



3 SYSTEM RESILIENCY										
3.1	Maintain low customer outage frequency and duration	Top quartile SAIDI/SAIFI	Q4 Annual	Whitchurch						
3.2	Replace AMP infrastructure	15% of total value of the system	Q2 2020	Whitchurch						
3.3	Improve infrastructure project management workflow	100% of projects within budget and on schedule	Q4 2020	Whitchurch						
3.4	Complete infrastructure for Alameda Point	100% capacity and reliability	2030	Whitchurch						
4 TECHNOLOGY										
4.1	Achieve total AMI deployment	100 % deployment	Q1 2018	Procos						
4.2	Implement automated distribution system	All circuits automated	2025	Whitchurch						
4.3	Establish systems inter-operability	Defined data is 100 % accessible	Q2 2020	Orbeta						
4.4	Maintain sufficient level of cybersecurity	Zero penetration to IT system	Q2 2020	Orbeta						
5 ENERGY RESOURCES										
5.1	Develop alternative energy opportunities	5% local sources	Q4 2017	Irwin						
5.2	Define power procurement plan for 2025	Fully sourced to meet load reqmts	Q4 2018	Irwin						
5.3	Achieve maximum utilization of REC funds	100%	Q4 2020	Irwin						
5.4	Achieve sustainable level of carbon neutral	85%	Q4 2020	Irwin						
6 FINANCIAL & ORGANIZATIONAL STABILITY										
6.1	Meet all bond covenants	Cash on hand = 145 days Bond ratio = 1.75	Q2 Annual	Orbeta						
6.2	Ensure AMP's average rates are competitive	≥ 15% below PG&E	Q4 Annual	Orbeta						
6.3	Ensure mutually-agreeable transfer to City	Adequate funding	Q3 Annual	Orbeta						
6.4	Ensure balanced budget	Cash neutral	Q4 Annual	Orbeta						
6.5	Ensure effective organizational management and a AA bond rating by 2017	AA - bond rating	Q4 2017	Orbeta						

**KRA 1:**  
**CUSTOMER PROGRAMS & EXPERIENCE**

**G 1.1 Ensure that customers have a positive experience**

**I 1.1.9 AMI Deployment Communications Plan**

- *Customer Outreach* – Personalized letters to customers who will receive their meter upgrades during July were developed, printed and mailed. Additionally, staff continues to update the website and FAQs as needed.
- *Internal Outreach* – Two Energy InView kick-off meeting were held in late June to share with all staff the latest happenings in regard to the smart meter installations.

**G 1.2 Increase customer energy efficiency**

I 1.2.2 Implementation of REC Expenditures for Energy Efficiency

- *Residential Energy Audits* – Two energy audits were requested during the month of June.
- *Energy Plus* – AMP's non-residential direct-install program in June focused on selling existing proposals to customers. There are a total of 70 existing proposals that have not been committed by customers. As of June 30, 80 percent of the program goal has been invoiced, installed or committed. The program goal is 3,013,699 kWh/year, and those projects completed and committed total 2,443,541 kWh/year. The program is on track to meet the energy savings goal ahead of the program completion date on December 31, 2017.

12 Alameda Unified School District (AUSD) facilities were retrofitted with energy-efficient LEDs. The facilities targeted were gyms, multipurpose rooms and exterior lighting. AUSD received rebates totaling \$87,834, and the annual energy cost savings are expected to be \$63,137. Due to the long life of the LEDs, the largest savings to AUSD will be the maintenance costs.

- *Summary of Energy Efficiency Programs as of June 30, 2017:*
  - *Refrigerator/Freezer Rebates* – Program savings for January 2017 to present have been updated to reflect the deemed energy savings as prescribed in the Technical Resource Manual. The lower number, roughly half of the claimable savings prior to January 2017, reflects the changing stock of "old" refrigerators that are being replaced today. Customers are generally replacing refrigerators that are circa 1995 or newer, which are far more efficient than models from the 1980s that were used in previous savings models.
  - *Residential Lighting Target* – The annual target for residential lighting energy savings was not met for FY 2017. Part of this is due to the lack of a major lighting program, such as an instant rebates or LED mailings, during the fiscal year. Ultimately, it is the customer's decision to participate in a program. While staff continues to reach out to customers through all available channels, a new marketing campaign is in development to educate customers and entice them to purchase LEDs and receive a rebate through the online rebate portal.
  - *Commercial HVAC Retrofit* – The annual target for the Commercial HVAC Retrofit program energy savings was not met for FY 2017. (However, one application was approved and will be completed in FY 2018.) AMP typically receives only one or two applications per year for HVAC rebates. This is because nearly all HVAC measures have high costs. Moreover, the equipment has a long lifetime and Alameda has a very temperate climate with low air-conditioning needs.

Program	Annual Savings Target kWh/yr	1st Q	2nd Q	3rd Q	4 <sup>th</sup> Q	Cumulative Energy Savings kWh/yr	Percent of Annual Target
Residential Appliances	134,000	24,414	26,006	13,304	6,427	70,151	52%
Residential Lighting	187,000	1,988	5,636	3,026	1,177	11,827	6%
Residential Behavioral	92,000	311,864	364,802	0	0	676,666	736%
Comm Lighting Retrofit	454,000	84,405	315,463	741,916	212,853	1,354,637	298%
Comm HVAC Retrofit	189,000	0	0	0	0	0	0%
Comm Customized	191,000	0	75,936	94,938	958	171,832	90%
<b>TOTAL</b>	<b>1,247,000</b>	<b>422,671</b>	<b>787,843</b>	<b>853,184</b>	<b>221,415</b>	<b>2,285,113</b>	<b>183%</b>

G 1.3 Provide programs that support green Alameda

I 1.3.1 NREL Top 10 Award for Alameda Green

- Staff met with the partnership and marketing team from 3Degrees, the Alameda Green vendor, to review program status and plan for the next 18 months.

The price change, from \$0.015 per kilowatt-hour to \$0.02 per kilowatt-hour, approved at the May Board meeting, will be effective September 1, 2017. The July bill insert will reflect the new pricing.

3Degrees is planning a five-month outreach campaign, starting in early August, with six outreach associates to target 15,000 Alameda homes. They plan to log about 1,300 hours going door-to-door in Alameda. A similar program in 2015 nearly doubled the program participation rate by adding an additional 1,000 participants. 3Degrees and AMP expect similar results from this new promotion.

- Customer service representatives continued their quest to increase Alameda Green enrollment with 39 new sign ups in June. The total number of participants stands at 2,221.

I 1.3.2 EV Promotion Program Defined

- Nine applications for AMP's electric vehicle discount program were received in June, bringing the total number of participants in the program to 496.

I 1.5.6 Safety Outreach Program

- Operations participated in a public safety event with the Alameda Point Collaboration.

Miscellaneous – Economic Development

- Amendments to the Disposition and Development Agreement (DDA) between the City of Alameda and Alameda Point Partners LLC (SRMErnst) related to the development of Alameda Point's Site A were reviewed by the City Council in early July 2017. The intent of the review was to take public input and

assess the viability of restructured development and financing plans and schedules between the parties.

- Bay Ship & Yacht is in the process of acquiring and expanding its operation into two large warehouse buildings currently occupied by BOBEC, a local specialty storage firm. The warehouse properties are adjacent to the current Main Street headquarters and shipyard of Bay Ship & Yacht.
- Safe Harbor Marinas, the largest owner and operator of marinas in the United States, has acquired and is operating the Ballena Isle Marina and surrounding commercial properties. Safe Harbor is in the process of making sizable capital project upgrades to the existing marina and surrounding property with the intent of providing the best possible customer experience and acting as a steward of Alameda's waterways and marine environments. The company operates 14 marinas and 27 ship yards across America.
- According to the latest economic projections from the University of the Pacific's Center for Business and Policy Research, the California economy will continue to grow although the rate of growth will be slower than in recent times. The biggest change to the forecast is a slower rate of population growth, which is a major driver of the California economy. The report projects that California will add about 250,000 new residents per year through 2020 (a 0.6 rate of growth), down from the 350,000 annual population growth rate (just under a 1 percent rate) California enjoyed earlier in this decade. While a declining birth rate, coupled with reduced immigration numbers resulting from new federal policies are significant contributing factors, the major inhibition to population growth, according to the report, is California's housing shortage. This shortage serves to accelerate the displacement of non-labor force residents, such as retirees and families, who are then replaced by high-wage earning residents who can afford the increasing housing costs. As a result, future economic growth will occur in fewer regions of the state, and only where the high-pay employers are located. The report concludes that while state policymakers have limited abilities to influence population growth, by focusing efforts on the related areas they can control, such as the development of less expensive and more diverse housing, they can contribute to continued and broader-based economic growth.

## KRA 2: WORKFORCE

### G 1.3 Provide programs that support green Alameda

#### I 1.3.2 EV Promotion Program Defined

- AMP Staff continued to have talks surrounding the promotion and education of the developing EV Program. Based on the spending plan for the Low Carbon Fuel Standard (LCFS) Credit sales, staff is defining the methods to effectively promote the use of AMP's public charging units.

### G 2.1 Achieve low OSHA incident rate

I 2.1.1 Awareness Training On Use Injuries (2/year)

- Complete

I 2.1.2 Safety Incentive Program

- Two safety incentive awards issued in June.

G 2.2 Maintain zero preventable vehicle accidents

I 2.2.1 Vehicle Specific Training

- Complete

I 2.4.3 Formal Professional Training Curriculum

- AMP staff participated in a City-wide fire evacuation drill.
- Compliance Superintendent attended a 1-day California Utilities Emergency Association Conference in Mather, CA.
- AMP lead workers, supervisors, and managers completed mandatory training on Preventing Workplace Harassment, Discrimination and Retaliation.
- Operations staff completed training on Heat Illness Prevention and Ladder Safety.
- Warehouse and Facilities Maintenance staff completed training on Substation Safety Awareness.
- Operations staff completed training on Bloodborne Pathogens.
- Operations staff completed training on Hearing Conservation and Asbestos Awareness.
- One new employee completed safety orientations and WSP01 (Injury & Illness Prevention Program), WSP02 (Incident Reporting & Investigation Plan), & WSP05 (Fire Prevention & Evacuation Plan) training.

G 2.5 Achieve high employee satisfaction

I 2.5.3 Annual Volunteer Event

- Last fall AMP employees volunteered their time at Alameda Point Collaborative (APC) doing a variety of gardening and painting projects. In May, APC honored AMP at its annual luncheon with its 2016 Civic Partner Award.

I 2.5.5 Internal Communication Plan

Miscellaneous – Economic Development

- Forbes Magazine, in its annual ranking of the best large and mid-size employers in America, named Marina Village Business Park's anchor tenant, Cost Plus World Market, as the 221<sup>st</sup> best mid-size company to work for. Also named to the best mid-size company list was Hawaiian Electric Company at number 48 and Bay Area Rapid Transit (BART) at number 119. The best large employer list includes Pacific Gas & Electric Company at number 242, with Costco Wholesale, Google and Recreational Equipment, Inc. (REI Co-op) named to the numbers 1 through 3 large employer positions.
- KoJa Kitchens will open its newest restaurant in Alameda Landing. KoJa (aka Korean-Japanese) is a special gourmet sandwich infused with a unique combination of Korean & Japanese flavors served on a special crispy garlic rice bun. KoJa Kitchens started as a Bay Area food truck operation in 2011 and has been featured on two Food Network shows. The KoJa

restaurant concept began in 2014 and currently the operation has 10 Bay Area and Central Valley locations, with new stores in Alameda, Cupertino, Westfield Mall in San Francisco, and Los Angeles scheduled to open this year.

- MARAD, an agency of the United States Maritime Administration, has announced plans to relocate the USS Argol and the USS Capella from Alameda Point to San Francisco during June 2017.

### **KRA 3: SYSTEM RESILIENCY**

#### **G 3.1 Maintain low customer outage frequency and duration**

- There were three reportable outages during the month of June.
  - An outage affecting 9 customers occurred on 6/18 and was caused by equipment failure. The location was 1010 High St and the duration was 62 minutes.
  - An outage affecting 130 customers occurred on 6/24 and was caused by mylar balloons. The location was Pearl one pole south east of Buena Vista and the duration was 98 minutes.
  - An outage affecting 138 customers occurred on 6/29 and was caused by animal contacts. The location was the 2100 block of Pacific and the duration was 101 minutes.

#### **G 3.2 Replace AMP infrastructure**

- Operations completed testing on the 115kV battery banks and Jenney and Cartwright Substations.
- Operations completed G.O. 165 distribution inspections for FY17 for a total of 195 miles (65 detailed & 130 visual).

### **KRA 4: TECHNOLOGY**

#### **G 4.1 Achieve total AMI deployment**

##### **I 4.1.1 Pilot Analysis Report**

- Completed

##### **I 4.1.2 Business Case**

- Completed

##### **I 4.1.3 Deployment Implementation**

- Beta deployment completed. ~2000 meters deployed (4 routes) along with 8 collectors and 19 routers. Full deployment to begin in July 10th.

#### **G 4.2 Implement automated distribution system**

##### **I 4.2.1 GIS Implementation**

- Data migration engagement completed. AMP is continuing data quality assurance and geometric network development.

##### **I 4.2.2 Upgrade System Ops**

- System Operations implemented a new dashboard program which consolidates the System Operator's Daily Log, outage notification/activity reporting and daily weather report. The dashboard allows employees to access it directly to obtain real time information versus next day reporting.

**G 4.3 Establish systems inter-operability**

**I 4.3.1 IVR to Cloud**

- In progress.

**I 4.3.5 VOIP Phones**

- Completed

**I 4.3.6 Northstar Upgrade**

- Completed Jan 2017

**I 4.3.7 Core Switch**

- In progress

**I 4.3.9 Single sign on for SCADA**

- Completed

**G 4.4 Maintain sufficient level of cybersecurity**

**I 4.4.1 Cloud Disaster Recovery**

- Research phase

**I 4.4.2 Core switch for MAN (Municipal Area Network)**

- In progress

**I 4.4.3 Security Assessment**

- Completed

**I 4.4.4 Security Plan Implementation**

- Security plan has been developed. Implementation is on-going.

**KRA 5:**  
**ENERGY RESOURCES**

**G 5.1 Develop alternative energy opportunities**

**I 5.1.1 Energy Storage Analysis**

- Energy Resources Planning (ERP) staff attended the Power Association of Northern California luncheon with a focus on utility energy storage adoption.
- Current ERP initiatives include an analysis of battery storage as a behind-the-meter tool for load balance and reliability, as well as better utilization of generation.

**I 5.1.2 DG / EV Rate Structures**

- Effective July 1, 2017, AMP's Level 3 Electric Vehicle charging rates decreased to \$.30/kWh from \$.45/kWh. The two charging stations located in the parking lot of AMP's Service Center (2000 Grand Street) are available for public use.

**G 5.2 Define power procurement plan for 2025**

**I 5.2.3 Acquisition of Resources**

- Hydro Status:
  - On June 7 snowpack for Central Sierra was 202 percent of average.
  - Actual October-May rainfall at Calaveras (Collierville and New Spicer Meadows hydro facilities) was 98.58" compared to its average wet



- year rainfall of 51.85"
- o As of May 31, storage at New Spicer Meadows (Spicer) was 189,362 acre-feet (a full reservoir), whereas the average end-of-May Spicer storage has been 136,446 acre-feet. On May 29 Spicer began spilling water which it plans to continue into July since an average year of snow remained on the ground.
- o Collierville Unit 2 stator found a ground fault issue and unit taken out of service for analysis. Rather than replace the stator immediately, it was found that a partial repair would allow the generator to work for the remainder of the year and continue to receive \$75K per day. It will cost \$1M to repair and \$2-3M in lost generation while the generator is out. Ordering of parts can take up to 18 months.
- o NCPA started a \$1,233,000 physical security program (cameras etc) for the plants that will finish by December. The costs for AMP for CT1 and STIG are \$64,000.
- o Shasta Lake is now a member and reviewing NCPA's proposal to provide scheduling services for its resources.
- o Merced Irrigation District is moving toward NCPA beginning scheduling services on July 1. PCWA is setting up similar processes for NCPA to provide its scheduling by the end of the year. Finally, the Sierra Valley Energy Authority community choice aggregation is also reviewing NCPA doing its scheduling services.
- o A procedure for allocating any non-member revenue would be 10% for allocation of A&G costs and the remaining 90% via the Nexant model.
- o The slide at Adit 4 is being repaired and will be completed by Nov 15<sup>th</sup>.
- o Permits for cleaning out the silt and vegetation at the Beaver Creek Reservoir are being procured. Repair is expected to cost between \$1M and \$2.5M due to the amount of materials that have filled the reservoir.

#### G 5.3 Achieve maximum utilization of REC funds

##### I 5.3.1 Maximum REC Utilization Defined

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##### I 5.3.2 Allocation of Major Funds Accounts

- ERP Staff received interest in AMP's sale of Low Carbon Fuel Standard (LCFS) Program credits. Due to the market's illiquid state, staff anticipates between \$120,000 and \$150,000 in revenue to facilitate the developing EV Program and LCFS Credit spending plan.
- Staff also calculates that the City of Alameda's jurisdiction is to grow in terms of EV registrations through the Department of Motor Vehicles. Due to this increase along with AMP's EV charging stations, the LCFS Program should provide an increase of annual credit allocation per year, yielding the potential to realize additional funds to strengthen the EV Program and/or spending plan. This spending plan is to be defined and presented at the September Board meeting.

#### G 5.4 Achieve sustainable level of carbon neutral

##### I 5.4.1 Carbon Neutral Cost Model

- The following annual Greenhouse Gas (GHG) Emissions-related compliance reports were filed with the California Air Resources Board (CARB) and the California Energy Commission (CEC):
  - Mandatory GHG Emissions Report – AMP reported CY 2016 retail sales of 341,835 MWh
  - Use of Allocated Allowance Value Report – Information on the amount of proceeds from the sale of AMP's freely allocated allowances in the Cap-and-Trade (C&T) auctions, how the proceeds have been spent, and how the expenditures comply with CARB's expenditure criteria is included in this report.
  - AMP received \$706,375 from the CY 2016 C&T auctions
  - AMP spent 38,457 from May 2016 through April 2017 - \$14,740 on the My Energy program, which provides approximately half of AMP's residential customers with a Home Energy Report and energy efficiency tip library, and \$23,717 on the design and development of engineering specifications for replacing AMP's sulfur hexafluoride (SF<sub>6</sub>) circuit breakers. Per the [www.epa.gov](http://www.epa.gov) website *The Environmental Protection Agency has identified SF<sub>6</sub> as a GHG with a global warming potential 23,900 times the effect of an equal mass of carbon dioxide and an atmospheric lifetime of 3,200 years.* Three of AMP's eight breakers are scheduled to arrive and be installed this summer. The total estimated four-year cost for this project is \$1.1 million.
  - Unspent proceeds total \$1,876,581 (the \$1.1 million expenditure is not yet reflected in this total)
  - Power Source Disclosure Report – In CY 2016 AMP's customers received energy comprised of 20 percent California eligible renewable resources, approximately 20 percent renewable resources for a total of 40 percent renewable resources, and 60 percent unspecified resources (market purchases). This report forms the basis for the Power Content Label which will be released in late summer or early fall per the CEC's direction.
  - **The SB 1 Report (CRD) and SF<sub>6</sub> Report (E&O) should be added to this section**
- The 2017 Quarterly 1 report for the LCFS Program through CARB was filed indicating that AMP's generation through the EV level 3 chargers calculated 2,082 kWh during January – March 2017.
- Staff made changes to the LCFS Annual Report for 2016 in light of the recent changes by CARB that identified a miscalculation of EV credit value. This adoption provided an additional banked 678 credits to AMP.

**KRA 6:**  
**FINANCIAL & ORGANIZATIONAL STABILITY**

G 6.1 Meet all bond covenants

- I 6.1.1 Long-Range Financial Forecast
  - Constant updates and reviews
- I 6.1.2 AMP Financial Policy Review
  - To be done
- I 6.1.3 5 Year Capital Requirements Analysis
  - Completed with FY2018 Budget
- G 6.2 Ensure AMP's average rates are competitive
  - I 6.2.1 Comprehensive Rate Design Plan
    - Completed April 2017
- G 6.3 Ensure mutually-agreeable transfer to City
  - I 6.3.1 Long-Range Financial Forecast
    - Included in FY2018 Budget
  - I 6.3.2 Alameda Point Financial Plan
    - In process
- G 6.4 Ensure balanced budget
  - I 6.4.1 Long-Range Financial Forecast
    - Included with FY2018 Budget
  - I 6.4.2 5 Year Capital Requirements Analysis
    - Included with FY2018 Budget
- G 6.5 Ensure Effective Organizational Management
  - I 6.5.1 Create & Implement PUB Governance Workshops
    - In progress
  - I 6.5.2 Develop Business Model Reflecting 2020 Needs
    - In progress
  - I 6.5.3 Create Partnerships with City Depts
    - Constant partnerships being developed

KEY PERFORMANCE MEASURES

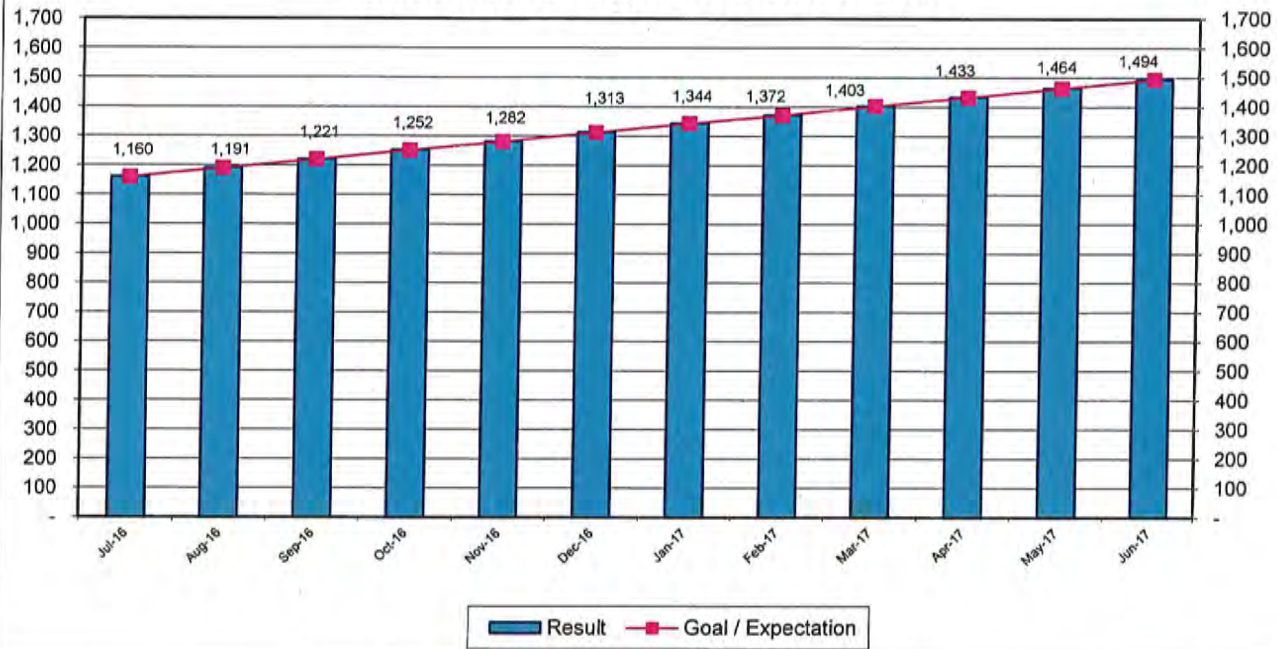
AGENDA ITEM NO.: 7.A.12  
MEETING DATE: 07/17/2017

<i>Report Status as of:</i>				
<i>June 30, 2017</i>	Monthly		Annual (FY) To Date	
	Goal	Result	Goal	Result
Consecutive Working Days Without a Lost Time Accident (LTA)	30	30	1,494	1,494
Safety and Mandated Training Hours	88	132	823	671
Average Speed of Answer (seconds)	40	32	40	38
Call Volume (# of calls)	5,500	5,975	66,000	71,207
Inspection Miles - Detailed & Visual	20	19	195	194
Outage Minutes/Customers SAIDI	2.29	0.81	37.29	17.25
Total Operating Revenue - Electric (May 2017)	4,896,929	5,044,647	57,147,585	57,293,564
Total Operating Expense - Electric (May 2017)	4,197,868	3,941,664	49,200,323	45,249,642
Note: Shaded areas indicate the data is displayed on the accompanying graphs				

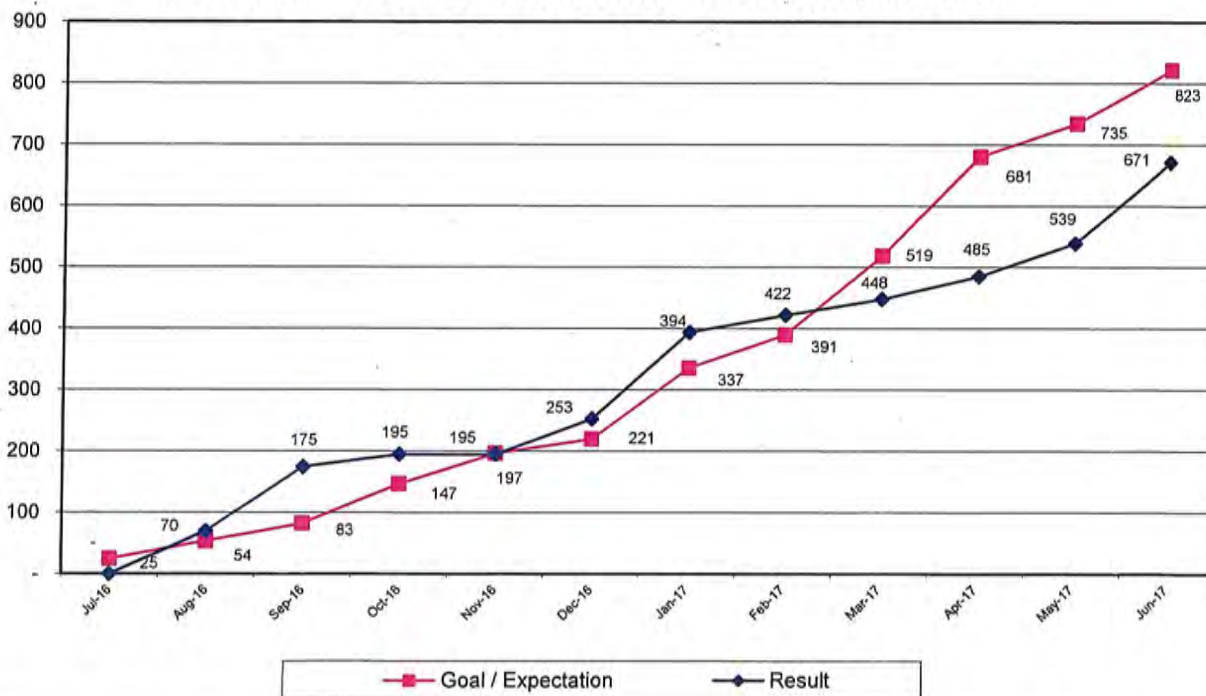
# KEY PERFORMANCE MEASURES

AGENDA ITEM NO.: 7.A.13  
MEETING DATE: 07/17/2017

## Consecutive Days without a LTA



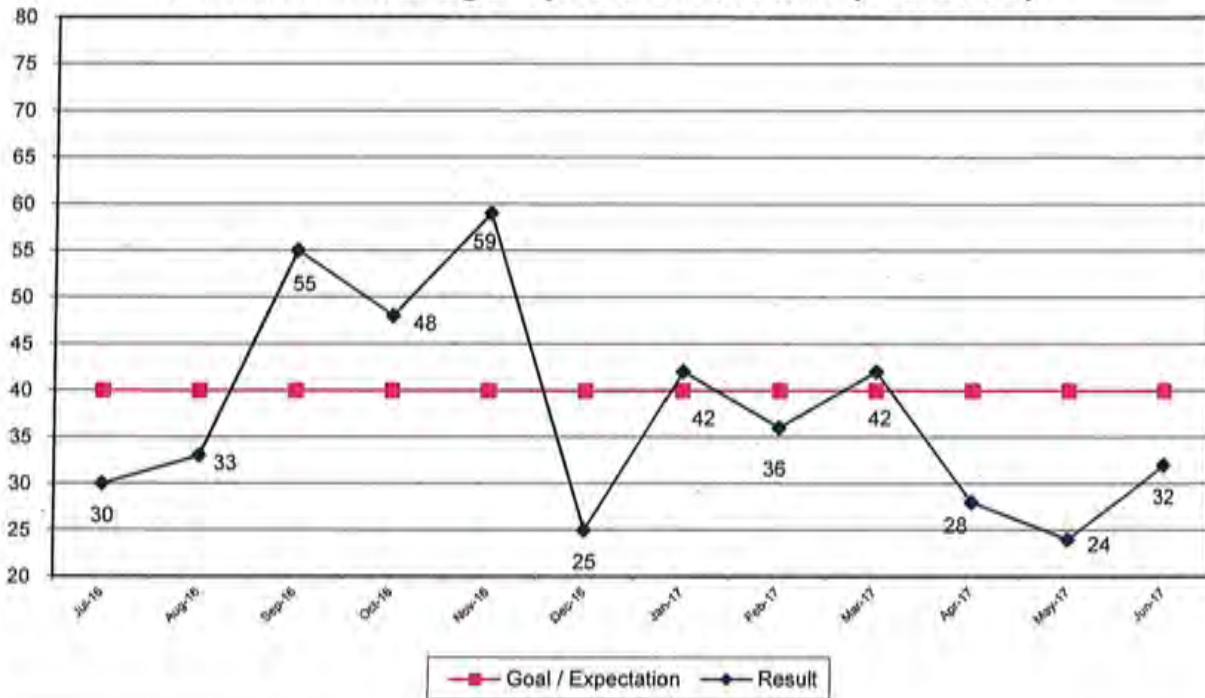
## FY 2017 - Safety & Mandated Training Hours



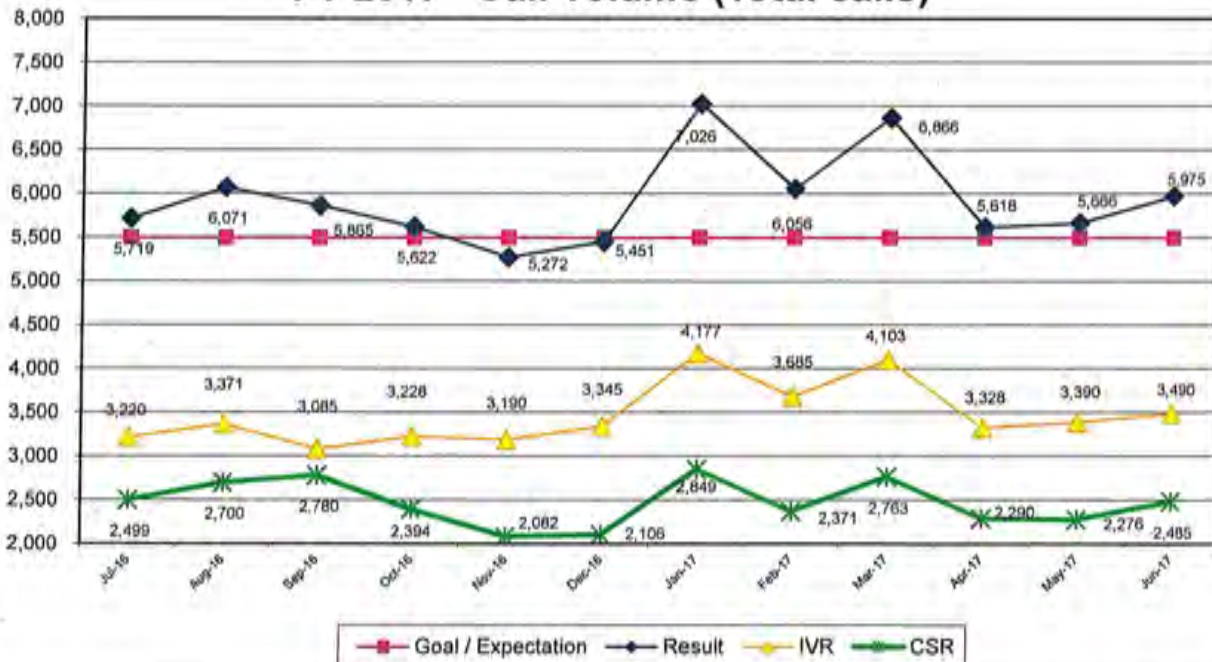
KEY PERFORMANCE MEASURES

AGENDA ITEM NO.: 7.A.14  
MEETING DATE: 07/17/2017

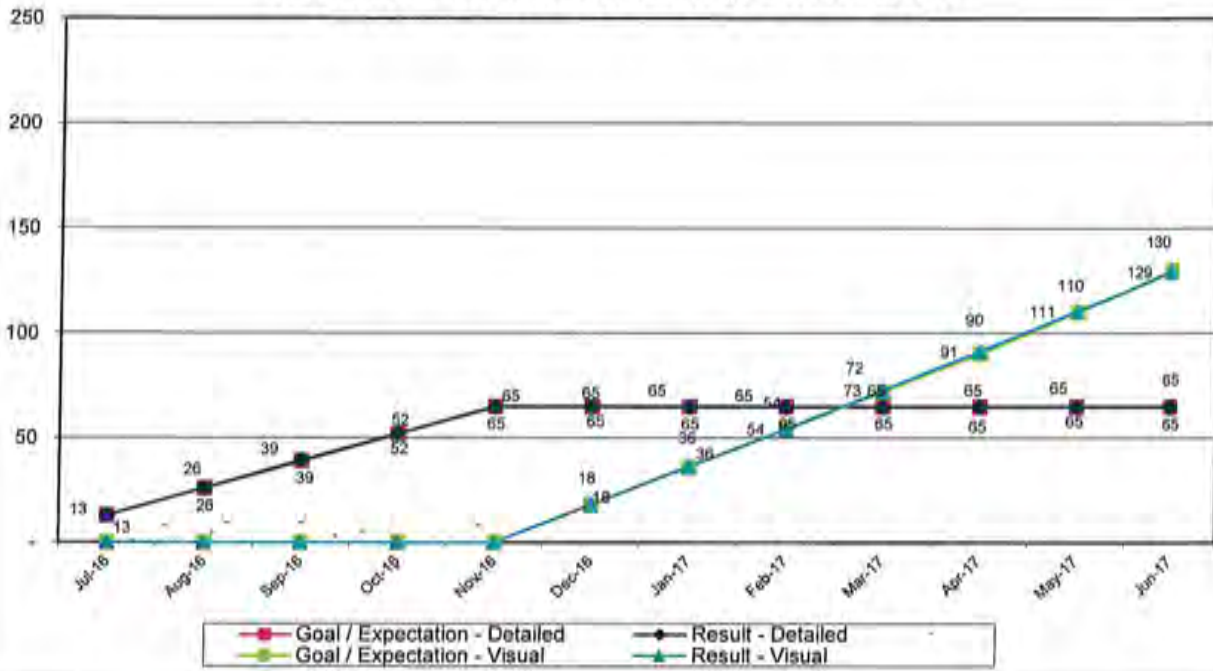
FY 2017 - Average Speed of Answer (seconds)



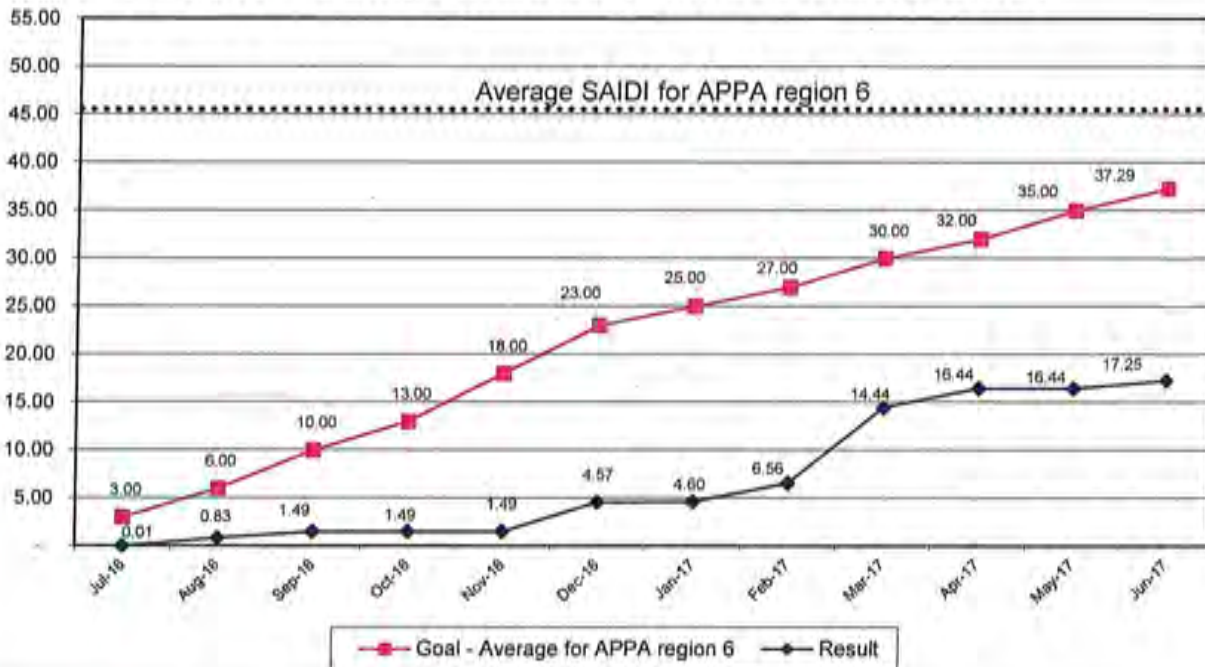
FY 2017 - Call Volume (Total calls)



FY 2017 - Distribution Inspection Miles

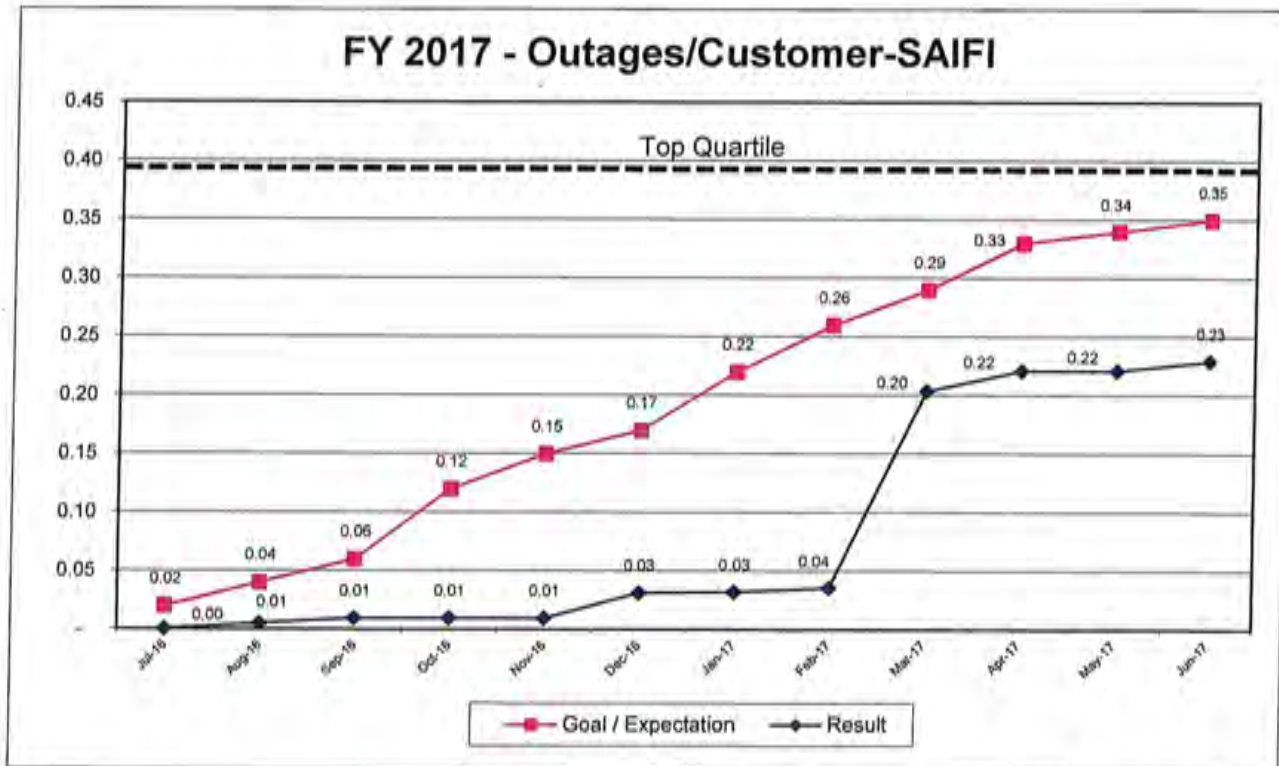
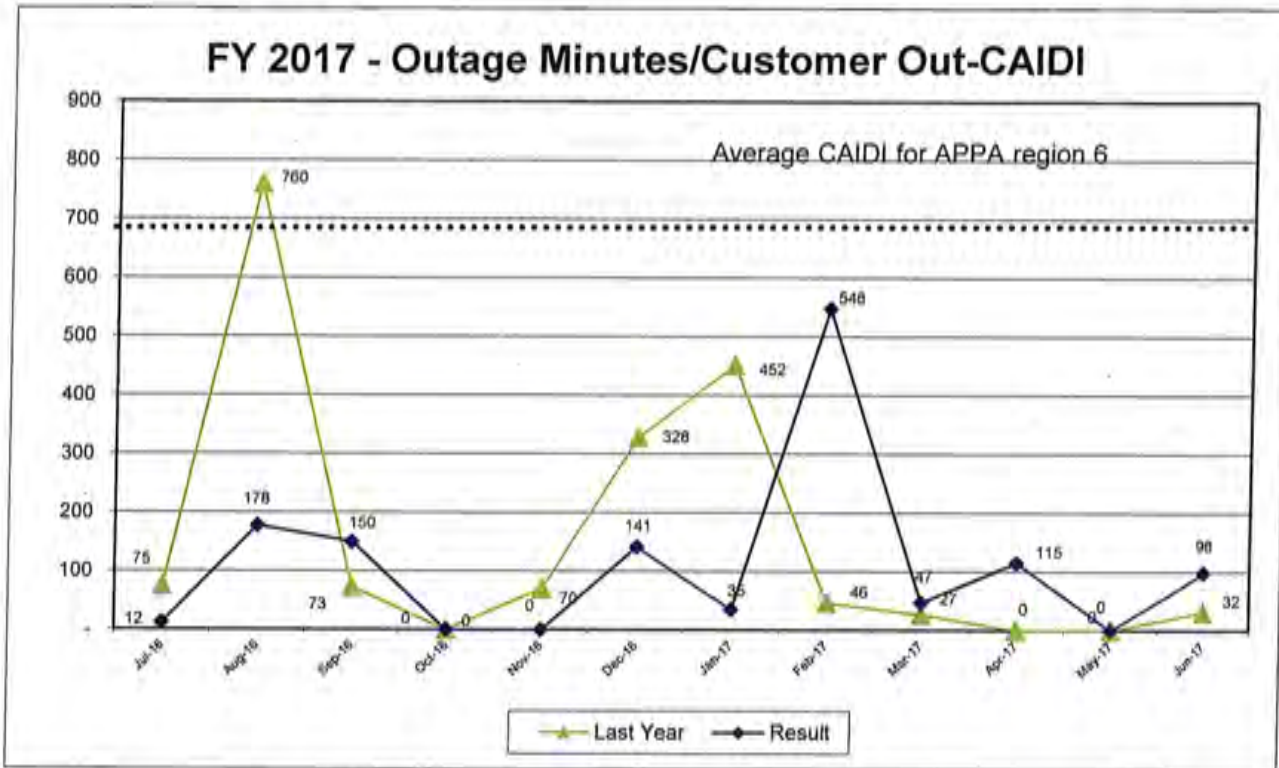


FY 2017 - Outage Minutes/Total Customers-SAIDI



KEY PERFORMANCE MEASURES

AGENDA ITEM NO.: 7.A.16  
MEETING DATE: 07/17/2017



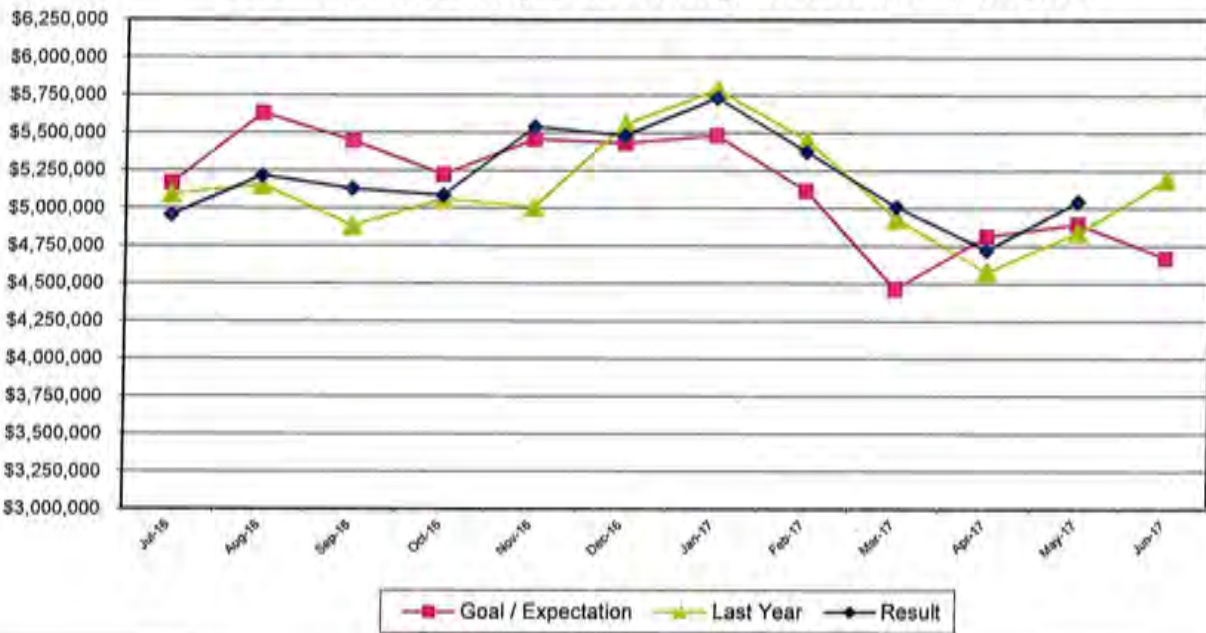


KEY PERFORMANCE MEASURES

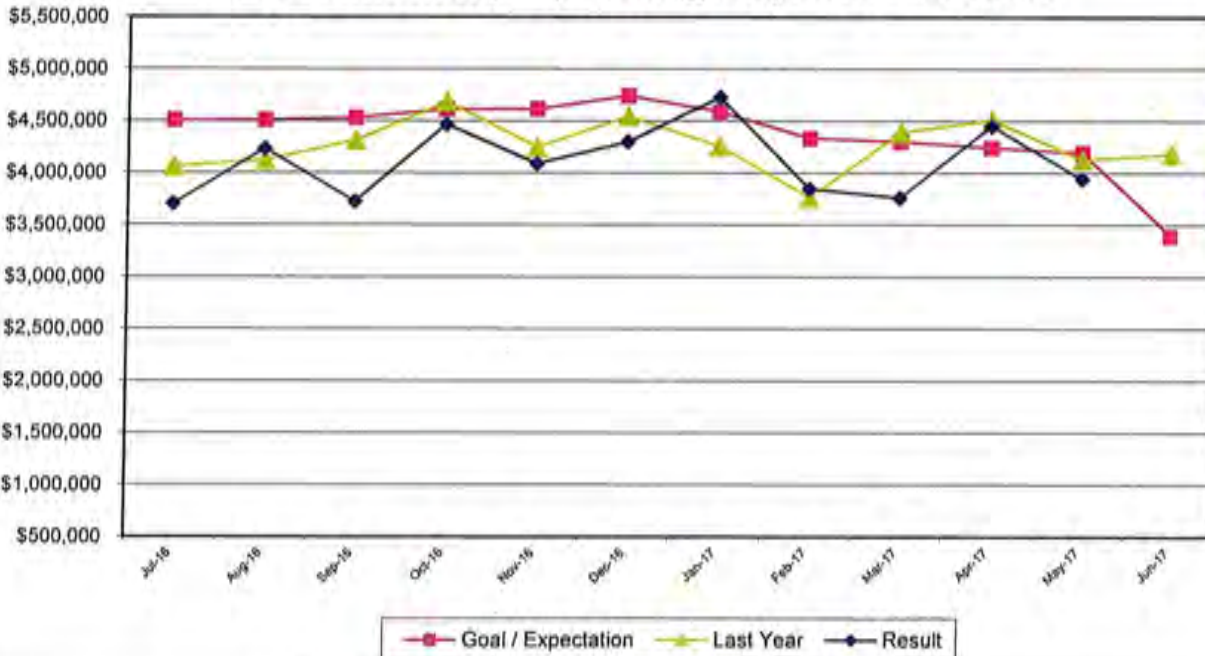
AGENDA ITEM NO.: 7.A.17

MEETING DATE: 07/17/2017

**FY 2017 Monthly Operating Revenue - Electric**

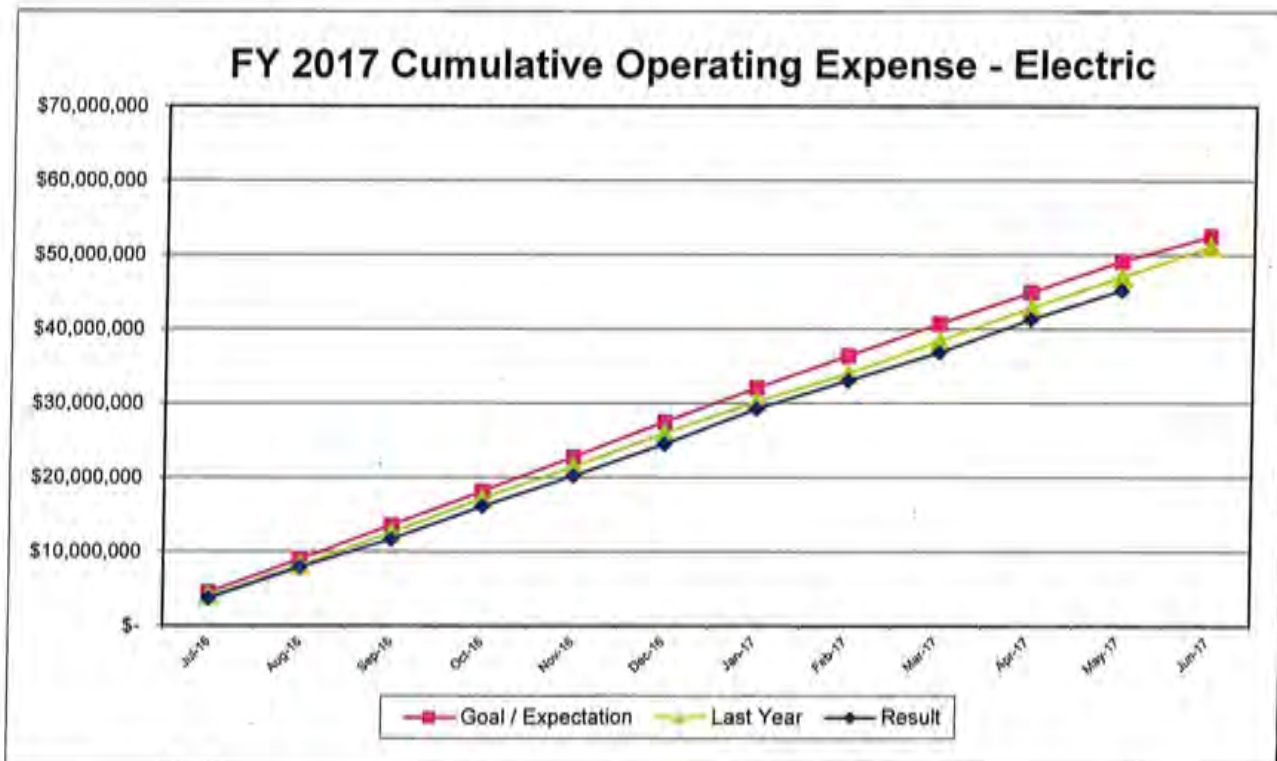
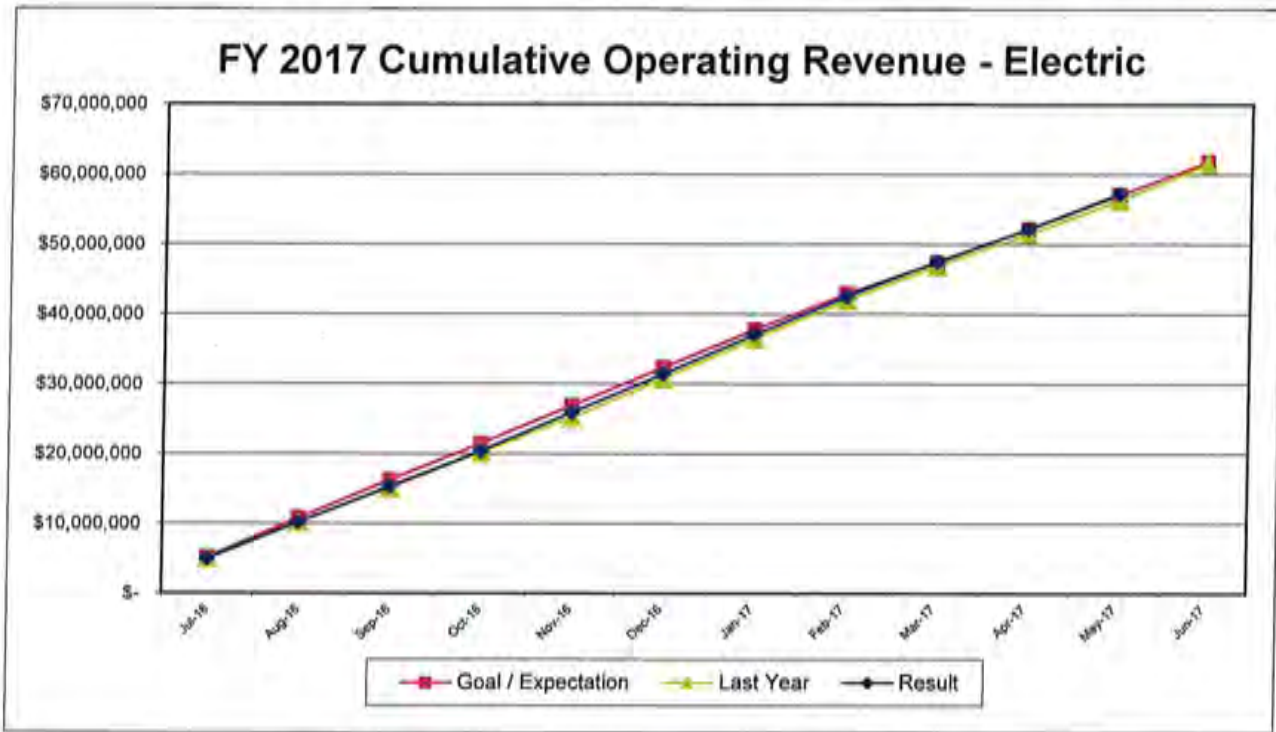


**FY 2017 Monthly Operating Expense - Electric**



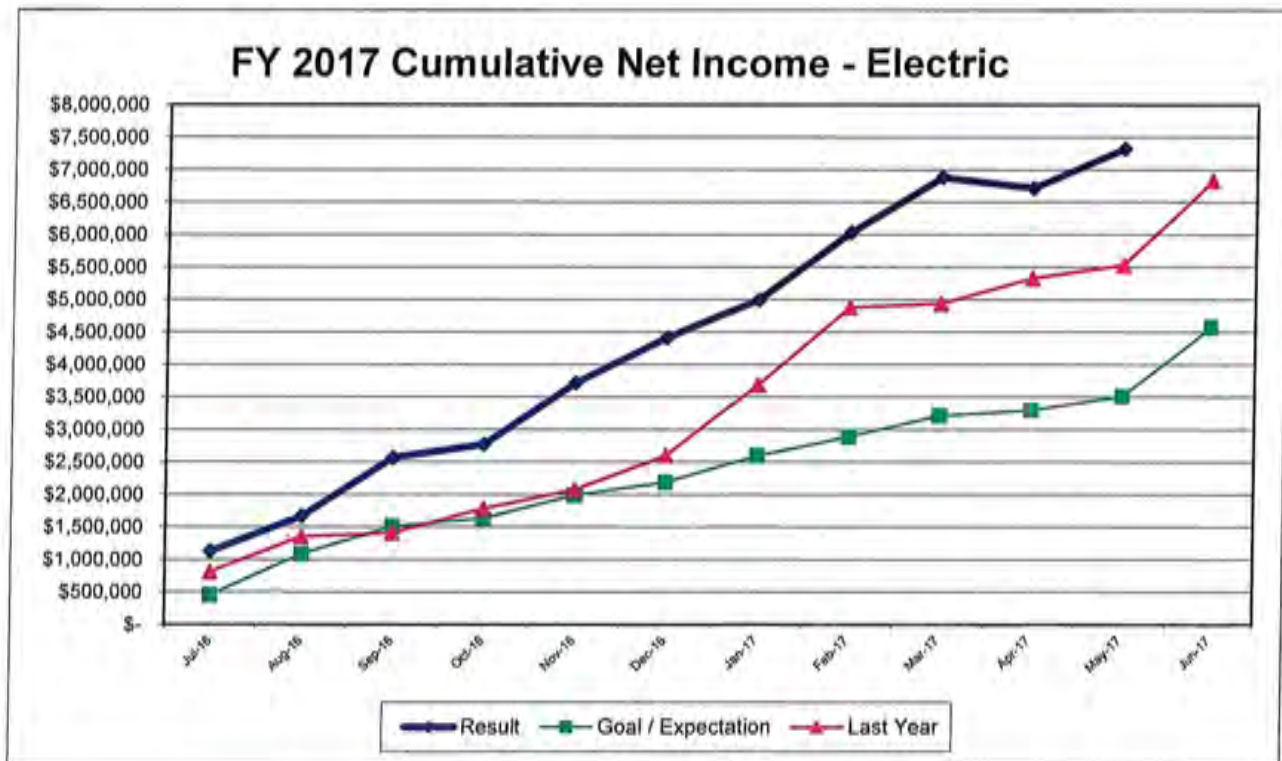
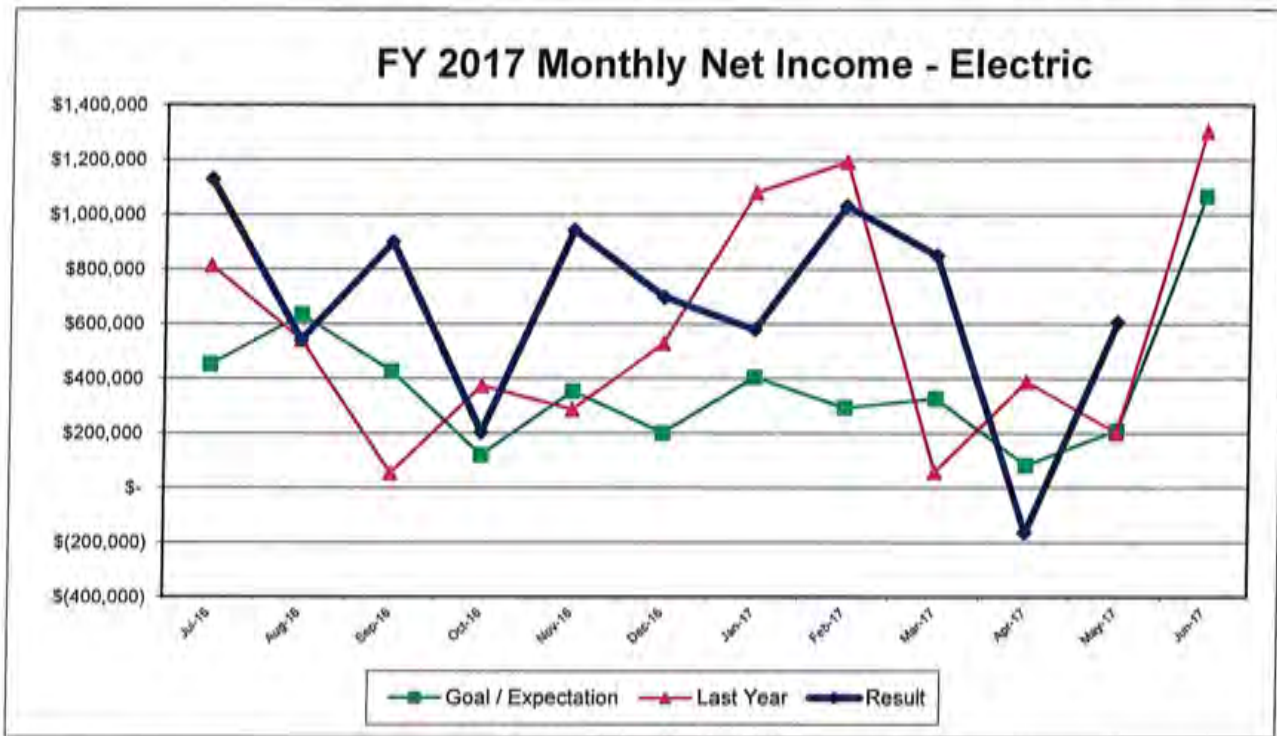
KEY PERFORMANCE MEASURES

AGENDA ITEM NO.: 7.A.18  
MEETING DATE: 07/17/2017



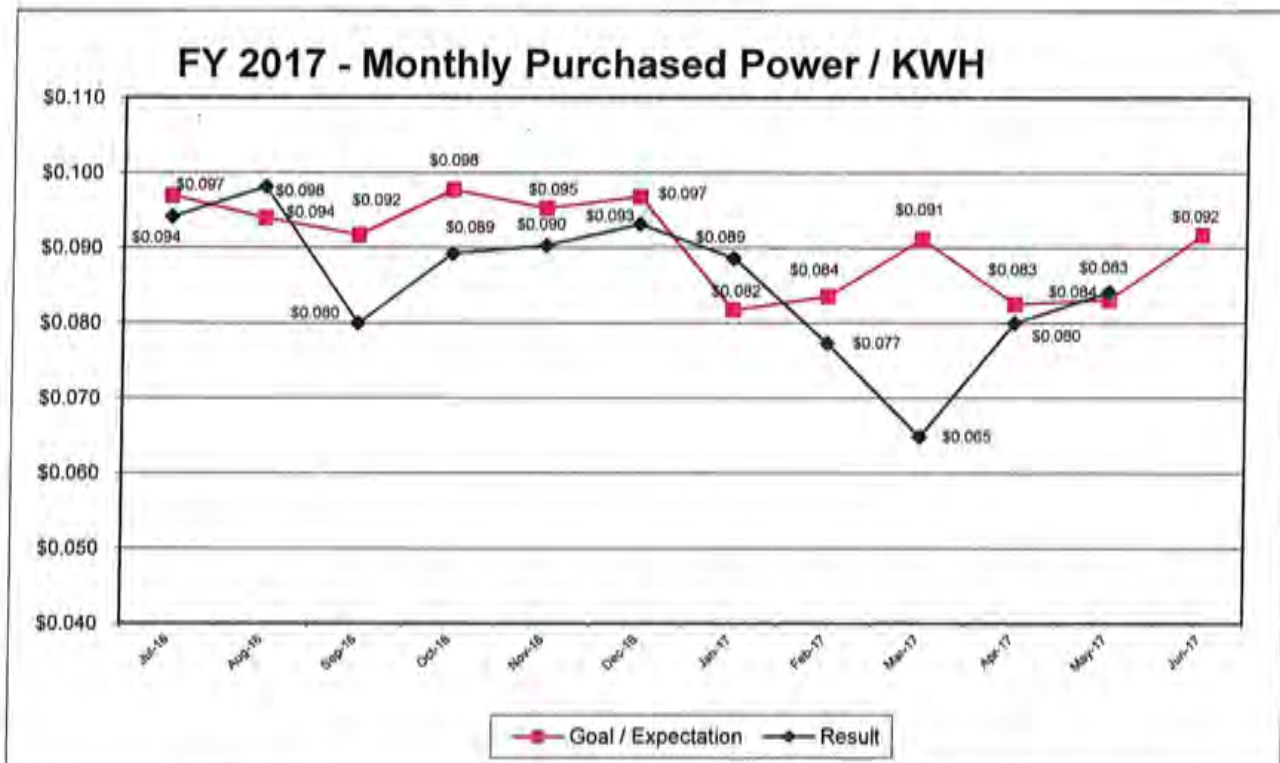
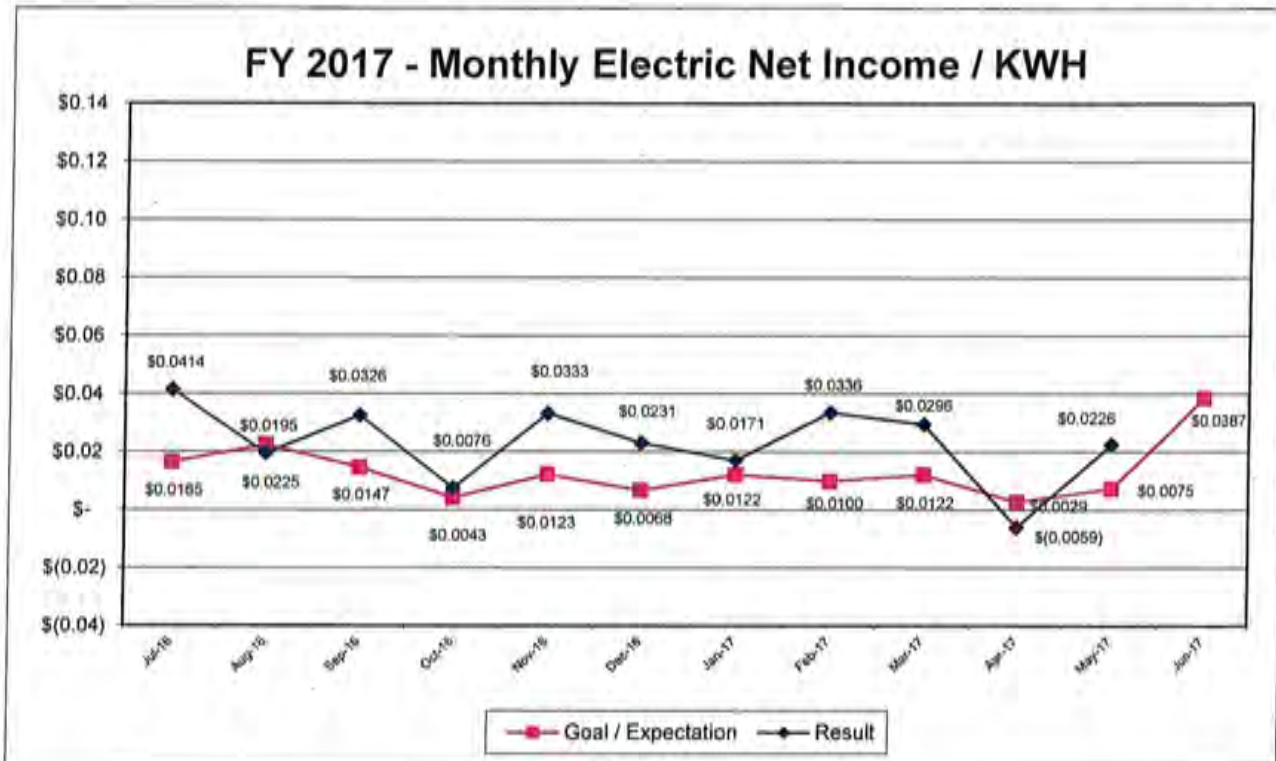
KEY PERFORMANCE MEASURES

AGENDA ITEM NO.: 7.A.19  
MEETING DATE: 07/17/2017



KEY PERFORMANCE MEASURES

AGENDA ITEM NO.: 7.A.20  
MEETING DATE: 07/17/2017



# KEY PERFORMANCE MEASURES

AGENDA ITEM NO.: 7.A.21  
MEETING DATE: 07/17/2017

