

# Board of Public Utilities

## Regular Meeting Agenda

Monday, October 27, 2014  
4:00 p.m., DPW Conference Room  
1199 8<sup>th</sup> Avenue



City of South Haven

1. Call to Order
2. Roll Call
3. Approval of Agenda
4. Approval of Minutes – September 29, 2014 Regular 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. 2014 Billings – All Charges
  - B. 2013 Billings – All Charges
7. Financial Reports
  - A. Electric Fund – Financial Report for period ending September 30, 2014
  - B. Electric Fund – Review of Percentage Billed
  - C. Water Fund – Financial Report for period ending September 30, 2014
  - D. Water Fund – Review of Percentage Billed
  - E. Sewer Fund – Financial Report for period ending September 30, 2014
8. Unresolved Issues Report
9. Quarterly Outage Report
10. Transformer Inventory – Independent Accountant's Report

### NEW BUSINESS

11. Board will be requested to award a five year contract for substation maintenance to Electrical Power System (EPS) in the total amount of \$147,468.00.
12. Public Works Director Comments

A. Next Meeting is scheduled for November 24, 2014.

**13. Board Member Comments**

**14. Adjourn**

RESPECTFULLY SUBMITTED,

Roger Huff, PE  
Public Works Director

South Haven DPW Building is Barrier-free and the City of South Haven will provide the necessary reasonable auxiliary aids and services for persons with disabilities, such as signers for the hearing impaired and audio tapes of printed materials being considered at the meeting to individuals with disabilities at the meeting upon seven (7) days notice to the South Haven City Clerk. Individuals with disabilities requiring services should contact the City Clerk by writing or calling South Haven City Hall at (269) 637-0750.

## Board of Public Utilities

### Regular Meeting Minutes

Monday, September 29, 2014  
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, Roberts, Rose (ex-officio), Stein (ex-officio), Stickland  
Absent: Henry, Overhiser (ex-officio), Winkel  
Excused: Henry and Winkel

**3. Approval of Agenda**

Motion by Burr, second by Roberts to approve the September 29, 2014 regular meeting agenda as presented.

All in favor. Motion carried.

**4. Approval of Minutes – August 25, 2014 Regular Meeting Minutes**

Motion by Roberts, second by Burr to approve the August 25, 2014 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. 2014 Billings – All Charges
- B. 2013 Billings – All Charges

It was noted that the year-to-date (YTD) figure for 2014 is identical to the YTD figure for 2013.

## 7. Financial Reports

- A. Electric Fund – Financial Report for period ending August 31, 2014
- B. Electric Fund – Review of Percentage Billed
- C. Water Fund – Financial Report for period ending August 31, 2014
- D. Water Fund – Review of Percentage Billed
- E. Sewer Fund – Financial Report for period ending August 31, 2014

Electric Fund. In response to a question by Stickland about Capital Outlay, Hochstedler stated she does not know if everything the board has approved is in that monthly figure, so far. Hochstedler also commented, “Budgeted divided by twelve; it will all even out.”

There was discussion regarding the August figures; Burr pointed out that this August was cool so there was not a big air conditioning load.

Roberts noticed some street lights that are very bright; Halberstadt said we do have some LED (light emitting diode) and halogen lights downtown. Stickland noted that the city does not have a good inventory of number of lights, type of bulbs and so forth. Halberstadt noted it is an estimated number.

The street light at the corner of 12<sup>th</sup> and 73<sup>rd</sup> Streets is out, per Ross Stein.

Water. Regarding the YTD on the water fund, Hochstedler noted that no bond payments have been made yet. Stickland inquired about Special Assessment Revenue to which Hochstedler noted “It’s only interest we count as revenue.” Halberstadt added that the revenue is counted in the year in which the assessment was made.

Roberts asked what the reserve is on the water plant which Hochstedler stated is 2.7, noting that we are building the fund back up. Roberts asked, about the bonds that will be coming due, whether the reserve fund can be used to save interest by paying down the bonds. Hochstedler responded that the city has refunded or refinanced everywhere we can.

Roberts noted, “We just raised rates but we have reserves.” Halberstadt reiterated that no bond payments have been made this year; one million (\$1M) of that is going to be gone. Regarding request for additional reports, Hochstedler asked which the board is looking for to which Stickland responded, “Cash on hand and the reserve, if you want to call it that.”

In response to questions by Roberts, the board discussed the various components of the water bills. It was noted that the water filtration plant and the standpipe rehab are the only projects the city is still paying on. Stickland clarified that the standpipe was not a special assessment. Hochstedler explained that when she came, everything was going toward debt; all the money was being used to pay the debt and the city had no money to do anything else in the system because the debt charges were never set high enough. Stickland noted that the plant assessment fee is the highest part of the utility bill.

Sewer Fund. Hochstedler noted that there is \$994,000 in the bank and Halberstadt pointed out that the city is starting a big project on Dyckman which is going to use up a lot of that. Hochstedler pointed out that the city has the money to cover the Dyckman project. Stickland asked if that is in the budget figure and Hochstedler responded yes. Roberts asked if that is

going to solve the problems and Halberstadt stated, "Yes, the sewer is the driver on this project." In explaining the scope of the project, Halberstadt noted that the sewer work extends to Park Avenue.

Stickland asked about the public hearing for the Dyckman Special Assessment District and Halberstadt noted that there has been one public hearing and there is another coming up.

## **8. Unresolved Issues Report**

Halberstadt stated, "Nothing new," noting that he did add the fund reserve report request. Discussion ensued regarding whether the board wants the fund reserve or cash and it was determined that the board would like to see both figures.

## **NEW BUSINESS**

### **9. Board will be requested to approve award of contracts for professional services to GRP Engineering, Inc. for 2015 Electric Distribution Line Projects.**

Halberstadt noted that GRP Engineering, Inc. contacted him and asked if the city wants to get started on design work on projects for the next fiscal year. Halberstadt stated that it seemed like a good idea to do that, prior to actually establishing the budget.

Stickland asked if the board can get a system map, so we can show people where it is and how it affects the system.

Burr wondered about 2018 where it says the system is loaded sixty percent (60%) above what it should be. Stickland pointed out that a system can be safely overloaded for short periods under peak conditions. Halberstadt noted that he reads that as the system is only loaded sixty percent (60%) of peak, not above peak, and commented that hopefully that number will not get above sixty (60) percent in the next three (3) years. Stickland said he has no problem with it running at 120% at peak, for an hour or two. Burr just wanted to ascertain whether this project needed to be done before 2018 but Stickland is confident it does not need to be done yet.

Stickland requested discussion by proposal.

Project #104. Halberstadt said we are talking about doing this project in 2015; rebuild some of the lines on Blue Star from 2<sup>nd</sup> and south down to 6<sup>th</sup> Avenue. Stickland asked if it gives us the ability to switch loads to which Halberstadt responded, "Yes, that is one of the main ties. This deals with tying the two substations together enabling us to switch loads in case of an outage." Halberstadt also commented that we do have some capacity to do that now, but not on a peak day; we are looking to be able to do more in the future.

Stickland explained that these figures are just for design and project oversight. Halberstadt pointed out that based on the engineering study we had done, GRP is recommending that we accelerate Project #109 because it makes sense to take care of this project while we are already in that area with Phase II of the Core City project.

Hochstedler asked if the year of the projects is calendar or fiscal to which Halberstadt responded that at this point in time it is whenever we can arrange to have a contractor in

place to do the work. Halberstadt also noted that there is intent to purchase equipment and have city crews do some small projects.

In response to questions, Halberstadt confirmed that Projects numbered 104, 105, 106, 107 and 109 for engineering services are what we need to approve.

Motion by Roberts, second by Burr to recommend that City Council award engineering services to GRP Engineering, Inc. for 2015 projects as follows:

Project #104 PR-B Blue Star Highway: \$16,000  
Project #105 MS-J Lovejoy to Aylworth: \$9,000  
Projects #106 and #107 Capacitor Banks: \$4,500  
Project #109 MS-J St. Joseph Street: \$14,000

All in favor. Motion carried.

## **10. City Engineer Comments**

A. Next Meeting is scheduled for October 27, 2014.

Stickland and Halberstadt are going to the Michigan Municipal Electric Association fall conference tomorrow.

## **11. Board Member Comments**

Roberts asked for information on the SAW grant and Halberstadt explained that the SAW grant provides two things: 1) money for engineering design services for the projects identified in the SRF Project Plan. Halberstadt clarified that the SRF Project Plan is something Abonmarche started working on two (2) to three (3) years ago, to find the sources of infiltration and inflow. Abonmarche found ten (10) to eleven (11) million dollars worth of projects, of which the SAW grant will provide funding to do the engineering design for the projects. And the other part of the SAW is 2) to develop Asset Management Plans for the sanitary and storm sewers. Halberstadt clarified that this will kind of become the five (5) year plan for the storm sewer and sanitary sewer. Hochstedler said we have been awarded the grant and it shows up as revenue when you get it. "As Hochstedler said the city is going to spread the SRF projects through 2022 so the whole town isn't torn up at once. You spend it, you request reimbursement," according to Hochstedler, who also explained, "We didn't put it in our budget this year because we did not know if we were going to be awarded anything." Hochstedler said the city is going to spread the SRF projects through 2022 so the whole town isn't torn up at once.

Roberts asked if there is a time limit on spending the SAW grant money, and if the board needs to get approval from City Council to which Stickland said yes. Halberstadt explained that the city needs to get proposals; the SAW grant is a new program and the state is trying to spread the money around.

Roberts asked if the Board gets to approve the Covert Switch Yard upgrade to which Burr said yes. Discussion ensued regarding collateral for the grant for the switch yard. Burr noted this has been turned over to the city attorney.

Discussion ensued regarding Covert's half million dollar SAW grant to study their system. Rose noted because of the study, Covert now has a better handle on things and noted that the Department of Environmental Quality (DEQ) approved the drainfield for another five (5) years.

Stickland noted that the city will also be looking at major improvements for the wastewater treatment.

Burr noted that the city is taking the SAW grant money for engineering and must take responsibility for corrective action or the grantor can come back and take the money. Halberstadt explained that the Dyckman project will stand as proof that the city is already taking corrective action which allows us to qualify for the SRF low interest loan.

Stickland brought up LED streetlights. Thinks it might be something to think about down the road, saves money, according to the article he read and secondly it's an upgrade of street lighting. When we get the system in shape we might want to get started with something like that. The lighting quality is much better than anything we are doing now, and more efficient, according to the article. Halberstadt said we have them on Williams Street, at the South beach parking lot and on Dewey Lane. The city has been doing some pilots on them. Burr wondered if we should do LEDs on the bridge and Halberstadt responded that the new lights on the bridge will be LED lights. Halberstadt explained that LED lights are not a single bulb, but are an array of diodes that can be distributed where you need them. Discussion ensued regarding the cost savings, efficiency and night sky compliance of LED lighting.

Stickland noted that the City of Battle Creek is going to put in a process to sell sludge to be turned into fuel; they are going to have a demonstration. Discussion ensued with Stickland noting that he is not sure how long we are going to be able to put our sludge onto farmlands and Stein noting that some of the agricultural good practice regulations do not allow sludge to be spread on agricultural lands. Halberstadt noted that one of Mulac's greatest worries is that there will come a point when sludge cannot be put on the land.

## **12. Adjourn**

Motion by Burr, second by Roberts to adjourn at 5:05 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)																					
2014																					
Date	ACTUAL				BILLING			COST				PJM Open Access Transmission Tariff						Total Cost	cts/ KWHR		
	KW Demand	KVAR Demand	KVA	Power Factor	KW Demand	KVAR Demand	KWHR	\$ KW Demand	\$ KWHR	\$ Fuel Charge	\$ Fuel Adjust	Actual Fuel True-up	Sch 1A \$ KWHR	\$ Network	RTO Start-up \$	Other	Credits			Total PJM	
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	\$136.38	\$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>\$482,473.66</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	333	1,559	1,594	0.2091	12,263	1,559	7,522,565	\$201,628.25	\$72,370.09												
Welder	12,263	300	12,267	0.9997	333	300	81,682	\$5,480.12	\$785.81												
Phoenix	8,052	1,097	8,126	0.9909	8,052	1,097	4,995,844	\$132,384.41	\$48,062.02												
Welder	25	40	47	0.5283	25	40	8,502	\$406.12	\$81.79												
<b>Jan-14</b>	<b>20,673</b>	<b>2,995</b>	<b>20,888</b>	<b>0.9897</b>	<b>20,673</b>	<b>2,995</b>	<b>12,608,593</b>	<b>\$339,898.89</b>	<b>\$121,299.71</b>	<b>\$189,771.93</b>	<b>\$53,301.57</b>	<b>\$69,341.54</b>	<b>\$1,080.90</b>	<b>\$92,697.73</b>	<b>\$299.11</b>	<b>\$11,973.87</b>	<b>(\$1,941.22)</b>	<b>\$104,110.39</b>	<b>\$877,724.03</b>	<b>6.961</b>	

Year to Date 2014:

110,144,984

\$7,398,963 6.717

CITY OF SOUTH HAVEN																					
Cost of Electric Energy from Indiana-Michigan Power Company (AEP)																					
2013																					
Date	ACTUAL				BILLING			COST				PJM Open Access Transmission Tariff						Total PJM	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				
Main	11,907	1,617	12,016	0.9909	11,907	1,617	7,149,573	\$195,775.72	\$68,781.75												
Welder	194	142	240	0.8067	194	142	77,825	\$3,183.17	\$748.71												
Phoenix	8,028	1,125	8,107	0.9903	8,028	1,125	4,728,287	\$132,003.77	\$45,488.02												
Welder	9	27	29	0.3015	9	27	6,602	\$141.40	\$63.51												
Dec-13	20,138	2,911	20,347	0.9897	20,138	2,911	11,962,287	\$331,104.06	\$115,081.99	\$180,044.38	\$87,154.83	\$87,350.31	\$1,025.49	\$65,299.25	\$206.53	\$7,985.10	(\$1,106.32)	\$73,410.05	\$874,145.62	7.308	
Main	11,197	1,504	11,298	0.9911	11,197	1,504	6,408,594	\$184,100.75	\$61,653.24												
Welder	140	200	244	0.5729	140	200	52,045	\$2,301.88	\$500.70												
Phoenix	7,429	858	7,478	0.9934	7,429	858	4,189,954	\$122,140.71	\$40,309.03												
Welder	8	25	27	0.3151	8	25	6,556	\$138.11	\$63.07												
Nov-13	18,774	2,588	18,951	0.9906	18,774	2,588	10,657,149	\$308,681.45	\$102,526.04	\$160,400.76	(\$4,289.50)	(\$26,790.13)	\$913.60	\$63,192.82	\$199.87	\$8,177.02	(\$959.43)	\$71,523.88	\$612,052.50	5.743	
Main	11,074	2,312	11,313	0.9789	11,074	2,312	6,466,839	\$182,078.71	\$62,213.57												
Welder	238	179	298	0.7988	238	179	137,692	\$3,908.26	\$1,324.65												
Phoenix	7,999	1,974	8,239	0.9709	7,999	1,974	4,334,232	\$131,512.98	\$41,697.04												
Welder	10	31	33	0.3071	10	31	6,635	\$166.06	\$63.83												
Oct-13	19,320	4,496	19,837	0.9740	19,320	4,496	10,945,397	\$317,666.02	\$105,299.10	\$164,739.18	\$12,395.66	\$26,374.42	\$938.31	\$65,299.25	\$206.53	\$9,067.49	(\$988.26)	\$74,523.32	\$700,997.70	6.404	
Main	15,924	4,583	16,570	0.9610	15,924	4,583	6,856,337	\$261,823.07	\$65,951.08												
Welder	306	273	410	0.7468	306	273	138,670	\$5,037.83	\$1,334.06												
Phoenix	11,887	4,349	12,657	0.9391	11,887	4,349	4,669,743	\$195,441.78	\$44,924.80												
Welder	24	32	40	0.6024	24	32	6,648	\$394.61	\$63.96												
Sep-13	28,141	9,236	29,618	0.9501	28,141	9,236	11,670,398	\$462,697.28	\$112,273.90	\$175,651.17	\$42,092.79	\$3,060.70	\$1,000.47	\$63,192.82	\$199.87	\$9,109.48	(\$917.87)	\$72,584.77	\$868,360.61	7.441	
Main	16,543	4,854	17,240	0.9595	16,543	4,854	7,898,702	\$271,999.92	\$75,988.67												
Welder	287	267	392	0.7314	287	267	113,753	\$4,710.63	\$1,094.34												
Phoenix	11,964	4,370	12,737	0.9393	11,963	4,370	5,525,867	\$196,703.78	\$53,161.05												
Welder	8	17	19	0.4154	8	17	21,391	\$129.89	\$205.79												
Aug-13	28,801	9,508	30,330	0.9496	28,801	9,508	13,559,712	\$473,544.23	\$130,449.85	\$204,087.23	\$8,981.95	(\$35,351.84)	\$1,162.43	\$65,299.25	\$206.53	\$9,643.55	(\$1,020.06)	\$75,291.70	\$857,003.12	6.320	
Main	19,550	6,147	20,494	0.9540	19,550	6,147	8,600,694	\$321,441.35	\$82,742.12												
Welder	122	168	207	0.5882	122	168	72,641	\$2,004.28	\$698.83												
Phoenix	14,385	5,953	15,568	0.9240	14,385	5,953	6,014,292	\$236,521.71	\$57,859.89												
Welder	18	30	35	0.5132	18	30	15,349	\$295.96	\$147.67												
Jul-13	34,075	12,297	36,226	0.9406	34,075	12,297	14,702,976	\$560,263.29	\$141,448.51	\$221,294.49	\$69,969.99	\$72,804.58	\$1,260.44	\$65,299.25	\$206.53	\$8,934.19	(\$1,057.32)	\$74,643.09	\$1,140,423.95	7.756	
Main	14,830	4,272	15,433	0.9609	14,830	4,272	6,741,714	\$243,834.78	\$64,857.99												
Welder	298	322	439	0.6792	298	322	102,884	\$4,901.36	\$989.78												
Phoenix	10,721	3,707	11,343	0.9451	10,721	3,707	4,734,771	\$176,269.67	\$45,550.39												
Welder	19	37	41	0.4645	19	37	14,096	\$315.69	\$135.61												
Jun-13	25,868	8,337	27,178	0.9518	25,868	8,337	11,593,465	\$425,321.49	\$111,533.77	\$174,493.25	\$63,031.35	\$51,836.92	\$770.88	\$54,110.29	\$199.87	\$8,339.01	(\$879.14)	\$62,540.91	\$888,757.69	7.666	
Main	13,029	3,332	13,448	0.9688	13,029	3,332	6,455,809	\$183,239.86	\$78,302.51												
Welder	382	403	555	0.6878	382	403	172,669	\$5,366.82	\$2,094.30												
Phoenix	9,812	3,161	10,308	0.9518	9,812	3,161	4,524,171	\$137,988.94	\$54,873.67												
Welder	19	44	48	0.4065	19	44	15,359	\$272.84	\$186.29												
May-13	23,242	6,939	24,255	0.9582	23,242	6,939	11,168,009	\$326,868.46	\$135,456.78	\$169,279.09	(\$846.54)	(\$20,309.17)	\$742.59	\$55,913.96	\$206.53	\$7,741.19	(\$905.80)	\$63,698.47	\$674,147.09	6.036	
Main	10,379	1,565	10,496	0.9888	10,379	1,565	6,014,325	\$145,970.61	\$72,947.75												
Welder	310	366	480	0.6455	310	366	144,533	\$4,355.62	\$1,753.04												
Phoenix	7,106	1,507	7,264	0.9782	7,106	1,507	4,059,293	\$99,944.76	\$49,235.16												
Welder	21	58	62	0.3419	21	58	15,181	\$296.75	\$184.13												
Apr-13	17,816	3,497	18,156	0.9813	17,816	3,497	10,233,332	\$250,567.74	\$124,120.08	\$155,111.73	\$22,709.81	\$22,668.66	\$680.44	\$54,110.29	\$199.87	\$7,727.55	(\$862.24)	\$61,855.91	\$637,033.93	6.225	
Main	11,123	1,244	11,192	0.9938	11,123	1,244	6,608,087	\$156,434.29	\$80,149.49												
Welder	391	357	529	0.7388	391	357	139,920	\$5,500.43	\$1,697.08												
Phoenix	7,222	917	7,280	0.9920	7,222	917	4,346,681	\$101,570.63	\$52,720.90												
Welder	22	51	55	0.3957	22	51	15,969	\$306.60	\$193.68												
Mar-13	18,758	2,569	18,933	0.9908	18,758	2,569	11,110,656	\$263,811.95	\$134,761.15	\$168,409.77	\$19,466.98	\$32,019.07	\$738.78	\$55,913.96	\$206.53	\$7,727.55	(\$865.41)	\$63,721.41	\$682,190.33	6.140	
Main	11,561	1,160	11,619	0.9950	11,561	1,160	6,250,121	\$162,593.97	\$75,807.72												
Welder	130	305	332	0.3914	130	305	137,266	\$1,825.51	\$1,664.90												
Phoenix	7,514	864	7,563	0.9935	7,514	864	4,148,351	\$105,675.56	\$50,315.35												
Welder	22	45	50	0.4456	22	45	14,696	\$313.63	\$178.25												
Feb-13	19,227	2,374	19,373	0.9925	19,227	2,374	10,550,434	\$270,408.67	\$127,966.22	\$159,918.21	\$744.86	\$9,033.45	\$701.53	\$50,502.94	\$186.55	\$7,727.55	(\$899.26)	\$58,219.31	\$626,290.72	5.936	
Main	7,956	1,231	8,051	0.9882	7,956	1,231	6,835,812	\$111,896.42	\$82,911.57												
Welder	24	351	352	0.0687	356	351	170,192	\$5,006.78	\$2,064.25												
Phoenix	11,518	926	11,555	0.9968	11,518	926	4,535,845	\$161,990.98	\$55,015.26												
Welder	356	46	359	0.9918	24	46	18,216	\$340.35	\$220.94												
Jan-13	19,855	2,554	20,018	0.9918	19,855	2,554	11,560,064	\$279,234.53	\$140,212.02	\$175,221.67	(\$11,764.68)	\$18,342.99	\$768.66	\$55,913.96	\$206.53	\$7,727.55	(\$1,124.11)	\$63,492.59	\$664,739.12	5.750	

Year to Date 2013: 139,713,881 99,226,142 6.604

City of South Haven  
Electric Fund - Fund 582  
For the period ended September 30, 2014

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	1	2	3	4	5	6	7	8	9	10	11	
	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	2014-15 Adopted Budget	% of Annual Budget
<b>Revenues:</b>												
Electric Sales	\$ 1,245,499	\$ 1,146,367	\$ 1,384,512	\$ 99,132	\$ (139,013)	\$ 3,663,382	\$ 3,439,101	\$ 4,165,826	\$ 224,281	\$ (502,444)	\$ 13,756,404	27%
Charges for Service	\$ 9,461	\$ 12,500	\$ 91,527	\$ (3,039)	\$ (82,066)	\$ 17,129	\$ 37,500	\$ 102,685	\$ (20,371)	\$ (85,556)	\$ 150,000	11%
Interest Income	\$ -	\$ 2,500	\$ 2,872	\$ (2,500)	\$ (2,872)	\$ 5,919	\$ 7,500	\$ 9,695	\$ (1,581)	\$ (3,777)	\$ 30,000	20%
Other Revenue	\$ 3,282	\$ 2,500	\$ 4,372	\$ 782	\$ (1,090)	\$ 11,239	\$ 7,500	\$ 34,343	\$ 3,739	\$ (23,104)	\$ 30,000	37%
Transfers In	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
<b>Total Revenues</b>	<b>\$ 1,258,242</b>	<b>\$ 1,163,867</b>	<b>\$ 1,483,284</b>	<b>\$ 94,375</b>	<b>\$ (225,042)</b>	<b>\$ 3,697,669</b>	<b>\$ 3,491,601</b>	<b>\$ 4,312,549</b>	<b>\$ 206,068</b>	<b>\$ (614,881)</b>	<b>\$ 13,966,404</b>	
<b>Expenses</b>												
Purchased Power	\$ 882,627	\$ 800,000	\$ 868,361	\$ 82,627	\$ 14,266	\$ 2,889,494	\$ 2,400,000	\$ 2,865,788	\$ 489,494	\$ 23,706	\$ 9,600,000	30%
Other Operating Expenses	\$ 220,079	\$ 141,833	\$ 100,503	\$ 78,247	\$ 119,576	\$ 503,902	\$ 425,498	\$ 388,403	\$ 78,405	\$ 115,499	\$ 1,701,990	30%
Property Tax Equivalents	\$ 58,235	\$ 58,235	\$ 57,236	\$ -	\$ 999	\$ 174,705	\$ 174,705	\$ 171,707	\$ -	\$ 2,998	\$ 698,820	25%
Energy Optimization Costs	\$ 23,026	\$ 21,800	\$ 21,917	\$ 1,226	\$ 1,110	\$ 69,079	\$ 65,401	\$ 65,990	\$ 3,679	\$ 3,089	\$ 261,602	26%
Capital Outlay	\$ 177,608	\$ 125,250	\$ 6,851	\$ 52,358	\$ 170,757	\$ 364,304	\$ 375,750	\$ 11,271	\$ (11,446)	\$ 353,033	\$ 1,503,000	24%
Transfer Out	\$ 14,025	\$ 14,025	\$ 14,754	\$ (0)	\$ (729)	\$ 42,075	\$ 42,075	\$ 44,262	\$ (0)	\$ (2,187)	\$ 168,301	25%
Depreciation	\$ 45,000	\$ 45,000	\$ 39,510	\$ -	\$ 5,490	\$ 135,000	\$ 135,000	\$ 118,531	\$ -	\$ 16,469	\$ 540,000	25%
Administrative Expenses	\$ 51,597	\$ 62,761	\$ 47,751	\$ (11,163)	\$ 3,847	\$ 155,143	\$ 188,282	\$ 128,810	\$ (33,138)	\$ 26,333	\$ 753,126	21%
<b>Total Expenses</b>	<b>\$ 1,472,198</b>	<b>\$ 1,268,903</b>	<b>\$ 1,156,882</b>	<b>\$ 203,295</b>	<b>\$ 315,316</b>	<b>\$ 4,333,703</b>	<b>\$ 3,806,710</b>	<b>\$ 3,794,763</b>	<b>\$ 526,993</b>	<b>\$ 538,940</b>	<b>\$ 15,226,839</b>	
<b>Net Fund Change</b>	<b>\$ (213,956)</b>	<b>\$ (105,036)</b>	<b>\$ 326,401</b>	<b>\$ (108,920)</b>	<b>\$ (540,358)</b>	<b>\$ (636,034)</b>	<b>\$ (315,109)</b>	<b>\$ 517,787</b>	<b>\$ (320,925)</b>	<b>\$ (1,153,821)</b>	<b>\$ (1,260,435)</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 2012</b>									
July	2011	15,964,582	12,755,514	37,013	52,009	12,792,527	95.31%	80.13%	31
August	2011	14,632,086	15,136,722	42,500	52,092	15,179,222	95.19%	103.74%	31
September	2011	11,307,801	12,319,850	47,553	52,087	12,367,403	95.87%	109.37%	30
October	2011	10,969,854	9,722,952	56,849	52,308	9,779,801	95.46%	89.15%	31
November	2011	10,739,972	10,221,480	61,585	52,280	10,283,065	95.52%	95.75%	30
December	2011	11,617,747	9,798,051	68,085	52,367	9,866,136	95.17%	84.92%	31
January	2012	11,913,417	11,146,773	65,812	52,441	11,212,585	94.66%	94.12%	31
February	2012	10,944,615	10,940,177	58,568	52,236	10,998,745	95.24%	100.49%	29
March	2012	11,050,285	10,825,582	58,568	52,363	10,884,150	95.14%	98.50%	31
April	2012	10,395,921	10,227,215	47,347	52,247	10,274,562	95.46%	98.83%	30
May	2012	11,744,237	10,681,872	44,415	52,218	10,726,287	95.09%	91.33%	31
June	2012	13,267,935	10,895,095	38,072	52,197	10,933,167	93.60%	82.40%	30
		<u>144,548,453</u>	<u>134,671,283</u>	<u>626,367</u>		<u>135,297,650</u>			
<b>FISCAL 2013</b>									
July	2012	17,466,170	14,702,549	38,276	52,303	14,740,825	93.26%	84.40%	31
August	2012	14,358,453	15,845,089	43,385	52,376	15,888,474	93.50%	110.66%	31
September	2012	11,481,145	12,211,557	48,595	52,463	12,260,152	94.22%	106.79%	30
October	2012	10,545,910	9,741,443	54,699	52,284	9,796,142	94.11%	92.89%	31
November	2012	10,466,158	10,312,656	61,617	52,287	10,374,273	94.68%	99.12%	30
December	2012	11,131,795	9,798,623	69,065	52,368	9,867,688	94.46%	88.64%	31
January	2013	11,560,064	10,621,867	68,768	52,615	10,690,635	94.14%	92.48%	31
February	2013	10,550,434	10,544,686	59,658	52,705	10,604,344	94.21%	100.51%	29
March	2013	11,110,656	10,170,132	53,004	52,242	10,223,136	93.95%	92.01%	31
April	2013	10,233,332	9,906,424	48,201	52,313	9,954,625	94.19%	97.28%	30
May	2013	11,168,009	10,537,176	44,120	52,288	10,581,296	94.78%	94.75%	31
June	2013	11,593,465	10,064,318	37,708	52,258	10,102,026	95.35%	87.14%	30
		<u>141,665,592</u>	<u>134,456,520</u>	<u>627,096</u>		<u>135,083,616</u>			
<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	10,865,756	65,878	51,791	10,931,634	94.09%	86.70%	31
February	2014	11,410,071	11,949,560	59,636	51,790	12,009,196	94.64%	105.25%	29
March	2014	11,773,033	10,657,014	54,626	51,925	10,711,640	94.38%	90.98%	31
April	2014	10,374,016	9,787,293	48,541	51,953	9,835,834	94.38%	94.81%	30
May	2014	11,203,732	10,369,284	44,334	51,971	10,413,618	94.63%	92.95%	31
June	2014	12,746,940	10,719,447	39,220	52,097	10,758,667	93.01%	84.40%	30
		<u>143,614,306</u>	<u>132,957,446</u>	<u>625,162</u>		<u>133,582,608</u>			
<b>FISCAL 2015</b>									
July	2014	13,717,651	12,236,191	38,129	52,129	12,274,320	92.93%	89.48%	31
August	2014	14,486,040	12,349,067	42,644	52,154	12,391,711	91.94%	85.54%	31
September	2014	11,824,906	12,987,894	48,696	52,146	13,036,590	92.56%	110.25%	30
		<u>40,028,598</u>	<u>37,573,152</u>	<u>129,469</u>		<u>37,702,621</u>			
Prior Year-to-date		39,933,087	38,408,720	128,878		38,537,598			
Two Years Prior		43,305,768	42,759,195	130,256		42,889,451			

City of South Haven  
Water Fund - Fund 591  
For the period ended September 30, 2014

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Revenues:	Month Actual	Monthly Budget	Prior year MTD	MTD Variance to		YTD Actual	YTD Budget	Prior YTD Actual	Variance to		2014-15 Adopted Budget	% of Annual Budget
				Budget	Prior Year				Budget	Year		
Sales	\$ 363,007	\$ 308,537	\$ 346,006	\$ 54,470	\$ 17,001	\$ 1,080,115	\$ 925,610	\$ 1,061,874	\$ 154,505	\$ 18,241	\$ 3,702,439	29%
Charges for Service	-	6,167	-	(6,167)	-	6,014	18,500	4,035	(12,486)	1,980	74,000	8%
Interest Income	-	167	36	(167)	(36)	167	500	111	(333)	56	2,000	8%
Special Assessment Revenue	-	1,083	-	(1,083)	-	12	3,250	4,805	(3,238)	(4,793)	13,000	0%
Other Revenue	6,049	2,917	7,504	3,133	(1,455)	14,576	8,750	14,300	5,826	276	35,000	42%
<b>Total Revenues</b>	<b>\$ 369,056</b>	<b>\$ 318,870</b>	<b>\$ 353,546</b>	<b>\$ 50,186</b>	<b>\$ 15,510</b>	<b>\$ 1,100,884</b>	<b>\$ 956,610</b>	<b>\$ 1,085,124</b>	<b>\$ 144,275</b>	<b>\$ 15,760</b>	<b>\$ 3,826,439</b>	

Expenses:	1 Month Actual	2 Monthly Budget	3 Prior year MTD	MTD Variance to		6 YTD Actual	7 YTD Budget	8 Prior YTD Actual	Variance to		11 2014-15 Adopted Budget	% of Annual Budget
				4 Budget	5 Prior Year				9 Budget	10 Year		
Operating Expenses	\$ 112,821	\$ 114,641	\$ 105,360	\$ (1,821)	\$ 7,460	\$ 279,859	\$ 343,924	\$ 286,615	\$ (64,065)	\$ (6,756)	\$ 1,375,697	20%
Property Tax Equivalents	12,049	12,049	8,349	-	3,700	36,147	36,147	25,048	-	11,099	144,588	25%
Capital Outlay	614	17,724	93,358	(17,110)	(92,744)	5,911	53,171	96,131	(47,260)	(90,220)	212,685	3%
Debt Service	5,800	218,289	6,425	(212,489)	(625)	5,800	376,600	6,925	(370,800)	(1,125)	1,506,398	0%
Transfers Out	333	404	167	(70)	167	1,000	1,211	500	(211)	500	4,843	21%
Depreciation	47,917	47,917	16,307	-	31,610	143,750	143,750	48,921	-	94,829	575,000	25%
Administrative Expenses	15,581	19,714	14,356	(4,133)	1,225	44,481	59,142	35,977	(14,661)	8,504	236,567	19%
<b>Total Expenses</b>	<b>\$ 195,114</b>	<b>\$ 430,737</b>	<b>\$ 244,322</b>	<b>\$ (235,623)</b>	<b>\$ (49,208)</b>	<b>\$ 516,948</b>	<b>\$ 1,013,945</b>	<b>\$ 500,117</b>	<b>\$ (496,996)</b>	<b>\$ 16,832</b>	<b>\$ 4,055,778</b>	

Net Fund Change	\$ 173,942	\$ (111,867)	\$ 109,224	\$ 285,810	\$ 64,718	\$ 583,936	\$ (57,335)	\$ 585,007	\$ 641,271	\$ (1,071)	\$ (229,339)	
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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 2012</b>								
July	2011	68,313,000	9,132,754	0	190,312	7,441,256	85.55%	81.48%
August	2011	59,907,000	8,008,957	103,610	244,928	7,402,180	84.90%	93.72%
September	2011	50,823,000	6,794,519	19,658	231,936	6,658,175	85.02%	98.28%
October	2011	38,457,000	5,141,310	23,888	231,936	4,862,072	85.07%	95.03%
November	2011	30,875,000	4,127,674	4,273	231,936	3,573,435	85.44%	86.68%
December	2011	30,441,000	4,069,652	17,174	231,936	3,191,493	85.57%	78.84%
January	2012	32,467,000	4,340,508	14,319	68,972	3,074,589	85.44%	71.16%
February	2012	29,495,000	3,943,182	23,262	68,972	3,219,167	85.84%	82.23%
March	2012	30,150,000	4,030,749	38,320	65,764	3,450,952	86.13%	86.57%
April	2012	32,927,000	4,402,005	31,678	68,972	3,378,738	86.74%	77.47%
May	2012	50,646,000	6,770,856	37,087	78,956	4,537,251	86.12%	67.01%
June	2012	72,150,000	9,645,722	41,402	144,360	6,461,594	84.46%	66.99%
		<u>526,651,000</u>	<u>70,407,888</u>	<u>354,672</u>	<u>1,858,980</u>	<u>57,250,902</u>		
<b>FISCAL 2013</b>								
July	2012	97,223,000	12,997,727	42,043	149,172	9,601,173	81.95%	74.19%
August	2012	73,095,000	9,772,059	40,244	227,566	10,549,444	83.36%	108.37%
September	2012	51,928,000	6,942,246	36,348	218,946	7,875,634	84.80%	113.97%
October	2012	37,774,000	5,050,000	27,350	259,447	4,949,605	85.50%	98.55%
November	2012	28,082,000	3,754,278	16,894	255,838	3,275,439	86.15%	87.70%
December	2012	27,941,000	3,735,428	34,835	160,400	3,150,827	86.30%	85.28%
January	2013	29,090,000	3,889,037	35,639	83,007	3,204,712	86.22%	83.32%
February	2013	27,257,000	3,643,984	25,791	72,180	3,368,685	86.69%	93.15%
March	2013	28,716,000	3,839,037	30,416	75,789	2,955,708	87.40%	77.78%
April	2013	27,256,000	3,643,850	38,784	79,398	3,120,869	88.84%	86.71%
May	2013	44,617,270	5,964,876	52,314	342,855	3,962,497	88.14%	66.43%
June	2013	52,158,000	6,972,995	57,485	312,780	5,366,701	91.24%	76.96%
		<u>525,137,270</u>	<u>70,205,517</u>	<u>438,141</u>	<u>2,237,378</u>	<u>61,381,294</u>		
<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	84.35%	81.07%
August	2014	66,789,000	8,929,011	42,246	34,492	7,841,235	83.45%	88.29%
September	2014	44,601,000	5,962,701	36,096	100,277	6,663,068	84.55%	112.35%
		<u>175,706,000</u>	<u>23,490,107</u>	<u>116,845</u>	<u>261,508</u>	<u>21,436,900</u>		
Prior Year-to-date		185,374,000	24,782,620	154,955	517,187	22,146,085		
Two Years Prior		222,246,000	29,712,032	118,634	595,684	28,026,251		

City of South Haven  
Sewer Fund - Fund 592  
For the period ended September 30, 2014

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<i>Revenues:</i>	<i>Month Actual</i>	<i>Monthly Budget</i>	<i>Prior year MTD</i>	<i>MTD Variance to Budget</i>	<i>MTD Variance to Prior Year</i>	<i>YTD Actual</i>	<i>YTD Budget</i>	<i>Prior YTD Actual</i>	<i>Variance to Budget</i>	<i>Variance to Prior Year</i>	<i>2014-15 Adopted Budget</i>	<i>% of Annual Budget</i>
Sales	\$ 246,308	\$ 188,274	\$ 202,245	\$ 58,033	\$ 44,063	\$ 665,834	\$ 564,823	\$ 611,170	\$ 101,010	\$ 54,664	\$ 2,259,293	29%
IPP Revenues	7,817	8,477	3,699	(660)	4,117	24,770	25,431	20,561	(661)	4,209	101,724	24%
Interest Income	-	208	16	(208)	(16)	4	625	48	(621)	(44)	2,500	0%
Special Assessment Revenue	-	1,250	-	(1,250)	-	17	3,750	3,394	(3,733)	(3,377)	15,000	0%
Grant Revenue	-	-	-	-	-	-	-	-	-	-	-	#DIV/0!
Other Revenue	1,154	542	4,346	613	(3,192)	16,350	1,625	4,746	14,725	11,604	6,500	252%
<b>Total Revenues</b>	<b>\$ 255,279</b>	<b>\$ 198,751</b>	<b>\$ 210,306</b>	<b>\$ 56,527</b>	<b>\$ 44,973</b>	<b>\$ 706,974</b>	<b>\$ 596,254</b>	<b>\$ 639,918</b>	<b>\$ 110,720</b>	<b>\$ 67,056</b>	<b>\$ 2,385,017</b>	

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<i>Expenses</i>	<i>Month Actual</i>	<i>Monthly Budget</i>	<i>Prior year MTD</i>	<i>MTD Variance to Budget</i>	<i>MTD Variance to Prior Year</i>	<i>YTD Actual</i>	<i>YTD Budget</i>	<i>Prior YTD Actual</i>	<i>Variance to Budget</i>	<i>Variance to Prior Year</i>	<i>2014-15 Adopted Budget</i>	<i>% of Annual Budget</i>
Operating Expenses	\$ 97,772	\$ 97,697	\$ 84,046	\$ 75	\$ 13,725	\$ 255,875	\$ 293,091	\$ 241,018	\$ (37,216)	\$ 14,858	\$ 1,172,364	22%
Grant Expense-SSSES	-	-	19,436	-	(19,436)	-	-	50,676	-	(50,676)	-	#DIV/0!
Property Tax Equivalents	7,453	7,453	7,453	0	-	22,360	22,360	22,360	0	-	89,441	25%
Capital Outlay	12,181	24,931	2,198	(12,750)	9,983	29,867	74,793	9,583	(44,925)	20,284	299,170	10%
Transfers Out	17,000	17,076	19,917	(76)	(2,917)	51,000	51,229	59,750	(229)	(8,750)	204,915	25%
Depreciation	33,333	33,333	20,379	-	12,955	100,000	100,000	61,136	-	38,864	400,000	25%
Administrative Expenses	21,879	27,642	21,227	(5,763)	652	62,614	82,925	56,398	(20,311)	6,217	331,700	19%
<b>Total Expenses</b>	<b>\$ 189,618</b>	<b>\$ 208,133</b>	<b>\$ 174,656</b>	<b>\$ (18,514)</b>	<b>\$ 14,962</b>	<b>\$ 521,717</b>	<b>\$ 624,398</b>	<b>\$ 500,921</b>	<b>\$ (102,681)</b>	<b>\$ 20,796</b>	<b>\$ 2,497,590</b>	

Net Fund Change \$ 65,660 \$ (9,381) \$ 35,650 \$ 75,042 \$ 30,010 \$ **185,257** \$ (28,143) \$ 138,997 \$ 213,400 \$ 46,260 \$ (112,573)



City of South Haven

## Agenda Item #8

### Unresolved Issues

New items shown in **bold** text.

Completed items shown with single ~~strike through~~ text for one meeting, then double ~~strike through~~ text for the next meeting, then removed from the list.

#### **ACTION ITEMS**

- 3/26/12 – Stickland requested that staff provide the utility policy concerning tampering fees for review at the next meeting. Addressed under agenda item 15 at the April 30, 2012 meeting. MMEA was contacted requesting their assistance in contacting fellow members for their policies regarding meter tampering, disconnection or tampering with service feeders/pipes, theft of service, and unsealed meter showing consumption. No response has been received from MMEA. City staff is contacting fellow IMMMA members plus Holland, Lowell, and Coldwater. Policies have been received from Bluffton, IN; Coldwater, MI; Holland BPW; Lowell Light & Power; Niles, MI; Sturgis, MI; Zeeland BPW. These policies will be compiled and summarized and distributed to staff and the BPU for review and comment. Updating the Public Utilities Rules, Regulations and Policies (and Code of Ordinances) is one of City Council's adopted priorities for 2014-15.
- 4/30/12 – As a result of the tamper fee discussion with a resident, staff was requested to compile a list of electrical and plumbing contractors licensed to work in South Haven for the purpose of sending notification letters concerning the tamper policy. City staff contacted the State of Michigan and Michigan Township services, but they could not provide specific information. City of South Haven Building Services has a bulletin board available for posting notices. Suggestion was made to add it to the building permit form or instructions. Start with the City and then work with the townships.
- 7/28/14 – DPW staff will work together with the finance department to develop policies to ensure that all material, labor, and design engineering services are appropriately billed to a specific project code. The purpose is to ensure that finance can properly capitalize project costs at the end of the fiscal year.
- 8/25/14 – Stickland requested that a fund reserve report be provided as often as possible, preferably monthly, but no less than quarterly.

# City of South Haven, MI



## Electric Outage Report 3rd Quarter 2014

South Haven Electric Distribution System

MONTHLY OUTAGE REPORT

July 2014

#	Date	S/U	General Information	Cause	Time & Duration				Customers		
			Address/Location	Description	#	Ints	T off	T on	Mins	# Out	Cust Min
1	7/1/2014	U	20942 75th St	fuse - Squirrel	4	1	7/1/14 4:40 AM	7/1/14 5:55 AM	75	4	300
2	7/1/2014	U	68310 CR 388	Service Down - Tree Limb	5	1	7/1/14 5:35 PM	7/1/14 6:50 PM	75	1	75
3	7/2/2014	U	200 Block of Brockway Ave	2 Line Fuses Out - Squirrel	4	1	7/2/14 6:45 PM	7/2/14 8:10 PM	85	31	2635
4	7/3/2014	U	19071 Blue Star Mem Hwy	Bad Connection	10	1	7/3/14 6:40 PM	7/3/14 8:05 PM	85	1	85
5	7/5/2014	U	201 Dyckman Ave	Bad Breaker	10	1	7/5/14 10:20 AM	7/5/14 11:45 AM	85	1	85
6	7/5/2014	U	67591 CR 388	Bad Connection	10	1	7/5/14 12:40 PM	7/5/14 1:55 PM	75	1	75
7	7/7/2014	U	77668 Jackson Blvd	Primary Line Down - Tree Down	5	1	7/7/14 4:25 PM	7/7/14 6:45 PM	140	52	7280
8	7/9/2014	U	72200 12th Ave	Fuse - Squirrel	4	1	7/9/14 6:25 PM	7/9/14 7:40 PM	75	5	375
9	7/9/2014	U	801 Francis St	Tree on Primary Line	5	1	7/9/14 6:30 PM	7/9/14 8:15 PM	105	17	1785
10	7/9/2014	U	70 Gabriel Dr & 810 St Joseph St	Line Fuse Out - Tree Down	5	1	7/9/14 8:55 PM	7/9/14 10:45 PM	110	84	9240
11	7/11/2014	U	19026 77th St	Tree on Pole	5	1	7/11/14 7:45 PM	7/11/14 11:55 PM	250	17	4250
12	7/13/2014	U	7223 -	Fuse - Squirrel	4	1	7/13/14 2:50 PM	7/13/14 3:40 PM	50	9	450
13	7/13/2014	U	319 Prospect st	Line & Fuse Out - Squirrel	4	1	7/13/14 5:30 PM	7/13/14 6:55 PM	85	62	5270
14	7/17/2014	U	71861 6th Ave	Line Fuse - tree	5	1	7/17/14 9:45 PM	7/17/14 11:25 PM	100	27	2700
15	7/18/2014	U	02496 67th St	Bad Connection	10	1	7/18/14 11:20 AM	7/18/14 1:40 PM	140	1	140
16	7/19/2014	U	68300 CR 388	Bad Underground Service	2	1	7/19/14 9:30 AM	7/19/14 11:55 AM	145	1	145
17	7/19/2014	U	409 Park Ave	Bad Connection	10	1	7/19/14 5:35 PM	7/19/14 7:15 PM	100	1	100
18	7/21/2014	U	749 North Shore Dr	Bad Connection	10	1	7/21/14 11:40 AM	7/21/14 1:45 PM	125	1	125
19	7/21/2014	U	69 North Shore Dr #13	Bad Connection	10	1	7/21/14 4:45 PM	7/21/14 6:10 PM	85	1	85
20	7/23/2014	U	07725 Blue Star Mem Hwy	Tree Limb on Pole	5	1	7/23/14 6:35 PM	7/23/14 8:10 PM	95	11	1045
21	7/27/2014	U	08620 CR 689	Primary Line Down - Tree Down	5	1	7/27/14 5:30 PM	7/27/14 8:40 PM	190	64	12160
22	7/27/2014	U	65884 16th Ave	Primary Line Down - Tree Down	5	1	7/27/14 11:20 PM	7/28/14 1:50 AM	150	29	4350

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

July 2014

<b>Total Customers this Month</b>	<b>8,140</b>	<b>Days of Month</b>
<b>Total Customer Minutes this Month</b>	<b>363,369,600</b>	<b>31</b>

Outage Totals		
	This Month	This Month Last Year
<b>Unscheduled Outages</b>		
Long # Outages	22	25
# Customers Out	421	462
# Minutes Out	2,425	3052
# Customer Minutes Out	52,755	65865
# Within City System	22	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	22	25
Total Short Outages (Blinks)	0	0
Total Customers Out (Long)	421	462
Total Customers Affected (Short- Blinks)	0	0
Total Customer Minutes Out	52,755	65865
Total Outages Within City System	22	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	0	0	4	2%
2	Bad U/G Cable	1	0	17	7%
3	Lightning	0	3	7	3%
4	Animal Contact	5	10	60	25%
5	Tree Contact	9	7	60	25%
6	Contamination / Foreign Debris	0	0	0	0%
7	Human	0	0	5	2%
8	Other	0	0	3	1%
9	Undetermined	0	0	0	0%
10	Failed Device	7	5	88	36%
	<b>Total</b>	<b>22</b>	<b>25</b>	<b>244</b>	

AT - Annual 12 Month Total

12 Month Outage Statistics		
Index	As of This Month	As of This Month Last Year
ASAI (%)	99.9612	99.7438
CAIDI (Long) (min)	297.83	803.87
SAIDI (Long) (min)	17.01	112.23
SAIFI (Long) (ints/tot cust)	0.06	0.14
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

August 2014

#	Date	S/U	General Information	Cause	Time & Duration				Customers		
			Address/Location	Description	#	Ints	T off	T on	Mins	# Out	Cust Min
1	8/3/2014	U	270 Oak St	Fuse - Squirrel	4	1	8/3/14 6:50 PM	8/3/14 8:00 PM	70	15	1050
2	8/5/2014	U	North Shore Dr N & Blue Star hwy	Line Fuse Squirrel	4	1	8/5/14 5:10 PM	8/5/14 6:25 PM	75	49	3675
3	8/5/2014	U	734 Willow Ave	Bad Connection	10	1	8/5/14 7:20 PM	8/5/14 8:50 PM	90	1	90
4	8/6/2014	U	70416 6th Ave	Secondary Line Down - Tree	5	1	8/6/14 11:15 AM	8/6/14 2:10 PM	175	9	1575
5	8/6/2014	U	Aylworth Ave & Hazel St	Bad Line Cut Out	10	1	8/6/14 6:40 PM	8/6/14 8:05 PM	85	31	2635
6	8/9/2014	U	207 Webster Ave	Fuse - Squirrel	4	1	8/9/14 7:15 AM	8/9/14 8:40 AM	85	17	1445
7	8/13/2014	U	Pinewood Ln & 77th St	Line & Fuse - Squirrel	4	1	8/13/14 11:10 AM	8/13/14 1:20 PM	130	26	3380
8	8/14/2014	U	Monroe St & Maple St	Fuse - Squirrel	4	1	8/14/14 4:25 PM	8/14/14 5:40 PM	75	17	1275
9	8/15/2014	U	930 Blue Star Mem Hwy	Bad Connection	10	1	8/15/14 3:05 PM	8/15/14 4:30 PM	85	1	85
10	8/16/2014	U	532 Dyckman Ave	Bad Connection	10	1	8/16/14 12:30 PM	8/16/14 1:50 PM	80	1	80
11	8/16/2014	U	919 & 921 Hazel St	Bad Service Line	1	1	8/16/14 3:00 PM	8/16/14 5:05 PM	125	2	250
12	8/17/2014	U	06760 CR 689	Bad Underground Service	2	1	8/17/14 5:50 PM	8/17/14 9:10 PM	200	1	200
13	8/19/2014	U	1451 St. Joseph St	Wind & Lightning Storm Primary Down - Trees	5	1	8/19/14 2:25 PM	8/19/14 9:35 PM	430	674	289820
14	8/19/2014	U	CR 338 & 68th St	Tree Down - Primary Down - Broken Pole	5	1	8/19/14 3:55 PM	8/19/14 9:15 PM	320	143	45760
15	8/19/2014	U	6th Ave & Blue Star Hwy	Wind & Lightning Storm Primary Down - Trees	5	1	8/19/14 4:20 PM	8/19/14 10:10 PM	350	79	27650
16	8/19/2014	U	M-140 Hwy & Blue Star Hwy	Wind & Lightning Storm Primary Down - Trees	5	1	8/19/14 5:45 PM	8/19/14 10:10 PM	265	168	44520
17	8/19/2014	U	Van Buren St between Indiana Ave & Kalam	Wind & Lightning Storm - Primary Fuse out	3	1	8/19/14 5:40 PM	8/19/14 9:35 PM	235	76	17860
18	8/19/2014	U	Woodbridge Cricle Dr	Wind & Lightning Storm - Primary Fuse - Trees	5	1	8/19/14 7:25 PM	8/19/14 10:45 PM	200	34	6800
19	8/19/2014	U	Oak St & North Shore Dr	Wind & Lightning - Fuse	3	1	8/19/14 5:50 PM	8/19/14 9:35 PM	225	16	3600
20	8/19/2014	U	687 Phoenix St	Fuse - Lightning	3	1	8/19/14 5:25 PM	8/19/14 10:10 PM	285	18	5130
21	8/19/2014	U	09658 Allen Ct	Service Down - Tree Limb	5	1	8/19/14 5:45 PM	8/19/14 11:10 PM	325	1	325
22	8/19/2014	U	1105 Indiana Ave	Service Down - Tree Limb	5	1	8/19/14 5:40 PM	8/19/14 11:45 PM	365	1	365
23	8/19/2014	U	22100 76th St	Service Down - Tree Limb	5	1	8/19/14 4:30 PM	8/19/14 10:20 PM	350	1	350
24	8/20/2014	U	337 Blue Star Hwy	Fuse - Lightning	3	1	8/20/14 5:20 AM	8/20/14 7:45 AM	145	6	870
25	8/20/2014	U	800 Block of Phoenix St	Fuse - Lightning	3	1	8/20/14 5:15 PM	8/20/14 6:30 PM	75	19	1425
26	8/22/2014	U	71012 M-43 Hwy	Bad Breaker	10	1	8/22/14 4:20 PM	8/22/14 5:45 PM	85	1	85
27	8/24/2014	U	15th Ave & M-140 Hwy	Bad Connection - Primary Neutral	10	1	8/22/14 8:45 PM	8/22/14 10:20 PM	95	18	1710
28	8/25/2014	U	77567 Sheridan Rd	Bad Breaker	10	1	8/25/14 10:50 AM	8/25/14 12:45 PM	115	1	115
29	8/29/2014	U	68300 CR 388	Bad Underground Service	2	1	8/29/14 7:50 AM	8/29/14 11:45 AM	235	110	25850
30	8/30/2014	U	15344 77th St	Bad Connection	10	1	8/30/14 10:15 PM	8/31/14 12:45 AM	150	1	150
31	8/31/2014	U	15389 76th St	Fuse - Squirrel	4	1	8/31/14 7:50 AM	8/31/14 8:45 AM	55	8	440
32	8/31/2014	U	73100 CR 388	Bad Connection	10	1	8/31/14 11:20 AM	8/31/14 2:10 PM	170	1	170
33	8/26/2014	U	11811 Blue Star Mem Hwy	Bad Connection	10	1	8/26/14 12:00 PM	8/26/14 1:40 PM	100	1	100
34	8/27/2014	U	70796 M-43 Hwy	Bad Secondary Line across M-43	1	1	8/27/14 2:20 PM	8/27/14 5:00 PM	160	4	640
35	8/27/2014	U	7365 101st St	Bad Connection	10	1	8/27/14 5:45 PM	8/27/14 8:15 PM	150	1	150
36	8/29/2014	U	03180 CR 687	Car/Pole Accident - 2 Broken Poles & Sec. Line	7	1	8/29/14 4:45 AM	8/29/14 11:40 AM	415	6	2490
37	8/29/2014	U	05800 Block of CR 689	2 Line Fuses - Bad Cut Outs	10	1	8/29/14 10:35 AM	8/29/14 2:10 PM	215	47	10105

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

August 2014

<b>Total Customers this Month</b>	<b>8,140</b>	<b>Days of Month</b>
<b>Total Customer Minutes this Month</b>	<b>363,369,600</b>	<b>31</b>

Outage Totals			
	This Month	This Month Last Year	
<b>Unscheduled Outages</b>			
Long	# Outages	37	24
	# Customers Out	1,605	484
	# Minutes Out	6,790	3280
	# Customer Minutes Out	502,220	103250
	# Within City System	37	24
	# 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	37	24
	Total Short Outages (Blinks)	0	0
	Total Customers Out (Long)	1,605	484
	Total Customers Affected (Short- Blinks)	0	0
	Total Customer Minutes Out	502,220	103250
	Total Outages Within City System	37	24
	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	1	5	2%
2	Bad U/G Cable	2	2	17	7%
3	Lightning	5	3	9	4%
4	Animal Contact	6	8	58	23%
5	Tree Contact	9	3	66	26%
6	Contamination / Foreign Debris	0	0	0	0%
7	Human	1	0	6	2%
8	Other	0	0	3	1%
9	Undetermined	0	0	0	0%
10	Failed Device	12	7	93	36%
	<b>Total</b>	<b>37</b>	<b>24</b>	<b>257</b>	

AT - Annual 12 Month Total

12 Month Outage Statistics		
Index	As of This Month	As of This Month Last Year
ASAI (%)	99.9519	99.7426
CAIDI (Long) (min)	307.49	795.12
SAIDI (Long) (min)	21.07	112.74
SAIFI (Long) (ints/tot cust)	0.07	0.14
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

September 2014

#	Date	S/U	General Information		Cause		Time & Duration				Customers	
			Address/Location	Description	#	Ints	T off	T on	Mins	# Out	Cust Min	
1	9/1/2014	U	65901 8th Ave	Bad House Knob	8	1	9/1/14 10:45 AM	9/1/14 11:55 AM	70	1	70	
2	9/1/2014	U	623 Ravinia Dr	Line Fuse - Tree on Line	5	1	9/1/14 1:20 PM	9/1/14 3:45 PM	145	21	3045	
3	9/1/2014	U	45 North Shore Dr	Bad Connection	10	1	9/1/14 6:50 PM	9/1/14 8:10 PM	80	3	240	
4	9/3/2014	U	749 Phillips St	Bad Connection - Trees	5	1	9/3/14 4:55 PM	9/3/14 6:20 PM	85	1	85	
5	9/3/2014	U	1317 Monroe Blvd	Fuse - Lightning	3	1	9/3/14 7:05 AM	9/3/14 8:20 AM	75	16	1200	
6	9/5/2014	U	72399 12th Ave	Fuse - Lightning	3	1	9/5/14 5:15 AM	9/5/14 8:35 AM	200	14	2800	
7	9/5/2014	U	70940 2nd Ave	Fuse - Lightning	3	1	9/5/14 4:30 PM	9/5/14 6:10 PM	100	9	900	
8	9/6/2014	U	75641 16th St	Primary Down - Trees	5	1	9/6/14 12:10 AM	9/6/14 3:55 AM	225	27	6075	
9	9/6/2014	U	200 Lovejoy Ave	2 Fuses - Lightning	3	1	9/6/14 4:20 AM	9/6/14 6:10 AM	110	1	110	
10	9/6/2014	U	67973 CR 388	Line Fuse - Lightning	3	1	9/6/14 9:30 AM	9/6/14 11:10 AM	100	186	18600	
11	9/6/2014	U	68633 CR 388	Fuse - Lightning	3	1	9/6/14 9:45 AM	9/6/14 11:55 AM	130	11	1430	
12	9/6/2014	U	9920 Blue Star Hwy	Fuse - Lightning	7	1	9/6/14 11:05 AM	9/6/14 3:20 PM	255	4	1020	
13	9/6/2014	U	68th St & CR 388	Car/Pole Accident - Broken Pole	10	1	9/6/14 12:36 PM	9/6/14 4:25 PM	229	96	21984	
14	9/6/2014	U	1020 6th Ave	Bad Connection	4	1	9/6/14 8:00 PM	9/6/14 9:20 PM	80	1	80	
15	9/8/2014	U	16480 77th St	Line Fuse - Squirrel	10	1	9/8/14 3:05 PM	9/8/14 4:40 PM	95	27	2565	
16	9/9/2014	U	11230 M-43	Bad Connection	5	1	9/9/14 5:15 PM	9/9/14 6:45 PM	90	1	90	
17	9/10/2014	U	Ruggles Rd & Blue Star Mem Hwy	2 Line Fuses - Tree on Line on Ruggles Rd	3	1	9/10/14 5:05 PM	9/10/14 8:50 PM	225	162	36450	
18	9/14/2014	U	201 73rd St	Fuse - Lightning	10	1	9/14/14 2:10 AM	9/14/14 4:20 AM	130	1	130	
19	9/15/2014	U	10909 M-140 Hwy	Bad Connection	4	1	9/15/14 2:35 PM	9/15/14 3:50 PM	75	1	75	
20	9/15/2014	U	200 Lovejoy Ave	2 Fuses - Squirrel	0	1	9/15/14 5:50 PM	9/15/14 7:10 PM	80	2	160	
21	9/16/2014	U	M-43 Hwy & Blue Star Hwy	2 Line Fuses - Squirrel	4	1	9/16/14 8:55 AM	9/16/14 10:10 AM	75	182	13650	
22	9/17/2014	U	CR 384 E of Pump.	Bad Cut Out - Burnt Cross Arm - Line Fuse	10	1	9/17/14 2:20 PM	9/17/14 5:30 PM	190	34	6460	
23	9/21/2014	U	314 Abell St	Fuse - Squirrel	4	1	9/21/14 2:45 PM	9/21/14 4:10 PM	85	17	1445	
24	9/21/2014	U	1451 St. Joseph St	Primary Line Down - Tree Down	5	1	9/21/14 4:15 PM	9/21/14 9:30 PM	315	872	274680	
25	9/22/2014	U	Oak St & North Shore Dr	Line Fuse - Squirrel	4	1	9/22/14 9:00 AM	9/22/14 11:10 AM	130	84	10920	
26	9/23/2014	U	812 Lee St	Fuse - Squirrel	4	1	9/23/14 9:30 AM	9/23/14 10:50 AM	80	17	1360	
27	9/23/2014	U	72356 12th Ave	Fuse - Squirrel	4	1	9/23/14 2:00 PM	9/23/14 3:20 PM	80	12	960	
28	9/23/2014	U	72652 CR 380	Fuse - Bad Underground Service	2	1	9/23/14 2:20 PM	9/23/14 5:35 PM	195	4	780	
29	9/24/2014	U	14903 72nd St	Line Fuse - Tree Limb	5	1	9/24/14 6:30 PM	9/24/14 7:45 PM	75	6	450	
30	9/26/2014	U	605 Erie St	Bad Connection	10	1	9/26/14 1:25 PM	9/26/14 2:40 PM	75	1	75	
31	9/29/2014	U	62662 CR 388	Bad Connection	10	1	9/29/14 11:40 AM	9/29/14 1:10 PM	90	1	90	
32	9/29/2014	U	546 Ravinia Dr	Bad Underground Service	2	1	9/29/14 2:50 PM	9/29/14 4:30 PM	100	1	100	
33	9/30/2014	U	526 South Haven St	Bad Connection	10	1	9/30/14 2:20 PM	9/30/14 3:25 PM	65	1	65	
34	9/30/2014	U	Dyckman Ave & Park St	Bad Cutout & Arrestor	10		9/30/14 3:05 PM	9/30/14 6:30 PM	205	47	9635	

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

September 2014

<b>Total Customers this Month</b>	<b>8,140</b>	<b>Days of Month</b>
<b>Total Customer Minutes this Month</b>	<b>351,648,000</b>	<b>30</b>

Outage Totals			
		This Month	This Month Last Year
<b>Unscheduled Outages</b>			
Long	# Outages	33	19
	# Customers Out	1,864	398
	# Minutes Out	4,339	2384
	# Customer Minutes Out	417,779	55547
	# Within City System	32	19
	# Supply to City Minutes	160	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		33	19
Total Short Outages (Blinks)		0	0
Total Customers Out (Long)		1,864	398
Total Customers Affected (Short- Blinks)		0	0
Total Customer Minutes Out		417,779	55547
Total Outages Within City System		32	19
Total Outages in Supply to City		1	0

Number of Outages (by Cause)					
Cause #	Description	Total This Month	This Month Last Year	Rolling AT	% AT
0	Electric Supply Disruption to City	1	0	1	0%
1	Fallen Line / Rotted Pole	0	0	5	2%
2	Bad U/G Cable	2	0	19	7%
3	Lightning	7	1	15	6%
4	Animal Contact	7	3	62	23%
5	Tree Contact	6	5	67	25%
6	Contamination / Foreign Debris	0	0	0	0%
7	Human	1	1	6	2%
8	Other	1	0	4	1%
9	Undetermined	0	0	0	0%
10	Failed Device	9	9	93	34%
<b>Total</b>		<b>34</b>	<b>19</b>	<b>272</b>	

AT - Annual 12 Month Total

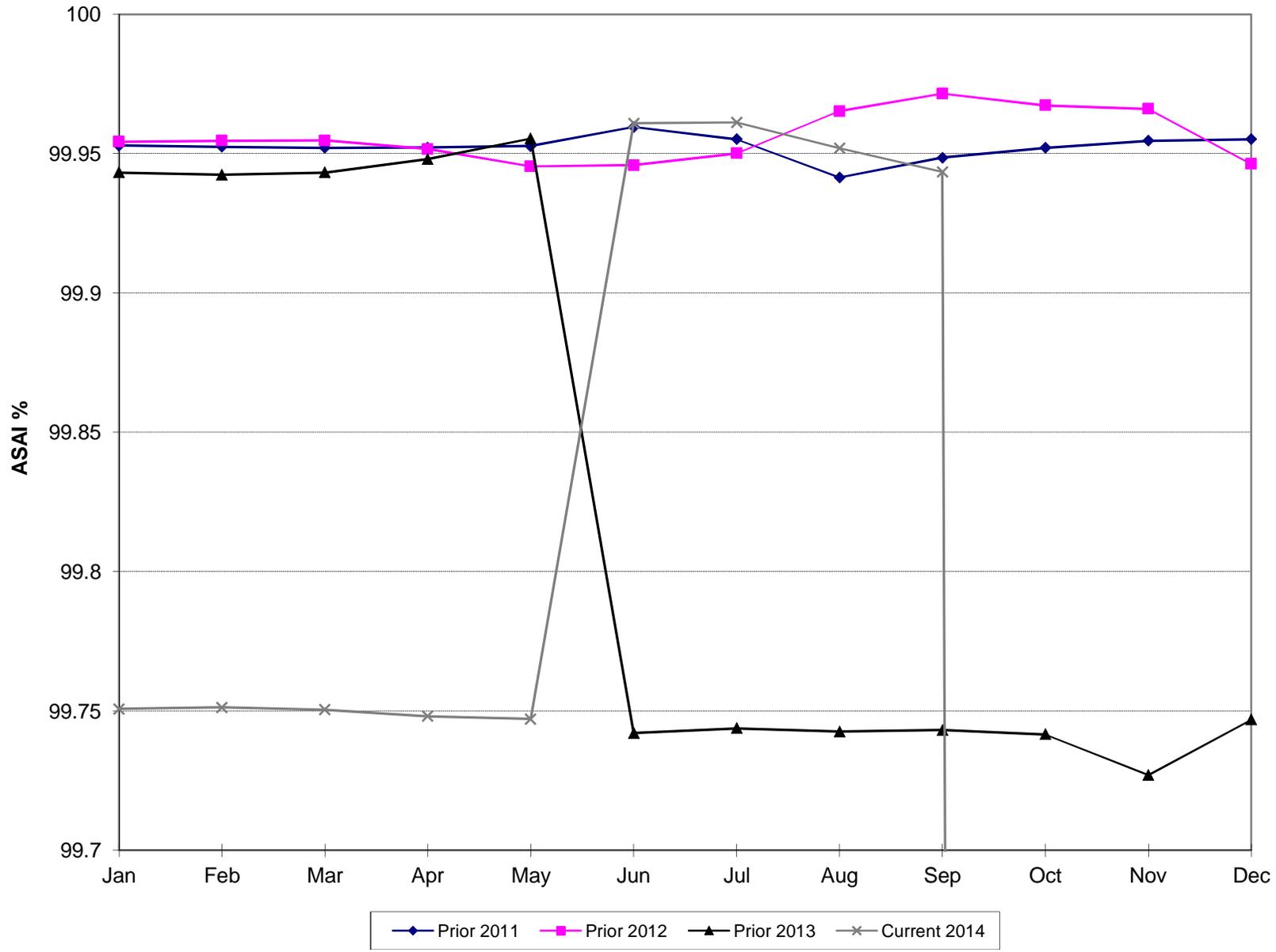
12 Month Outage Statistics		
Index	As of This Month	As of This Month Last Year
ASAI (%)	99.9434	99.7431
CAIDI (Long) (min)	296.70	789.47
SAIDI (Long) (min)	24.78	112.52
SAIFI (Long) (ints/tot cust)	0.08	0.14
SAIFI (Short) (ints/tot cust)	0.00	0.00

- 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

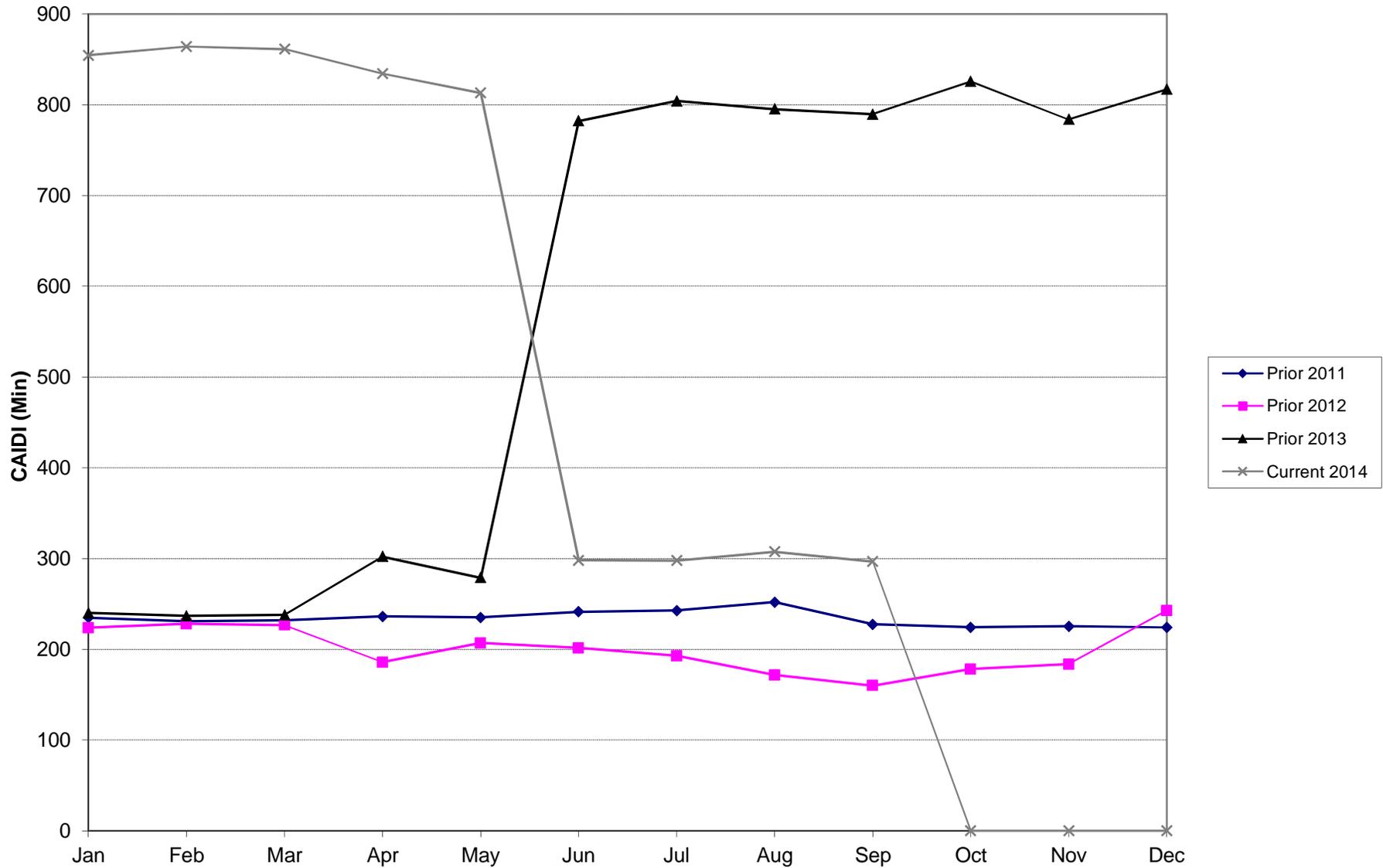


ASAI (Average Service Availability Index)



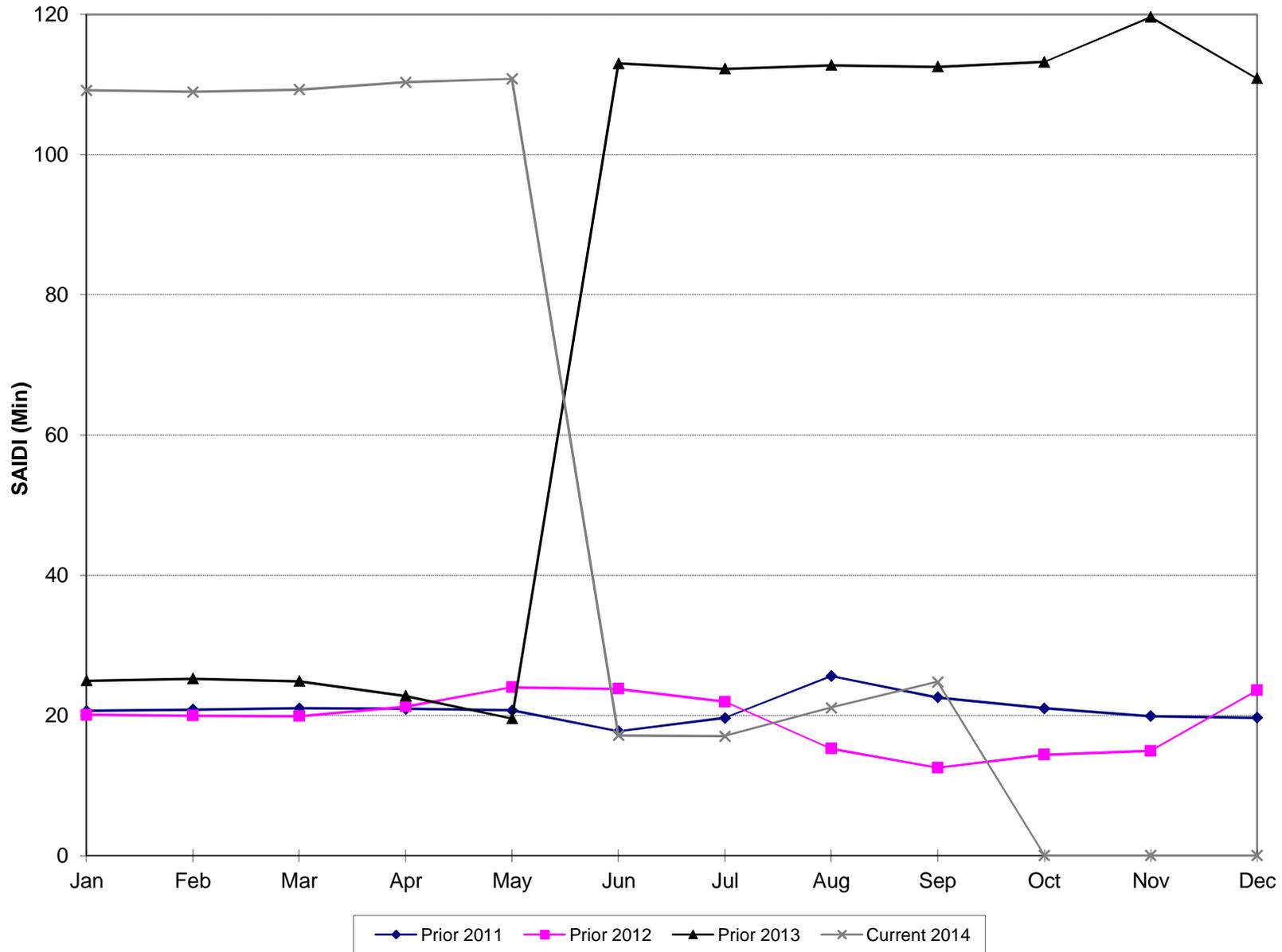
The ratio of the total customer minutes that service was available divided by the total customer minutes demanded (expected) in a time period. It is expressed as a percent.

### CAIDI (Customer Average Interruption Duration Index)



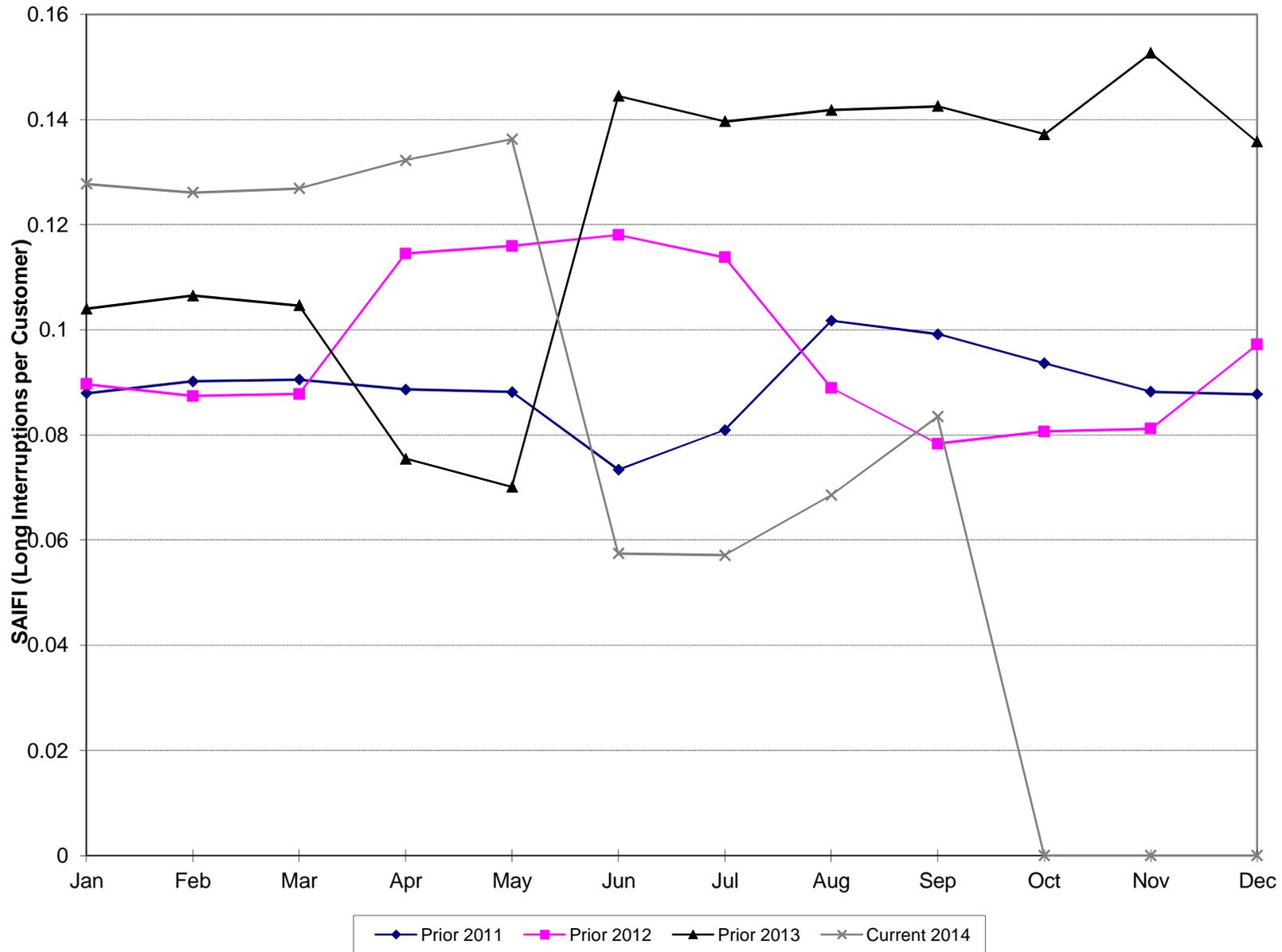
This is the average duration of a customer outage, and is calculated by dividing the sum of the customer minutes off by the number of customers who experienced long interruptions.

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.

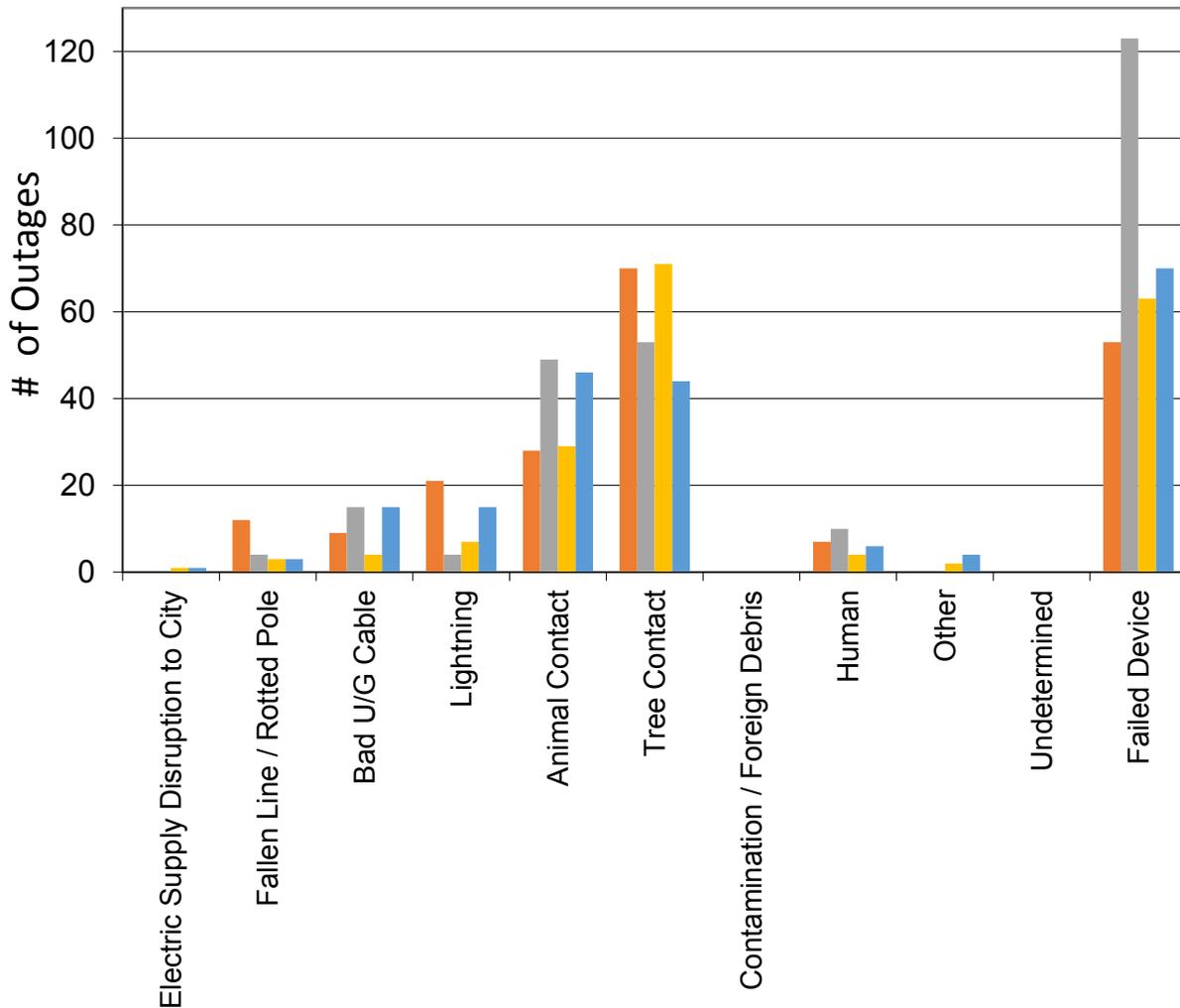
SAIFI (Long) (System Average Interruption Frequency Index for Long Interruptions)



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.

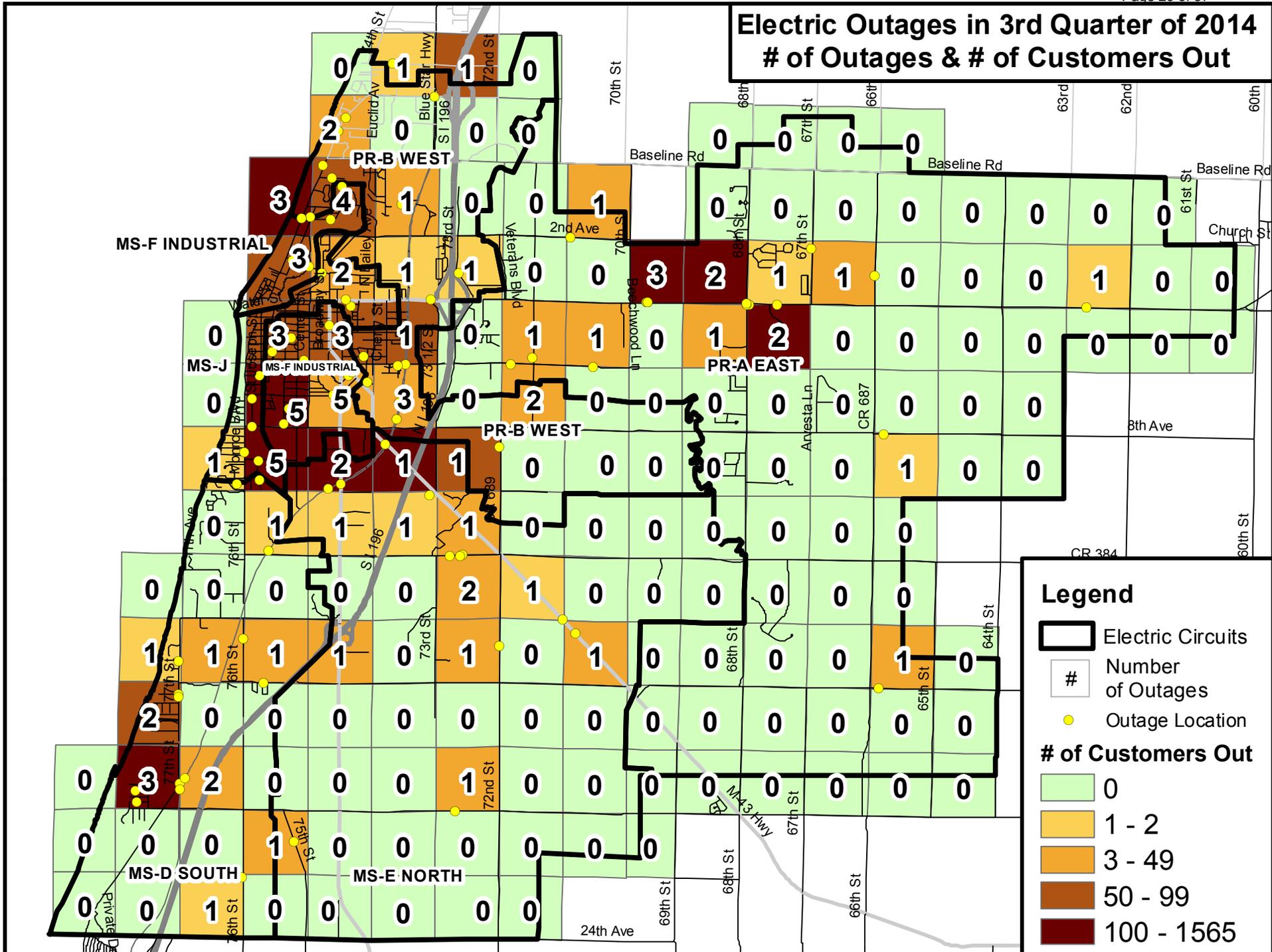
# of Outages - 1st, 2nd & 3rd Quarters	2011	2012	2013	2014	2013-2014
0 Electric Supply Disruption to City	0	0	1	1	0%
1 Fallen Line / Rotted Pole	12	4	3	3	0%
2 Bad U/G Cable	9	15	4	15	275%
3 Lightning	21	4	7	15	114%
4 Animal Contact	28	49	29	46	59%
5 Tree Contact	70	53	71	44	-38%
6 Contamination / Foreign Debris	0	0	0	0	0%
7 Human	7	10	4	6	50%
8 Other	0	0	2	4	100%
9 Undetermined	0	0	0	0	0%
10 Failed Device	53	123	63	70	11%
<b>Grand Total</b>	<b>200</b>	<b>258</b>	<b>184</b>	<b>204</b>	<b>11%</b>

**Outages By Cause - 1st, 2nd & 3rd Quarter 2011-2014**



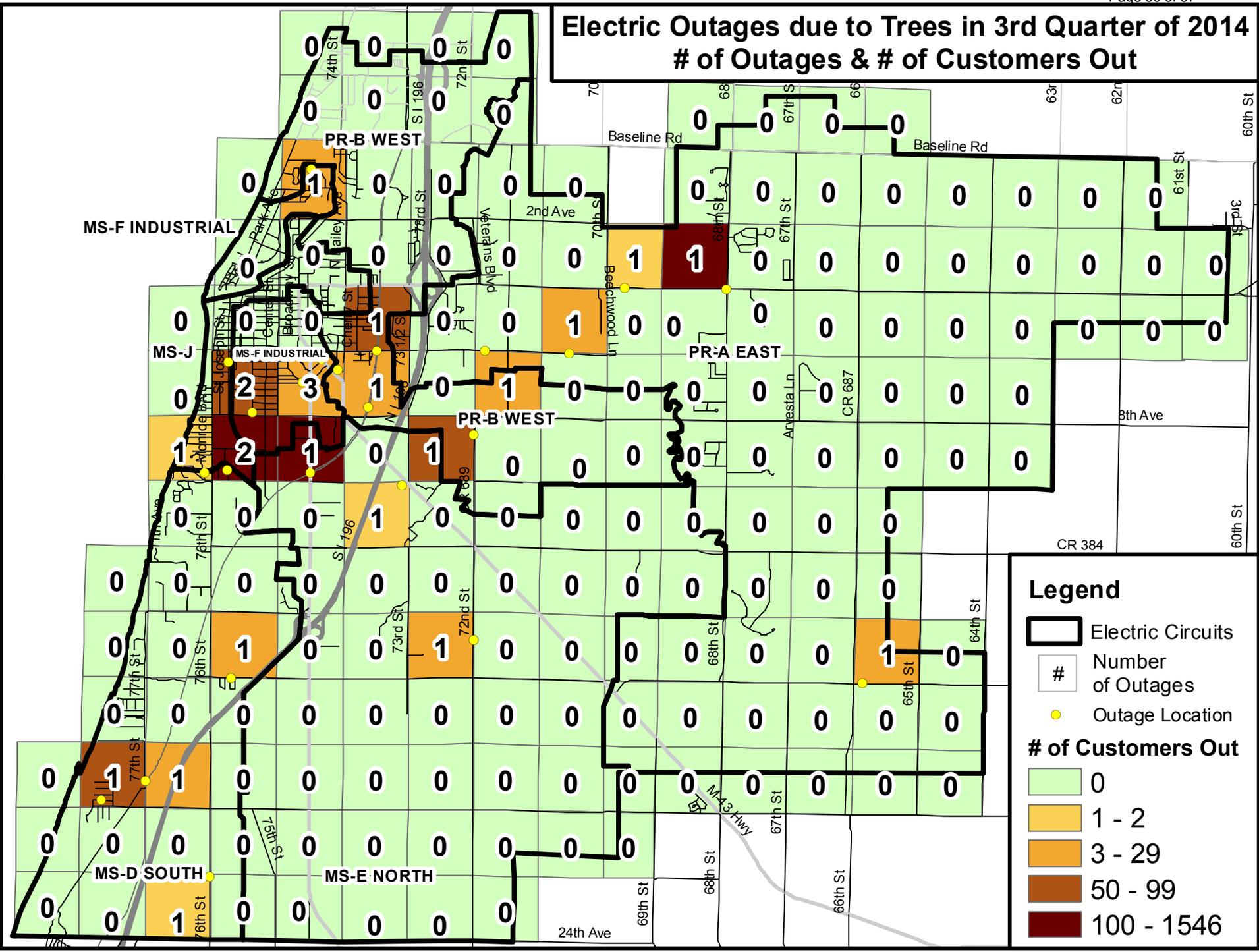
# Electric Outages in 3rd Quarter of 2014

## # of Outages & # of Customers Out



# Electric Outages due to Trees in 3rd Quarter of 2014

## # of Outages & # of Customers Out



### Legend

- Electric Circuits
- Number of Outages
- Outage Location

### # of Customers Out

- 0
- 1 - 2
- 3 - 29
- 50 - 99
- 100 - 1546

# City of South Haven

Transformer Inventory Agreed Upon Procedures

October 16, 2014





**Douglas J. Vredeveld, CPA**

**(616) 446-7474**

**Peter S. Haefner, CPA**

**(616) 460-9388**

## **INDEPENDENT ACCOUNTANT'S REPORT ON APPLYING AGREED UPON PROCEDURES**

October 16, 2014

To management of the  
City of South Haven, Michigan

We have performed the procedures enumerated below for the electric utility transformers held at Power Line Supply located in Reed City, Michigan, which were agreed upon by the of the City of South Haven to verify the existence of the transformers. The agreed upon procedures engagement was performed in accordance with standards established by the American Institute of Certified Public Accountants. The sufficiency of the procedures is solely the responsibility of those parties specified in this report. Consequently, we make no representation regarding the sufficiency of the procedures described below either for the purpose for which the report has been requested or for any other purpose. We performed the following procedures:

- From a listing of transformers provided by City personnel, we verified the existence of each transformer being held at the Reed City location of Power Line Supply.
- We inquired of Power Line Supply personnel whether they are aware of any other transformers held by them which belong to the City of South Haven.

We were not engaged to and did not perform an examination, the objective of which would be the expression of an opinion on the revenues, expenses or internal controls associated with the transformer inventory. Accordingly we do not express such an opinion. Had we performed additional procedures, other matters might have come to our attention that would have been reported to you.

This report is intended solely for the use of the management of the City of South Haven and is not intended to be and should not be used by anyone other than these specified parties. Distribution of this report without the consent of Vredeveld Haefner LLC and approval of management of the City of South Haven is prohibited.

*Vredeveld Haefner LLC*

**City of South Haven  
Inventory Observation  
10/16/14**

We met with Paul Desjardins, an inventory manager with Power Line Supply (PLS) in Reed City, Michigan on the morning of October 16, 2014. We noted South Haven's transformers were segregated in the yard of PLS; Paul noted they are normally all kept on a semi trailer but were unloaded from the trailer for counting.

We compared the listing provided by City of South Haven staff to each transformer noting each serial number agreed to the City's listing. We counted 43 Padmount 25KVA transformers (item WB2A43072Y3AR02) and 7 Padmount 50KVA transformers (item WB2A43072Y5AR02). We noted the original listing indicated 47 of the 25KVA and 9 of the 50KVA transformers on hand. It was indicated on the PLS listing that 4 of the 25KVA and 2 of the 50KVA transformers had been transferred to the City as part of the "Core City" project.

We also noted there are seven additional transformers included on the listing which are held at the South Haven yard. City staff verified those seven transformers were still at the City yard and were marked to indicate they were South Haven's transformers.

Per Paul Desjardins, there are no other South Haven transformers held at PLS of which he is aware.



# City of South Haven

## Department of Public Works

DPW Building • 1199 8<sup>th</sup> Ave. • South Haven, Michigan 49090  
Telephone (269) 637-0737 • Fax (269) 637-4778

### MEMORANDUM

**To:** Roger Huff, DPW Director

**From:** Bill Conklin, Electric Engineer

**Date:** October 21, 2014

**RE:** Station Maintenance Program

### Background Information

Substation maintenance has not always been performed on station equipment on a routine basis. Many years ago, at the Main Substation, an incident involving a combustible gas explosion inside a control cabinet injured a city electric worker who had been standing close to the 12kV oil circuit breaker. After that incident, the city entered into a six year maintenance agreement with Indiana Michigan Power Company (I&M) to maintain electric equipment at the city's substations.

I&M originally installed both city substations. It had workers with the expertise who were able to operate various test sets and who utilized the vehicles and the tankers necessary to work with insulating oil and to maintain station equipment. Therefore, I&M was asked to maintain the equipment on an exclusive basis at a contracted price.

As time went by, I&M's operations and maintenance groups changed and were reengineered. It informed the city in December 2012 that it would no longer be able to maintain the station equipment at city stations as it had done in the past due to an extreme downsizing of its work force. For the past year or so, the city has had to inspect its own stations and has run thermal scans and oil testing of its station equipment to anticipate any problems. The many other testing programs which are normally done by I&M once every three to five years are coming due in the future and cannot be accomplish by existing city electric workers.

On August 1, 2014, bids were sent out to five organizations that specialize in substation maintenance. One company, Premier Maintenance, did not bid. The results of the bid have been tabulated for the remaining four companies with the assumption that at least one test, inspection or maintenance would be performed over the contract period of five years:

	EPS	UIS	Theka	Koontz-Wagner
Main Sub	\$58,115	\$72,081	\$91,510	\$167,933
Phoenix Sub	\$56,283	\$67,905	\$150,007	\$153,895
Marshalling	\$23,650	\$17,280	\$9,000	\$12,500
Per Diem	\$9,420	\$10,500	\$6,600	\$15,000

**Memorandum**

October 27, 2014

Substation Maintenance

Page 2 of 2

<b>Total 5 Yr. Cost:</b>	<b>\$147,468</b>	<b>\$167,766</b>	<b>\$257,117</b>	<b>\$349,328</b>
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GRP recommends that a five-year contract be established with EPS, a large well established maintenance organization with offices in Riverview, Michigan; in Chicago, IL and throughout most of the U.S. The budgeted cost of the program would amount to about \$30,000 per year or slightly more depending upon the maintenance interval selected.

**Recommendation:**

*Make a recommendation to City Council to award the contract to Electric Power Systems, EPS, at the November 3, 2014 regular meeting. If it approves the award of the contract to EPS, it should pass a motion authorizing the City Manager to review and to sign a maintenance agreement with them or with the next lowest bidder should negotiations with EPS not be satisfactory.*

**Benefits:**

Problems that may develop on station equipment may be anticipated and corrected before unplanned outages should occur.

Electrical personnel working in stations on hazardous equipment are ensured through testing programs and by analysis that equipment is in good operating condition and is safe to be around.

EPS would perform the maintenance programs done in the past for about the same amount by I&M Electric.

**Support Material:**

Substation Maintenance – Bid Tabulation

Substation Maintenance – GRP Recommendation Letter

Bid Tabulation

September 29, 2014  
13-0569.01

Mr. Roger Huff  
South Haven DPW  
1199 8<sup>th</sup> Ave  
South Haven, MI 49090

**RE: Substation Maintenance  
Bid Recommendation**

Dear Roger:

GRP Engineering, Inc. has completed reviewing the bids submitted for the 5 Year Substation Maintenance Program. Four of the five bidders solicited for bids replied to the bid request. Electrical Power Systems (EPS) submitted the low evaluated cost for the 5 year program in the total amount of \$147,468.00.

Electrical Power Systems has successfully completed other similar projects in the past for other GRP clients. Therefore GRP Engineering, Inc. recommends that South Haven accept the low bid from EPS.

Please note that the bids submitted were for a 5 year program and will be completed over this time period. Therefore the City of South Haven should plan on budgeting an average cost of \$30,000.00 per year for this program. Each years' cost will be different depending on the scope of services electrical staff elects to have performed by EPS and the cost of inflation.

EPS took no major exceptions to the bid documents. The bid evaluation tabulation is attached to this letter.

Please contact me at 616.942.7183 should you have any questions regarding this evaluation.

Sincerely,  
**GRP Engineering, Inc.**



Robert A. Shelley, P.E.  
Electrical Engineer

## SOUTH HAVEN SUBSTATION MAINTENANCE

	EPS	UIS	Theka	Koontz-Wagner
Main Sub	\$58,115.00	\$72,081.00	\$91,510.00	\$167,933.00
Phoenix Sub	\$56,283.00	\$67,905.00	\$150,007.00	\$153,895.00
Marshalling Cost	\$23,650.00	\$17,280.00	\$9,000.00	\$12,500.00
Per Diem	\$9,420.00	\$10,500.00	\$6,600.00	\$15,000.00
<b>Total 5 yr Cost</b>	<b>\$147,468.00</b>	<b>\$167,766.00</b>	<b>\$257,117.00</b>	<b>\$349,328.00</b>

Notes:

1. Marshalling Costs based on 5 trips. One trip per year.
2. Per Diem Costs based on 5 trips. Each trip included 4 workers for 3 days.