070.37	\$1,393.59												
Phoenix	12,527	4,460	13,298	0.9421	12,527	4,460	5,672,349	\$203,391.54	\$60,406.54												
Welder	8	18	20	0.4307	8	18	6,555	\$136.38	\$69.80												
<b>Jul-14</b>	<b>29,716</b>	<b>9,628</b>	<b>31,237</b>	<b>0.9513</b>	<b>29,716</b>	<b>9,628</b>	<b>13,717,651</b>	<b>\$482,473.68</b>	<b>\$146,083.38</b>	<b>\$244,030.16</b>	<b>(\$44,811.45)</b>	<b>\$27,682.40</b>	<b>\$1,797.29</b>	<b>\$108,790.05</b>	<b>\$299.21</b>	<b>\$16,658.83</b>	<b>(\$1,607.15)</b>	<b>\$125,938.23</b>	<b>\$981,396.40</b>	<b>7.154</b>	
Main	16,223	4,553	16,850	0.9628	16,223	4,553	7,323,514	\$263,396.55	\$77,990.30												
Welder	10	22	24	0.4238	10	22	131,334	\$165.61	\$1,398.61												
Phoenix	12,192	4,498	12,996	0.9382	12,192	4,498	5,285,671	\$197,955.73	\$56,288.70												
Welder	8	19	20	0.4134	8	19	6,421	\$136.38	\$68.38												
<b>Jun-14</b>	<b>28,434</b>	<b>9,092</b>	<b>29,852</b>	<b>0.9525</b>	<b>28,434</b>	<b>9,092</b>	<b>12,746,939</b>	<b>\$461,654.26</b>	<b>\$135,745.98</b>	<b>\$226,761.68</b>	<b>(\$44,703.52)</b>	<b>\$23,664.10</b>	<b>\$1,092.76</b>	<b>\$89,707.48</b>	<b>\$289.56</b>	<b>\$13,460.59</b>	<b>(\$1,301.93)</b>	<b>\$103,248.46</b>	<b>\$906,370.96</b>	<b>7.110</b>	
Main	12,148	2,693	12,443	0.9763	12,148	2,693	6,470,207	\$199,737.00	\$62,245.98												
Welder	242	210	321	0.7548	242	210	137,320	\$3,980.61	\$1,321.07												
Phoenix	9,104	2,965	9,575	0.9508	9,104	2,965	4,589,361	\$149,685.91	\$44,151.48												
Welder	9	25	27	0.3318	9	25	6,845	\$146.33	\$65.85												
<b>May-14</b>	<b>21,503</b>	<b>5,894</b>	<b>22,296</b>	<b>0.9644</b>	<b>21,503</b>	<b>5,894</b>	<b>11,203,733</b>	<b>\$353,549.86</b>	<b>\$107,784.39</b>	<b>\$168,627.37</b>	<b>(\$13,600.21)</b>	<b>\$16,585.82</b>	<b>\$960.46</b>	<b>\$92,697.73</b>	<b>\$299.21</b>	<b>\$11,967.29</b>	<b>(\$1,309.38)</b>	<b>\$104,615.31</b>	<b>\$737,562.54</b>	<b>6.583</b>	
Main	11,035	2,280	11,268	0.9793	11,035	2,280	6,200,288	\$181,437.72	\$59,649.25												
Welder	275	340	437	0.6288	275	340	140,285	\$4,518.26	\$1,349.59												
Phoenix	7,223	155	7,225	0.9998	7,223	155	4,026,846	\$118,767.39	\$38,739.87												
Welder	9	23	25	0.3693	9	23	6,598	\$149.62	\$63.48												
<b>Apr-14</b>	<b>18,542</b>	<b>2,798</b>	<b>18,752</b>	<b>0.9888</b>	<b>18,542</b>	<b>2,798</b>	<b>10,374,017</b>	<b>\$304,872.99</b>	<b>\$99,802.19</b>	<b>\$156,139.32</b>	<b>(\$11,636.53)</b>	<b>(\$12,558.64)</b>	<b>\$889.33</b>	<b>\$89,707.48</b>	<b>\$289.56</b>	<b>\$11,967.29</b>	<b>(\$1,364.68)</b>	<b>\$101,488.98</b>	<b>\$638,108.31</b>	<b>6.151</b>	
Main	11,756	1,283	11,826	0.9941	11,756	1,283	6,923,540	\$193,291.82	\$66,607.22												
Welder	242	304	388	0.6216	242	304	140,739	\$3,970.74	\$1,353.96												
Phoenix	7,975	1,170	8,060	0.9894	7,975	1,170	4,701,765	\$131,124.62	\$45,232.86												
Welder	9	26	27	0.3239	9	26	6,989	\$146.33	\$67.24												
<b>Mar-14</b>	<b>19,981</b>	<b>2,784</b>	<b>20,174</b>	<b>0.9904</b>	<b>19,981</b>	<b>2,784</b>	<b>11,773,033</b>	<b>\$328,533.52</b>	<b>\$113,261.29</b>	<b>\$177,195.92</b>	<b>(\$10,877.11)</b>	<b>(\$44,950.65)</b>	<b>\$1,009.27</b>	<b>\$92,697.73</b>	<b>\$299.21</b>	<b>\$11,967.29</b>	<b>(\$1,935.73)</b>	<b>\$104,037.77</b>	<b>\$667,200.74</b>	<b>5.667</b>	
Main	11,651	1,530	11,751	0.9915	11,651	1,530	6,719,607	\$191,565.41	\$64,645.31												
Welder	371	312	485	0.7652	371	312	141,182	\$6,098.34	\$1,358.23												
Phoenix	8,190	1,078	8,261	0.9915	8,190	1,078	4,543,059	\$134,666.23	\$43,706.04												
Welder	9	22	24	0.3867	9	22	6,223	\$149.62	\$59.87												
<b>Feb-14</b>	<b>20,221</b>	<b>2,941</b>	<b>20,434</b>	<b>0.9896</b>	<b>20,221</b>	<b>2,941</b>	<b>11,410,071</b>	<b>\$332,479.60</b>	<b>\$109,769.45</b>	<b>\$171,732.98</b>	<b>\$19,759.96</b>	<b>(\$46,438.54)</b>	<b>\$978.15</b>	<b>\$83,726.98</b>	<b>\$270.26</b>	<b>\$11,967.30</b>	<b>(\$1,743.34)</b>	<b>\$95,199.35</b>	<b>\$682,502.80</b>	<b>5.982</b>	
Main	12,263	1,559	12,362	0.9920	12,263	1,559	7,522,565	\$201,628.25	\$72,370.09												
Welder	333	300	448	0.7431	333	300	81,682	\$5,48													

01/14/2016

ELECTRIC FUND CAPITAL PROJECTS STATUS  
PERIOD ENDING 12/31/2015

GL NUMBER	DESCRIPTION	YTD BALANCE 12/31/2015	2015-16 ORIGINAL BUDGET	2015-16 PROPOSED AMENDED BUDGET	
Fund 582 - ELECTRIC FUND					
582-558-977-000	TRENCHER & ACCESSORIES	18,936.10	16,000.00	19,000.00	DONE
582-558-979-000	STORAGE BINS	0.00	3,000.00	3,000.00	
582-558-980-000	COPIER	1,397.50	0.00	1,400.00	DONE
582-558-988-000-0175	CORE CITY SECONDARY	30,618.22	0.00		NEED EST ON COST FOR ENG
582-558-988-000-0304	VETERANS BLVD	100,575.54	0.00	101,000.00	DONE
582-558-988-000-0305	LOVEJOY ST ELECTRIC	48,222.95	0.00	49,000.00	DONE
582-558-988-000-0308	14TH AVE ELECTRIC	0.00	60,000.00	60,000.00	
582-558-988-000-0309	ST JOSEPH ST ELECTRIC	1,500.00	0.00	1,500.00	DONE
582-558-988-000-0310	KAZOO ST ELECTRIC	0.00	56,250.00	56,250.00	
582-558-988-000-0312	CAPACITOR BANKS #2	0.00	25,000.00	25,000.00	
		201,250.31	160,250.00	316,150.00	

City of South Haven  
Electric Fund - Fund 582  
For the period ended December 31, 2015

Col 6 & 11

Revenues:	Month Actual	Monthly Budget	Prior year MTD	MTD Variance to Budget	MTD Variance to Prior Year	YTD Actual	YTD Budget	Prior YTD Actual	Variance to Budget	Variance to Prior Year	2015-16 Adopted Budget	% of Annual Budget
Electric Sales	\$ 1,000,084	\$ 1,229,276	\$ 1,033,035	\$ (229,192)	\$ (32,951)	\$ 7,033,377	\$ 7,375,654	\$ 6,172,304	\$ (342,277)	\$ 861,073	\$ 14,751,307	48%
Charges for Service	\$ 4,745	\$ 12,500	\$ 4,521	\$ (7,755)	\$ 224	\$ 73,110	\$ 75,000	\$ 50,456	\$ (1,890)	\$ 22,654	\$ 150,000	49%
Interest Income	\$ 4,847	\$ 2,500	\$ 13,174	\$ 2,347	\$ (8,327)	\$ 21,401	\$ 15,000	\$ 37,798	\$ 6,401	\$ (16,397)	\$ 30,000	71%
Other Revenue	\$ 2,000	\$ 3,333	\$ (1,401)	\$ (1,334)	\$ 3,401	\$ 19,379	\$ 20,000	\$ 14,659	\$ (621)	\$ 4,720	\$ 40,000	48%
Transfers In	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
<b>Total Revenues</b>	<b>\$ 1,011,676</b>	<b>\$ 1,247,609</b>	<b>\$ 1,049,329</b>	<b>\$ (235,933)</b>	<b>\$ (37,654)</b>	<b>\$ 7,147,267</b>	<b>\$ 7,485,654</b>	<b>\$ 6,275,216</b>	<b>\$ (338,386)</b>	<b>\$ 872,051</b>	<b>\$ 14,971,307</b>	

Expenses	Month Actual	Monthly Budget	Prior year MTD	MTD Variance to Budget	MTD Variance to Prior Year	YTD Actual	YTD Budget	Prior YTD Actual	Variance to Budget	Variance to Prior Year	2015-16 Adopted Budget	% of Annual Budget
Purchased Power	\$ 735,019	\$ 833,333	\$ 856,454	\$ (98,314)	\$ (121,435)	\$ 5,177,793	\$ 5,000,000	\$ 5,189,057	\$ 177,793	\$ (11,264)	\$ 10,000,000	52%
Other Operating Expenses	\$ 173,477	\$ 153,285	\$ 221,473	\$ 20,192	\$ (47,996)	\$ 934,801	\$ 919,709	\$ 917,744	\$ 15,093	\$ 17,058	\$ 1,839,417	51%
Property Tax Equivalents	\$ 60,700	\$ 60,700	\$ 59,557	\$ 0	\$ 1,143	\$ 364,200	\$ 364,200	\$ 357,343	\$ 0	\$ 6,857	\$ 728,399	50%
Energy Optimization Costs	\$ 22,945	\$ 23,467	\$ 23,141	\$ (521)	\$ (196)	\$ 114,476	\$ 140,800	\$ 138,273	\$ (26,324)	\$ (23,797)	\$ 281,600	41%
Capital Outlay	\$ 119,816	\$ 26,346	\$ 319,849	\$ 93,471	\$ (200,033)	\$ 200,967	\$ 158,075	\$ 2,263,074	\$ 42,892	\$ (2,062,107)	\$ 316,150	64%
Transfer Out	\$ 14,066	\$ 14,066	\$ 14,025	\$ -	\$ 41	\$ 84,395	\$ 84,395	\$ 84,150	\$ -	\$ 244	\$ 168,789	50%
Depreciation	\$ 55,917	\$ 55,917	\$ 39,510	\$ -	\$ 16,406	\$ 335,500	\$ 335,500	\$ 237,062	\$ -	\$ 98,438	\$ 671,000	50%
Administrative Expenses	\$ 55,317	\$ 65,110	\$ 54,298	\$ (9,794)	\$ 1,019	\$ 401,861	\$ 390,663	\$ 393,488	\$ 11,199	\$ 8,373	\$ 781,325	51%
<b>Total Expenses</b>	<b>\$ 1,237,257</b>	<b>\$ 1,232,223</b>	<b>\$ 1,588,308</b>	<b>\$ 5,033</b>	<b>\$ (351,051)</b>	<b>\$ 7,613,993</b>	<b>\$ 7,393,340</b>	<b>\$ 9,580,191</b>	<b>\$ 220,653</b>	<b>\$ (1,966,198)</b>	<b>\$ 14,786,680</b>	

Net Fund Change                    \$ (225,581)    \$ 15,386    \$ (538,978)    \$ (240,966)    \$ 313,397    \$ (466,725)    \$ 92,314    \$ (3,304,974)    \$ (559,039)    \$ 2,838,249    \$ 184,627

**AS OF JUNE 30, 2015**

Retained Earnings	\$ 16,823,115
Less Net Capital Assets	\$ (14,267,710)
Net Undesignated Reserves	\$ 2,555,405

**Breakdown:**

Cash/Investments	\$ 2,373,971
Current Assets	\$ 2,478,330
Current Liabilities	\$ (2,296,896)
<b>Net Working Capital</b>	<b>\$ 2,555,405</b>

**AS OF CURRENT MONTH END**

Retained Earnings-FYE	\$ 16,823,115
Less Net Capital Assets	\$ (14,267,710)
Net Undesignated Reserves	\$ 2,555,405
Net Income Per Income Statement Revenue > Expenses	\$ (466,725)
Add back Non-cash Depreciation Expense	\$ 335,500
	\$ 2,424,179

**Breakdown:**

Cash/Investments	\$ 2,373,526
Current Assets	\$ 1,784,960
Current Liabilities	\$ (1,734,307)
<b>Net Working Capital</b>	<b>\$ 2,424,179</b>

**PROJECTED BALANCE AT JUNE 30, 2016**      Based on AMENDED Annual Budget

Beginning Retained Earnings-July 1, 2015	\$ 16,823,115
Less Projected Net Capital Assets	\$ (13,912,860)
Net Income Per Income Statement Revenue > Expenses	\$ 184,627
	\$ 3,094,882

**Net Working Capital**    \$ 3,094,882    Projected thru 6/30/16

The Net Working Capital is shown here for June 30, 2015, Current Month Ended, and Projected at June 30, 2016. The amounts represent what is left over after all of the short-term obligations have been met and represents the relatively liquid portion of the Utility's retained earnings or reserves that can be used for future expenditures.

**ELECTRIC FUND**  
**STATEMENT OF CASHFLOWS**  
**FOR THE MONTH ENDED DECEMBER 31, 2015**

	Month Activity	Year-to-Date
<b>Cash flows from operating activities:</b>		
Receipts from customers & users	1,109,609.45	7,709,452.60
Payments to and on behalf of employees	(125,140.93)	(753,527.19)
Payments to suppliers - AEP	(573,461.06)	(5,380,791.25)
Payments to suppliers - other	(131,415.07)	(1,020,529.24)
<b>Net cash provided by (used in) operating activities</b>	<b>279,592.39</b>	<b>554,604.92</b>
<b>Cash flows from non-capital financing activities:</b>		
Due to other funds	-	-
Property tax equivalents	(60,699.92)	(364,199.52)
Transfers out	(14,065.75)	(84,394.50)
<b>Net cash provided by (used in) non-capital financing activities</b>	<b>(74,765.67)</b>	<b>(448,594.02)</b>
<b>Cash flows from capital and related financing activities:</b>		
Proceeds from sale of capital assets	-	-
Interest Expense	-	-
Contribution in aid of construction	4,745.00	73,109.98
Principal paid on bonds and notes	-	-
Acquisitions of capital assets	(119,816.48)	(200,967.06)
<b>Net cash provided by (used in) capital and related financing activities</b>	<b>(115,071.48)</b>	<b>(127,857.08)</b>
<b>Cash flows from investing activities</b>		
Interest income	4,847.47	21,400.89
<b>Net cash provided by (used in) investing activities</b>	<b>4,847.47</b>	<b>21,400.89</b>
<b>Net increase (decrease) in cash &amp; pooled investments</b>	<b>94,602.71</b>	<b>(445.29)</b>
<b>Cash and pooled investments, beginning of period</b>	<b>2,278,923.01</b>	<b>2,373,971.01</b>
<b>Cash and pooled investments, end of period</b>	<b>2,373,525.72</b>	<b>2,373,525.72</b>
<b>Cash flows from operating activities:</b>		
Operating income (loss)	(160,407.63)	(112,642.31)
<b>Adjustments to reconcile operating income (loss) to net cash provided by (used in) operating activities:</b>		
Depreciation	55,916.67	335,500.02
Change in operating assets and liabilities which provided (used) cash		
Receivables	104,341.96	674,809.03
Due from other governmental units	-	-
Prepaid expenses	-	18,560.18
Capital assets	119,816.48	200,967.06
Accounts payable-AEP	161,558.14	(202,998.38)
Accounts payable-other	629.53	(305,879.94)
Accrued liabilities	(5,447.01)	(35,597.97)
Customer deposits	3,184.25	(18,112.77)
Deferred revenue	-	-
<b>Net cash provided by (used in) operating activities</b>	<b>279,592.39</b>	<b>554,604.92</b>

CITY OF SOUTH HAVEN  
ELECTRIC FUND  
KWH COMPARISONS  
ROLLING TWELVE MONTHS

		KWH PURCHASED	KWH BILLED	KWH STREET LTS	STREET LTS 12 MO AVE.	TOTAL KWH BILLED AND STREET LTS	PERCENTAGE BILLED AND STREET LTS TO PURCHASED (ROLLING 12 MOS)	PERCENTAGE BILLED AND STREET LTS TO PURCHASED CURRENT MONTH	
<b>FISCAL 2014</b>									
July	2013	14,702,976	12,364,189	37,740	52,213	12,401,929	94.64%	84.35%	31
August	2013	13,559,712	13,582,248	42,342	52,126	13,624,590	94.42%	100.48%	31
September	2013	11,670,399	12,462,283	48,796	52,143	12,511,079	95.03%	107.20%	30
October	2013	10,945,398	10,453,792	54,475	52,125	10,508,267	94.91%	96.01%	31
November	2013	10,657,150	9,502,492	58,511	51,866	9,561,003	94.96%	89.71%	30
December	2013	11,962,287	10,244,088	71,063	52,032	10,315,151	94.68%	86.23%	31
January	2014	12,608,593	10,959,716	65,878	51,791	11,025,594	94.12%	87.45%	31
February	2014	11,410,071	12,066,200	59,636	51,790	12,125,836	94.72%	106.27%	29
March	2014	11,773,033	10,878,414	54,626	51,925	10,933,040	94.54%	92.87%	31
April	2014	10,374,016	10,020,033	48,541	51,953	10,068,574	94.63%	97.06%	30
May	2014	11,203,732	10,614,984	44,334	51,971	10,659,318	94.97%	95.14%	31
June	2014	12,746,940	11,082,867	39,220	52,097	11,122,087	93.90%	87.25%	30
		<u>143,614,306</u>	<u>134,231,306</u>	<u>625,162</u>		<u>134,856,468</u>			
<b>FISCAL 2015</b>									
July	2014	13,717,651	12,578,551	38,129	52,129	12,616,680	96.41%	91.97%	31
August	2014	14,486,040	12,740,027	42,644	52,154	12,782,671	94.07%	88.24%	31
September	2014	11,824,906	13,323,234	48,696	52,146	13,371,930	94.64%	113.08%	30
October	2014	11,327,065	11,109,952	55,667	52,245	11,165,619	95.09%	98.57%	31
November	2014	11,400,971	10,662,987	62,443	52,573	10,725,430	94.71%	94.07%	30
December	2014	12,007,610	11,126,842	67,163	52,248	11,194,005	95.06%	93.22%	31
January	2015	12,646,269	11,962,202	63,831	52,078	12,026,033	95.27%	95.10%	31
February	2015	11,642,781	11,272,243	59,367	52,055	11,331,610	95.05%	97.33%	29
March	2015	11,611,940	10,475,991	55,391	52,119	10,531,382	94.93%	90.69%	31
April	2015	10,409,946	10,889,321	49,374	52,188	10,938,695	95.50%	105.08%	30
May	2015	11,362,501	10,551,097	43,678	52,134	10,594,775	95.38%	93.24%	31
June	2015	12,140,981	10,457,881	38,776	52,097	10,496,657	95.29%	86.46%	30
		<u>144,578,660</u>	<u>137,150,328</u>	<u>625,159</u>		<u>137,775,487</u>			
<b>FISCAL 2016</b>									
July	2015	14,677,143	13,243,711	38,312	52,112	13,282,023	93.91%	90.49%	31
August	2015	14,339,662	13,784,516	43,194	52,158	13,827,710	93.48%	96.43%	31
September	2015	12,441,903	13,414,247	48,002	52,100	13,462,249	94.04%	108.20%	30
October	2015	11,188,839	11,094,437	54,768	52,025	11,149,205	94.43%	99.65%	31
November	2015	10,684,266	9,455,848	61,411	51,939	9,517,259	94.57%	89.08%	30
December	2015	11,590,762	9,764,754	67,711	51,985	9,832,465	94.49%	84.83%	31
		<u>74,922,576</u>	<u>70,757,513</u>	<u>313,398</u>		<u>71,070,911</u>			
Prior Year-to-date		74,764,243	71,541,593	314,742		71,856,335			
Two Years Prior		73,497,921	68,609,092	312,927		68,922,019			

City of South Haven  
 Water Fund - Fund 591  
 For the period ended December 31, 2015

Col 6 & 11

Revenues:	Month Actual	Monthly Budget	Prior year MTD	MTD Variance to Budget	MTD Variance to Prior Year	YTD Actual	YTD Budget	Prior YTD Actual	Variance to Budget	Variance to Prior Year	2015-16 Adopted Budget	% of Annual Budget
Sales	\$ 274,024	\$ 318,092	\$ 258,896	\$ (44,067)	\$ 15,128	\$ 1,822,540	\$ 1,908,549	\$ 1,771,151	\$ (86,009)	\$ 51,389	\$ 3,817,098	48%
Charges for Service	4,553	5,833	6,215	(1,280)	(1,661)	34,713	35,000	28,648	(287)	6,065	70,000	50%
Interest Income	74	167	2,657	(93)	(2,583)	7,387	1,000	3,311	6,387	4,076	2,000	369%
Special Assessment Revenue	-	7,015	-	(7,015)	-	-	42,093	12	(42,093)	(12)	84,185	0%
Other Revenue	2,570	2,917	(382)	(347)	2,952	26,942	17,500	39,403	9,442	(12,461)	35,000	77%
<b>Total Revenues</b>	<b>\$ 281,221</b>	<b>\$ 334,024</b>	<b>\$ 267,385</b>	<b>\$ (52,803)</b>	<b>\$ 13,836</b>	<b>\$ 1,891,581</b>	<b>\$ 2,004,142</b>	<b>\$ 1,842,525</b>	<b>\$ (112,560)</b>	<b>\$ 49,057</b>	<b>\$ 4,008,283</b>	

Expenses:	1	2	3	4	5	6	7	8	9	10	11	% of Annual Budget
	Month Actual	Monthly Budget	Prior year MTD	MTD Variance to Budget	MTD Variance to Prior Year	YTD Actual	YTD Budget	Prior YTD Actual	Variance to Budget	Variance to Prior Year	2015-16 Adopted Budget	
Operating Expenses	\$ 168,285	\$ 126,019	\$ 136,237	\$ 42,267	\$ 32,048	\$ 727,903	\$ 756,114	\$ 655,300	\$ (28,210)	\$ 72,603	\$ 1,512,227	48%
Property Tax Equivalents	16,701	16,701	16,107	-	594	100,208	100,208	96,642	-	3,566	200,415	50%
Capital Outlay	1,000	32,377	2,203	(31,377)	(1,203)	20,084	194,264	3,408	(174,179)	16,676	388,527	5%
Debt Service	500	126,651	500	(126,151)	-	730,941	759,906	732,323	(28,965)	(1,381)	1,519,812	48%
Transfers Out	-	63	333	(63)	(333)	-	378	2,000	(378)	(2,000)	756	0%
Depreciation	50,833	50,833	16,307	-	34,526	305,000	305,000	97,842	-	207,158	610,000	50%
Administrative Expenses	14,864	20,534	17,233	(5,669)	(2,368)	130,773	123,201	137,077	7,572	(6,304)	246,402	53%
<b>Total Expenses</b>	<b>\$ 252,184</b>	<b>\$ 373,178</b>	<b>\$ 188,920</b>	<b>\$ (120,994)</b>	<b>\$ 63,264</b>	<b>\$ 2,014,909</b>	<b>\$ 2,239,070</b>	<b>\$ 1,724,591</b>	<b>\$ (224,160)</b>	<b>\$ 290,318</b>	<b>\$ 4,478,139</b>	

Net Fund Change                    \$    29,036    \$    (39,155)    \$    78,465    \$    68,191    \$    (49,428)    \$    (123,328)    \$    (234,928)    \$    117,933    \$    111,600    \$    (241,261)    \$    (469,856)

**AS OF JUNE 30, 2015**

Retained Earnings	\$ 7,773,667
Less Net Capital Assets, minus related LT debt	\$ (5,915,344)
Less Restricted Cash-Debt	\$ (60,723)
Net Undesignated Reserves	\$ 1,797,600

**Breakdown:**

Cash/Investments	\$ 2,077,613
Current Assets	\$ 966,012
Current Liabilities	\$ (1,246,024)
<b>Net Working Capital</b>	<b>\$ 1,797,600</b>

**AS OF CURRENT MONTH END**

Retained Earnings-FYE	\$ 7,773,667
Less Net Capital Assets, minus related LT debt	\$ (5,915,344)
Less Restricted Cash-Debt	\$ (60,743)
Net Undesignated Reserves	\$ 1,797,580
Net Income Per Income Statement Revenue > Expenses	\$ (123,328)
Add back Non-cash Depreciation Expense	\$ 305,000
	\$ 1,979,252

**Breakdown:**

Cash/Investments	\$ 2,436,440
Current Assets	\$ 723,125
Current Liabilities	\$ (1,180,313)
<b>Net Working Capital</b>	<b>\$ 1,979,252</b>

**PROJECTED BALANCE AT JUNE 30, 2016**                    **Based on Adopted Annual Budget**

Beginning Retained Earnings-July 1, 2015	\$ 7,773,667
Less Projected Net Capital Assets, minus related LT debt	\$ (5,693,871)
Less Restricted Cash-Debt	\$ (60,743)
Net Income Per Income Statement Revenue < Expenses	\$ (469,856)
	\$ 1,549,197

**Net Working Capital**    **\$ 1,549,197**    Projected thru 6/30/16

The Net Working Capital is shown here for June 30, 2015, Current Month Ended, and Projected at June 30, 2016. The amounts represent what is left over after all of the short-term obligations have been met and represents the relatively liquid portion of the Utility's retained earnings or reserves that can be used for future expenditures.

**WATER FUND**  
**STATEMENT OF CASHFLOWS**  
**FOR THE MONTH ENDED DECEMBER 31, 2015**

	Month Activity	Year-to-Date
Cash flows from operating activities:		
Receipts from customers & users	285,685.72	2,112,943.34
Payments to and on behalf of employees	(80,245.69)	(445,419.02)
Payments to suppliers - other	(100,021.65)	(464,831.22)
<b>Net cash provided by (used in) operating activities</b>	<b>105,418.38</b>	<b>1,202,693.10</b>
Cash flows from non-capital financing activities:		
Due to other funds	-	-
Property tax equivalents	(16,701.25)	(100,207.50)
Transfers out	-	-
<b>Net cash provided by (used in) non-capital financing activities</b>	<b>(16,701.25)</b>	<b>(100,207.50)</b>
Cash flows from capital and related financing activities:		
Proceeds from sale of capital assets	-	-
Interest Expense	(500.00)	(440,941.26)
Contribution in aid of construction	-	-
Principal paid on bonds and notes	-	(290,000.00)
Acquisitions of capital assets	(999.99)	(20,084.35)
<b>Net cash provided by (used in) capital and related financing activities</b>	<b>(1,499.99)</b>	<b>(751,025.61)</b>
Cash flows from investing activities		
Interest income	73.64	7,387.16
<b>Net cash provided by (used in) investing activities</b>	<b>73.64</b>	<b>7,387.16</b>
<b>Net increase (decrease) in cash &amp; pooled investments</b>	<b>87,290.78</b>	<b>358,847.15</b>
<b>Cash and pooled investments, beginning of period</b>	<b>2,409,891.94</b>	<b>2,138,335.57</b>
<b>Cash and pooled investments, end of period</b>	<b>2,497,182.72</b>	<b>2,497,182.72</b>
<b>Cash flows from operating activities</b>		
Operating income (loss)	46,163.98	410,433.77
Adjustments to reconcile operating income (loss) to net cash provided by (used in) operating activities		
Depreciation	50,833.33	304,999.98
Change in operating assets and liabilities which provided (used) cash		
Receivables	3,998.58	226,239.27
Due from other governmental units		
Prepaid expenses	-	16,647.26
Capital assets	999.99	20,084.35
Accounts payable	2,882.50	(50,127.62)
Accrued liabilities	-	(18,093.91)
Customer deposits	540.00	2,510.00
Add back principal payment	-	290,000.00
<b>Net cash provided by (used in) operating activities</b>	<b>105,418.38</b>	<b>1,202,693.10</b>

CITY OF SOUTH HAVEN  
WATER FUND  
CuFt COMPARISONS  
ROLLING TWELVE MONTHS

		GALLONS PUMPED TO MAINS	CuFt PUMPED TO MAINS	CuFt PLANT TAP UNBILLED	CuFt WATER QUALITY FLUSHING	CuFt BILLED	PERCENTAGE BILLED PLUS PLANT TAP TO PUMPED TO MAINS (ROLLING 12 MOS)	PERCENTAGE BILLED PLUS PLANT TAP TO PUMPED TO MAINS CURRENT MONTH
<b>FISCAL 2014</b>								
July	2013	70,321,000	9,401,203	62,968	127,844	6,705,606	88.48%	72.00%
August	2013	62,517,000	8,357,888	48,003	196,427	8,322,168	88.81%	100.15%
September	2013	52,536,000	7,023,529	43,984	192,916	7,118,311	89.52%	101.98%
October	2013	35,699,000	4,772,594	41,176	182,891	5,303,775	90.51%	111.99%
November	2013	28,029,000	3,747,193	37,834	99,473	3,426,297	90.79%	92.45%
December	2013	28,262,000	3,778,342	37,166	178,083	2,904,054	90.43%	77.84%
January	2014	36,931,000	4,937,299	40,642	145,998	3,089,262	89.82%	63.39%
February	2014	36,711,000	4,907,888	36,230	128,741	3,454,550	89.24%	71.13%
March	2014	36,506,000	4,880,481	37,567	40,914	3,251,264	89.19%	67.39%
April	2014	29,869,000	3,993,182	33,957	57,952	3,321,979	89.46%	84.04%
May	2014	40,638,000	5,432,888	31,283	70,598	4,278,590	89.10%	78.75%
June	2014	53,611,000	7,167,246	37,032	100,575	5,543,066	85.86%	77.34%
		<u>511,630,000</u>	<u>68,399,733</u>	<u>487,843</u>	<u>1,522,412</u>	<u>56,718,922</u>		
<b>FISCAL 2015</b>								
July	2014	64,316,000	8,598,396	38,503	126,739	6,932,597	89.25%	81.07%
August	2014	66,789,000	8,929,011	42,246	34,492	7,841,235	88.61%	88.29%
September	2014	44,601,000	5,962,701	36,096	100,277	6,663,068	89.65%	112.35%
October	2014	33,430,000	4,469,251	34,492	117,932	4,619,497	90.26%	104.13%
November	2014	29,363,000	3,925,535	34,091	102,686	3,359,059	90.37%	86.44%
December	2014	28,908,000	3,864,706	35,294	67,388	3,125,243	90.02%	81.78%
January	2015	31,306,000	4,185,294	35,561	83,432	4,170,131	90.74%	100.49%
February	2015	28,322,000	3,786,364	34,091	81,219	4,470,432	91.70%	118.97%
March	2015	31,937,000	4,269,652	34,091	40,910	3,087,632	91.99%	73.11%
April	2015	29,525,000	3,947,193	31,551	56,153	3,393,749	92.42%	86.78%
May	2015	39,633,000	5,298,529	35,963	54,549	3,758,939	91.60%	70.94%
June	2015	47,141,000	6,302,273	30,749	60,965	4,655,896	90.38%	73.88%
		<u>475,271,000</u>	<u>63,538,904</u>	<u>422,727</u>	<u>926,742</u>	<u>56,077,478</u>		
<b>FISCAL 2016</b>								
July	2015	61,946,000	8,281,551	38,503	78,614	6,437,314	84.12%	78.20%
August	2015	62,360,000	8,336,898	36,364	94,657	7,097,043	83.07%	85.56%
September	2015	46,519,000	6,219,118	31,150	94,659	6,645,302	83.99%	107.35%
October	2015	35,558,000	4,753,743	29,947	93,054	4,625,971	84.62%	97.94%
November	2015	29,110,000	3,891,711	28,743	89,845	3,606,818	85.68%	93.42%
December	2015	28,456,000	3,804,278	28,743	91,450	2,847,372	85.91%	75.60%
		<u>263,949,000</u>	<u>35,287,299</u>	<u>193,449</u>	<u>542,279</u>	<u>31,259,820</u>		
Prior Year-to-date		267,407,000	35,749,599	220,722	549,514	32,540,699		
Two Years Prior		277,364,000	37,080,749	271,132	977,634	33,780,211		

City of South Haven  
Sewer Fund - Fund 592  
For the period ended December 31, 2015

Col 6 & 11

Revenues:	Month Actual	Monthly Budget	Prior year MTD	MTD Variance to Budget	MTD Variance to Prior Year	YTD Actual	YTD Budget	Prior YTD Actual	Variance to Budget	Variance to Prior Year	2015-16 Adopted Budget	% of Annual Budget
Sales	\$ 172,275	\$ 199,281	\$ 162,405	\$ (27,006)	\$ 9,870	\$ 1,132,567	\$ 1,195,686	\$ 1,080,820	\$ (63,118)	\$ 51,747	\$ 2,391,371	47%
IPP Revenues	8,176	9,375	10,426	(1,199)	(2,250)	39,434	56,250	40,647	(16,816)	(1,213)	112,500	35%
Interest Income	2	1,250	754	(1,248)	(753)	4,143	7,500	689	(3,357)	3,454	15,000	28%
Special Assessment Revenue	-	7,415	-	(7,415)	-	-	44,492	17	(44,492)	(17)	88,983	0%
Grant Revenue	157,304	-	-	157,304	157,304	157,304	-	-	157,304	157,304	-	#DIV/0!
Other Revenue	150	1,000	-	(850)	150	7,689	6,000	16,938	1,689	(9,249)	12,000	64%
<b>Total Revenues</b>	<b>\$ 337,907</b>	<b>\$ 218,321</b>	<b>\$ 173,585</b>	<b>\$ 119,586</b>	<b>\$ 164,322</b>	<b>\$ 1,341,138</b>	<b>\$ 1,309,927</b>	<b>\$ 1,139,112</b>	<b>\$ 31,211</b>	<b>\$ 202,026</b>	<b>\$ 2,619,854</b>	

Expenses	Month Actual	Monthly Budget	Prior year MTD	MTD Variance to Budget	MTD Variance to Prior Year	YTD Actual	YTD Budget	Prior YTD Actual	Variance to Budget	Variance to Prior Year	2015-16 Adopted Budget	% of Annual Budget
Operating Expenses	\$ 178,943	\$ 120,881	\$ 95,746	\$ 58,062	\$ 83,197	\$ 739,353	\$ 725,283	\$ 564,920	\$ 14,070	\$ 174,433	\$ 1,450,566	51%
Property Tax Equivalents	8,733	8,733	8,104	0	629	52,398	52,398	48,626	0	3,772	104,795	50%
Capital Outlay	46,378	37,082	2,203	9,296	44,175	68,834	222,493	19,007	(153,659)	49,827	444,986	15%
Transfers Out	16,667	16,735	17,000	(68)	(333)	100,000	100,411	102,000	(410)	(2,000)	200,821	50%
Depreciation	29,583	29,583	20,379	-	9,205	177,500	177,500	122,273	-	55,228	355,000	50%
Administrative Expenses	23,627	27,906	25,600	(4,279)	(1,974)	172,551	167,435	175,046	5,116	(2,494)	334,870	52%
<b>Total Expenses</b>	<b>\$ 303,930</b>	<b>\$ 241,337</b>	<b>\$ 169,032</b>	<b>\$ 62,594</b>	<b>\$ 134,898</b>	<b>\$ 1,310,636</b>	<b>\$ 1,448,019</b>	<b>\$ 1,031,871</b>	<b>\$ (137,383)</b>	<b>\$ 278,765</b>	<b>\$ 2,896,038</b>	

Net Fund Change \$ 33,977 \$ (23,015) \$ 4,553 \$ 56,992 \$ 29,424 \$ 30,502 \$ (138,092) \$ 107,242 \$ 168,594 \$ (76,739) \$ (276,184)

**AS OF JUNE 30, 2015**

Retained Earnings	\$ 7,192,829
Less Net Capital Assets (Net of related Debt)	\$ (5,741,834)
Net Undesignated Reserves	\$ 1,450,995

**Breakdown:**

Cash/Investments	\$ 1,313,018
Current Assets	\$ 603,376
Current Liabilities	\$ (465,399)
<b>Net Working Capital</b>	<b>\$ 1,450,995</b>

**AS OF CURRENT MONTH END**

Retained Earnings-FYE	\$ 7,192,829
Less Net Capital Assets	\$ (5,741,834)
Net Undesignated Reserves	\$ 1,450,995
Net Income Per Income Statement Revenue > Expenses	\$ 30,502
Add back Non-cash Depreciation Expense	\$ 177,500
<b>Total</b>	<b>\$ 1,658,997</b>

**Breakdown:**

Cash/Investments	\$ 1,574,054
Current Assets	\$ 435,261
Current Liabilities	\$ (350,318)
<b>Net Working Capital</b>	<b>\$ 1,658,997</b>

**PROJECTED BALANCE AT JUNE 30, 2013**

Based on Adopted Annual Budget

Beginning Retained Earnings-July 1, 2015	\$ 7,192,829
Less Projected Net Capital Assets, minus related LT debt	\$ (5,831,820)
Net Income Per Income Statement Revenue < Expenses	\$ (276,184)
<b>Total</b>	<b>\$ 1,084,825</b>

**Net Working Capital \$ 1,084,825** Projected thru 6/30/16

The Net Working Capital is shown here for June 30, 2015, Current Month Ended, and projected at June 30, 2016. The amounts represent what is left over after all of the short-term obligations have been met and represents the relatively liquid portion of the Utility's retained earnings or reserves that can be used for future expenditures.

**SEWER FUND  
STATEMENT OF CASHFLOWS  
FOR THE MONTH ENDED DECEMBER 31, 2015**

	Month Activity	Year-to-Date
Cash flows from operating activities:		
Receipts from customers & users	343,292.04	1,497,126.71
Payments to and on behalf of employees	(57,618.92)	(342,811.06)
Payments to suppliers - other	(144,627.91)	(676,191.09)
<b>Net cash provided by (used in) operating activities</b>	<b>141,045.21</b>	<b>478,124.56</b>
Cash flows from non-capital financing activities:		
Due to other funds	-	-
Property tax equivalents	(8,732.92)	(52,397.52)
Transfers out	(16,666.67)	(100,000.02)
<b>Net cash provided by (used in) non-capital financing activities</b>	<b>(25,399.59)</b>	<b>(152,397.54)</b>
Cash flows from capital and related financing activities:		
Proceeds from sale of capital assets	-	-
Interest Expense	-	-
Contribution in aid of construction	-	-
Principal paid on bonds and notes	-	-
Acquisitions of capital assets	(46,377.76)	(68,833.62)
<b>Net cash provided by (used in) capital and related financing activities</b>	<b>(46,377.76)</b>	<b>(68,833.62)</b>
Cash flows from investing activities		
Interest income	1.80	4,143.16
<b>Net cash provided by (used in) investing activities</b>	<b>1.80</b>	<b>4,143.16</b>
<b>Net increase (decrease) in cash &amp; pooled investments</b>	<b>69,269.66</b>	<b>261,036.56</b>
<b>Cash and pooled investments, beginning of period</b>	<b>1,504,784.77</b>	<b>1,313,017.87</b>
<b>Cash and pooled investments, end of period</b>	<b>1,574,054.43</b>	<b>1,574,054.43</b>
<b>Cash flows from operating activities</b>		
Operating income (loss)	59,374.45	178,756.81
Adjustments to reconcile operating income (loss) to net cash provided by (used in) operating activities		
Depreciation	29,583.33	177,499.98
Change in operating assets and liabilities which provided (used) cash		
Receivables	5,387.06	160,281.68
Due from other governmental units	-	-
Prepaid expenses	-	7,833.00
Capital assets	46,377.76	68,833.62
Accounts payable	322.61	(100,564.45)
Accrued liabilities	-	(14,366.08)
Customer deposits	-	(150.00)
Deferred revenue	-	-
<b>Net cash provided by (used in) operating activities</b>	<b>141,045.21</b>	<b>478,124.56</b>

# **City of South Haven, MI**



## **Electric Outage Report 4<sup>th</sup> Quarter 2015**

South Haven Electric Distri	Yearly Reliabilty report	Jan-Dec 2015	Jan-Dec 2014
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Number of Outages per year(by Cause)			
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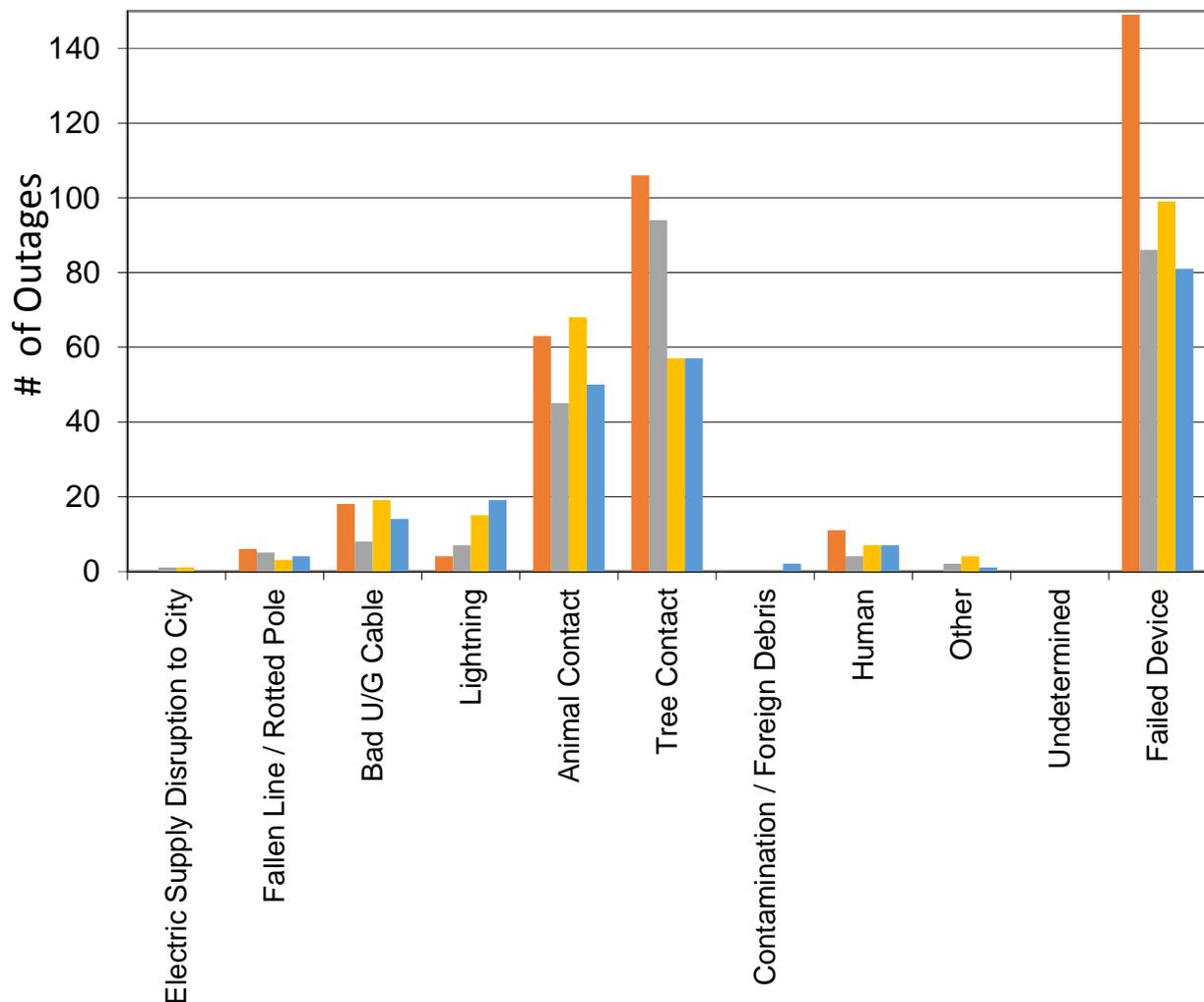
0 Electric Supply Disruption to City	0	1
1 Fallen Line / Rotted Pole	4	3
2 Bad U/G Cable	14	19
3 Lightning	19	15
4 Animal Contact	50	68
5 Tree Contact	57	57
6 Contamination / Foreign Debris	2	0
7 Human	7	7
8 Other	1	4
9 Undetermined	0	0
10 Failed Device	81	99
<b>Total</b>	<b>235</b>	<b>273</b>

Outage Statistics			
-------------------	--	--	--

ASAI (%)	99.973631	99.946308
CAIDI (Long) (min)	202.93447	242.67065
SAIDI (Long) (min)	11.549811	23.58232
SAIFI (Long) (ints/tot cust)	0.056914	0.0971783
SAIFI (Short) (ints/tot cust)	0	0.0004313

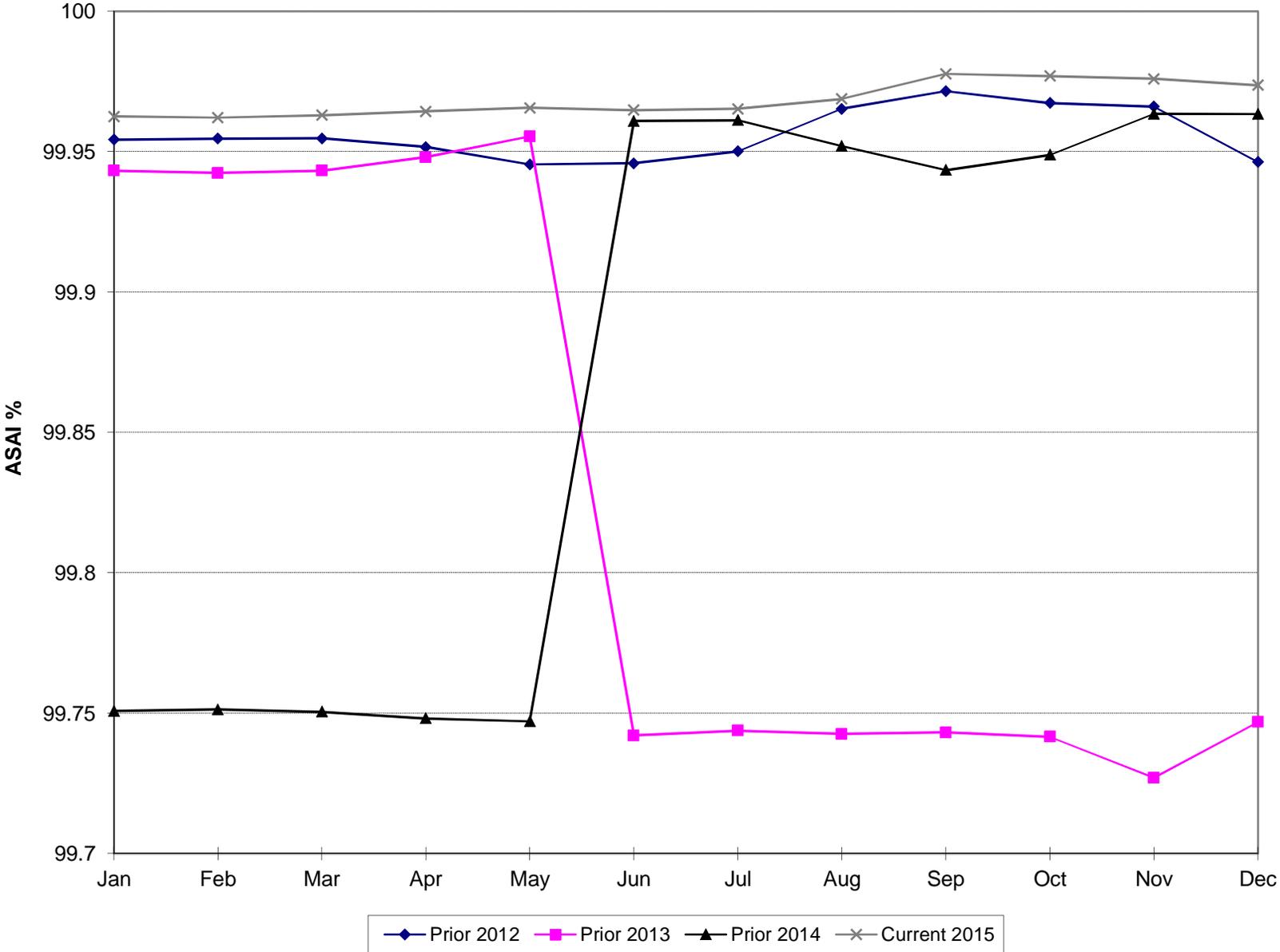
<b># of Outages</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2014-2015</b>
0 Electric Supply Disruption to City	0	1	1	0	-1%
1 Fallen Line / Rotted Pole	6	5	3	4	33%
2 Bad U/G Cable	18	8	19	14	-26%
3 Lightning	4	7	15	19	27%
4 Animal Contact	63	45	68	50	-26%
5 Tree Contact	106	94	57	57	0%
6 Contamination / Foreign Debris	0	0	0	2	2%
7 Human	11	4	7	7	0%
8 Other	0	2	4	1	-75%
9 Undetermined	0	0	0	0	0%
10 Failed Device	149	86	99	81	-18%
<b>Grand Total</b>	<b>357</b>	<b>252</b>	<b>273</b>	<b>235</b>	<b>-14%</b>

**Outages By Cause: 2012 - 2015**



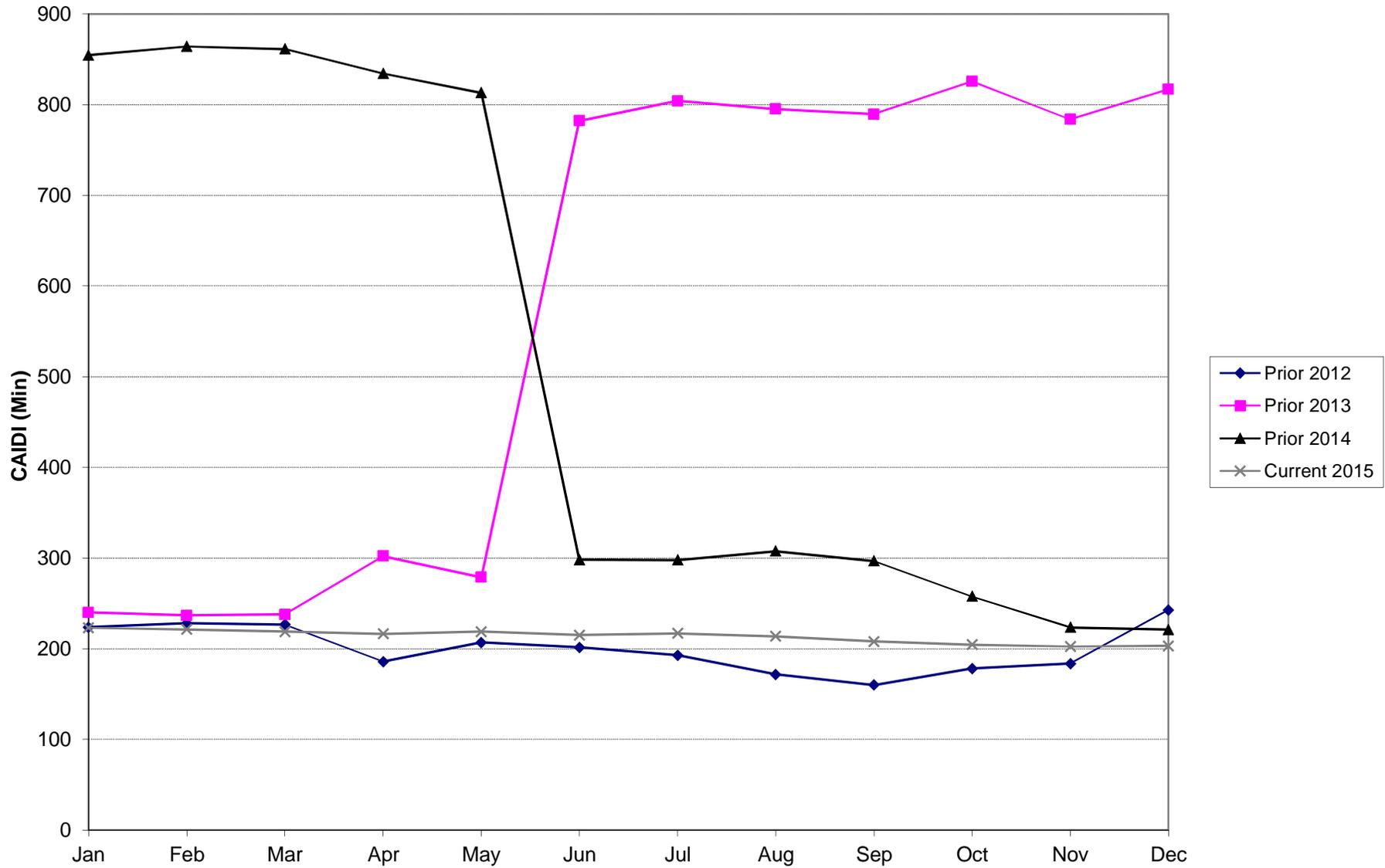
ASAI (Average Service Availability Index)

1/12/2016



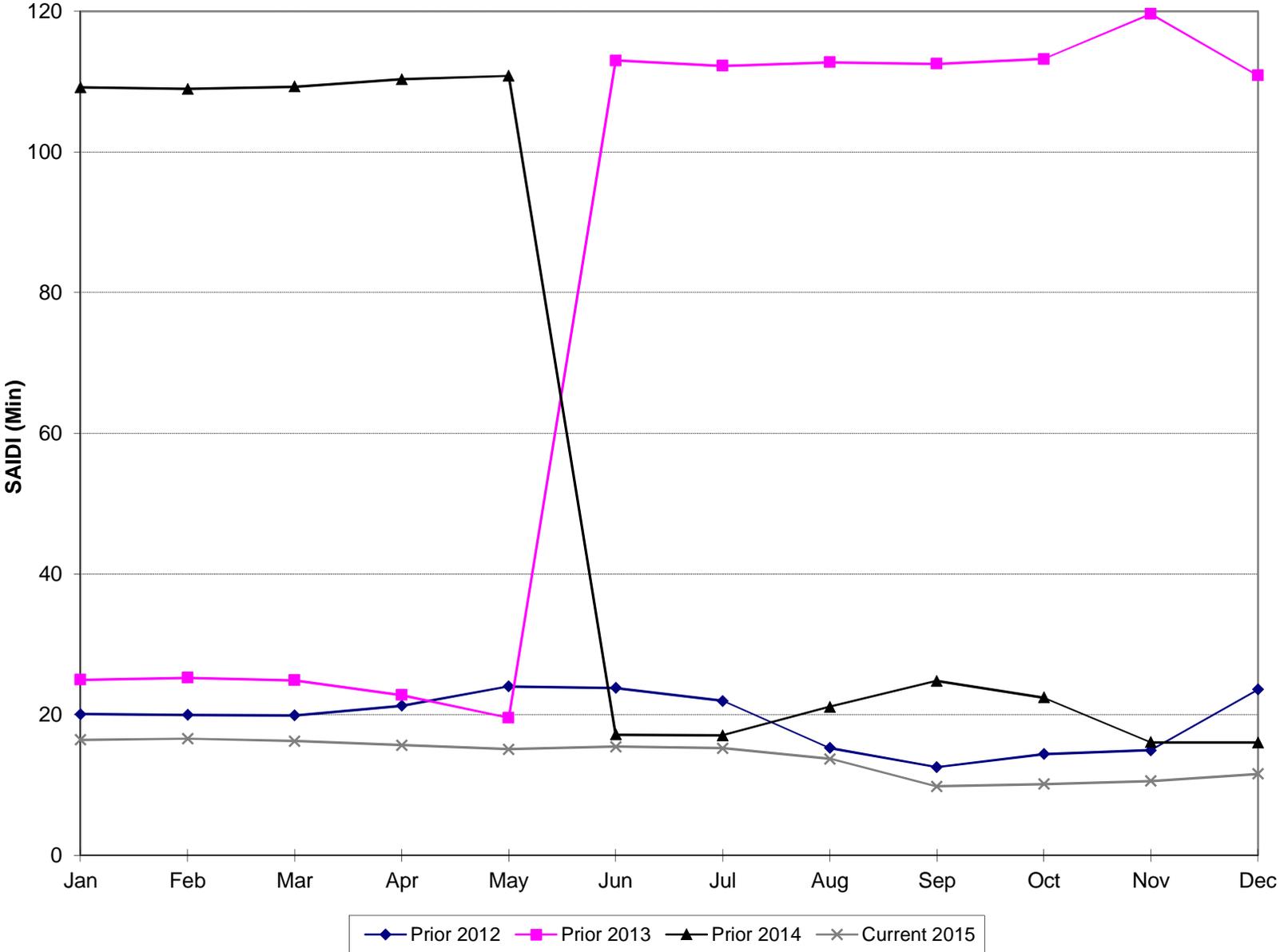
The ratio of the total customer minutes that service was available divided by the total customer minutes demanded (expected) in a time period. It is expressed as a percent.

### CAIDI (Customer Average Interruption Duration Index)



This is the average duration of a customer outage, and is calculated by dividing the sum of the customer minutes off by the number of customers who experienced long interruptions.

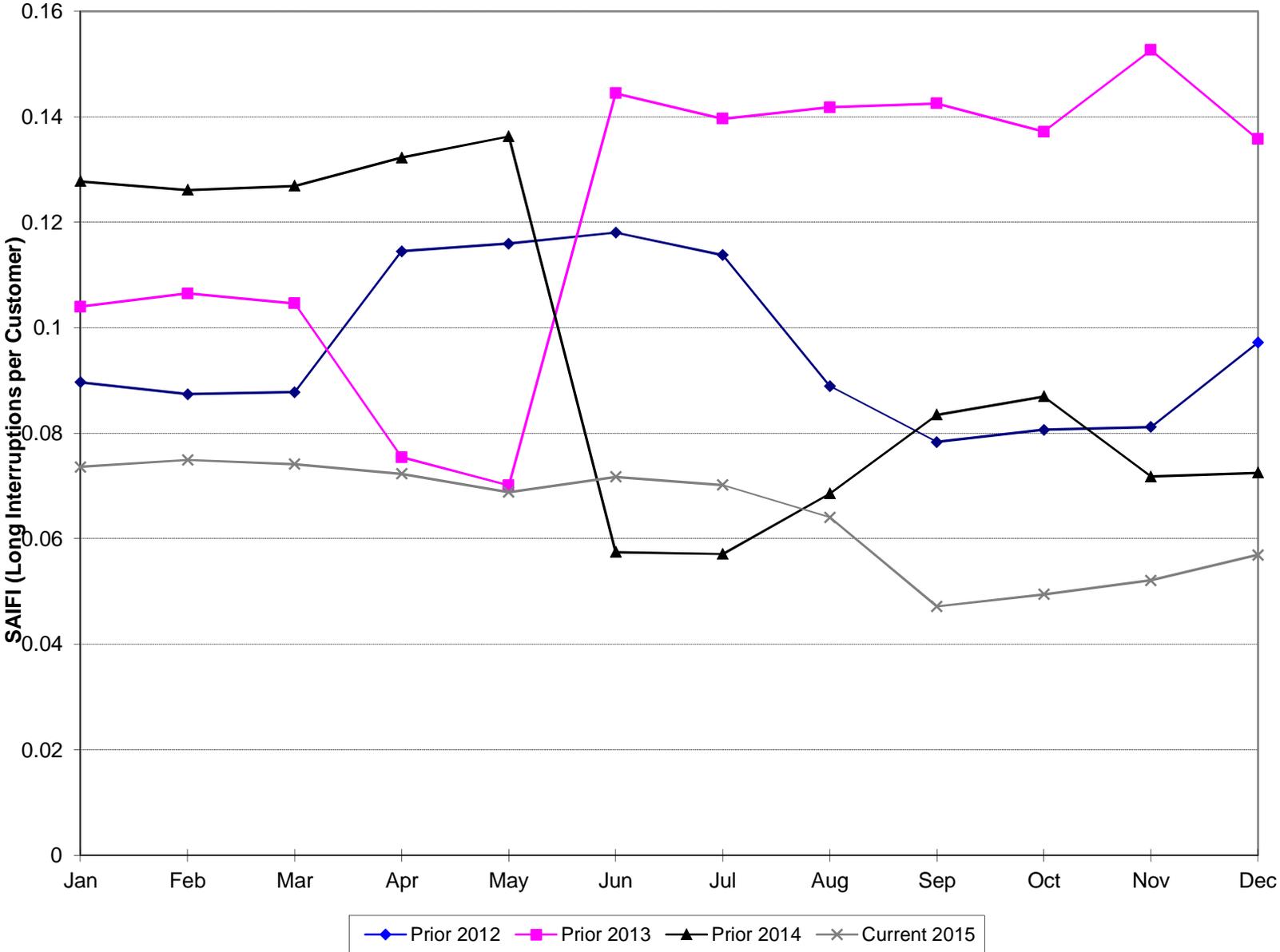
### SAIDI (System Average Interruption Duration Index)



This is the avg interruption duration for all customers served, and is calculated by dividing the sum of the customer minutes off by the avg number of customers served.

SAIFI (Long) (System Average Interruption Frequency Index for Long Interruptions)

1/12/2016



The number of times a customer is interrupted (>1 minute), averaged over all customers. Divide total customer interruptions by an avg of total customers served.

## South Haven Electric Distribution System

## MONTHLY OUTAGE REPORT

October 2015

#	Date	S/U	General Information	Cause	Time & Duration				Customers		
			Address/Location	Description	#	Ints	T off	T on	Mins	# Out	Cust Min
1	10/1/2015	U	75641 16th Ave	Bad underground service	2	1	10/1/15 8:45 AM	10/1/15 1:10 PM	265	1	265
2	10/1/2015	U	554 Green St	Service down - tree limb	5	1	10/1/15 5:25 PM	10/1/15 7:40 PM	135	1	135
3	10/3/2015	U	6000 68th St	Broken pole - car/pole	7	1	10/3/15 6:50 PM	10/3/15 10:25 PM	215	4	860
4	10/5/2015	U	73561 Chambers St	Bad Connection	10	1	10/5/15 6:45 PM	10/5/15 8:10 PM	85	4	340
5	10/6/2015	U	13480 72nd St	fuse - squirrel	4	1	10/6/15 8:15 PM	10/6/15 9:35 PM	80	9	720
6	10/8/2015	U	409 North Shore Dr	tree on line and fuse	5	1	10/8/15 11:45 PM	10/9/15 2:10 AM	145	17	2465
7	10/9/2015	U	151 Dunkley Ave	Primary line down - Trees	5	1	10/9/15 12:10 AM	10/9/15 6:55 AM	405	49	19845
8	10/13/2015	U	76355 Jordan Ln	Bad Connection	10	1	10/13/15 3:40 PM	10/13/15 6:10 PM	150	1	150
9	10/15/2015	U	Baseline Rd & 72nd St	Primary line fuse - tree on line	5	1	10/15/15 6:20 PM	10/15/15 9:50 PM	210	52	10920
10	10/15/2015	U	70806 CR 388	line fuse - tree on line	5	1	10/15/15 8:55 PM	10/15/15 11:35 PM	160	27	4320
11	10/16/2015	U	634 Kentucky Ave	fuse - squirrel	4	1	10/16/15 6:55 PM	10/16/15 7:05 PM	10	17	170
12	10/17/2015	U	67863 CR 388	Bad underground service	2	1	10/17/15 9:15 PM	10/18/15 12:20 PM	905	4	3620
13	10/18/2015	U	10336 Blue Star Mem Hwy	Bad Connection	10	1	10/18/15 8:30 PM	10/18/15 11:35 PM	185	1	185
14	10/19/2015	U	750 Lee St	Primary line fuse - trees on line	5	1	10/19/15 11:50 AM	10/19/15 1:25 PM	95	44	4180
15	10/21/2015	U	Kentucky Ave	Down primary line - tree down	5	1	10/21/15 11:20 AM	10/21/15 4:05 PM	285	79	22515
16	10/23/2015	U	0847 73rd St	Bad Connection	10	1	10/23/15 3:15 PM	10/23/15 4:10 PM	55	1	55
17	10/24/2015	U	768 Lee St	fuse - tree on secondary line	5	1	10/24/15 7:20 PM	10/24/15 9:40 PM	140	11	1540
18	10/25/2015	U	03567 70th St	Bad Connection	10	1	10/25/15 12:30 PM	10/25/15 2:40 PM	130	1	130
19	10/26/2015	U	Jackson Blvd	Fuse - squirrel	4	1	10/26/15 6:40 PM	10/26/15 7:50 PM	70	14	980
20	10/26/2015	U	736 North Shore Dr	Fuse - squirrel	4	1	10/26/15 9:05 PM	10/26/15 10:40 PM	95	18	1710
21	10/29/2015	U	76th St & 12th Ave & 16th St & 77th St	Primary line fuse - tree limb	5	1	10/29/15 5:00 AM	10/29/15 7:15 AM	135	476	64260
22	10/29/2015	U	380 & 76th St	line fuse - tree limb	5	1	10/29/15 4:15 PM	10/29/15 6:10 PM	115	89	10235

S/U - Scheduled or Unscheduled

Ints - # of Interruptions

Long - &gt;1 min; Short - &lt;1 min

Cause # - see table on page 3

## South Haven Electric Distribution System

## OUTAGE SUMMARIES

October 2015

<b>Total Customers this Month</b>	<b>8,350</b>	<b>Days of Month</b>
<b>Total Customer Minutes this Month</b>	<b>372,744,000</b>	<b>31</b>

Outage Totals			
		This Month	This Month Last Year
<b>Unscheduled Outages</b>			
Long	# Outages	22	32
	# Customers Out	920	690
	# Minutes Out	4,070	4593
	# Customer Minutes Out	149,600	118438
	# Within City System	22	32
	# Supply to City Minutes	0	0
Short	# Outages (Blinks)	0	0
	# Customers Affected	0	0
	# Within City System	0	0
	# Supply to City Minutes	0	0
<b>Scheduled Outages</b>			
Long	# Outages	0	0
	# Customers Out	0	0
	# Minutes Out	0	0
	# Customer Minutes Out	0	0
	# Within City System	0	0
	# Supply to City Minutes	0	0
Short	# Outages (Blinks)	0	0
	# Customers Affected	0	0
	# Within City System	0	0
	# Supply to City Minutes	0	0
<b>Totals</b>			
Total Long Outages		22	32
Total Short Outages (Blinks)		0	0
Total Customers Out (Long)		920	690
Total Customers Affected (Short- Blinks)		0	0
Total Customer Minutes Out		149,600	118438
Total Outages Within City System		22	32
Total Outages in Supply to City		0	0

Number of Outages (by Cause)					
Cause #	Description	Total This Month	This Month Last Year	Rolling AT	% AT
0	Electric Supply Disruption to City	0	0	0	0%
1	Fallen Line / Rotted Pole	0	0	2	1%
2	Bad U/G Cable	2	3	13	6%
3	Lightning	0	0	19	8%
4	Animal Contact	4	8	57	25%
5	Tree Contact	10	8	42	18%
6	Contamination / Foreign Debris	0	0	2	1%
7	Human	1	0	8	3%
8	Other	0	0	1	0%
9	Undetermined	0	0	0	0%
10	Failed Device	5	13	85	37%
Total		22	32	229	

AT - Annual 12 Month Total

12 Month Outage Statistics		
Index	As of This Month	As of This Month Last Year
ASAI (%)	99.9769	99.9488
CAIDI (Long) (min)	204.44	257.58
SAIDI (Long) (min)	10.11	22.40
SAIFI (Long) (ints/tot cust)	0.05	0.09
SAIFI (Short) (ints/tot cust)	0.00	0.00

ASAI - Average Service Availability Index  
(customer minutes available/total customer minutes, as a %)

CAIDI - Customer Average Interruption Duration Index  
(average minutes interrupted per interrupted customer)

SAIDI - System Average Interruption Duration Index  
(average minutes interrupted per customer for all customers)

SAIFI (Long) - System Average Interruption Frequency Index  
(# of long interruptions per customer for all customers)

SAIFI (Short) - System Average Interruption Frequency Index  
(# of short interruptions per customer for all customers)

S/U - Scheduled or Unscheduled  
Ints - # of Interruptions  
Long - >1 min; Short - <1 min  
Cause # - see table on page 3

## South Haven Electric Distribution System

## MONTHLY OUTAGE REPORT

November 2015

#	Date	S/U	General Information	Cause	Time & Duration					Customers	
			Address/Location	Description	#	Ints	T off	T on	Mins	# Out	Cust Min
1	11/2/2015	U	403 Phoenix St	Bad Connection	10	1	11/2/15 4:30 PM	11/2/15 6:55 PM	145	1	145
2	11/3/2015	U	706 Kentucky Ave	Bad underground service	2	1	11/3/15 2:45 PM	11/3/15 5:30 PM	165	1	165
3	11/3/2015	U	11628 M-140 Hwy	Bad Connection	10	1	11/3/15 6:45 PM	11/3/15 8:10 PM	85	1	85
4	11/6/2015	U	73100 CR 388	Bad Connection	10	1	11/6/15 4:15 PM	11/6/15 6:00 PM	105	1	105
5	11/7/2015	U	225 Michigan Ave	Bad Connection	10	1	11/7/15 9:40 PM	11/7/15 11:10 PM	90	1	90
6	11/9/2015	U	500 Erie St	Bad Connection	10	1	11/9/15 11:10 AM	11/9/15 1:20 PM	130	4	520
7	11/12/2015	U	02477 Ridgewood	line fuse - tree limb	5	1	11/12/15 5:40 AM	11/12/15 7:15 AM	95	59	5605
8	11/12/2015	U	728 Wilson St	Primary line down - tree down	5	1	11/12/15 7:20 AM	11/12/15 1:05 PM	345	64	22080
9	11/12/2015	U	2nd Ave & 70th St	Down primary line - tree down	5	1	11/12/15 8:00 PM	11/13/15 1:35 AM	335	29	9715
10	11/12/2015	U	Broadway St	Down secondary line - tree down	5	1	11/12/15 10:45 AM	11/12/15 2:10 PM	205	17	3485
11	11/17/2015	U	14826 77th St	Bad underground service	2	1	11/17/15 2:45 PM	11/17/15 6:00 PM	195	3	585
12	11/19/2015	U	234 North Shore Dr	Line fuse primary line down	1	1	11/19/15 11:00 PM	11/20/15 1:05 AM	125	54	6750
13	11/19/2015	U	226 Prospect St	Broken pole - service	1	1	11/19/15 4:00 PM	11/19/15 10:05 PM	365	14	5110
14	11/20/2015	U	Avery St & North Shore Dr	P.M.H. cabinet - Blown fuse - broken primary	10	1	11/20/15 12:25 AM	11/20/15 2:20 AM	115	112	12880
15	11/21/2015	U	Blue Star Mem Hwy & Kalamazoo St	Broken pole - tree down - primary line down	5	1	11/21/15 4:20 AM	11/21/15 10:45 AM	385	74	28490
16	11/21/2015	U	6th Ave & 71.5 St	Line fuse - tree	5	1	11/21/15 7:35 AM	11/21/15 9:55 AM	140	31	4340
17	11/21/2015	U	07120 Hubbard St	line fuse - tree on line	5	1	11/21/15 12:15 PM	11/21/15 2:40 PM	145	27	3915
18	11/21/2015	U	209 Humphrey St	fuse - tree on secondary line	5	1	11/21/15 1:10 PM	11/21/15 4:35 PM	205	13	2665
19	11/21/2015	U	Pinewood Ln & 77th St	primary line down - tree down	5	1	11/21/15 4:50 PM	11/21/15 10:05 PM	315	41	12915
20	11/21/2015	U	217 Van Buren St	fuse - tree on line	5	1	11/21/15 9:55 PM	11/21/15 11:10 PM	75	16	1200
21	11/22/2015	U	1375 Kalamazoo St	fuse - squirrel	4	1	11/22/15 2:40 PM	11/22/15 4:15 PM	95	2	190
22	11/22/2015	U	727 Bailey Ave	fuse - tree limb on line	5	1	11/22/15 8:30 PM	11/22/15 9:45 PM	75	14	1050
23	11/22/2015	U	01722 67th St	line fuse - tree on line	5	1	11/22/15 9:10 PM	11/22/15 11:45 PM	155	34	5270
24	11/29/2015	U	955 Bailey Ave	Primary line fuse - undetermined	10	1	11/29/15 10:40 AM	11/29/15 11:20 AM	40	11	440
25	11/29/2015	U	1010 6th Ave	Primary line fuse - bad pad mount elbow	10	1	11/29/15 6:30 PM	11/29/15 9:50 PM	200	36	7200
26	11/30/2015	U	06425 73rd St	Bad Connection	10	1	11/30/15 2:30 AM	11/30/15 4:40 AM	130	1	130

S/U - Scheduled or Unscheduled

Ints - # of Interruptions

Long - &gt;1 min; Short - &lt;1 min

Cause # - see table on page 3

## South Haven Electric Distribution System

## OUTAGE SUMMARIES

November 2015

<b>Total Customers this Month</b>	<b>8,350</b>	<b>Days of Month</b>
<b>Total Customer Minutes this Month</b>	<b>360,720,000</b>	<b>30</b>

Outage Totals			
		This Month	This Month Last Year
<b>Unscheduled Outages</b>			
Long	# Outages	26	25
	# Customers Out	661	388
	# Minutes Out	4,460	5035
	# Customer Minutes Out	135,125	90140
	# Within City System	26	25
	# Supply to City Minutes	0	0
Short	# Outages (Blinks)	0	0
	# Customers Affected	0	0
	# Within City System	0	0
	# Supply to City Minutes	0	0
<b>Scheduled Outages</b>			
Long	# Outages	0	0
	# Customers Out	0	0
	# Minutes Out	0	0
	# Customer Minutes Out	0	0
	# Within City System	0	0
	# Supply to City Minutes	0	0
Short	# Outages (Blinks)	0	0
	# Customers Affected	0	0
	# Within City System	0	0
	# Supply to City Minutes	0	0
<b>Totals</b>			
Total Long Outages		26	25
Total Short Outages (Blinks)		0	0
Total Customers Out (Long)		661	388
Total Customers Affected (Short- Blinks)		0	0
Total Customer Minutes Out		135,125	90140
Total Outages Within City System		26	25
Total Outages in Supply to City		0	0

Number of Outages (by Cause)					
Cause #	Description	Total This Month	This Month Last Year	Rolling AT	% AT
0	Electric Supply Disruption to City	0	0	0	0%
1	Fallen Line / Rotted Pole	2	0	4	2%
2	Bad U/G Cable	2	1	14	6%
3	Lightning	0	0	19	8%
4	Animal Contact	1	10	48	21%
5	Tree Contact	12	4	50	22%
6	Contamination / Foreign Debris	0	0	2	1%
7	Human	0	1	7	3%
8	Other	0	0	1	0%
9	Undetermined	0	0	0	0%
10	Failed Device	9	9	85	37%
<b>Total</b>		<b>26</b>	<b>25</b>	<b>230</b>	

AT - Annual 12 Month Total

12 Month Outage Statistics		
Index	As of This Month	As of This Month Last Year
ASAI (%)	99.9759	99.9634
CAIDI (Long) (min)	202.36	223.51
SAIDI (Long) (min)	10.55	16.04
SAIFI (Long) (ints/tot cust)	0.05	0.07
SAIFI (Short) (ints/tot cust)	0.00	0.00

ASAI - Average Service Availability Index

(customer minutes available/total customer minutes, as a %)

CAIDI - Customer Average Interruption Duration Index

(average minutes interrupted per interrupted customer)

SAIDI - System Average Interruption Duration Index

(average minutes interrupted per customer for all customers)

SAIFI (Long) - System Average Interruption Frequency Index

(# of long interruptions per customer for all customers)

SAIFI (Short) - System Average Interruption Frequency Index

(# of short interruptions per customer for all customers)

S/U - Scheduled or Unscheduled

Ints - # of Interruptions

Long - &gt;1 min; Short - &lt;1 min

Cause # - see table on page 3

South Haven Electric Distribution System

MONTHLY OUTAGE REPORT

December 2015

#	Date	S/U	General Information	Cause		Time & Duration				Customers	
			Address/Location	Description	#	Ints	T off	T on	Mins	# Out	Cust Min
1	12/1/2015	U	23960 Ruggles Rd	Underground primary line fuse - squirrel	4	1	12/1/15 6:20 AM	12/1/15 7:25 AM	65	9	585
2	12/2/2015	U	Phoenix St & Bailey Ave	Line fuse - squirrel	4	1	12/2/15 9:15 PM	12/2/15 10:40 PM	85	57	4845
3	12/3/2015	U	10336 Blue Star Mem Hwy	Bad connection at fuse	10	1	12/3/15 6:45 PM	12/3/15 8:55 PM	130	3	390
4	12/5/2015	U	77019 CR 380	fuse - squirrel	4	1	12/5/15 3:10 PM	12/5/15 4:45 PM	95	8	760
5	12/6/2015	U	Arbor Ct & Le Grange St	Bad Connection	10	1	12/6/15 7:50 PM	12/6/15 9:10 PM	80	1	80
6	12/21/2015	U	8 Bailey Ave	2 line fuse's squirrel	4	1	12/21/15 2:15 PM	12/21/15 3:35 PM	80	29	2320
7	12/22/2015	U	771 Lee St	Bad Connection	10	1	12/22/15 5:00 AM	12/22/15 6:50 AM	110	1	110
8	12/24/2015	U	73482 12th Ave	Fuse - Squirrel	4	1	12/24/15 1:55 AM	12/24/15 3:10 AM	75	9	675
9	12/26/2015	U	230 Oak St	Line Fuse - Squirrel	4	1	12/26/15 10:10 PM	12/26/15 11:40 PM	90	34	3060
10	12/28/2015	U	14th Ave & 76th St	2 line fuse's - wind - tree limbs	5	1	12/28/15 5:20 PM	12/28/15 9:10 PM	230	162	37260
11	12/28/2015	U	6th Ave & 71.5 St	Line fuse - tree limbs and wind	5	1	12/28/15 5:45 PM	12/28/15 8:55 PM	190	42	7980
12	12/28/2015	U	Michigan Ave & St Joseph St	Primary Line Down - wind - trees down	5	1	12/28/15 6:40 PM	12/28/15 10:15 PM	215	147	31605
13	12/28/2015	U	Chicago Ave & North Shore Dr	Line fuse - tree limbs - wind	5	1	12/28/15 6:45 PM	12/28/15 9:10 PM	145	77	11165
14	12/28/2015	U	Pearl St & Erie St	Primary line down - tree down - wind	5	1	12/28/15 6:55 PM	12/28/15 10:25 PM	210	62	13020
15	12/28/2015	U	18th Ave & 77th St	Primary line down - tree down	5	1	12/28/15 8:55 PM	12/28/15 11:45 PM	170	27	4590
16	12/29/2015	U	20539 Blue Star Hwy	Fuse - Tree limb	5	1	12/29/15 5:10 AM	12/29/15 7:10 AM	120	6	720
17	12/29/2015	U	CR 388 & 66th St	Broken pole - tree down - line down	5	1	12/29/15 3:45 PM	12/29/15 7:25 PM	220	7	1540

S/U - Scheduled or Unscheduled  
 Ints - # of Interruptions  
 Long - >1 min; Short - <1 min  
 Cause # - see table on page 3

South Haven Electric Distribution System

OUTAGE SUMMARIES

December 2015

<b>Total Customers this Month</b>	<b>8,350</b>	<b>Days of Month</b>
<b>Total Customer Minutes this Month</b>	<b>372,744,000</b>	<b>31</b>

Outage Totals			
		This Month	This Month Last Year
<b>Unscheduled Outages</b>			
Long	# Outages	17	12
	# Customers Out	681	199
	# Minutes Out	2,310	1115
	# Customer Minutes Out	120,705	19900
	# Within City System	17	12
	# Supply to City Minutes	0	0
Short	# Outages (Blinks)	0	0
	# Customers Affected	0	0
	# Within City System	0	0
	# Supply to City Minutes	0	0
<b>Scheduled Outages</b>			
Long	# Outages	0	0
	# Customers Out	0	0
	# Minutes Out	0	0
	# Customer Minutes Out	0	0
	# Within City System	0	0
	# Supply to City Minutes	0	0
Short	# Outages (Blinks)	0	0
	# Customers Affected	0	0
	# Within City System	0	0
	# Supply to City Minutes	0	0
<b>Totals</b>			
Total Long Outages		17	12
Total Short Outages (Blinks)		0	0
Total Customers Out (Long)		681	199
Total Customers Affected (Short- Blinks)		0	0
Total Customer Minutes Out		120,705	19900
Total Outages Within City System		17	12
Total Outages in Supply to City		0	0

Number of Outages (by Cause)					
Cause #	Description	Total This Month	This Month Last Year	Rolling AT	% AT
0	Electric Supply Disruption to City	0	0	0	0%
1	Fallen Line / Rotted Pole	0	0	4	2%
2	Bad U/G Cable	0	0	14	6%
3	Lightning	0	0	19	8%
4	Animal Contact	6	4	50	21%
5	Tree Contact	8	1	57	24%
6	Contamination / Foreign Debris	0	0	2	1%
7	Human	0	0	7	3%
8	Other	0	0	1	0%
9	Undetermined	0	0	0	0%
10	Failed Device	3	7	81	34%
	<b>Total</b>	<b>17</b>	<b>12</b>	<b>235</b>	

AT - Annual 12 Month Total

12 Month Outage Statistics		
Index	As of This Month	As of This Month Last Year
ASAI (%)	99.9736	99.9634
CAIDI (Long) (min)	202.93	221.03
SAIDI (Long) (min)	11.55	16.03
SAIFI (Long) (ints/tot cust)	0.06	0.07
SAIFI (Short) (ints/tot cust)	0.00	0.00

- ASAI - Average Service Availability Index  
(customer minutes available/total customer minutes, as a %)
- CAIDI - Customer Average Interruption Duration Index  
(average minutes interrupted per interrupted customer)
- SAIDI - System Average Interruption Duration Index  
(average minutes interrupted per customer for all customers)
- SAIFI (Long) - System Average Interruption Frequency Index  
(# of long interruptions per customer for all customers)
- SAIFI (Short) - System Average Interruption Frequency Index  
(# of short interruptions per customer for all customers)

S/U - Scheduled or Unscheduled  
 Ints - # of Interruptions  
 Long - >1 min; Short - <1 min  
 Cause # - see table on page 3





# Electric Outages Due to Trees in 4th Quarter of 2015

## # of Outages & # of Customers Out

