



CONSOLIDATED COMMISSION ON UTILITIES
Guam Power Authority | Guam Waterworks Authority
P.O. Box 2977 Hagatña, Guam 96932 | (671) 648-3002 | guamccu.org

Regular Board Meeting
CCU Conference Room, Gloria B. Nelson Public Service Building
4:30 p.m., October 19, 2018

AGENDA

1. CALL TO ORDER
2. [APPROVAL OF MINUTES](#)
3. COMMUNICATIONS
 - 3.1 Public Comments (2 min. per person)
4. GWA
 - 4.1 New Business
 - 4.1.1 [GM Report](#)
 - 4.1.2 [Financials](#)
5. GPA
 - 5.1 New Business
 - 5.1.1 [GM Report](#)
 - General Issues
 - PUC Docket 19-05 Standby Generators
 - 5.1.2 [Financials](#)
 - 5.1.3 [Resolution 2018-23 Authorizing Funds for the DSM Rebate Program](#)
 - 5.1.4 [Resolution 2018-24 Upgrade JDE One World to Enterprise One \(E1\)](#)
 - 5.1.5 [Resolution 2018-25 EPCM Contract Increase](#)
 - 5.1.6 [Resolution 2018-26 Authorizing Purchase of Three \(3\) Bucket Trucks](#)
6. ANNOUNCEMENTS
 - 6.1 Next CCU Meetings: GWA Work Session: 11/13; GPA Work Session 11/15; CCU Meeting 11/20
7. EXECUTIVE SESSION
 - 7.1 Personnel Matter
 - 7.2 Litigation Matter
8. ADJOURNMENT



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Regular Board Meeting
CCU Conference Room, Gloria B. Nelson Public Service Building
5:30 p.m., September 25, 2018

MINUTES

1. CALL TO ORDER

The Chairman called the CCU regular meeting of September 25, 2018 to order at 5:30 p.m. He said all five (5) Commissioners were present. Others in attendance include:

Commissioners:

Joseph T. Duenas	CCU Chairman
Francis Santos	CCU Vice Chairman
George Bamba	CCU Secretary
Judith P. Guthertz	CCU Treasurer
Simon A. Sanchez	CCU Member

Executive Mgmt.:

John Benavente	GM / GPA
Miguel Bordallo	GM / GWA
Melinda Mafnas	AGMO / GPA
John Cruz	AGMET / GPA
Tricee Limtiaco	AGMA / GPA
John Kim	CFO / GPA
Greg Cruz	CFO / GPA
Graham Botha	Staff Attorney / GPA
Kelly Clark	Staff Attorney / GWA

Management & Staff:

Art Perez	PIO / Communications, GPA
Roy Topasna	GWA
Paul Kemp	AGM Compliance & Safety / GWA
Zina Pangelinan-Charfauros	Personnel Administrator / GWA, HR
Vincent Pangelinan	GWA
Tess Camacho	GWA
Gilda Mafnas	Asst. CFO / GWA, Finance
Heidi Ballendorf	Communications / GWA
Patti Diego	Communications / GPA
Joyce Sayama	Mgmt. Analyst / GPA Ex. Office
Lou Sablan	Board Secretary / CCU

Guest:

Angela Perez	AM Insurance
Annmarie Muna	AM Insurance
Michael White	CDM Smith

2. APPROVAL OF MINUTES

The Minutes of Aug. 28, 2018 and Sept. 6, 2018 was presented for approval.

Comm. Bamba motioned to approve the Minutes subject to verification and written correction, second by Comm. Santos. There was no further discussion or objection and the motion carried.

3. COMMUNICATIONS

3.1 Public Comments - None

4. GPA

4.1 New Business

4.1.1 GM Report

1. **Generation System:** The following summarizes the expected generation capacity projection for **October 2018**. All base load units are expected to be in operation for most of the month. The Cabras steam units are currently limited to 55 MW each to minimize the potential for boiler tube leaks which has been a common occurrence for units.

October 2018 Projected Capacity: 361 MW

October 2018 Projected Demand: 250 MW

Anticipated Reserve Margin: 111 MW

2. Net Metering Summary ending August 2018:

Description:	Count	Kw	
Active	1,750	18,522	
Pending	19	241	
Totals:	1,769	18,763	
Service:	Count	KW	Kw/Customer
Residential	1,657	15,235	9.2
Others	93	3,287	35.3
Total:	1,750	18,522	10.6
% Residential	94.7%	82.3%	
Estimated 12 Months Revenue Impact:	\$3,456,653		



3. Demand Side Management Expenses Thru August 2018

Description	FY16	FY17	FY18 as of Aug 31	Total to Date
Regular/OT Pay	\$11,348.80	\$22,256.00	\$20,469.95	\$ 54,074.75
Other Contractual	\$28,278.50	\$85,550.05	\$79,752.25	\$193,580.80
Bank Fees	\$155.00	\$1,032.06	\$1,070.08	\$2,2457.14
Paid Rebates-Split AC	\$154,700.00	\$557,275.00	\$1,039,700.00	\$1,751,675.00
Paid Rebates-Central AC	\$3,400.00	\$8,200.00	\$3,600.00	\$15,200.00
Paid Rebates-Washer/Dryer	\$2,800.00	\$7,425.00	\$31,800.00	\$42,025.00
Total Expenses	\$200,682.30	\$681,738.11	\$176,392.28	\$2,058,812.69

DSM PROGRAM SUMMARY

DSM Program reduces peak demand and reduces LEAC cost for all customers at a onetime fixed rebate. Program has become very successful and GPA would like to petition the PUC to fund additional rebates under LEAC. DSM eliminates running less efficient peaking units at peak time thereby reducing fuel cost.

DESCRIPTION	AMOUNT
Initial DSM Budget FY'16	\$1,806,014.00
Interest Income as of Aug 18	\$4,500.36
Total Expense	\$2,058,812.69
Ending Balance as of Aug 18	\$(248,298.33)
<u>Addtl. Budget:</u> Approved (FY'18)	\$1,139,189.00
Total Ending Balance as of Aug 18	\$890,890.67

4. **PUC Dockets:**

- The PUC has approved the technical specifications for the new plant. Thank you PUC for the quick turnaround of the petition. The package is being issued to the bid's short listed proponents
- FY 2019 CIP budget Approval is on their September meeting agenda.

5. **Phase II Renewable Contracts:**

- Contract for HANWAH 60 MW Renewable project was signed Wednesday August 22nd.
- Contract for KEPCO- LG CNS 60 MW Renewable project was signed Friday August 24th

- These two contracts when completed in 2021 will save the ratepayers over \$43M over the first 5 years of operations (estimated at a LEAC of \$0.11/Kwh)

6. **Typhoon Mangkhut Restoration:** A presentation has been prepared to provide an update of the island-wide power restoration efforts from Typhoon Mangkhut. The presentation was comprised of 29 slides – only highlights are presented here. A copy of the entire presentation is in Master File and is available upon request.

STORM SUMMARY



STORM PREPARATIONS

- Commenced Friday afternoon, September 7, 2018
- Trimming vegetation away from power lines throughout the island and removing line guards
- Securing power plant buildings, substation buildings, and the GBNPSB
- Topping off all fuel at the power plant tanks, water systems sites, and for the fleet



DAMAGE ASSESSMENT

- Engineering assessment began on Tuesday, September 11, 2018.
- Transmission and Distribution Damages
 - Down and leaning wooden poles; 4 ea. 35', 12 ea. 45', and 1 ea. 55'
 - Down transmission, distribution primary and secondary power lines and static wire
 - Damaged hardware – insulators, cutouts, lightning arrestors, overhead pole top configurations
 - Damaged equipment – transformers
 - Vegetation coming in contact with power lines
 - Severed wires due to flying debris coming in contact with power lines
 - Sagging primary and secondary lines
- Generation Facilities and Substation Damages
 - Cabras Power Plant Unit 1&2 - Damaged wall panels, parapet, cracked awning windows, AC ducts
 - Central Maintenance – Damaged exhaust fan
 - Dededo CT – Damaged chain link fence and gate
 - Yigo CT – Damaged roll-up door and roof (including insulation)
- Various Substations – Damaged chain link fence, roof, doors, damaged perimeter lighting, burnt bus insulator, vegetation

PROCUREMENT / WAREHOUSE

CONTRACTS	
• 3 line crews to supplement GPA crews	
• Food, Water, Gatorade and Fruits	
• Safety Supplies: Tools, safety shoes, rain gear, spot lights, safety vests, traffic cones, etc.	
LINE MATERIALS ISSUED	QUANTITY
POLES	12
TRANSFORMERS	2 Pad and 8 Pole Mounts
CROSS ARMS	70
FUSE CUTOUTS	200
FUSE LINKS	900
INSULATORS	440
WIRES	20,000 LF
LIGHTNING ARRESTERS	25
Bolts, Clamps, Clevises, Connectors	

PROJECTED REVENUE LOSS (BASE RATE)

Pre-Typhoon Period			Post-Typhoon Period			VARIANCE (KWH)	Projected Sales Loss
Date	Day	Net KWH	Date	Day	Net KWH		
3-Sep	Mon	4,459,346	10-Sep	Mon	3,023,541	1,435,805	\$ 136,799
4-Sep	Tue	4,476,709	11-Sep	Tue	1,358,717	3,117,992	\$ 297,072
5-Sep	Wed	4,505,685	12-Sep	Wed	2,878,520	1,627,165	\$ 155,031
6-Sep	Thu	4,487,488	13-Sep	Thu	3,701,117	786,371	\$ 74,923
7-Sep	Fri	4,565,742	14-Sep	Fri	4,107,311	458,431	\$ 43,678
8-Sep	Sat	4,614,858	15-Sep	Sat	4,463,970	150,888	\$ 14,376
9-Sep	Sun	4,595,994	16-Sep	Sun	4,454,821	141,173	\$ 13,450
TOTAL:		31,705,821			23,987,997	7,717,824	\$ 735,328

DAMAGE ESTIMATE

ITEM	COST
Transmission & Distribution	\$729,805
Generation and Substation	\$234,000
Water Systems (labor, fuel, repairs)	Pending
Lost Revenue	\$735,328
Supplies & Contracts	Pending
TOTAL ESTIMATED COST	~\$1,699,133
Total Estimated Loss Most Likely	~\$2.5M

WATER SYSTEMS

Location	# of Sites w/Gens	Sites Without Gens	TOTAL
North	92	3	95
Central	65	5	70
South	46	3	49
Portable Gens	4		4
TOTAL	207	11	218

7 Generator Issues After Storm:Overheated – AG2, CD17, F15, Machanao, Y15

Flooded & Submerged – ND4, SD4

GPWA to procure in FY 2019 additional portable generators for Booster Pump Stations which serve high elevation customers and for emergencies due to damaged stationary units

CUSTOMER ENGAGEMENT

- Tracking of customer trouble reports received by Customer Service Representatives CSRs, Facebook direct messenger and GPA personnel.
- Trouble calls received by Customer Service Representatives
 - ❑ Tuesday, September 11th – 237
 - ❑ Wednesday, September 12th – 498
 - ❑ Thursday, September 13th – 345
 - ❑ Friday, September 14th – 311
 - ❑ Saturday, September 15th – 253
- Facebook Direct Messenger - **428** messages received from September 9th to 14th
- 12-hour shifts were implemented for (CSRs) assisting with trouble calls and AMI/Command Center Operations.
- Community updates via social media were successful in keeping our customers engaged and informed. Public sentiment improved with frequent updates and photos of the crew's pre-storm trimming and post-storm restoration.

Communications

1. Updated & Distributed Public Service Announcements (PSAs) to various storm related topics:
 - Voltage Fluctuations; Portable Generator Safety; Appliance Safety; Downed Power Lines; Securing Yard Items; Main Breakers;
2. Damaged Weather Head Process
 - Developed Graphic for process; Issued process to press & stakeholders
3. Typhoon Restoration Process
 - Developed Graphic for restoration process
4. Issued Restoration Updates
 - Media, Stakeholders e.g. GDOE, DPW, MCOG, GWA, Joint Information Center, Social Media
5. Coordinated Inter Agency Support via JIC & EOC
 - GDOE restoration coordination for 41 schools
 - Traffic intersection restoration coordination – GUARNG, DPW & GPD
 - Telecommunication
6. Employee Recall Memorandum from GM-COR 4
7. Updated Admin Staff on Restoration Progress;
 - a) Trouble Call reporting;
 - b) Periodic & Multiple 30 minute outages as necessary

INFORMATION TECHNOLOGY

Smart Meter AMI Network

- No damage to the six major collectors in Apra Heights, Barrigada, Dededo, Talofoto, Yigo and Umatac.
- Once power was restored, meter activity was seen.

GPA Network Communications

- All GPA links to substations, Julale, Cabras, T&D, Dededo CT operational
- No reported damage to fiber or related communication equipment.
- The Tier 2 network, GPA's island wide wireless network, was not damaged by the storm.

GPA Customer Billing and Payment Systems

- Operational, online payments available on Tuesday after the storm

GPA Datacenter

- Operational throughout the storm and no issues reported.

PERSONNEL

• SUPPORT PERSONNEL ACTIVATED TO SUPPORT RECOVERY

- ✓ Safety
- ✓ Procurement – Preparation and Issuance of contracts
- ✓ Customer Services – CSRs staffed at the Dispatch Center, Facebook updates and reporting Facebook messages, tracking trouble reports, and following up with customer inquiries
- ✓ Finance – Certification of purchases, funding, and payments
- ✓ Public Information Office – Joint Information Center (JIC) staffing, liaison with MCOG, GDOE and others
- ✓ Planning & Regulatory – Handled oil spill response, documented transformer damages, and pole installations
- ✓ IT – Maintained network communications, monitored meter communications and health of routers and collectors, coordinated repair and reenergization of routers and collectors with T&D, reported on customers energized
- ✓ SPORD – conducted Fuel inspections and ensured fuel deliveries

• PERSONNEL ACTIVATED

- ✓ Dispatch – System Dispatching, Generation Dispatching, Trouble Desk, SCADA personnel
- ✓ Transportation – Mechanics in support of heavy equipment and light duty vehicles
- ✓ Engineering – damage assessment (35) + Line Crew Support (26)
- ✓ Generation – all units available except for Agarekko, which required complete securing to prevent damage, all GPA sites manned through the storm
- ✓ Generation Water System Diesel – 9 personnel covered 207 standby Generator sites
- ✓ Facilities – personnel handling GBNPSB, securing GPA facilities, assessing and repairing facility damages

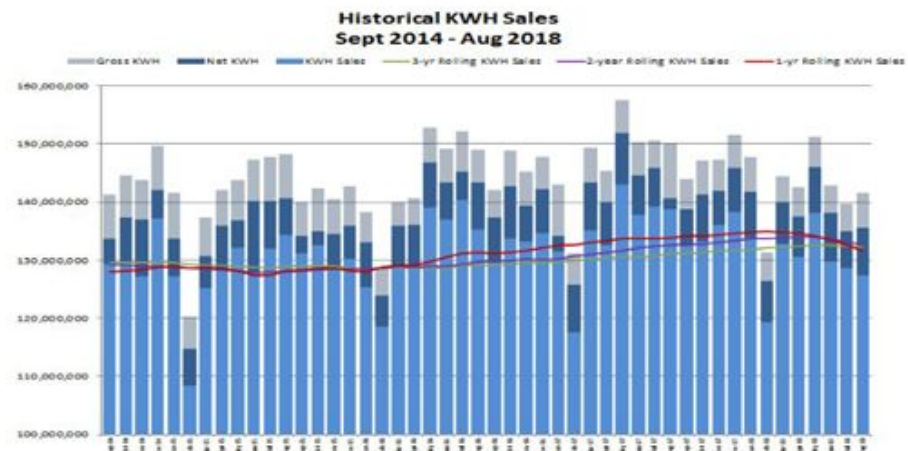
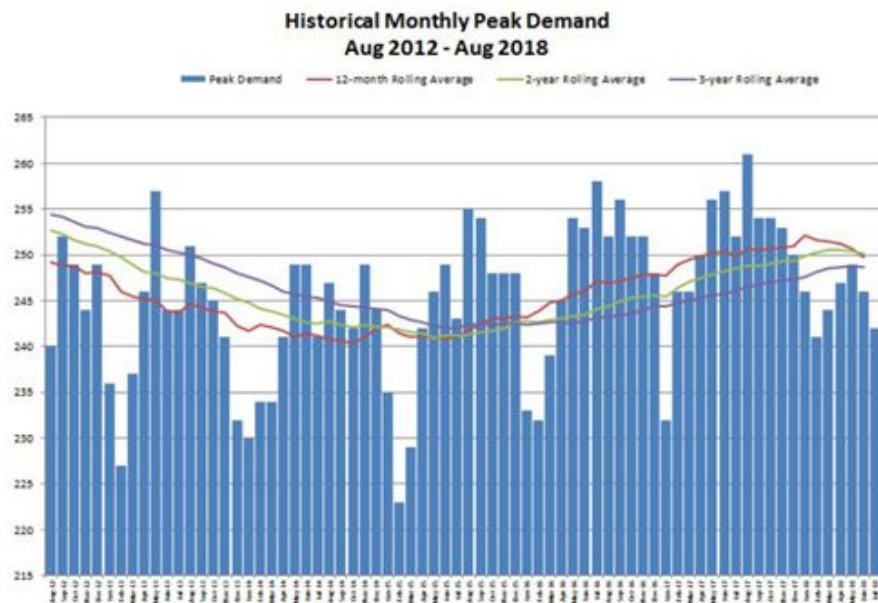
TRANSMISSION & DISTRIBUTION

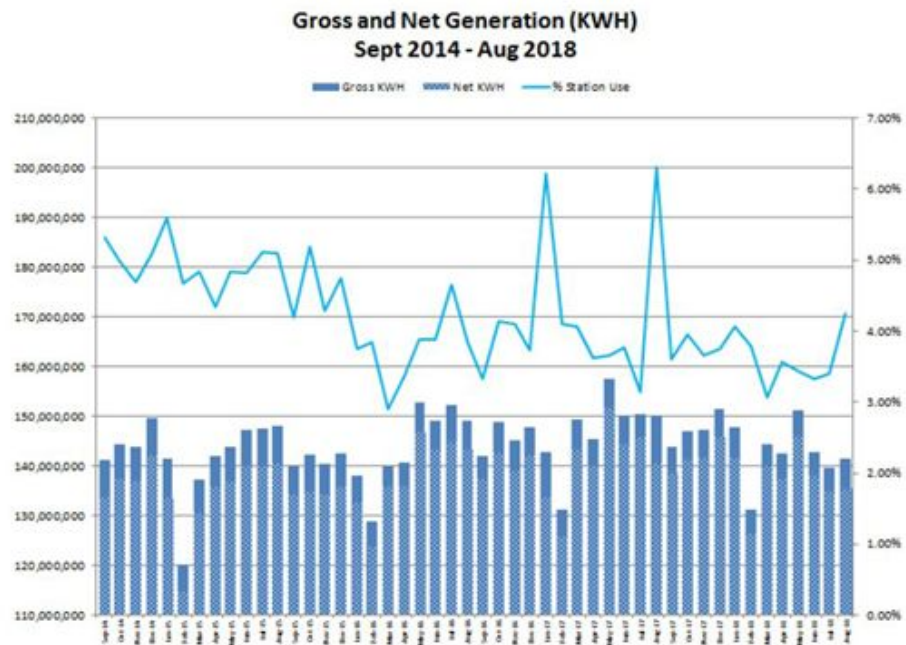
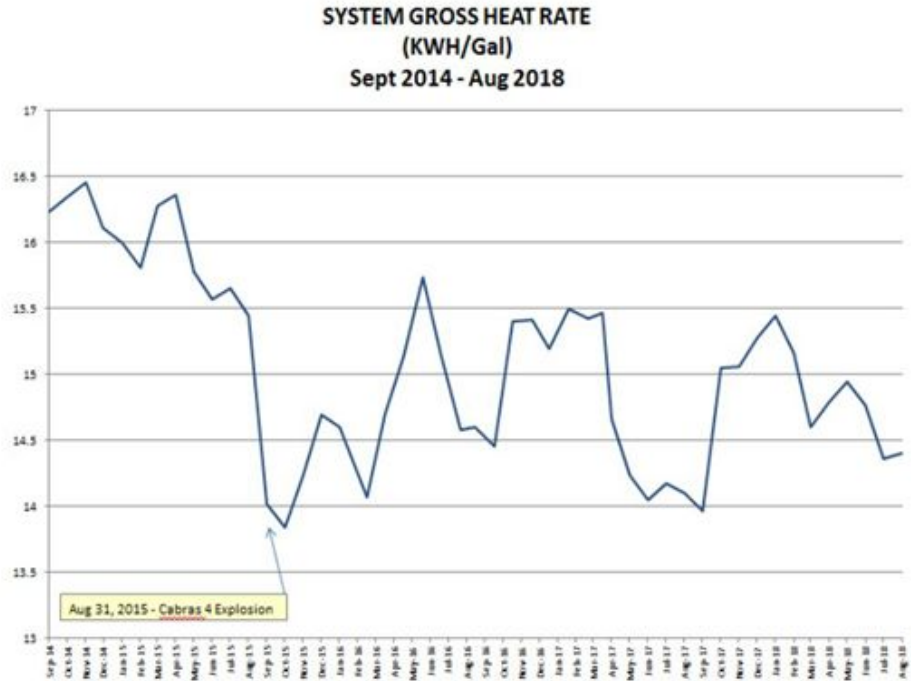
- Line Crews
 - Day Shift
 - North – 4 crews
 - Central – 3 crews
 - Southern – 3 crews
 - Swing/Graveyard Troubleshooters – 3 Crews
- Operators = 3 crews
- Meter shop = 8 electricians for meter change outs, crew support
- Relay shop = 6 electricians for 29 substations
- Substation = 10 electricians for 29 substations
- 4 Safety, 2 HR, 1 IT = Material assembly, traffic control, supply runs
- Engineering = 26 personnel for documentation of crew activities, redesign as necessary, line assessment prior to restoration

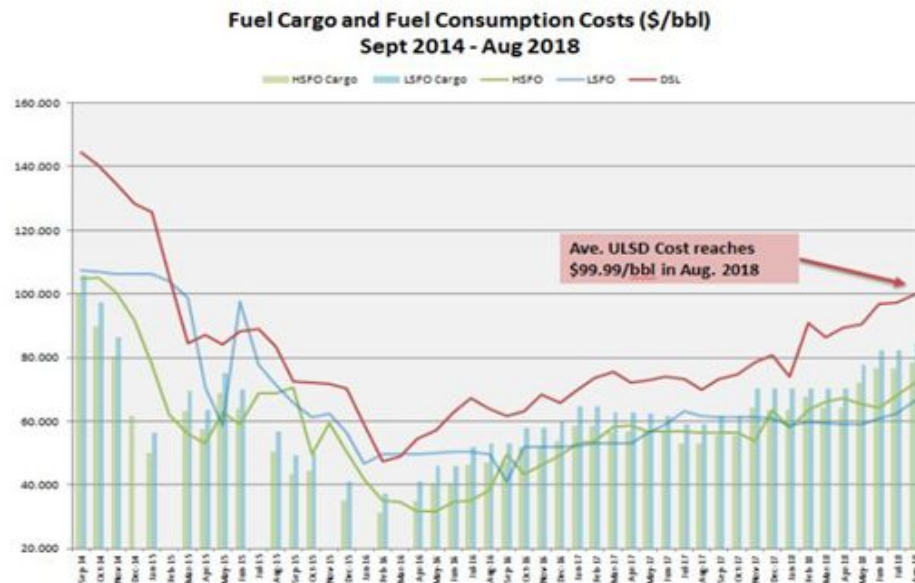
Summary

- No Injuries!!! Biggest Accomplishment for Very Dangerous Working Conditions
- Recovery Efforts were Excellent! Thank you Employees of GPA and GWA!!!!
- Thank you to the Ratepayers and Public for their patience and understanding!!!
- Teams will meet to determine system and procedural improvements to improve future recovery efforts
- Great Team Work between GWA and GPA to keep water service flowing. Team to meet to recommend additional future improvements

7. Key Performance Indicators: The following are indicators thru August 2018.







4.1.2 **Financials**

CFO Kim gave his usual highlights for August 2018 – revenue were short budget was \$14M v. \$13M actual mostly due to weather which has been the same pattern for the past 2 months; fuel revenue / cost remains below budget \$19M v. \$21M and prior year at \$17M; O&M Expenses are below budget \$5.9M v. \$6.4M; customer growth remains steady at 51,500; debt service is at 1.78 and LEAC under recovery is at \$7.3M

4.1.3 **Resolution 2018-17 Relative to NET Metering Credit Recommendation**

If approved, Resolution 2018-17 will allow management to file and respond to the Guam Public Utilities Commission (PUC) order under Docket No. 08-10 (December 29, 2008), Exhibit A which states:

“The NM Rider is available to all customers without limitation as to the aggregate capacity of Customer-Generator installations on the GPA System. However, at the time the number of Customer-Generators exceeds one-thousand (1000) customers this issue will be reviewed by the PUC and a determination made as to the continued offering of the NM Rider for new ‘net metering’ customers.”

GPA achieved the milestone of 1000 net metering customers in June 2016. As of August 31, 2018, GPA has 1,764 net metering customers resulting in an approximate \$3,456,653.00 annual subsidy by non-net metering customers. Additionally, GPA has conducted and completed as ordered by the Consolidated Commission on Utilities (CCU) several public meetings to address net metering stakeholders’ concerns and obtain feedback; evaluate stakeholder feedback; perform analysis regarding net metering impacts on the GPA especially on non-net metering customers; propose recommendations on whether or not changing the current net metering program is in the best interests of customers while insofar as practical alleviating net metering customer concerns.

The Consolidated Commission on Utilities supported the net metering program through the years in full support of promoting renewable energy to offset fossil fuel energy production. The Consolidated Commission on Utilities has been monitoring the growth of the Net Metering Program including the financial impact the program will have on non-net metering customers.

The petition is to decrease net metering subsidy evenly over a 5-year period beginning CY'2019. This recommendation will save non-net metering customers approximately \$3,456,653.00 annually and will take effect upon approval of the Guam Public Utilities Commission. The funding source will come from the Levelized Energy Adjustment Clause (LEAC).

RECOMMENDATION

1. CCU approve GPA filing a petition to the PUC as shown herein to consider changes to the existing net metering credit
2. Recommend an implementation plan for billing NEM customers on net billing: Buy All/Sell All or similar billing models
3. GPA files with GPUC for adjustment of net metering credits from retail to avoided cost
4. It is recommended that for existing NEM Customers, implement a Grandfather phase-in approach over 5 years to the GPA avoided cost credit as shown on the following page. Adjustments for LEAC, line loss and variable cost changes done annually.
5. For future NEM customers, credit set at the GPA avoided cost

Migrate to Avoided Cost in Phases as Follows:			
Year	Estimated Kwh	*\$/Kwh	Subsidy
CY 2018	33,921,230	\$0.1006	\$3,411,623
CY 2019	33,921,230	\$0.0805	\$2,729,298
CY 2020	33,921,230	\$0.0603	\$2,046,974
CY 2021	33,921,230	\$0.0402	\$1,364,649
CY 2022	33,921,230	\$0.0201	\$682,325
CY2023	33,921,230	\$0.0000	\$0
Total Subsidy:			\$10,234,869
*Subsidy decreased evenly over 5 years			
Avoided Cost Credit set annually by PUC in a similar protocol as LEAC			
All excess credits trued up at the end of each year			

In discussion it was mentioned that with existing customers, they would be phased down as recommend for 5 years and new NEM customers would immediately be placed on the recommended avoided cost program. All this is based on PUC adopting GPA's recommendation.

There was discussion on how other states are handling their respective NEM program and it was mutually agreed that this is different depending on variables pertinent to that states jurisdiction. GPA's recommendation could be considered an aggressive way to a balanced scenario. Other states have different ways of handling NEM but the impact on that utility is different from that of Guam. The difference is that other utilities base rate is lower than Guam where the base rate is larger which does not even consider the cost of fuel. There must be parity and balance so no one ends up subsidizing anyone. Many states are moving away from NEM because of the negative impact to non-NEM customers.

Comm. Bamba said he is concerned about the existing customers and changing the rules in the middle of the game.

Comm. Duenas said we realize the value of solar and the savings that comes from it. The CCU could modify the management's proposal if desired. At the end of the day we must come to some sort of avoided cost plan to be fair to everyone.

GM Benavente understands CCU position but stressed his concern that this matter must be addressed because it eventually impact base rates. The urgency is the cost of \$3,5M is coming from base rate revenues and if this is not controlled, it will impact base rates.

SS open to chairman's thinking of shorter phase down but apply to everyone - current and new NEM customer - example 5-year phase down for everyone to give some flexibility. Because of the revenue concern this may be a fair compromise. This of course all predicated on the PUC's review and

The GM said he is ok with this adjustment because it accomplishes the objective which is to begin implementation of a phase down.

Comm. Sanchez motioned to amend line 67 of the resolution to read verbiage "evenly to all NEM customers, existing and new". The amendment was second by Comm. Bamba. On the amendment all were in favor; on the main resolution, all were in favor and the motion passed.

4.1.4 Resolution 2018-20 Relative to Bulk Storage Fuel Tanks Internal Inspection & Refurbishment

This project involves the internal inspection and refurbishment of the bulk storage fuel tanks and appurtenances located at the GPA Bulk Storage Tank Facility, Piti. The tanks need to undergo the required internal inspection to comply with regulatory requirements and refurbish as necessary to ensure the structural integrity and safe operations of the tanks. The project also includes upgrading of the facility's auxiliary system to assure uninterrupted supply of fuel for the power plants. The last inspection was conducted in 2007. Inspections are required to be performed every ten (10) years.

The project is anticipated to commence on FY 2019 and the target completion is on FY 2021 and will cost about \$ 8,000,000.00 requiring both CCU and PUC approvals. Funding source is the Cabras 3&4 insurance proceeds.

Comm. Sanchez motioned to approve Resolution 2018-20 second by Comm. Santos.

Comm. Bamba said for the record that he recused himself from this matter.

There was no further discussion or objection and the motion passed 4 ayes and 1 abstention.

4.1.5 Resolution 2018-21 Relative to Constructing New ULSD Line for Bulk Storage Tanks

USEPA has mandated GPA to utilize ULSD for the power plants by year 2021. Resolution 2018-21, if approved, will approve the construction of 8-, 12-, and 24-inch diameter pipes with supports/pedestals, pipe manifolds, valves and pumping station appurtenances for ULSD fuel. The pipeline system will connect to Navy Tie-In, Tanks 1934 and 1935, and to Piti Power Plants 7, 8, and 9. The project is estimated at \$5,900,000.00 requiring approval from CCU and PUC and will be funded by Cabras 3&4 insurance proceeds. The project will commence on FY 2019 and the target completion is on FY 2020. The IFB solicitation will commence immediately after CCU & PUC approval.

Comm. Sanchez motioned to approved Resolution 2018-21 second by Comm. Santos.

For the record, Comm. Bamba announced that he recuses himself from this matter.

There was no further discussion or objection and the motion passed with 4 ayes and 1 abstention

4.1.6 Resolution 2018-22 Relative to Award of Property Insurance Policy

Guam Power Authority's Bond Indenture agreement requires GPA to "secure and maintain property insurance on all facilities constituting the system against risks of loss or damage to the extent that such insurance is obtainable at reasonable cost." The indenture further requires GPA to carry insurance "of a scope and nature as that usually carried in the industry." GPA's current Property Insurance policy is set to expire on November 1, 2018. The insurance risk manager and the insurance broking team has configured, with the goal in mind of improving, to the greatest extent possible, the terms and conditions of GPA's property insurance policy for the next three years.

It was mentioned that GPA's premium was reduced from \$6,450,000.00 per year to \$4,355,000.00 per year for a savings of \$2,095,000.00. The new insurance policy period will extend from November 1, 2018 to November 1, 2021 for the following premium: The next three annual installment premiums will be billed at \$4,355,000.00 and exercise an option to increase the coverage from \$200M to \$300M property policy for an additional \$100,000.00. The funding source is Revenue Funds

In discussion Comm. Santos said that it is prudent to review the language in the policy carefully. The Commission requested CFO Kim to have an outside professional with experience review the policy and opine if the language is sufficient. It was further recommended to approve the resolution subject to this review and to bring the policy & resolution back to the Commission with amendments if needed. Chairman Duenas added that due to the urgency of the matter, if needed, this meeting could be recessed for a week to give the underwriters a chance to review the policy. After more deliberation, it was decided to recess this meeting to allow the review by the underwriters. The resolution was tabled and discussions will reconvene at the continuation meeting next week.

5. GWA

5.1 New Business

5.1.1 GM Report

GM Bordallo said there is no change to the GM report that was given at last week's GWA Work Session. Only change being the production numbers.

5.1.2 Financials

CFO Cruz reported that sales targets are still 4% below sales projection. Spending (driven by sales) remains under budget. Debt Service Coverage is still healthy. Water purchases are better - GWA is buying less water. Relative to water production the CFO said he still questions the accuracy of the report because he doesn't see the correlation in the numbers. More discussion followed and the Commission asked the CFO to look into this and work with the Utility Services Administrator to determine further steps to resolve.

5.1.3 Resolution 50-FY2018 Relative to Approval of the Talofofo Sewer Improvement Project

If approved, Resolution 50-FY2018 will provide new sewer pump stations and associated piping improvements to service an area of gravity sewer piping which was never properly connected to GWA's wastewater system. In doing so, GWA would eliminate the need to provide both contractor and in-house pumper trucks, other equipment and manpower, three to five times per week just to remove wastewater from a portion of the collection system for which complete the installation of necessary sewer pumping stations did not occur. For decades GWA has had to continue this pumping activity, which is highly inefficient and costly to all sewer rate payers. The construction of the sewer pump stations will allow for more adjacent lots to connect onto the existing gravity system as well as improve the operations of the collection system in Talofofo. The new SPS will be located on Chalan Kanton

Ladera Street, Leonardo Tenorio Street, E. Johnny S. Taitague Street, and Chalan Ayuyu in the village of Talofoto.

The total lowest bid proposal submitted was Two Million Four Hundred Eleven Thousand Four Hundred Eighteen Dollars (\$2,411,418.00). GWA management further seeks on top of the total bid proposal a ten percent (10%) contingency of Two Hundred Forty-One Thousand One Hundred Forty-One Dollars and Eighty Cents (\$241,141.80), to bring the total authorized funding amount to Two Million Six Hundred Fifty-Two Thousand Five Hundred Fifty-Nine Dollars and Eighty Cents (\$2,652,559.80).

The contract period is 450 calendar days from NTP thus the completion of the project is potentially February 2020. Funding for this project will be from the USEPA State Revolving Fund and, if necessary, GWA Bond funds and SDC funds applicable to this project. It was mentioned that nine (9) companies picked up bid packages and four (4) bids were submitted on August 22, 2018.

Comm. Bamba motioned to approve Resolution 50-FY2018 second by Comm. Guthertz. There was no further discussion or objection and the motion passed unanimously.

5.1.4 Resolution 51-FY2018 Approval of Contract Extension for Well Rehab and New Well Design, GHD Inc.

GWA management is working to execute the construction procurement for the GWA New Wells at AG-10, AG-12 and Y-8 project, for which the engineering firm GHD, Inc. was the Engineer of Record (EOR). The objective of the project is to “reopen” the design contract with GHD and extend the period of this contract for a period until such time the new wells at AG-10, AG-12 and Y-8 are complete. Having GHD on-board during the bidding process as well as the construction activities will allow for all technical questions specific to the design to be answered.

The development of AG-10, AG-12 and Y-8 Deep Wells will allow GWA to increase its production capacity reserve that may be necessary for anticipated growth from the military build-up as well as directly improve water pressure to properties close to the new well locations

AG-10 is located in Dededo along Chalan Koda, AG-12 is located in Dededo along Chalan Bada and Y-8 is located in Yigo along Chalan Islas Marianas. GWA negotiated with GHD for fees related to the additional scope or work, and GHD submitted a final fee proposal in the amount of One Hundred Seventy Thousand (\$170,000.00), which will be handled on a Time and Materials basis. The source of funding for the Change Order will be from the Bond proceeds under CIP PW PW 05-14 “New Deep Wells and Down Hard”, PW 09-02 Water Wells or System Development Charge funds.

GWA Management anticipates the EOR will be involved with the bidding process and will have limited involvement during the construction activities, both of which may take 18 months to complete.

GM Bordallo said there is three wells left to complete and is asking to reopen contract value at \$170k

Comm. Guthertz motioned to approve Resolution 51-FY2018 second by Comm. Bamba. There was no further discussion or objection and the notion carried unanimously.

5.1.5 Resolution 52-FY2018 Change Order Baza Gardens WW Cross Island Pumping and Conveyance Phase I / II Contract

This is a court ordered project. This resolution will address pending Change Order proposals with the Phase I and Phase II contractor for the Baza Gardens Wastewater Cross-Island Pumping and Conveyance System project located along Route 17 and Route 2A. Critical scheduling of the installation work for the last leg of the 21-inch diameter gravity main that would complete the wastewater conveyance system to the new Agat-Santa Rita WWTP has been affected by the delay in completing work at the WWTP, and

therefore was Change Ordered to the Phase I and II contracts. In executing this particular work all contingency funds authorized for the Phase I and II contracts were depleted and as such prior Change Order Proposals that GWA has deemed acceptable and would have been funded by such contingencies, now require additional CCU action to allow GWA management to address them.

GWA management is seeking CCU approval for additional funding for Change Order Proposals related to the Phase I and Phase II contracts in the amount of Three Hundred Twenty-Four Thousand Three Hundred Fifty-Two Dollars and Fifty-Eight Cents (\$324,352.58) and One Hundred Twenty-Eight Thousand Nine Hundred Seventy-Five Dollars and Twenty-Six Cents (\$128,975.26), respectively.

GWA management seeks CCU approval for additional funding for the Change Order Proposals for Phase I and Phase II noted above, plus a ten percent (10%) contingency to these amounts or Thirty Two Thousand Four Hundred Thirty-Five Dollars and Twenty Six Cents (\$32,435.26) and Twelve Thousand Eight Hundred Ninety-Seven Dollars and Fifty-Two Cents (\$12,897.52) respectively, to bring the total authorized funding to the Phase I contract to Eight Million Six Hundred Thirty-Nine Thousand Three Hundred Forty-Six Dollars and Fifty-Nine Cents (\$8,639,346.59) and a total authorized finding for Phase II to Six Million Three Hundred Fifty-Six Thousand Eight Hundred Seventy Dollars and Forty Eight Cents (\$6,356,870.48). The funding source will come from wastewater bonds applicable to the project as well as System Development Charge funds. It was mentioned that expected completion date is December 2018.

Comm. Sanchez said that the System Development Charge is being used and public awareness should be given to let ratepayers how the money is being spent.

Comm. Bamba motioned to approve Resolution 52-FY2018 second by Comm. Guthertz. There was no further discussion and the motion passed unanimously.

5.1.6 Resolution 53-FY2018 Relative to Charge Off of GWA Receivables Deemed Uncollectible

The purpose is to approve adjustments to GWA's receivables for inactive accounts from the fiscal years 1996 through 2014 that have exceeded the statute of limitations and to fairly state the outstanding balance. The estimated amount of these outstanding balances is \$9.3 million, however, allowances for doubtful accounts are recognized and reported in the financial statements each year as "bad debt". It is management's intent to complete the required adjustments prior to closing FY2018.

In discussion CFO Cruz said the underlying reason driving this action is the 4-year statute of limitations and that the accounts in question are predominantly residential customers. He added that this is 2% of collectibles there is no reason to keep it in the books as receivable since there's no legal remedies to force collection.

Comm. Sanchez asked if the statute of limitation is 4 years Is there something we could do to minimize the perception of a large sum being written off. Perhaps do the write off in 7 years rather to wait so long, Management said they would look into this.

Comm. Bamba motioned to approve Resolution 53-FY2018; second by Comm. Guthertz. There was no further discussion or objection and the motion passed.

6. ANNOUNCEMENTS

6.1 Next CCU Meetings: GWA Work Session: 10/16; GPA Work Session 10/18; CCU Meeting 10/23

The Chairman announced that the next meeting would be a GWA Work Session on Oct. 16; a GPA Work Session on Oct. 18 and the regular monthly CCU meeting on the October 23.

7. **EXECUTIVE SESSION**

7.1 **Personnel Matter**

This matter was discussed.

The Meeting was recessed until 4:30 p.m., Tues., Oct. 2, 2018

**Continuation of the Regular CCU Board Meeting of Sept. 25, 2018
CCU Conference Room, Gloria B. Nelson Public Service Building
4:30 p.m., Tues., October 2, 2018**

The Chairman called the meeting to order at 4:45 p.m. and announced that this is the continuation of the recessed meeting of the CCU on Tues., Sept. 25th. All (5) Commissioners were present. Others in attendance include:

Commissioners:

Joseph T. Duenas	CCU Chairman
Francis Santos	CCU Vice Chairman
George Bamba	CCU Secretary
Simon Sanchez	CCU Member

Executive Mgmt.:

John Benavente	GM / GPA
Melinda Mafnas	AGMO / GPA
John Kim	CFO / GPA
Kelly Clark	Staff Attorney / GWA

Management & Staff:

Art Perez	Public Information Officer / GPA Communications
Lou Sablan	CCU Recording Secretary / GPA-GWA

Guest:

Ann Marie Muna	AM Insurance
Angelica Perez	AM Insurance

New Business

4.1.6 Resolution 2018-22 Relative to Award of Property Insurance Policy

Chairman Duenas said the property and casualty insurance must be approved because it needs PUC approval and because the policy must be in place by Nov. 1.

CFO Kim said this is insurance for GPA properties – a bid for 3 years with 2 1year options. There is only 1 sole bidder. There is a reduction in price of about \$2.1M and he is asking for CCU approval. Within the option there's \$200M coverage and option to increase to \$300M for additional \$100k per annum. He is asking for approval of the latter as well.

Comm. Santos motioned to approve Resolution 2018-22 second by Comm. Guthertz.

In discussion Comm. Sanchez asked status of the additional information requested by the Commission. Comm. Santos confirmed it was received and that he would send him the data.

On the motion there was no further discussion or objection and the motion passed.

On the matter relative to the CCU Policy regarding P.L 34-116 the FY19 Budget Law which was passed at the Tuesday, 9/25/8 meeting, Comm. Sanchez said he would like to ask a question of the GPA & GWA Legal Counsels. In P.L. 34-116, the Legislature intended to prevent public corporations, among others, from hiring new personnel from Sept. 1, 2018 through Dec. 31, 2018 and prohibit any promotions, along with any incremental or other upward pay adjustments for employees during FY2019. The Commission voted at the 9/25/18 meeting to adopt a policy to not recognize the Legislature's mandate based on an opinion from Atty. General Rapadas – AG12-0014 dated January 9, 2012.

Comm. Sanchez sought GPA/GWA counsel's legal opinion on AG Rapadas' opinion that Executive Powers cannot be restricted. Comm. Sanchez said he is not clear on GPA/GWA legal counsel's opinion whether they agree with the Rapadas opinion or not so he asked both Counsel's Botha and Clark. Both Atty. Clark and Botha responded that they reviewed AG Rapadas's Opinion and they do not have any issues with it and can use this Opinion to defend the CCU, if needed.

8. ADJOURNMENT

With nothing further to discuss, the meeting adjourned at 5:00 p.m.

\\s\\
Bls

Attested:

JOSEPH T. DUENAS, Chairman

J. GEORGE BAMBA, Secretary



General Manager's Report

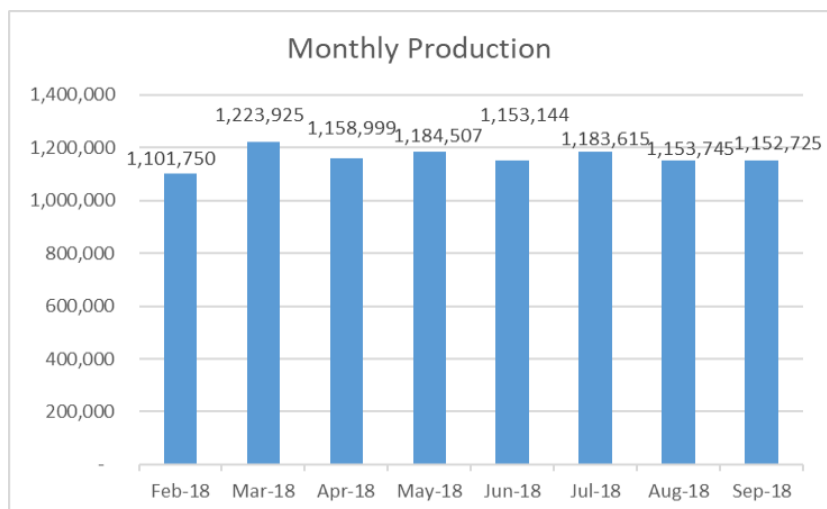
GPWA CCU Board Meeting, October 19, 2018

Operations Update

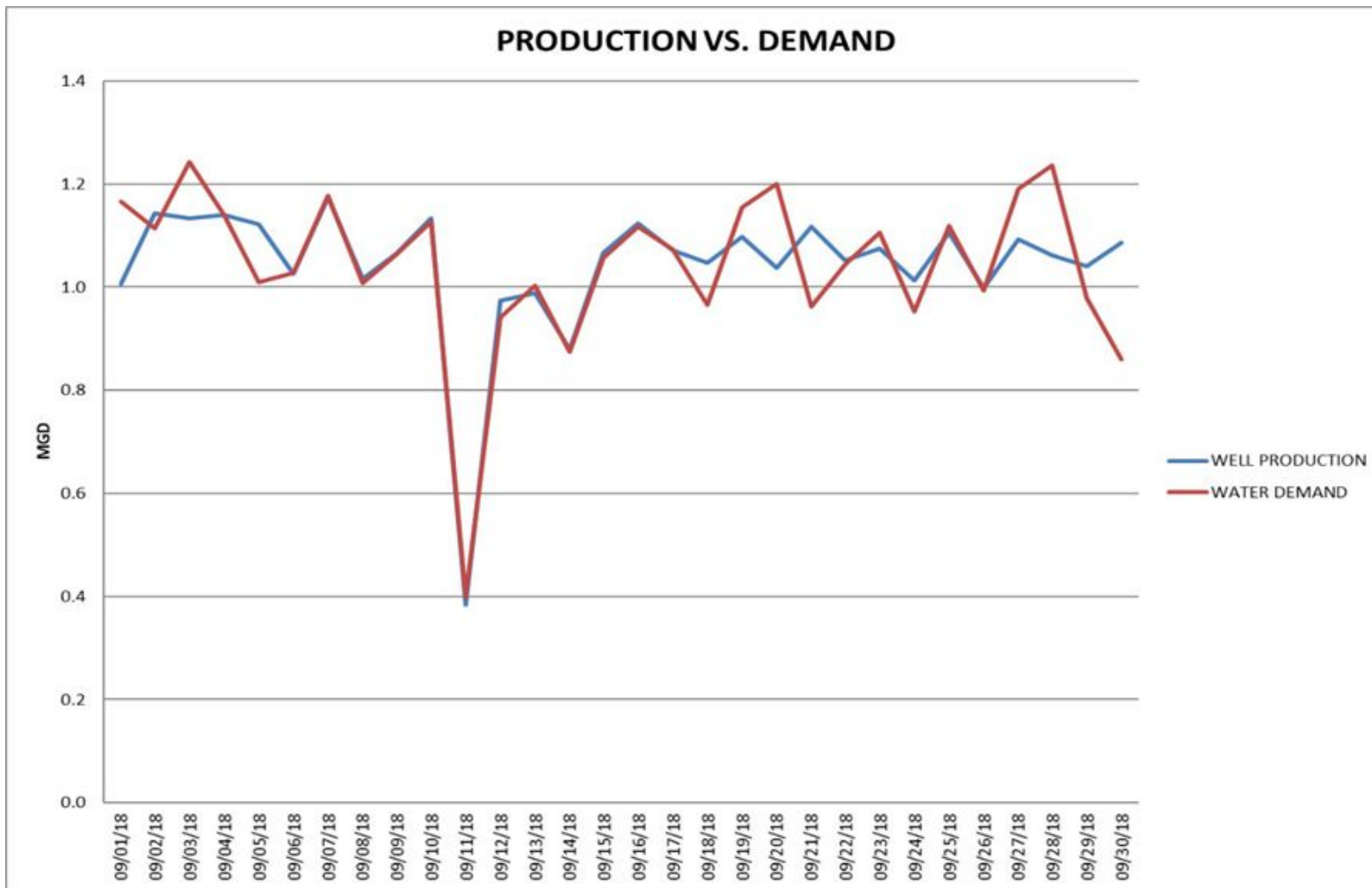
Production

Monthly Production Summary - September 2018			
Deep Wells		35.6 MGD	
Active wells =	100 of 120		
Avg days in operation =	30 days		
Total Production =	1,066,897 Kgals		
Springs		0.00 MGD	
Avg days in operation =	0 days	*placed on standby	
Total Production =	0 Kgals		
Ugum Surface Water Plant		1.8 MGD	
Avg days in operation =	30 days		
Total Production =	54,553 Kgals		
Tumon Maui Well		1.04 MGD	
Avg days in operation =	30 days		
Total Production =	31,275 Kgals		
		1,152,725 Kgals	38.4 MGD

DW Status as of 9/30/2018	
Active	100
Grounded motor	1
Out of commission	11
Secured, PFOs	2
Standby	6
TOTAL	120

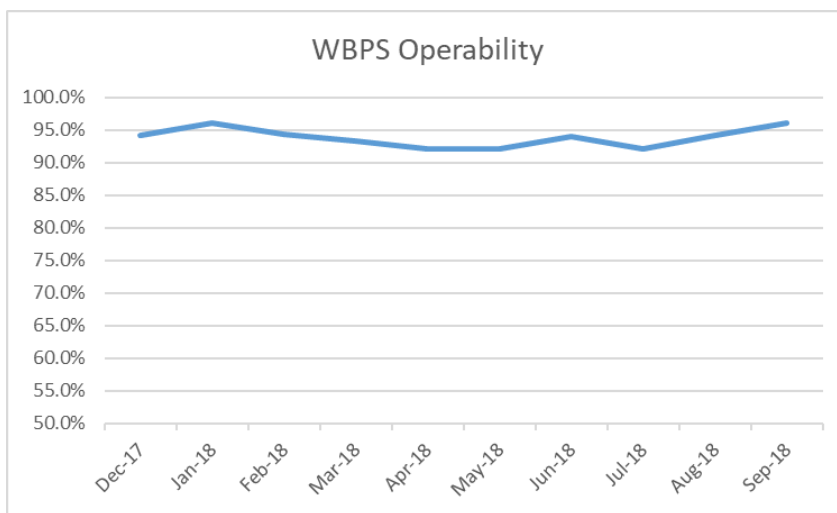


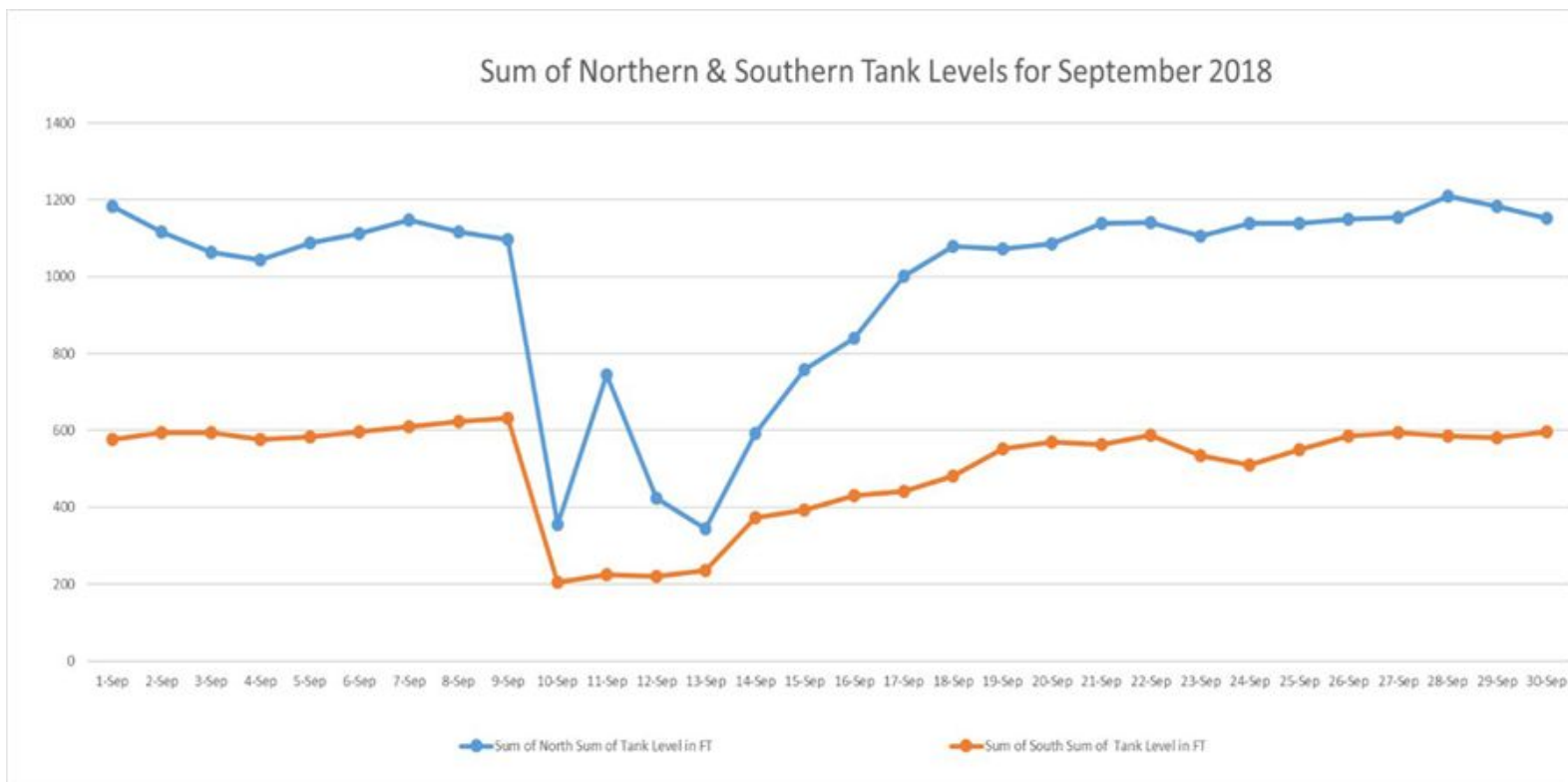
Tumon Maui Well Production vs. Demand for September 2018



Distribution

Monthly Distribution Summary - September 2018					
Water Booster Pump Stations					
	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	11	21	19	90.5%
	Central	7	15	15	100.0%
	Southern	7	15	15	100.0%
		25	51	49	96.1%





Wastewater Collections

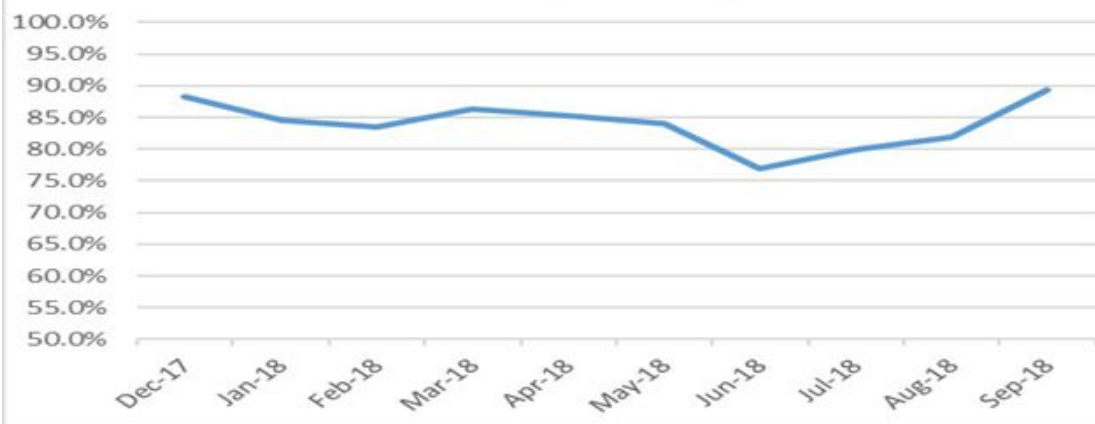
Monthly Collections Summary - September 2018**Wastewater Pump Stations**

	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	22	52	48	92.3%
	Central	29	65	55	84.6%
	Southern	25	52	48	92.3%
		76	169	151	89.3%

**CCTV Inspection and Sewer Cleaning
August & September 2018**

	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
Target	4.95	4.95	4.95	4.95	4.95	5	5	5	5	5
Total Actual Miles	5.9	2.86	4.95	2.8	6.5	6.5	4.3	4.9	3.62	3.81

■ Target ■ Total Actual Miles

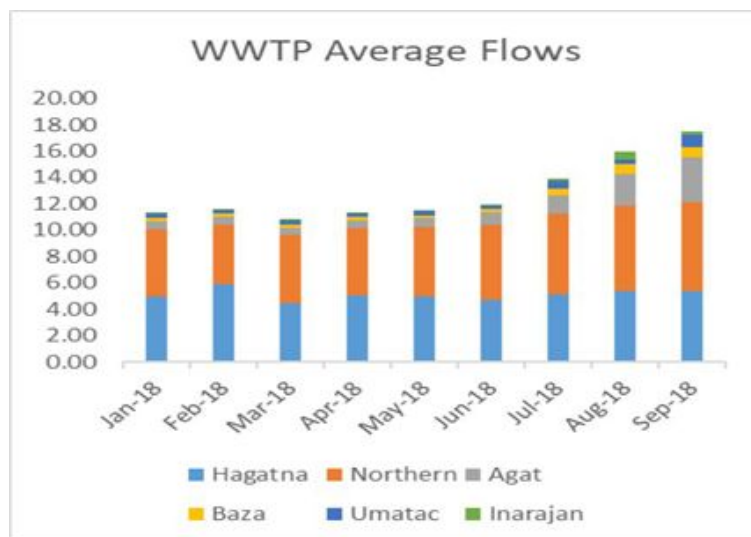
WWPS Operability

Wastewater Treatment

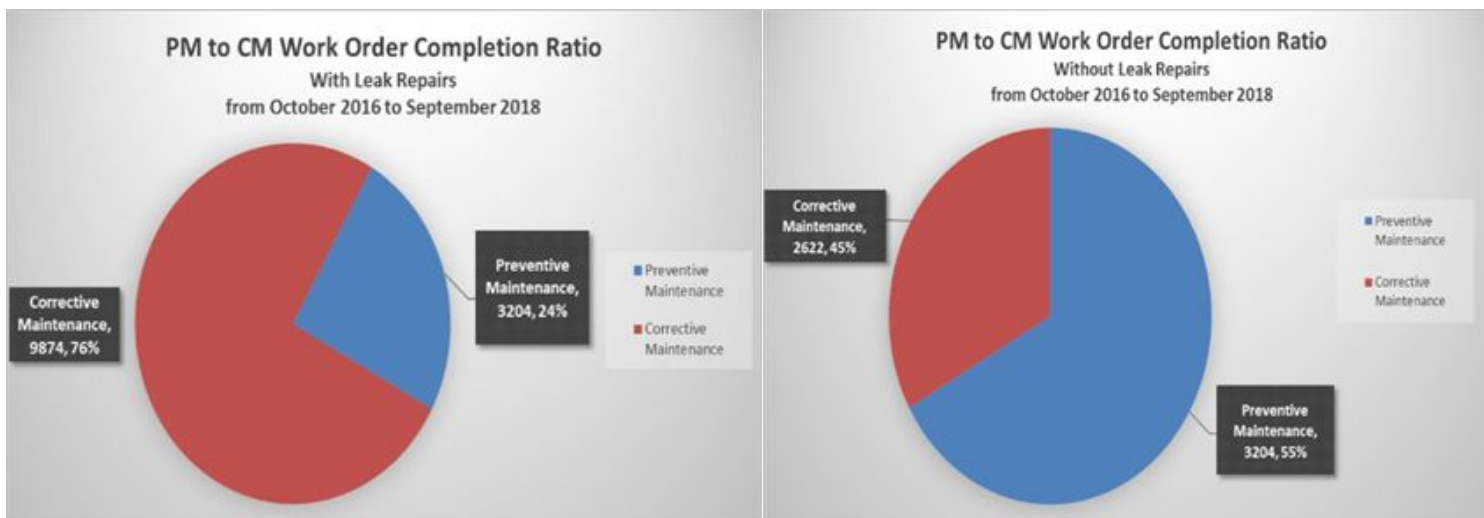
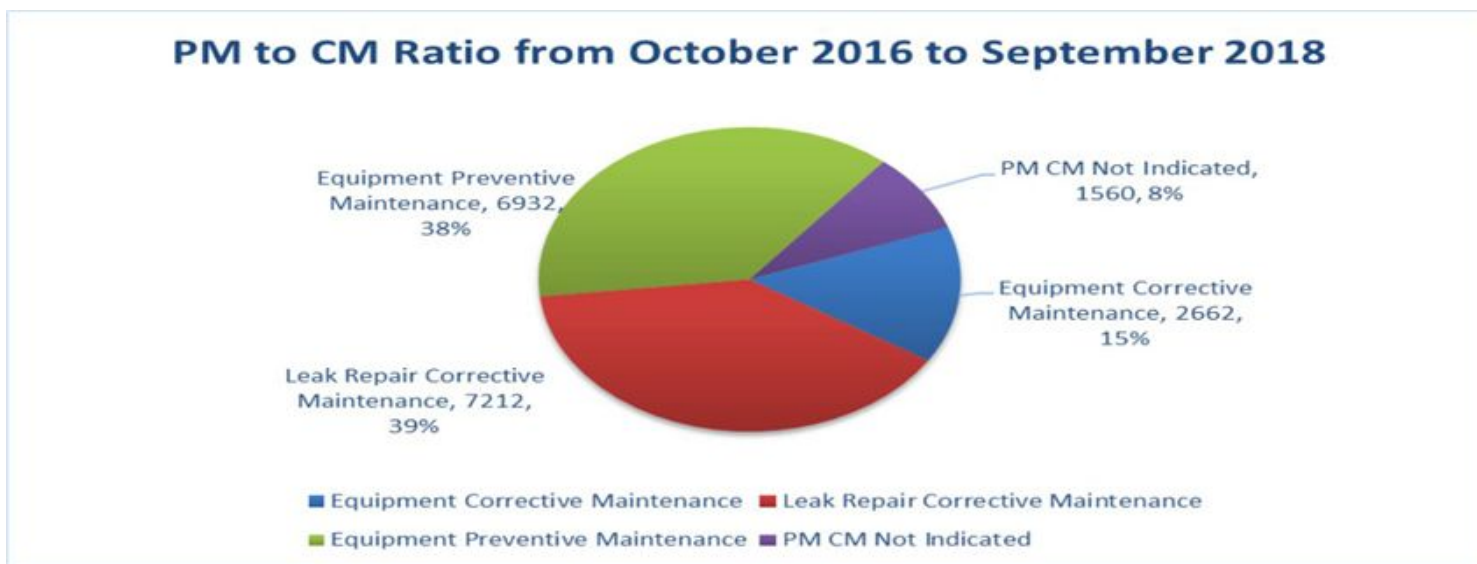
Monthly Wastewater Treatment Summary - September 2018

WW Treatment Plants - Flows

	Facility	Avg. Daily Flows	Sludge (lbs)	Sludge Disp. (\$)
	Hagatna	5.40	333,740	\$ 30,037
	Northern	6.7	711,820	\$ 64,064
	Agat	3.46		
	Baza	0.75		
	Umatac	0.90		
	Inarajan	0.24		
		17.45	1,045,560	\$ 94,100



Asset Management for September 2018



Operational Issues

Production & Distribution

- Leak repair
 - Crews maintaining performance - As of October 15th, there were 17 pending repairs
 - Notice of Award has been awarded for advanced remote leak detection services
 - GWA's Line and Leak Repair Unit has been nominated for and received MAGPRO award for Cost Savings/Innovative Idea of the Year (Large Department/Agency)
- WSCC –
 - SCADA preparation on-going
 - Successfully coordinated activation of new Yigo WBPS to maintain service at Mt. Santa Rosa when Y-15 recently went down
 - Reservoir levels have been stable with very good levels maintained
- Pump and motor inventories okay; additional procurement for FY2019 is in the works
- Ugum WTP – Contractors on-site for SCADA upgrades

Wastewater Collection & Treatment

- CCTV & Collections System:
 - SSES and CCTV-based repairs to collection lines and SMHs are still on-going
 - CCTV equipment and Combination trucks need service – pending POs
- Pump stations
 - Working to address pump operability issues
 - Minimum pump and motor inventory levels finalized (similar to effort with deep-wells)
 - Critical spares and replacements procurement – awarded; initial orders pending
- Treatment Plants
 - Hagatna WWTP
 - One of two Centrifuges work needed (50% operability)
 - Clarifier – chain/flight sprocket needs repair
 - Digester aerator – gear-box issue
 - Northern WWTP
 - No. 2 centrifuge gear-box failed; new part order being prepared
 - Agat-Santa Rita WWTP
 - Critical process facilities all operating
 - UV issues being resolved

- U-M WWTP
 - Work on-going at the site
 - Significant delays have occurred because of USF&W / EPA permitting issues
 - Delay letter has been sent to USEPA
- Baza Gardens
 - Work on-going for all 3 phases
 - Last leg of gravity line to plant is on-going
 - Delay letter has been sent to USEPA

Meters for month of September 2018

COMPLETED FIELD ACTIVITY JAN 2017 THRU SEPT 2018 (POSTED IN CIS)	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	TOTAL:	COMPLETED FIELD ACTIVITIES (IN PROCESS) TO BE POSTED IN CIS
GWA - Test Meter	30	9	9	371	745	87	393	743	1000	1007	434	378	750	969	1213	1429	84	1299	797	1489	639	13875	699
GWA - Meter Exchange	393	179	220	276	482	353	501	807	1526	1039	452	259	239	1086	2120	121	121	1056	1248	1125	767	14370	146
GWA - Verify Zero Report	30	124	114	94	96	402	261	199	550	89	82	169	356	106	117	69	13	2	2	1	5	2881	0
GWA - Verify Low Usage	0	0	0	2	37	36	196	488	657	202	127	612	858	1122	1055	463	19	5	3	6	6	5894	0
TOTAL:	453	312	343	743	1360	878	1351	2237	3733	2337	1095	1418	2203	3283	4505	2082	237	2362	2050	2621	1417	37020	845

REPORTS:	345	350	144	252	305	210	302	397	1013	1130	927	704	721	1041	1347	815	671	544	1159	1216	1013	14606	
# OF BACKBILLINGS APPLIED AS PER FINANCE REPORTS:	0	0	0	20	122	84	29	111	219	80	77	4	136	23	323	48	75	20	30	253	243	1897	\$ 1,200,616.28
# OF FIELD CREW PERFORMING CHANGE OUTS:	19	10	13	9	21	21	14	24	35	28	28*	28*	5	13	2	2	2	28	17	25	25		
# OF ADMIN STAFF TO CREATE AND POST FIELD ACTIVITIES IN CIS:	7	4	5	6	9	9	10	13	15	15	13	13	8	11	5	4	1	13	9	5	5		
# OF SUPPLY STAFF TO ISSUE MATERIALS AND PROGRAM NEW METERS:	2	2	2	2	2	2	2	2	2	2	2	2	2	4	0	0	0	2	2	2	2		
# OF TEST FACILITY PERSONNEL TESTING METERS:	2	2	2	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	1	2	2		
# OF ACCOUNTANTS CALCULATING BACK BILLS:	0	0	0	2	3	2	2	3	3	2	2	2	2	2	2	2	2	2	2	N/A	N/A		
TOTAL:	30	18	22	22	38	37	31	45	58	50	48	48	20	32	11	10	7	47	31	34	34		

*Project overtime on hold Nov 18, 2017 thru Dec 16, 2017. During this period, 4 personnel performed work on this project during the regular work day with a majority of the work completed during Nov and Dec month occurring before and after the OT moratorium.

NOTE: MARCH 18, 2018 - PROJECT ON HOLD PENDING ARRIVAL OF METERS

Project resumed June 04 2018; added 2 hrs per weekday field work on June 18, 2018

REMAINING ACTIVE BADGER LP MODELS AS OF SEPT 30, 2018: 17024

ACTIVE LP MODELS - PURCHASE MO & YEAR	COUNT	
2012	8774	14336 WARRANTY EXPIRED
Jan-13	2088	
Feb-13	730	
Mar-13	636	
May-13	1425	
Aug-13	683	
Feb-14	66	2688 ACTIVE WARRANTY
Mar-14	1	
Apr-14	1168	
Jun-14	70	
Aug-14	1383	

Marbo (Andy-South) Wells – Status

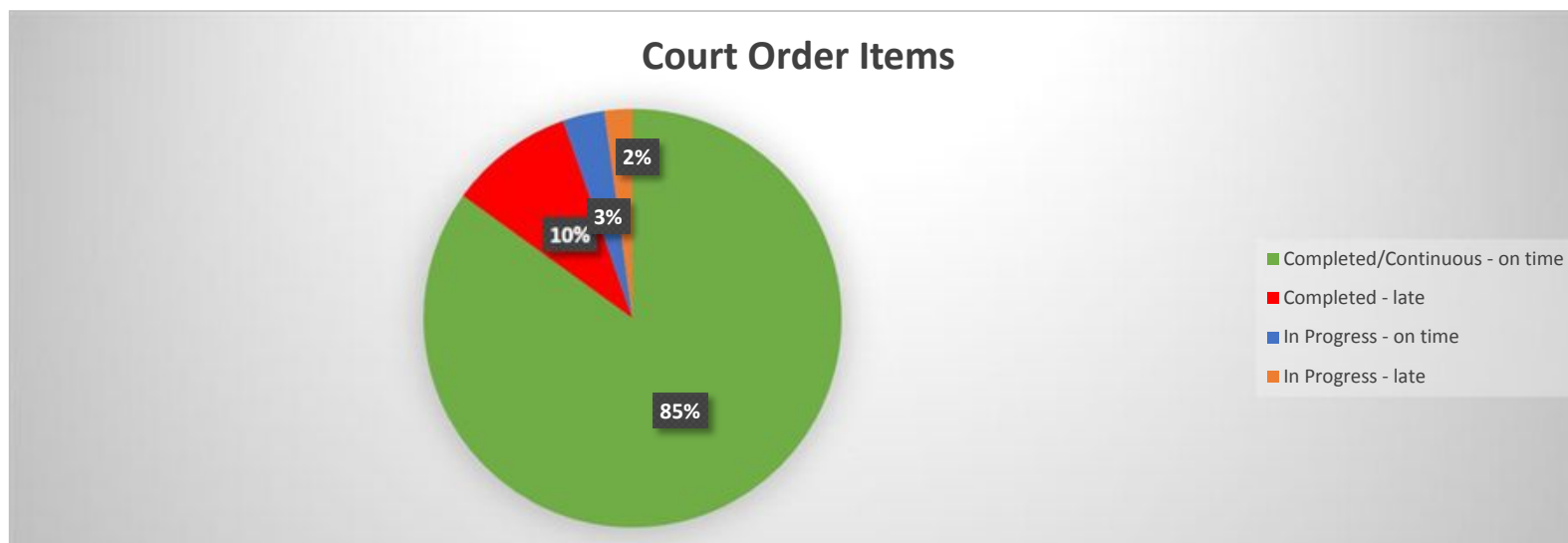
- Involuntary reversion appears imminent; GWA Counsel transmitted draft easement documents to GSA for consideration with DoD;
- GSA informed us late September that they are out of the loop, and referred us back to US Dept. of Education

One Guam Update

- Tumon Maui Well:
 - Repairs to damaged fence completed; Repairs to tank hatch pending.
- Santa Rosa Tank:
 - NAVFACMAR CO has briefed Andersen MSG (Missions Support Group) commander, and Civil Engineering Squad (CES) commander, and the General regarding the MOU for the Santa Rosa Tank project. Further action by GWA pending finalization of MOU.
- Agat-Santa Rita WWTP
 - Still waiting on revised letter from Navy real estate office regarding in-kind consideration for easement costs.
- OEA Projects
 - NGLA Observation Wells - Discussion with DoD's Legal needed to nail down ownership and maintenance issues
 - Interceptor – working out coordination issues with regard to by-pass routing, GPA renewable project, and housing demo
- Training and Collaboration
 - AWWA HIWPS training for operators – waiting for DoD interest
 - CIPP training scheduled for this month Oct 22-26.
- 30-Other
 - Utilis (satellite-based leak detection) - DOD is interested in the Utilis project.
 - Data Sharing SOP/MOU - In final draft stage. Waiting on review from Air Force.
 - Connection by Developer to Navy/Murray Road - Pending SHPO; Maria Lewis will keep on top of it.
 - Cabras Island Water Lines – further action pending GWA review
 - Navy Raw Water Lines - GWA asked about tapping into the Navy raw water lines, as this was brought up before. DOD is reviewing what cost might be for raw water based on this request.

Court Order

	Items	On-time Items Completed/Continuous	Items Delayed	Completed Late	Items on Schedule	Performance %
Court order total	93	79	2	9	3	97.8%



Status Information

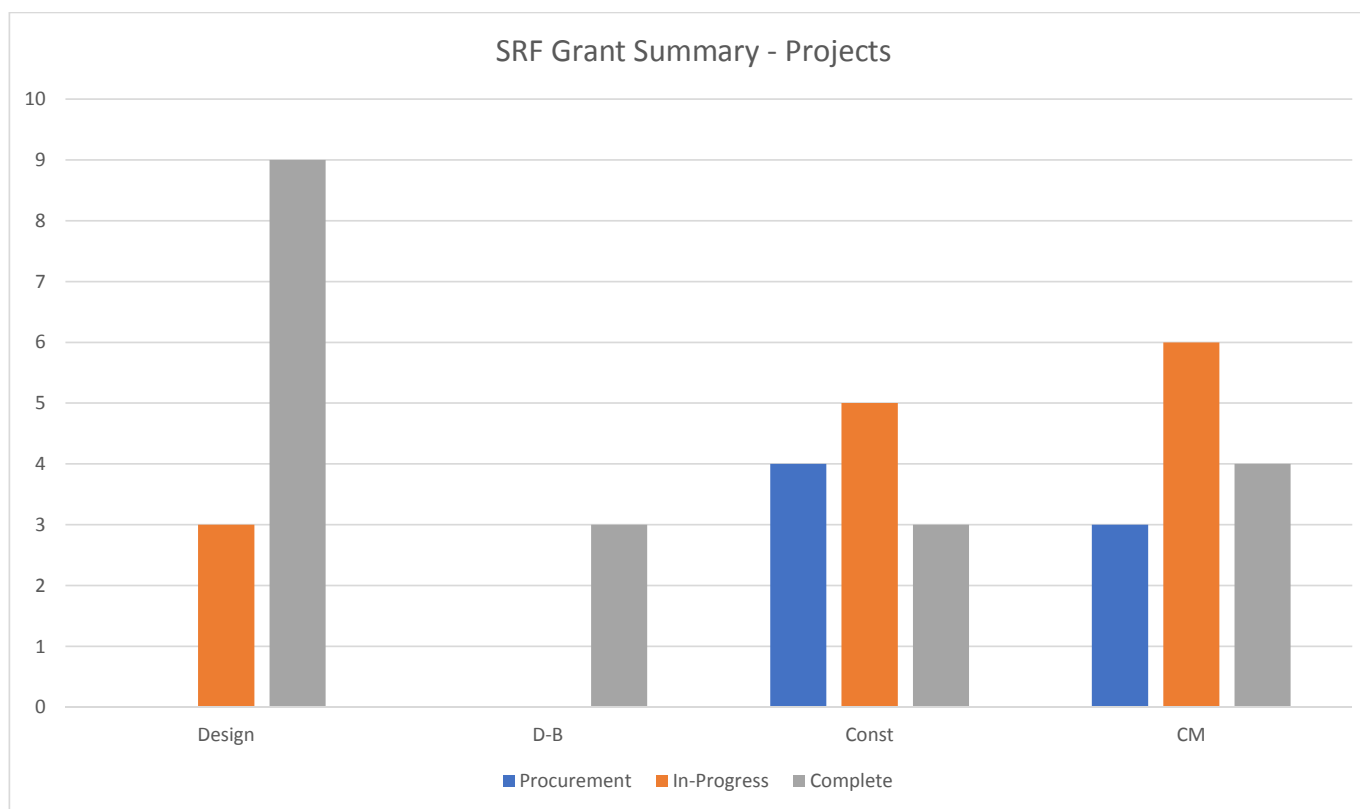
- 2 items delayed
 - Meters
 - Baza Gardens Sewer Line
- Final Date to complete all Court Order items is December 31, 2020.
- Overflow or Bypass events reported to USEPA:
 - 09/23/2018, Chalan Canton Tasi Merizo, sewer overflow (next to PS-17) Rain
 - 09/29/2018, Pump Station 14 Merizo, damaged force main
 - Umatac WWTP, Bypass 08/16 to 10/09; 2018; (ended Oct. 9th)

CIP Summary

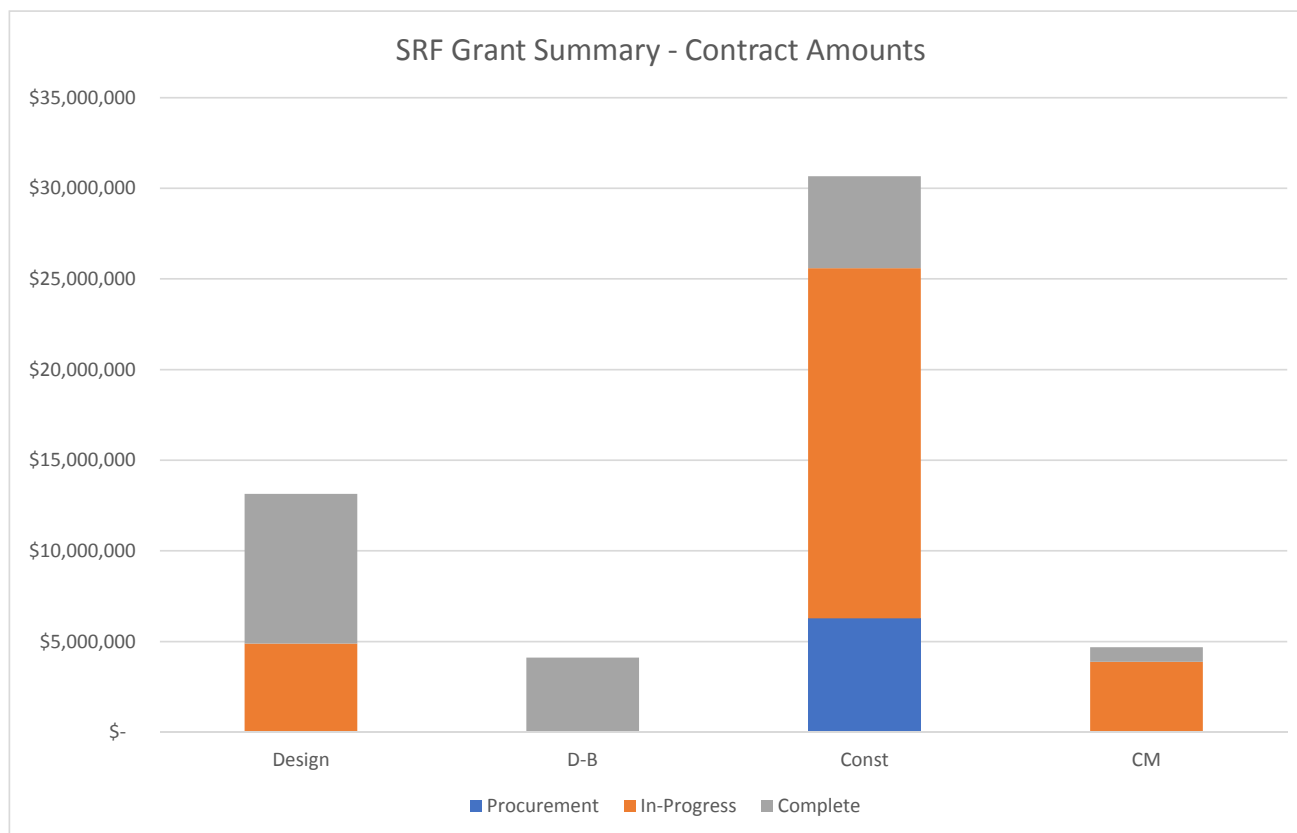
Pending reconciliation between Engineering and Finance

SRF Grant Summary

SRF Grant Summary - Projects (Sep 2018)					
	Procurement	In-Progress	Complete	Totals	%
Design	0	3	9	12	30%
D-B	0	0	3	3	8%
Const	4	5	3	12	30%
CM	3	6	4	13	33%
Totals	7	14	19	40	
%	18%	35%	48%		



SRF Grant Summary - Contract Amounts (Sep 2018)					
	Procurement	In-Progress	Complete	Totals	%
Design	\$ -	\$ 4,892,286	8,249,328	\$ 13,141,614	25%
D-B	\$ -	\$ -	\$ 4,108,217	\$ 4,108,217	8%
Const	6,275,782	\$ 19,309,043	\$ 5,086,130	\$ 30,670,955	58%
CM	\$ -	\$ 3,877,036	\$ 802,243	\$ 4,679,279	9%
Totals	\$ 6,275,782	\$ 28,078,365	\$ 18,245,918	\$ 52,600,065	
%	12%	53%	35%		



OEA Grant Summary

- NDWWTP Upgrades
 - 60% design submittal received on schedule on Sep 24th.
 - Sitework bid package issued – Bids due on the 18th
 - Workshop on 60% Design – October 17th – 19th
 - Vertical bid package planned for issuance Mar 2019
- Outfall Diffuser:
 - Re-bid package issued
 - Bids received and currently being evaluated
- Sewer Line Interceptor Design-Build
 - Contract Award / NTP issued
 - Design and prep work have started
 - 30% Design submittal expected October 4th
 - 60% Design submittal expected October 18th
 - 90% Design submittal expected December 20th
 - Construction start expected in January
- NGLA Observation wells – Design work completed
 - Bid package drawings and specs under review by GWA
 - Permitting issues being resolved and permits being obtained by PM/CM
 - Bid package to be issued once permits approved – expected in Mar 2019

Action Item	Date (Target)	Date (Actual)	Status	Remarks
Project Funds Available	July-16	AUG-30-16	Completed	
Land Acquisition	Jan-17	Jan-17 (Compensation Pending)	Completed	Survey complete, appraisals complete – Deed circulated for signatures
Procure PM/CM Firm	Jan-17	Jan-17 (NTP Issued Feb 10th)	Completed	
Procure Design Firm	Jul-17		Completed	Contract issued; kickoff pending
Design -- 30/60/90/Final -- Review	Jun-18	30% - completed May 60% - expected Sep	On-target	Project design schedule has been revised / delayed
NEPA Analysis and Determination	Feb-17	Pending	Delayed	USEPA received SHPO concurrence; OEA to review EPA EA
Procure Construction Firm	Dec-18		On-target	Phased construction; Phase 1 expected award before Dec '18; Phase 2 award in 1 st quarter '19
Construction Complete/Commence Operations	Nov-21		On-target	
Sewer line connection from MCB to GWA infrastructure	Jul-19		On-target	
MCB Initial Operating Capability	Jul-22		On-target	

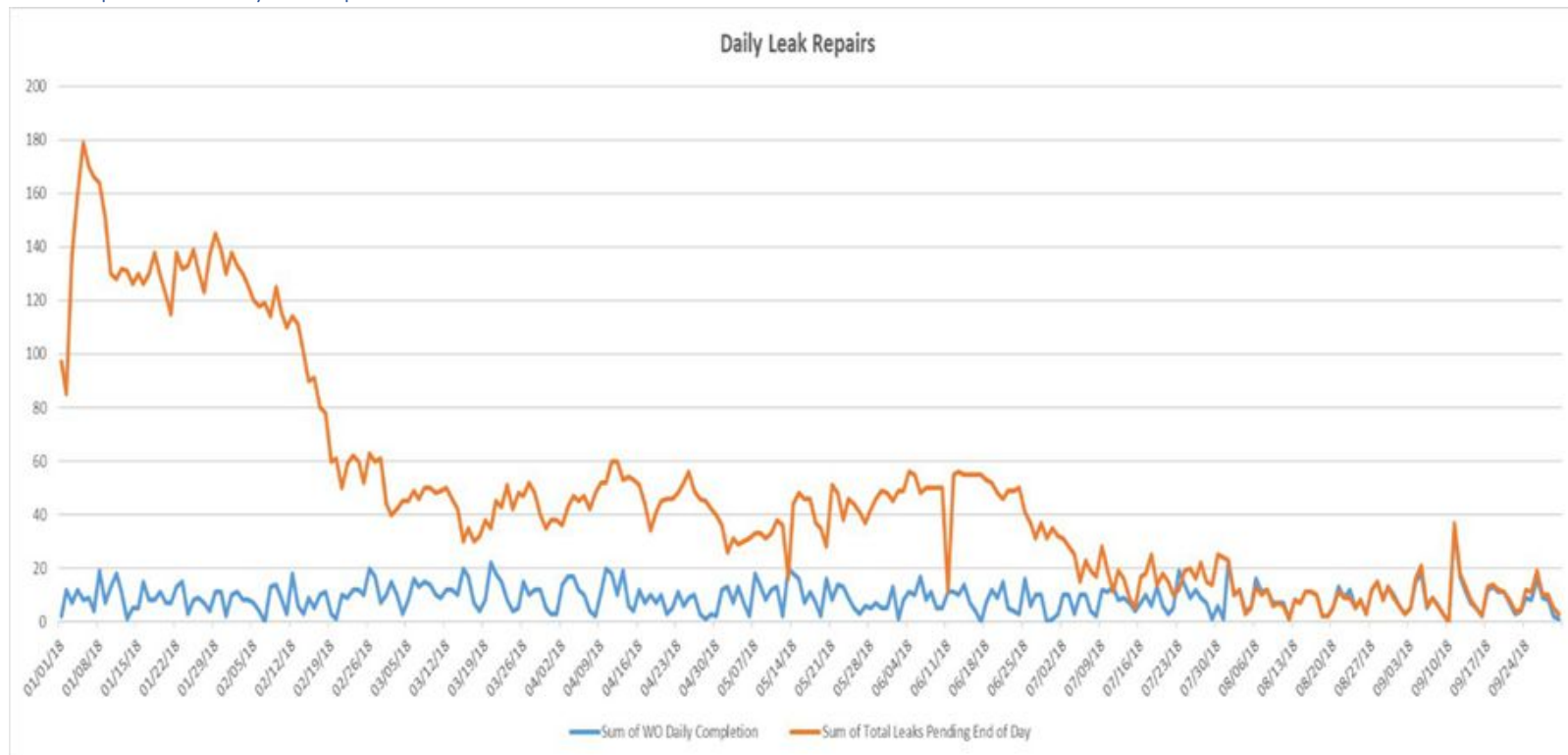
Land Acquisition Summary

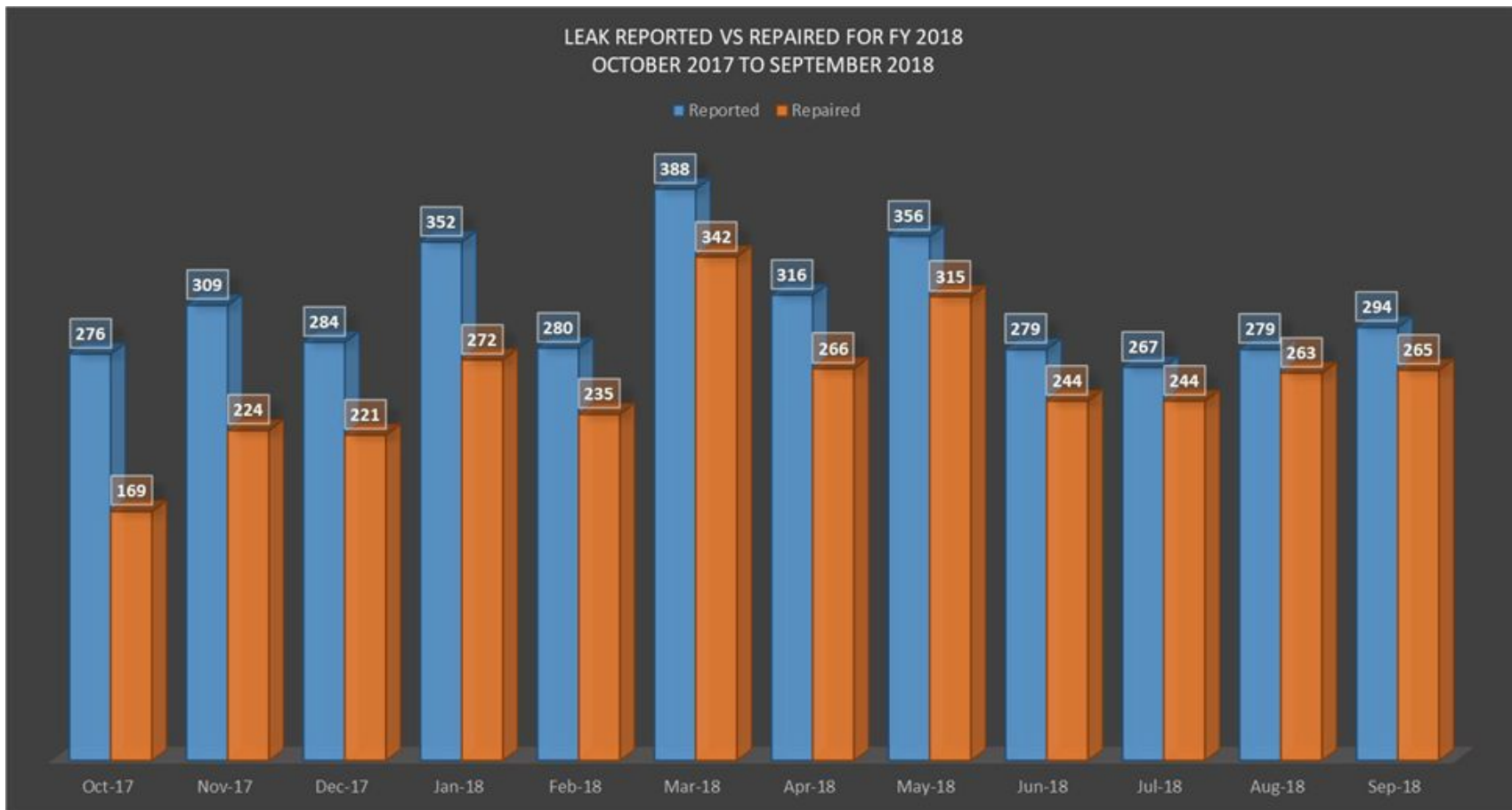
GWA Facility	Location	Gov. or Private Property	Land Acquisition Status
Tanks	Ugum	Private	Pending response for L3 B4 T3521 for acceptance of GWA offer 09/25/18. Acceptance of Counter offer Letter for L4 B4 T3521 drafted and sent to GM for review and approval 10/09/18.
	Astumbo	Gov't. - CLTC	GWA and DLM working together on Land Registration process. Pending Notification of surrounding lot owner information from DLM
	Piti	Private	Preliminary geotechnical investigation and archaeological investigation in the process 05/01/18
Expansion of the Northern District Wastewater Treatment Plant (NDWWTP)	Dededo	Gov't - GALC	Land acquisition completed and filed under GWA ownership 09/17/18
Deep Wells	AG-12	Dept. of Agriculture/Manhita Farms	Land Registration has been approved by Superior Court of Guam. Pending release and recordation of the Decree Establishing Title at DLM. DCA will be submitting Retracement Survey Check Print Map to DLM for review and comments 07/13/18. Right of Entry Agreement sent to Dept of AG for signature 05/24/18. 2 nd follow up sent on 09/12/18.
	Y-8	Gov't. - CLTC	Grant Deed submitted to DLM for Governor and AG signature 09/13/2018. Follow up status request sent to DLM 10/10/18.
Booster Pump Station	Agfayan	Private	3 rd follow up request to DLM Administrator on request for authorization on archeological testing for L28, B19, T3734, Inarajan 10/09/18.
Sewer Pump Stations	2 nd Adjacent Property to Southern Link	Private	Land Purchase and Sale Agreement sent to GM for review and approval 09/07/18
Asan Springs	Asan	Federal	License Agreement for Asan Springs facility that fall on Dept. of Park Services property currently under DOI review

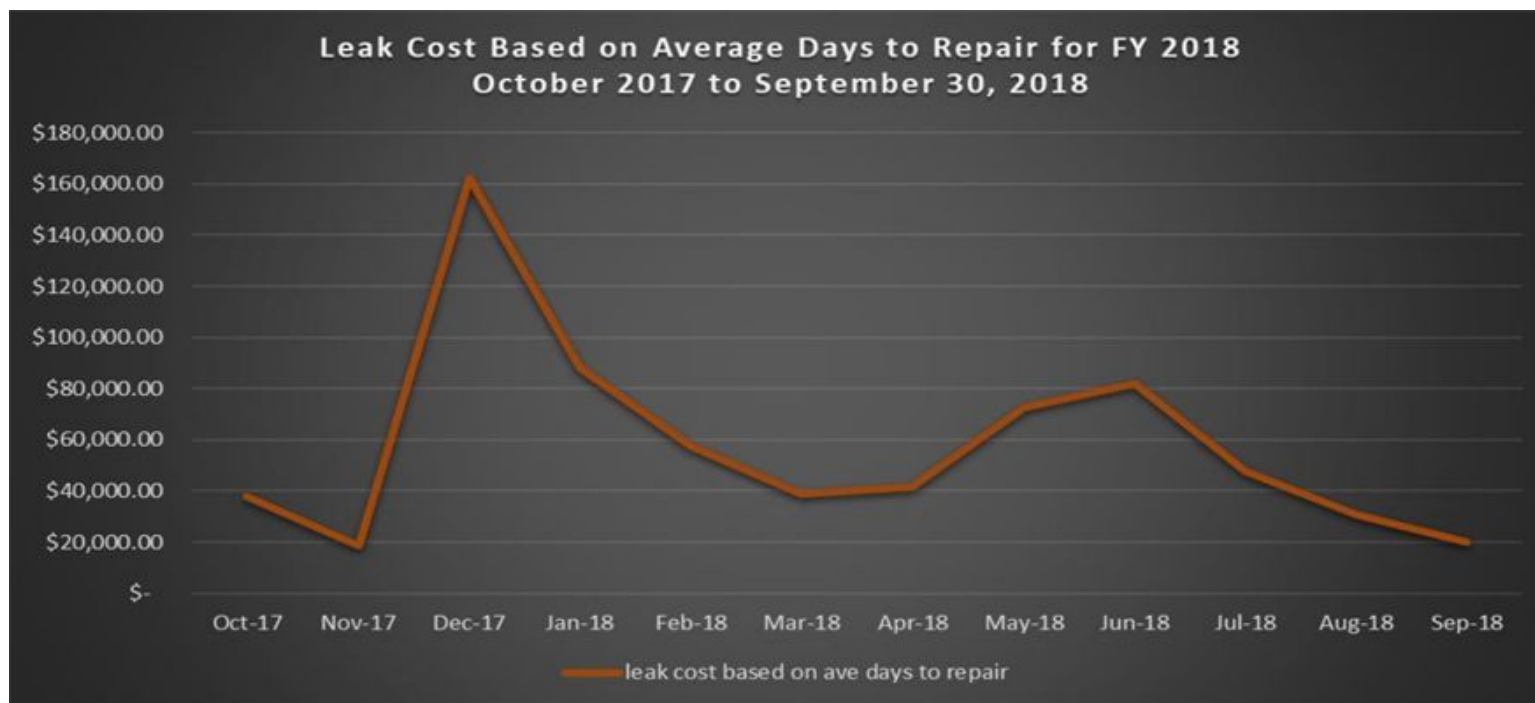
NRW – Update

- Water Loss Control Program activities are on-going
 - Review of latest numbers is underway.
 - Production meter replacement program is under design for 65 well sites. Portable flow meter is being procured to calibrate existing meters.
 - District Metering Areas are currently being developed for pilot project. Locations have been identified. Grant application was submitted for this pilot project
 - DOI Grant application has been approved for training and equipment.

Leak Repair Summary for September 2018







Assumptions:

1. Leak rate = 4 gpm
2. Cost per kgal = \$4.00

**GUAM WATERWORKS AUTHORITY
SEPTEMBER 30, 2018
FINANCIAL AND RELATED REPORTS
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GUAM WATERWORKS AUTHORITY
Balance Sheet
September 30, 2018

SCHEDULE A

	Unaudited September 30, 2018	Audited September 30, 2017	Increase (Decrease)
ASSETS AND DEFERRED OUTFLOWS OF RESOURCES			
<u>Current Assets</u>			
Cash			
Unrestricted (Schedule G)	3,129,619	4,873,275	(1,743,656)
Restricted Funds (Schedule G)	66,780,407	65,124,400	1,656,007
Accounts Receivable Trade, Net of Allowance for Doubtful Receivables of \$4,669,462 at Sep 30, 2018 and \$12,619,034 at Sep 30, 2017	17,308,603	15,450,733	1,857,870
Other Receivable	5,187,985	8,433,446	(3,245,461)
Materials & Supplies Inventory, Net of Allowance for Obsolescence of \$457,370 at Sep 30, 2018 and \$457,370 at Sep 30, 2017	2,949,318	2,166,557	782,761
Total Current Assets	95,355,932	96,048,411	(692,479)
<u>Property, Plant and Equipment</u>			
Utility plant in service			
Water system	350,474,149	327,484,191	22,989,957
Wastewater system	299,555,786	286,394,940	13,160,846
Non-utility property	16,735,320	18,938,255	(2,202,935)
Total property	666,765,254	632,817,387	33,947,867
Less Accumulated Depreciation	(301,409,253)	(286,043,580)	(15,365,673)
Land	3,681,120	1,110,998	2,570,123
Construction Work in Progress	173,368,111	111,695,887	61,672,224
Property, Plant and Equipment, net	542,405,232	459,580,691	82,824,541
<u>Other noncurrent assets</u>			
Restricted cash (Schedule G)	177,176,880	236,550,002	(59,373,122)
Investments (Schedule G)	43,097,913	41,042,038	2,055,874
Other Prepaid Expenses	630,074	551,128	78,946
Total other noncurrent assets	220,904,867	278,143,169	(57,238,302)
Total Assets	858,666,032	833,772,271	24,893,761
Deferred outflows of resources			
Debt defeasance due to bond refunding	13,405,986	1,695,981	11,710,005
Deferred outflows from pension	4,939,650	4,943,777	(4,127)
Total Assets and Deferred Outflows of Resources	877,011,668	840,412,029	36,599,639
LIABILITIES, DEFERRED INFLOWS OF RESOURCES AND NET ASSETS			
<u>Current Liabilities</u>			
Current maturities of long-term debt			
Series 2010 Bond	1,800,000	1,725,000	75,000
Series 2014 Refunding	3,620,000	3,475,000	145,000
Series 2017 Refunding	295,000	-	295,000
Notes Payable	3,145,406	3,037,569	107,837
Accounts Payable -Trade	5,509,047	5,390,256	118,791
Interest Payable	6,427,669	6,656,499	(228,831)
Accrued Payroll and Employee Benefits	1,918,786	2,604,471	(685,685)
Accrued Annual Leave	1,059,161	1,729,291	(670,130)
Current portion of employee annual leave	604,009	567,057	36,952
Contractors' Payable	23,593,602	13,950,287	9,643,315
Customer and Other Deposits	2,004,021	2,014,435	(10,414)
Other Liabilities	72,817	72,772	45
Total Current Liabilities	50,049,518	41,222,638	8,826,880
<u>Long Term Debt, less current maturities</u>			
Series 2010 Revenue Bond	1,895,000	112,800,000	(110,905,000)
Series 2013 Revenue Bond	172,630,000	172,630,000	-
Series 2014 Refunding Bond	68,900,000	72,520,000	(3,620,000)
Series 2016 Revenue Bond	143,310,000	143,310,000	-
Series 2017 Refunding Bond	107,365,000	-	107,365,000
Unamortized Bond Premium/Discount	33,300,619	18,861,393	14,439,225
Notes Payable	2,383,618	5,533,918	(3,150,300)
Unfunded Ret Liability (GASB 67/68)	49,243,798	49,243,798	-
Employee Annual Leave, Less Current Portion	826,194	783,992	42,202
Total Liabilities	629,903,746	616,905,739	12,998,007
Deferred inflows of resources:			
Deferred inflows from pension	169,283	564,514	(395,231)
Total Liabilities and Deferred Inflows of Resources	630,073,030	617,470,253	12,602,777
Net Assets	246,938,638	222,941,776	23,996,862
Total Liabilities, Deferred Inflows of Resources and Net Assets	877,011,668	840,412,029	36,599,639

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings (Unaudited)
Comparative Budget vs. Actual for the period ending September 30, 2018

SCHEDULE B

	Month to Date		Variance
	Budget	Actual (Unaudited)	Favorable /
	September-18	September-18	(Unfavorable)
OPERATING REVENUES			
Water Revenues	5,743,160	6,862,796	1,119,636
Wastewater Revenues	3,228,257	3,036,655	(191,603)
Legislative Surcharge	291,896	402,572	110,676
Other Revenues	57,638	41,613	(16,025)
System Development Charge	46,136	40,214	(5,922)
Total Operating Revenues	9,367,087	10,383,850	1,016,763
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	591,113	562,522	28,592
Power Purchases	1,137,997	1,137,732	265
Total Utility Costs	1,729,110	1,700,254	28,856
Salaries and Wages	1,625,056	1,267,873	357,183
Pension and Benefits	584,558	397,748	186,810
Total Salaries and Benefits	2,209,614	1,665,622	543,993
Capitalized Labor and Benefits	(208,333)	(208,333)	(0)
Net Salaries and Benefits	2,001,281	1,457,289	543,992
Administrative and General Expenses			
Sludge removal	101,514	99,178	2,336
Chemicals	144,997	142,844	2,153
Materials & Supplies	337,900	488,589	(150,690)
Transportation	162,370	159,789	2,581
Communications	16,182	13,111	3,071
Claims	21,100	17,417	3,683
Insurance	79,757	78,858	898
Training & Travel	46,814	45,412	1,403
Advertising	43,910	41,497	2,413
Miscellaneous	85,515	84,253	1,262
Regulatory Expense	25,086	24,540	547
Bad Debts Provision	57,103	109,693	(52,591)
Total Administrative and General Expense	1,122,248	1,305,180	(182,932)
Depreciation Expense	1,528,175	1,528,175	(0)
Contractual Expense			
Audit & Computer Maint.	108,630	105,344	3,286
Building rental	37,955	36,262	1,693
Equipment rental	57,375	91,142	(33,767)
Legal	4,167	600	3,567
Laboratory	34,752	33,119	1,632
Other	130,363	287,165	(156,802)
Total Contractual Expense	373,241	553,632	(180,390)
Retiree Supp. Annuities and health care costs	240,008	241,153	(1,145)
Contribution to Government of Guam	49,500	49,833	(333)
Total Retiree Benefits	289,508	290,986	(1,478)
Total Operating Expenses	7,043,563	6,835,516	208,047
Earnings (Loss) from Operations	2,323,524	3,548,334	1,224,810
Interest Income-2010/13/14/16/17 Series Bond	15,727	601,430	585,703
Interest Income-Other Funds	2,935	117,897	114,962
Interest Income-SDC	2,414	19,644	17,230
Interest Expense- 2010/13/14/16/17 Series Bond	(2,625,587)	(2,137,785)	487,803
Interest Expense- ST BOG	(33,288)	(43,437)	(10,149)
Federal Expenditures	(51,332)	(58,177)	(6,845)
Loss on Asset Disposal	-	(721,784)	(721,784)
AFUDC	625,000	625,000	-
Amortization of Discount, Premium and Issuance Costs	(61,861)	(77,542)	(15,681)
Defeasance due to bond refunding	(15,218)	(12,444)	2,775
Deferred outflows from pension	(105,281)	32,592	137,873
Prior Year Adjustment	-	-	-
Total non-operating revenues (expenses)	(2,246,492)	(1,654,606)	591,886
Net Income (Loss) before capital contributions	77,032	1,893,728	1,816,696
Capital Contributions			
Grants from US Government	873,108	1,905,326	1,032,218
Grants from GovGuam & Others	-	-	-
Other Contributions	-	-	-
Total Capital Contributions	873,108	1,905,326	1,032,218
Change in Net Assets	950,140	3,799,055	2,848,914
Debt Service Calculation			
Earnings From Operations	2,323,524	3,548,334	
System Development Charge	(46,136)	(40,214)	
Retiree COLA	49,500	49,833	
Interest/Investment Income	2,935	117,897	
Depreciation	1,528,175	1,528,175	
Balance Available for Debt Service per Section 6.12	3,857,998	5,204,025	
Working Capital Reserve Available for Debt Service	932,265	935,321	
Transfer to Working Capital- Debt Service Reserve	(150,000)	-	
Transfer to Working Capital- O&M Reserve	(266,667)	-	
Balance Available for Debt Service inclusive of reserves	4,373,596	6,139,346	
Debt Service			
Principal	433,333	433,333	
Interest	2,063,402	1,794,910	
Total	2,496,736	2,228,243	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.55	2.34	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.75	2.76	

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings (Unaudited)
Comparative for the period ending September 30, 2018 and 2017

SCHEDULE C

	Month to Date		Variance
	Actual (Unaudited)	Actual (Audited)	Favorable /
	September-18	September-17	(Unfavorable)
OPERATING REVENUES			
Water Revenues	6,862,796	5,331,404	1,531,392
Wastewater Revenues	3,036,655	3,099,528	(62,873)
Legislative Surcharge	402,572	267,269	135,303
Other Revenues	41,613	36,293	5,321
System Development Charge	40,214	72,662	(32,448)
Total Operating Revenues	10,383,850	8,807,155	1,576,695
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	562,522	609,094	46,572
Power Purchases	1,137,732	1,006,355	(131,377)
Total Utility Costs	1,700,254	1,615,449	(84,805)
Salaries and Wages	1,267,873	1,413,608	145,735
Pension and Benefits	397,748	490,400	92,652
Total Salaries and Benefits	1,665,622	1,904,009	238,387
Capitalized Labor and Benefits	(208,333)	(262,516)	(54,183)
Net Salaries and Benefits	1,457,289	1,641,493	184,204
Administrative and General Expenses			
Sludge removal	99,178	140,487	41,309
Chemicals	142,844	174,001	31,157
Materials & Supplies	488,589	128,788	(359,802)
Transportation	159,789	53,744	(106,045)
Communications	13,111	10,884	(2,227)
Claims	17,417	22,151	4,734
Insurance	78,858	90,603	11,744
Training & Travel	45,412	23,055	(22,357)
Advertising	41,497	8,988	(32,509)
Miscellaneous	84,253	71,997	(12,257)
Regulatory Expense	24,540	24,134	(405)
Bad Debts Provision	109,693	109,700	6
Total Administrative and General Expense	1,305,180	858,530	(446,650)
Depreciation Expense	1,528,175	1,402,038	(126,137)
Contractual Expense			
Audit & Computer Maint.	105,344	76,901	(28,443)
Building rental	36,262	36,557	295
Equipment rental	91,142	59,374	(31,768)
Legal	600	414	(186)
Laboratory	33,119	10,627	(22,493)
Other	287,165	156,747	(130,418)
Total Contractual Expense	553,632	340,619	(213,013)
Retiree Supp. Annuities and health care costs	241,153	231,895	(9,258)
Contribution to Government of Guam	49,833	49,500	(333)
Total Retiree Benefits	290,986	281,395	(9,591)
Total Operating Expenses	6,835,516	6,139,525	(695,991)
Earnings (Loss) from Operations	3,548,334	2,667,630	880,704
Interest Income-2010/13/14/16/17 Series Bond	601,430	65,354	536,075
Interest Income-Other Funds	117,897	10,032	107,865
Interest Income-SDC	19,644	1,060	18,585
Interest Expense- 2010/13/14/16/17 Series Bond	(2,137,785)	(2,220,744)	82,959
Interest Expense- ST BOG	(43,437)	(43,736)	299
Federal Expenditures	(58,177)	(42,501)	(15,676)
Loss on Asset Disposal	(721,784)	(81,105)	(640,679)
AFUDC	625,000	1,172,241	(547,241)
Amortization of Discount, Premium and Issuance Costs	(77,542)	61,861	(139,403)
Defeasance due to bond refunding	(12,444)	(15,218)	2,775
Deferred outflows from pension	32,592	-	32,592
Prior Year Adjustment	-	(26,756)	26,756
Total non-operating revenues (expenses)	(1,654,606)	(1,119,512)	(535,093)
Net Income (Loss) before capital contributions	1,893,728	1,548,118	345,611
Capital Contributions			
Grants from US Government	1,905,326	1,815,921	89,405
Grants from GovGuam & Others	-	1,664	(1,664)
Other Contributions	-	-	-
Total Capital Contributions	1,905,326	1,817,586	87,741
Change in Net Assets	3,799,055	3,365,704	433,351
Debt Service Calculation			
Earnings From Operations	3,548,334	2,667,630	
System Development Charge	(40,214)	(72,662)	
Retiree COLA	49,833	49,500	
Interest/Investment Income	117,897	10,032	
Depreciation	1,528,175	1,402,038	
Balance Available for Debt Service per Section 6.12	5,204,025	4,056,538	
Working Capital Reserve Available for Debt Service	935,321	932,134	
Transfer to Working Capital- Debt Service Reserve	-	-	
Transfer to Working Capital- O&M Reserve	-	-	
Balance Available for Debt Service inclusive of reserves	6,139,346	4,988,672	
Debt Service			
Principal	433,333	420,000	
Interest	1,794,910	1,626,858	
Total	2,228,243	2,046,858	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	2.34	1.98	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	2.76	2.44	

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings (Unaudited)
Comparative Budget vs. Actual for the period ending September 30, 2018

SCHEDULE D

	Year to Date		Variance
	Budget	Actual (Unaudited)	Favorable /
	September-18	September-18	(Unfavorable)
OPERATING REVENUES			
Water Revenues	68,917,921	66,298,109	(2,619,811)
Wastewater Revenues	38,739,088	38,307,618	(431,470)
Legislative Surcharge	3,502,752	3,474,549	(28,203)
Other Revenues	691,656	449,591	(242,065)
System Development Charge	553,630	1,062,957	509,328
Total Operating Revenues	112,405,047	109,592,824	(2,812,222)
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	8,688,358	8,684,974	3,384
Power Purchases	14,690,963	14,686,486	4,476
Total Utility Costs	23,379,320	23,371,460	7,860
Salaries and Wages	19,500,671	17,793,914	1,706,757
Pension and Benefits	7,014,699	5,991,836	1,022,863
Total Salaries and Benefits	26,515,371	23,785,750	2,729,621
Capitalized Labor and Benefits	(2,500,000)	(2,614,279)	114,279
Net Salaries and Benefits	24,015,371	21,171,471	2,843,900
Administrative and General Expenses			
Sludge removal	1,509,168	1,500,404	8,764
Chemicals	2,159,962	2,146,237	13,725
Materials & Supplies	2,164,797	2,128,666	36,131
Transportation	768,445	768,010	435
Communications	194,183	176,986	17,197
Claims	133,200	128,561	4,639
Insurance	917,079	912,061	5,018
Training & Travel	246,770	184,581	62,189
Advertising	166,921	166,085	835
Miscellaneous	1,016,185	1,014,528	1,657
Regulatory Expense	265,036	258,254	6,782
Bad Debts Provision	685,231	1,316,335	(631,104)
Total Administrative and General Expense	10,226,977	10,700,708	(473,731)
Depreciation Expense	18,338,096	18,338,100	(4)
Contractual Expense			
Audit & Computer Maint.	723,564	712,264	11,300
Building rental	455,460	439,236	16,224
Equipment rental	1,008,495	1,004,040	4,455
Legal	50,000	7,200	42,800
Laboratory	457,019	414,346	42,673
Other	2,394,357	2,391,195	3,162
Total Contractual Expense	5,088,895	4,968,280	120,615
Retiree Supp. Annuities and health care costs	2,880,100	2,849,544	30,556
Contribution to Government of Guam	594,000	598,000	(4,000)
Total Retiree Benefits	3,474,100	3,447,544	26,556
Total Operating Expenses	84,522,759	81,997,564	2,525,195
Earnings (Loss) from Operations	27,882,288	27,595,261	(287,027)
Interest Income-2010/13/14/16/17 Series Bond	188,719	3,064,490	2,875,771
Interest Income-Other Funds	35,217	547,738	512,521
Interest Income-SDC	28,971	100,560	71,589
Interest Expense- 2010/13/14/16/17 Series Bond	(31,507,047)	(26,129,613)	5,377,434
Interest Expense- ST BOG	(399,458)	(368,427)	31,032
Federal Expenditures	(615,986)	(746,644)	(130,658)
Loss on Asset Disposal	-	(2,523,378)	(2,523,378)
AFUDC	7,500,000	7,500,000	-
Amortization of Discount, Premium and Issuance Costs	(742,330)	(512,295)	230,035
Defeasance due to bond refunding	(182,621)	(149,323)	33,298
Deferred outflows from pension	(1,263,367)	391,104	1,654,471
Prior Year Adjustment	-	18,684	18,684
Total non-operating revenues (expenses)	(26,957,902)	(18,807,104)	8,150,798
Net Income (Loss) before capital contributions	924,386	8,788,157	7,863,771
Capital Contributions			
Grants from US Government	10,477,298	14,936,539	4,459,241
Grants from GovGuam & Others	-	272,166	272,166
Other Contributions	-	-	-
Total Capital Contributions	10,477,298	15,208,705	4,731,407
Change in Net Assets	11,401,684	23,996,862	12,595,178
Debt Service Calculation			
Earnings From Operations	27,882,288	27,595,261	
System Development Charge	(553,630)	(1,062,957)	
Retiree COLA	594,000	598,000	
Interest/Investment Income	35,217	547,738	
Depreciation	18,338,096	18,338,100	
Balance Available for Debt Service per Section 6.12	46,295,971	46,016,141	
Working Capital Reserve Available for Debt Service	11,187,181	11,185,610	
Transfer to Working Capital- Debt Service Reserve	(1,800,000)	-	
Transfer to Working Capital- O&M Reserve	(3,200,000)	-	
Balance Available for Debt Service inclusive of reserves	52,483,151	57,201,751	
Debt Service			
Principal	5,200,000	5,200,000	
Interest	24,760,826	21,538,920	
Total	29,960,826	26,738,920	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.55	1.72	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.75	2.14	

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings (Unaudited)
Comparative for the period ending September, 2018 and 2017

SCHEDULE E

	Year to Date		Variance
	ACTUAL (Unaudited)	ACTUAL (Audited)	Favorable /
	September-18	September-17	(Unfavorable)
OPERATING REVENUES			
Water Revenues	66,298,109	63,976,842	2,321,267
Wastewater Revenues	38,307,618	37,194,332	1,113,286
Legislative Surcharge	3,474,549	3,207,226	267,323
Other Revenues	449,591	435,514	14,076
System Development Charge	1,062,957	871,946	191,011
Total Operating Revenues	109,592,824	105,685,861	3,906,963
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	8,684,974	7,309,125	(1,375,849)
Power Purchases	14,686,486	12,076,262	(2,610,224)
Total Utility Costs	23,371,460	19,385,387	(3,986,073)
Salaries and Wages	17,793,914	16,963,302	(830,612)
Pension and Benefits	5,991,836	5,884,804	(107,032)
Total Salaries and Benefits	23,785,750	22,848,106	(937,644)
Capitalized Labor and Benefits	(2,614,279)	(3,150,189)	(535,910)
Net Salaries and Benefits	21,171,471	19,697,917	(1,473,554)
Administrative and General Expenses			
Sludge removal	1,500,404	1,685,842	185,438
Chemicals	2,146,237	2,088,013	(58,224)
Materials & Supplies	2,128,666	1,545,452	(583,214)
Transportation	768,010	644,933	(123,078)
Communications	176,986	130,606	(46,380)
Claims	128,561	265,812	137,252
Insurance	912,061	1,087,233	175,172
Training & Travel	184,581	276,654	92,073
Advertising	166,085	107,853	(58,232)
Miscellaneous	1,014,528	863,959	(150,570)
Regulatory Expense	258,254	289,613	31,359
Bad Debts Provision	1,316,335	1,316,397	62
Total Administrative and General Expense	10,700,708	10,302,365	(398,343)
Depreciation Expense	18,338,100	16,824,455	(1,513,645)
Contractual Expense			
Audit & Computer Maint.	712,264	922,812	210,548
Building rental	439,236	438,678	(558)
Equipment rental	1,004,040	712,487	(291,553)
Legal	7,200	4,969	(2,231)
Laboratory	414,346	127,518	(286,828)
Other	2,391,195	1,880,966	(510,229)
Total Contractual Expense	4,968,280	4,087,429	(880,851)
Retiree Supp. Annuities and health care costs	2,849,544	2,782,745	(66,799)
Contribution to Government of Guam	598,000	594,000	(4,000)
Total Retiree Benefits	3,447,544	3,376,745	(70,799)
Total Operating Expenses	81,997,564	73,674,298	(8,323,266)
Earnings (Loss) from Operations	27,595,261	32,011,564	(4,416,303)
Interest Income-2010/13/14/16/17 Series Bond	3,064,490	784,252	2,280,238
Interest Income-Other Funds	547,738	120,382	427,356
Interest Income-SDC	100,560	12,717	87,843
Interest Expense- 2010/13/14/16/17 Series Bond	(26,129,613)	(26,648,925)	519,312
Interest Expense- ST BOG	(368,427)	(524,835)	156,408
Federal Expenditures	(746,644)	(510,017)	(236,627)
Loss on Asset Disposal	(2,523,378)	(973,255)	(1,550,123)
AFUDC	7,500,000	14,066,891	(6,566,891)
Amortization of Discount, Premium and Issuance Costs	(512,295)	742,328	(1,254,623)
Defeasance due to bond refunding	(149,323)	(182,621)	33,298
Deferred outflows from pension	391,104	-	391,104
Prior Year Adjustment	18,684	(321,068)	339,752
Total non-operating revenues (expenses)	(18,807,104)	(13,434,150)	(5,372,954)
Net Income (Loss) before capital contributions	8,788,157	18,577,414	(9,789,257)
Capital Contributions			
Grants from US Government	14,936,539	21,791,058	(6,854,518)
Grants from GovGuam & Others	272,166	19,972	252,194
Other Contributions	-	-	-
Total Capital Contributions	15,208,705	21,811,030	(6,602,325)
Change in Net Assets	23,996,862	40,388,444	(16,391,582)
Debt Service Calculation			
Earnings From Operations	27,595,261	32,011,564	
System Development Charge	(1,062,957)	(871,946)	
Retiree COLA	598,000	594,000	
Interest/Investment Income	547,738	120,382	
Depreciation	18,338,100	16,824,455	
Balance Available for Debt Service per Section 6.12	46,016,141	48,678,454	
Working Capital Reserve Available for Debt Service	11,185,610	11,185,610	
Transfer to Working Capital- Debt Service Reserve	-	-	
Transfer to Working Capital- O&M Reserve	-	-	
Balance Available for Debt Service inclusive of reserves	57,201,751	59,864,064	
Debt Service			
Principal	5,200,000	5,040,000	
Interest	21,538,920	19,522,301	
Total	26,738,920	24,562,301	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.72	1.98	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	2.14	2.44	

SCHEDULE F

As of 9/30/18

<u>Bond Compliance</u>		(\$\$\$) Per Indenture	(\$\$\$) Bond 2010/2013/2014/2016/2017	
•	Operation and Maintenance Fund-BOG	Equivalent to 55 days of the annual O&M budget less depreciation	\$10.5M	\$10.5M
•	Bond Reserve Fund - US Bank	Fully funded- Principal and Interest (Bond Series 2010, 2013, 2014 Refunding, 2016 and 2017 Refunding)	\$34.9M	\$34.9M
•	Operation, Maintenance, Renewal and Replacement Reserve Fund-BOG Trust	Equivalent to 1/4 of the annual O&M budget & CIP budget to be funded in 5 years (\$2M/year)	\$17.4M	\$17.4M
•	Capital Improvement Fund	Balance remaining in the Revenue Fund after the foregoing deposits	\$3.9K	\$5.6K

GUAM WATERWORKS AUTHORITY
Restricted and Unrestricted Cash Summary
FY 2018

SCHEDULE G

Description	Unaudited September 30, 2018	Audited September 30, 2017	Increase (Decrease)
Unrestricted			
Change Fund	2,000	2,000	-
Petty Cash	5,000	5,000	-
BOG - Deposit Accounts	3,122,619	4,866,275	(1,743,656)
Sub-total Unrestricted	3,129,619	4,873,275	(1,743,656)
Restricted			
Collection Accounts	207,896	163,466	44,430
BOG Deposit Accounts	7,425,712	6,051,064	1,374,649
BP Deposit Accounts	959,151	944,282	14,869
BOG Revenue Trust Fund	6,921,713	7,782,227	(860,514)
BOG O & M Reserve	13,666,109	13,516,540	149,569
BOG Debt Service Reserve	11,341,967	11,217,733	124,233
BOG CAPEX Fund	16,073,011	15,462,869	610,142
	56,595,559	55,138,182	1,457,377
BOG - SDC Deposit	2,934,848	1,486,219	1,448,630
BOG - SDC CDs	7,250,000	8,500,000	(1,250,000)
Total Restricted	66,780,407	65,124,400	1,656,007
Reserve Funds			
BOG Series 05 OMRRRF Fund	17,423,213	17,423,213	-
BOG Series 13 Construction Fund	36,222,062	74,461,765	(38,239,703)
BOG Series 14 Refunding Construction Fund	741,895	771,281	(29,386)
BOG Series 16 Construction Fund	116,036,000	132,811,449	(16,775,449)
BOG Series 16 Cap Int Fund	-	1,782,982	(1,782,982)
BOG Series 17 Refunding Construction Fund	6,753,709	9,299,311	(2,545,602)
BOG Series 17 Refunding COI Fund	-	-	-
Total Restricted - Held by Trustee	177,176,880	236,550,002	(59,373,122)
USB Series 2013 Debt Service Fund	2,360,451	2,336,754	23,697
USB Series 2013 Debt Service Reserve Fund	12,031,688	12,031,688	-
USB Series 2014 Refunding Debt Service Fund	1,833,235	1,796,559	36,677
USB Series 2014 Refunding Debt Service Reserve Fund	7,972,243	7,707,602	264,641
USB Series 2016 Debt Service Fund	1,805,556	130	1,805,426
USB Series 2016 Debt Service Reserve Fund	7,594,603	7,582,725	11,878
USB Series 2010 Debt Service Fund	503,751	2,020,121	(1,516,370)
USB Series 2017 Refunding Debt Service Reserve Fund	7,566,460	7,566,460	-
USB Series 2017 Debt Service Fund	1,429,927	-	1,429,927
Total Investments	43,097,913	41,042,038	2,055,874
Total Restricted and Unrestricted Cash	290,184,819	347,589,716	(57,404,897)

Guam Waterworks Authority
Statement of Cash Flows (Unaudited)
FY 2018

SCHEDULE H

YTD
Sep-18

Increase (decrease) in cash

Cash flows from operating activities:

Cash received from trade and others	106,448,888
Cash payments to suppliers/contractors for goods and services	(38,467,029)
Cash payments to employees for services	(26,362,928)

Net cash provided by operating activities	41,618,931
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Cash flows from capital and related financing activities:

Contributed capital received (grants)	17,666,884
Acquisition of utility plant	(84,019,325)
Repayment of Long Term Debt	7,794,224
Interest expense	(30,021,163)

Net cash provided by (used in) capital and related financing activities	(88,579,381)
--	---------------------

Cash flows from investing activities:

Transfers from (to) restricted fund	41,504,006
Interest income received	3,712,788

Net cash provided by investing activities	45,216,794
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Net increase (decrease) in cash	(1,743,656)
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Unrestricted cash at beginning of the period	4,873,275
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Unrestricted cash at end of period	3,129,619
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Reconciliation of operating loss to net cash provided by operating activities:

Operating Income (loss)	27,595,261
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Adjustments to reconcile to net cash provided by operating activities:

Depreciation expense	18,338,100
Other Expense/income	925,231
(Increase) decrease in assets:	
Accounts receivable	(3,133,567)
Materials and supplies inventory	(782,761)
Other Assets	(78,946)

Increase (decrease) in liabilities:

Accounts payable, Contractors, Retention & Escrow Deposit	118,791
Accrued payroll	(1,352,809)
Customer deposits	(10,369)

Net cash provided by operating activities	41,618,931
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Guam Waterworks Authority
Accounts Receivable - Government
As of September 30, 2018

SCHEDULE I

A G I N G

Customer Name	No of Accounts	Current	31-60 days	61-90 days	91-120 days	Over 120 days	Outstanding Bal.
Guam Int'l Airport Authority	8	\$ 29,676	\$ 29,935	\$ 31,837	\$ 42,020	\$ 170,878	\$ 304,347
Guam Memorial Hospital Authority	3	39,613	32,380	34,972	-	-	106,964
Port Authority of Guam	5	49,069	32,714	-	-	-	81,783
Guam Power Authority	25	35,658	-	-	-	-	35,658
University of Guam	44	9,177	-	-	-	-	9,177
Guam Community College	3	9,114	-	-	-	-	9,114
Guam Housing & Urban Renewal Authority	9	6,974	-	-	-	-	6,974
Guam Housing Corporation	1	32	-	-	-	-	32
AUTONOMOUS AGENCIES	98	\$ 179,313	\$ 95,028	\$ 66,809	\$ 42,020	\$ 170,878	\$ 554,049
Department of Parks & Recreation	18	\$ 139,495	\$ 92,223	\$ 89,323	\$ 56,214	\$ 509,256	886,512
Department of Education	53	232,247	179,600	131,885	55,228	131,567	730,527
Department of Corrections	8	168,152	41,427	32,232	35,483	64,066	341,361
Department of Public Health & Social Services	8	10,051	3,772	684	1,376	100,210	116,093
Mayors Council of Guam	60	17,805	1,156	24	57	-	19,042
Guam Fire Department	11	7,383	6,354	1,865	66	-	15,667
Department of Public Works	11	13,812	1,578	-	-	-	15,389
Department of Agriculture	7	2,294	1,837	1,400	-	-	5,532
Office of The Governor	2	5,039	-	-	-	-	5,039
Guam Police Department	7	4,671	-	-	-	-	4,671
Sanctuary Inc	1	3,471	-	-	-	-	3,471
Guam Solid Waste Authority	2	2,870	-	-	-	-	2,870
Department of Military Affairs/GUARNG	1	1,996	-	-	-	-	1,996
Guam Visitors Bureau	1	1,334	-	-	-	-	1,334
Department of Youth Affairs	4	23	1,068	-	-	-	1,092
New Guam Mental Health	1	832	-	-	-	-	832
Guam Public Library	6	192	532	-	-	-	724
Division of Senior Citizens, DPH&SS	2	361	193	157	-	-	711
Department of Administration	2	670	-	-	-	-	670
Department of Mental Health	2	558	-	-	-	-	558
Department of Chamorro Affairs	7	486	-	-	-	-	486
Guam Veterans Affairs Office	2	349	-	-	-	-	349
The Office of the Dededo Mayor	1	131	-	-	-	-	131
Federal Aviation Administration	2	122	-	-	-	-	122
Merizo Mayor	1	56	27	34	-	-	117
National Park Service	1	107	-	-	-	-	107
Guam Energy Office	1	73	-	-	-	-	73
U S Postal Service	5	58	-	-	-	-	58
Vietnam Veterans of America	1	-	-	-	-	-	-
LINE AGENCIES	228	\$ 614,635	\$ 329,769	\$ 257,604	\$ 148,423	\$ 805,099	\$ 2,155,531
TOTAL September 30, 2018	326	\$ 793,948	\$ 424,797	\$ 324,413	\$ 190,444	\$ 975,977	\$ 2,709,580
TOTAL September 30, 2017	253	\$ 715,578	\$ 442,522	\$ 169,120	\$ 72,476	\$ 396,347	\$ 1,796,043
% INCREASE/ (DECREASE)	29%	11%	-4%	92%	163%	146%	51%

GUAM WATERWORKS AUTHORITY
2013 Series Bond Project Status
As of September 30, 2018

SCHEDULE J

PROJECT NAME	ORIGINAL		EXPENDITURES AS OF 09/30/18	OUTSTANDING ENCUMBRANCES	TOTAL EXPENDITURES AND		UNOBLIGATED PROJECT COST	Construction fund balance	
	APPROVED PROJECT COST	Adjusted Project Cost			ENCUMBRANCES	ENCUMBRANCES		AS OF 09/30/18	AS OF 09/30/18
Santa Rita Springs Booster Pump Rehab Phase II	\$ 100,000	\$ 100,000	100,000	-	\$	100,000	\$ -	\$ -	-
"A" Series Well Transmission Line	\$ 400,000	\$ 369,846	369,846	(0)	\$	369,846	\$ 0	\$ 0	0
Water Booster Pump Station	\$ 6,000,000	\$ 1,679,964	1,656,428	10,687	\$	1,667,115	\$ 12,849	\$ 23,536	23,536
Meter Replacement Program		\$ 996,532	996,532	-	\$	996,532	\$ (0)	\$ (0)	(0)
Barrigada Tank Repair/Replacement	\$ 6,000,000	\$ 4,987,000	4,924,959	16,000	\$	4,940,959	\$ 46,041	\$ 62,041	62,041
Leak Detection	\$ 100,000	\$ 16,916	16,916	-	\$	16,916	\$ (0)	\$ (0)	(0)
Potable Water System Planning	\$ 800,000	\$ 624,000	603,390	20,610	\$	624,000	\$ -	\$ 20,610	20,610
Implement Ground Water Rule	\$ 1,000,000	\$ 1,000,000	1,000,000	-	\$	1,000,000	\$ -	\$ -	-
Deep Well Rehabilitation	\$ 800,000	\$ 200,000	189,930	10,071	\$	200,000	\$ (0)	\$ 10,070	10,070
New Deep Wells at Down Hard	\$ 2,000,000	\$ -	-	-	\$	-	\$ -	\$ -	-
Master Meters	\$ 4,000,000	\$ 712,060	531,188	180,872	\$	712,060	\$ (0)	\$ 180,872	180,872
Ugum Water Treatment Plant Intake	\$ 1,000,000	\$ 859,801	424,202	20,915	\$	445,117	\$ 414,684	\$ 435,599	435,599
Water Wells	\$ 4,200,000	\$ 3,030,029	2,214,198	16,412	\$	2,230,609	\$ 799,420	\$ 815,832	815,832
Water Distribution System	\$ 12,000,000	\$ 10,912,453	7,576,647	2,791,837	\$	10,368,484	\$ 543,969	\$ 3,335,806	3,335,806
Pressure Zone Realignment /	\$ 1,000,000	\$ 337,110	248,926	15,337	\$	264,263	\$ 72,847	\$ 88,184	88,184
Mechanical/Electrical Equipment	\$ 430,000	\$ 426,799	261,981	159,325	\$	421,306	\$ 5,493	\$ 164,818	164,818
Water Reservoir Internal/External	\$ 800,000	\$ -	-	-	\$	-	\$ -	\$ -	-
Water System Reservoirs 2005 Improvements	\$ 21,000,000	\$ 13,878,000	11,744,016	2,133,984	\$	13,878,000	\$ -	\$ 2,133,984	2,133,984
Ugum Water Treatment Plant Reservoir	\$ 7,000,000	\$ -	-	-	\$	-	\$ -	\$ -	-
Agana Heights & Chaot Tanks	\$ 4,500,000	\$ 1,330,287	241,753	1,088,534	\$	1,330,287	\$ (0)	\$ 1,088,534	1,088,534
Tank Major Repair Yigo#1 Mangilao#2 Agat#2	\$ 13,500,000	\$ 11,605,000	9,831,462	1,773,163	\$	11,604,625	\$ 375	\$ 1,773,538	1,773,538
Tank Major Repair Yigo#1 Mangilao#2 Agat#2	\$ 8,000,000	\$ -	-	-	\$	-	\$ -	\$ -	-
Assessment of malojloj Elevetad & Yigo Elevated	\$ 500,000	\$ 485,117	461,813	23,304	\$	485,117	\$ -	\$ 23,304	23,304
Fire Hydrant Replacement Program	\$ -	\$ -	-	-	\$	-	\$ -	\$ -	-
Wastewater System Planning	\$ 800,000	\$ 650,901	566,364	84,537	\$	650,901	\$ 0	\$ 84,537	84,537
Lift Station Upgrades	\$ 5,000,000	\$ 563,148	419,508	15,925	\$	435,433	\$ 127,715	\$ 143,640	143,640
Wastewater Collection System Repl/Rehab	\$ 6,500,000	\$ 660,313	504,884	103,168	\$	608,053	\$ 52,260	\$ 155,429	155,429
Baza Gardens STP Replacement		\$ 9,656,874	2,688,166	6,938,514	\$	9,626,679	\$ 30,195	\$ 6,968,708	6,968,708
Facilities Plan/Design for Umatac-Merizo WWTP		\$ 371,699	364,527	7,172	\$	371,699	\$ (0)	\$ 7,172	7,172
Agat/Santa Rita STP Replacement	\$ 19,000,000	\$ 67,200,000	50,698,953	16,185,855	\$	66,884,808	\$ 315,192	\$ 16,501,047	16,501,047
Agana WWTP Interim Measures		\$ 673,000	625,213	47,787	\$	673,000	\$ 0	\$ 47,787	47,787
Umatac Merizo Replacement	\$ 2,000,000	\$ -	-	-	\$	-	\$ -	\$ -	-
Wastewater Pump Station Electrical Upgrade	\$ 620,000	\$ 99,861	94,964	4,897	\$	99,861	\$ -	\$ 4,897	4,897
Electrical Upgrade - Water Wells	\$ 1,500,000	\$ 1,500,000	1,487,413	12,587	\$	1,500,000	\$ 0	\$ 12,587	12,587
Electrical Upgrade - Water Booster	\$ 325,000	\$ -	-	-	\$	-	\$ -	\$ -	-
Electrical Upgrade -Water Booster	\$ 350,000	\$ 977	977	-	\$	977	\$ -	\$ -	-
Electrical Upgrade - Other Water	\$ 250,000	\$ 60,700	60,700	-	\$	60,700	\$ -	\$ -	-
SCADA Improvements – Phase 3	\$ 1,850,000	\$ 722,359	460,592	261,767	\$	722,359	\$ -	\$ 261,767	261,767
SCADA Improvements – Phase 4	\$ 500,000	\$ -	-	-	\$	-	\$ -	\$ -	-
Laboratory Modernization	\$ 1,500,000	\$ 1,171,465	1,163,037	7,785	\$	1,170,822	\$ 643	\$ 8,428	8,428
Land Survey	\$ 2,000,000	\$ 1,052	1,038	15	\$	1,053	\$ (1)	\$ 15	15
General Plant Improvements / Water	\$ 2,000,000	\$ 2,441,737	1,730,609	6,001	\$	1,736,610	\$ 705,127	\$ 711,128	711,128
Allowance for COI							\$	\$ 275,005	275,005
Interest Earned							\$	\$ 879,186	879,186
Total Construction Fund	\$ 139,325,000	\$ 139,325,000	\$ 104,261,129	\$ 31,937,064	\$	136,198,192	\$ 3,126,808	\$	36,218,062

PUC's Docket 14-04 dated February 25, 2014

GUAM WATERWORKS AUTHORITY
2014 Series Refunded Bond Project Status
As of September 30, 2018

SCHEDULE K

PROJECT NAME	ORIGINAL		ADJUSTED PROJECT COST	TOTAL EXPENDITURES					Construction fund balance AS OF 09/30/18
	APPROVED PROJECT			EXPENDITURES AS OF 09/30/18	OUTSTANDING ENCUMBRANCES	AND ENCUMBRANCES	UNOBLIGATED PROJECT COST	20% PUC AS OF 09/30/18	
Agana Treatment Plant	\$ 10,475,000	\$ 11,065,512	11,065,512	\$ -	\$ 11,065,512	\$ (0)	\$ 2,095,000	\$ (0)	
Agana Outfall	\$ 5,030,000	\$ 10,127,198	10,127,198	\$ -	\$ 10,127,198	\$ 0	\$ 1,006,000	\$ 0	
Northern District (Outfall)	\$ 4,700,000	\$ 10,251,423	10,251,423	\$ -	\$ 10,251,423	\$ 0	\$ 940,000	\$ 0	
Northern District WWTP Upgrade		\$ 173,681	173,681		\$ 173,681	\$ -		\$ -	
Baza Gardens Wastewater Treatment Plant Upgrade	\$ 500,000	\$ 297,177	297,177	\$ -	\$ 297,177	\$ (0)	\$ 100,000	\$ (0)	
Interim Disinfection Facilities	\$ 581,000	\$ 3,437,311	3,408,599	\$ 28,712	\$ 3,437,311	\$ (0)	\$ 116,200	\$ 28,712	
Electrical Protection	\$ 1,000,000	\$ 1,512,483	1,512,483.3	\$ -	\$ 1,512,483	\$ (0)	\$ 200,000	\$ (0)	
Well Vulnerability Reduction	\$ 600,000	\$ 185,522	185,522	\$ -	\$ 185,522	\$ 0	\$ 120,000	\$ 0	
Old Agat Wastewater Collection (I/I Reduction)	\$ 2,155,000	\$ 1,931,659	1,931,659	\$ -	\$ 1,931,659	\$ (0)	\$ 431,000	\$ (0)	
Chaot WW Pump Station/Collection System	\$ 410,000	\$ 399,120	399,120	\$ -	\$ 399,120	\$ -	\$ 82,000	\$ -	
Lift Station Upgrades	\$ 230,000	\$ 149,895	149,895	\$ -	\$ 149,895	\$ 0	\$ 46,000	\$ 0	
Collection Line Upgrades	\$ 200,000	\$ 62,755	62,755	\$ -	\$ 62,755	\$ 0	\$ 40,000	\$ 0	
"A" Well Transmission Line	\$ 2,413,000	\$ 3,833,175	3,818,088	\$ 15,087	\$ 3,833,175	\$ (0)	\$ 482,600	\$ 15,087	
Santa Rita Springs - Booster Pump Rehab.	\$ 648,000	\$ 306,841	306,841	\$ -	\$ 306,841	\$ (0)	\$ 129,600	\$ (0)	
Fena Bypass Transmission line		\$ 160,913	160,913	\$ -	\$ 160,913	\$ (0)	\$ -	\$ (0)	
Storage Additions	\$ 950,000	\$ -			\$ -	\$ -	\$ 190,000	\$ -	
Booster Station Upgrades	\$ 390,000	\$ 66,734	66,734	\$ -	\$ 66,734	\$ -	\$ 78,000	\$ -	
Mangilao Tank Repair	\$ 800,000	\$ 398,367	397,933	\$ 434	\$ 398,367	\$ (0)	\$ 160,000	\$ 434	
Ugum Tank Replacement	\$ 2,500,000	\$ -			\$ -	\$ -	\$ 500,000	\$ -	
Ugum WTPPlant Refurbishment (\$1.724,970EPA)		\$ 6,588,473	6,531,525	\$ 56,949	\$ 6,588,473	\$ (0)		\$ 56,948	
Barrigada Tank Repair/Replacement	\$ 3,000,000	\$ 65,019	65,019	\$ -	\$ 65,019	\$ 0	\$ 600,000	\$ 0	
Water Reservoir Condition Assessment		\$ 1,250,000	1,249,227.16	\$ 772	\$ 1,250,000	\$ 0	\$ -	\$ 773	
EarthTech Well Buyout	\$ 5,000,000	\$ 5,975,000	5,975,000	\$ -	\$ 5,975,000	\$ -	\$ 1,000,000	\$ -	
Water Wastewater Master Plan	\$ 4,900,000	\$ 4,881,308	4,881,308	\$ -	\$ 4,881,308	\$ 0	\$ 980,000	\$ 0	
Laboratory Modernization	\$ 800,000	\$ 135,055	135,055	\$ -	\$ 135,055	\$ 0	\$ 160,000	\$ 0	
Land Survey	\$ 800,000	\$ 577,836	576,134	\$ 1,702	\$ 577,836	\$ 0	\$ 160,000	\$ 1,702	
Ground Water Disinfection		\$ -			\$ -	\$ -		\$ -	
GWUDI Study		\$ 262,234	260,430	\$ 1,804	\$ 262,234	\$ -		\$ 1,804	
Contingency	\$ 12,276,023	\$ 154	-	\$ -	\$ -	\$ -		\$ 732	
Vehicles	\$ 1,100,000	\$ 1,280,000	2,130,305	\$ (850,305)	\$ 1,280,000	\$ -	\$ 220,000	\$ -	
Generation Equipment	\$ 700,000	\$ 880,000	2,712	\$ 877,288	\$ 880,000	\$ 0		\$ 27,033	
Leak Detection/Line Replacement	\$ 8,200,000	\$ 5,988,494	5,988,494	\$ -	\$ 5,988,494	\$ -	\$ 1,640,000	\$ -	
Automated Meter Reading	\$ 12,572,063	\$ 17,468,359	16,870,522	\$ 537,157	\$ 17,468,359.32	\$ 0	\$ 2,514,413	\$ 597,837	
Interest Earned	\$ 6,781,612	\$ (0)				\$ (0)		\$ 10,833	
Total Construction Fund	\$ 89,711,698	\$ 89,711,698	\$ 88,981,263	\$ 669,600	\$ 89,711,543	\$ 1	\$ 13,990,813	\$ 741,896	

GUAM WATERWORKS AUTHORITY
2016 Series Bond Project Status
As of September 30, 2018

SCHEDULE L

PROJECT NAME	ORIGINAL		EXPENDITURES AS OF 09/30/18	OUTSTANDING ENCUMBRANCES	TOTAL EXPENDITURES AND ENCUMBRANCES		UNOBLIGATED PROJECT COST	Construction fund balance	
	APPROVED PROJECT COST	Adjusted Project Cost						AS OF 09/30/18	AS OF 09/30/18
Water Booster Pump Station	\$ 4,139,000	\$ -			\$ -	\$ -	\$ -		\$ -
Meter Replacement Program	\$ 4,501,000	\$ 1,400,000	121,798	28,202.07	\$ 150,000	\$ 1,250,000			\$ 1,278,202
Barriqada Tank Repair/Replacement	\$ 1,013,000	\$ -		-	\$ -	\$ -			\$ -
Leak Detection	\$ 1,180,000	\$ 100,000		-	\$ -	\$ 100,000			\$ 100,000
Potable Water System Planning	\$ 2,276,000	\$ 876,294	331,044	545,250.47	\$ 876,294	\$ -			\$ 545,250
Deep Well Rehabilitation	\$ 250,000	\$ 250,000		110,013.00	\$ 110,013	\$ 139,987			\$ 250,000
New Deep Wells at Down Hard	\$ 1,190,000	\$ 1,190,000		-	\$ -	\$ 1,190,000			\$ 1,190,000
Master Meters	\$ 3,616,000	\$ 2,151,539	151,539	-	\$ 151,539	\$ 2,000,000			\$ 2,000,000
Uqum Water Treatment Plant Intake	\$ 18,000	\$ -		-	\$ -	\$ -			\$ -
Water Wells	\$ 2,500,000	\$ 2,500,000		-	\$ -	\$ 2,500,000			\$ 2,500,000
Water Distribution System	\$ 2,049,000	\$ -		-	\$ -	\$ -			\$ -
Pressure Zone Realignment /	\$ 1,141,000	\$ 1,141,000		741,000.20	\$ 741,000	\$ 400,000			\$ 1,141,000
Mechanical/Electrical Equipment	\$ 100,000	\$ -		-	\$ -	\$ -			\$ -
Water Reservoir Internal/External	\$ 800,000	\$ 800,000		800,000.00	\$ 800,000	\$ -			\$ 800,000
Water System Reservoirs 2005 Improvements	\$ 42,350,000	\$ 58,830,170	2,600,983	13,525,898.93	\$ 16,126,882	\$ 42,703,288			\$ 56,229,187
Uqum Water Treatment Plant Reservoir	\$ 6,410,000	\$ -		-	\$ -	\$ -			\$ -
Water Audit Program & Water Loss Control Plan	\$ 1,000,000	\$ 550,000		389,561.70	\$ 389,562	\$ 160,438			\$ 550,000
Aqana Heights & Chaot Tanks	\$ 1,220,000	\$ 1,220,000		500,000.00	\$ 500,000	\$ 720,000			\$ 1,220,000
Tank Major Repair Yiqo#1 Manqilao#2 Aqat#2	\$ 1,895,000	\$ 1,822,133		1,822,132.80	\$ 1,822,133	\$ 0			\$ 1,822,133
Tank Major Repair Yiqo#1 Manqilao#2 Aqat#2	\$ 10,500,000	\$ 7,300,000		7,300,000.00	\$ 7,300,000	\$ -			\$ 7,300,000
Fire Hydrant Replacement Program	\$ 2,000,000	\$ 1,200,000		-	\$ -	\$ 1,200,000			\$ 1,200,000
Wastewater System Planning	\$ 349,000	\$ 312,983	224,921	88,062.03	\$ 312,983	\$ -			\$ 88,062
Lift Station Upgrades	\$ 2,404,000	\$ 1,714,755	230,390	234,364.77	\$ 464,755	\$ 1,250,000			\$ 1,484,365
Wastewater Collection System Repl/Rehab	\$ 2,920,000	\$ 1,055,478	1838.55	553,639.45	\$ 555,478	\$ 500,000			\$ 1,053,639
Baza Gardens STP Replacement	\$ 16,700,000	\$ 22,663,776	13,185,417	9,478,358.21	\$ 22,663,775	\$ 1			\$ 9,478,359
Facilities Plan/Design for Umatac-Merizo WWTP	\$ 527,000	\$ 252,105	239,065	13,040.11	\$ 252,105	\$ -			\$ 13,040
Aqat/Santa Rita STP Replacement	\$ 3,000,000	\$ 2,002,331	1,277,252	267,836.21	\$ 1,545,088	\$ 457,243			\$ 725,079
Aqana WWTP Interim Measures	\$ 827,000	\$ -		-	\$ -	\$ -			\$ -
Umatac Merizo Replacement	\$ 8,000,000	\$ 20,800,000	4,759,557	15,957,418.69	\$ 20,716,975	\$ 83,025			\$ 16,040,443
Wastewater Pump Station Electrical Upgrade	\$ 100,000	\$ -		-	\$ -	\$ -			\$ -
Electrical Upgrade - Water Wells	\$ 650,000	\$ -		-	\$ -	\$ -			\$ -
Electrical Upgrade - Water Booster	\$ 323,000	\$ -		-	\$ -	\$ -			\$ -
SCADA Improvements – Phase 3	\$ 1,177,000	\$ 1,077,497	18,000	784,002.76	\$ 802,003	\$ 275,494			\$ 1,059,497
SCADA Improvements – Phase 4	\$ 6,500,000	\$ 4,378,118		3,943,748.85	\$ 3,943,749	\$ 434,369			\$ 4,378,118
Laboratory Modernization	\$ 1,127,000	\$ 1,127,000	1,127,000	-	\$ -	\$ -			\$ -
Land Survey	\$ 1,998,000	\$ 1,260,524	494,009	766,514.13	\$ 1,260,524	\$ 0			\$ 766,515
General Plant Improvements / Water	\$ 2,769,463	\$ 1,543,760	716,554	780,392.44	\$ 1,496,947	\$ 46,813			\$ 827,206
Information Technology Integration Improvements	\$ 500,000	\$ 500,000	244,068	-	\$ 244,068	\$ 255,932			\$ 255,932
Interest Earned		\$ -							\$ 1,739,971
Total Construction Fund	\$ 140,019,463	\$ 140,019,463	\$ 25,723,435	\$ 58,629,437	\$ 84,352,872	\$ 55,666,591			\$ 116,036,000

CCU Regular Meeting October 19, 2018 - GWA

GUAM WATERWORKS AUTHORITY
2017 Series Refunded Bond Project Status
As of September 30, 2018

SCHEDULE M

PROJECT NAME	ORIGINAL		Adjusted Project Cost	EXPENDITURES AS OF 09/30/18	OUTSTANDING ENCUMBRANCES	TOTAL EXPENDITURES AND ENCUMBRANCES		UNOBLIGATED PROJECT COST	Construction fund balance AS OF 09/30/18					
	APPROVED PROJECT COST													
Ground Water Disinfection	\$	-	\$	500,000	\$	438,141	\$	61,859	\$	500,000	\$	0	\$	61,859
"A" Series Well Transmission Line	\$	600,000	\$	475,709	\$	474,434	\$	1,274	\$	475,709	\$	0	\$	1,275
Water Booster Pump Station	\$	500,000	\$	500,000	\$	418,844	\$	81,156	\$	500,000	\$	(0)	\$	81,156
Meter Replacement Program	\$	2,500,000	\$	10,450,000	\$	10,255,079	\$	18,549	\$	10,273,628	\$	176,372	\$	194,921
Barrigada Tank Repair/Replacement	\$	-	\$	5,450,000	\$	5,442,302	\$	7,698	\$	5,450,000	\$	0	\$	7,698
Leak Detection			\$	200,000	\$	-	\$	200,000	\$	200,000	\$	-	\$	200,000
Potable Water System Planning	\$	200,000	\$	200,000	\$	180,927	\$	19,073	\$	200,000	\$	-	\$	19,073
Implement Ground Water Rule			\$	1,699,999	\$	1,499,464	\$	200,535	\$	1,700,000	\$	(1)	\$	200,535
Brigade II (Ugum Lift) BPS Upgrade	\$	1,200,000	\$	1,900,000	\$	251,134	\$	117,330	\$	368,464	\$	1,531,536	\$	1,648,866
Deep Well Rehabilitation	\$	548,000	\$	548,000	\$	548,000	\$	-	\$	548,000	\$	-	\$	-
New Deep Wells at Down Hard	\$	3,773,000	\$	485,743	\$	485,743	\$	-	\$	485,743	\$	0	\$	0
Rehabilitation of Asan Springs	\$	900,000	\$	1,100,000	\$	188,771	\$	152,068	\$	340,838	\$	759,162	\$	911,229
Master Meters	\$	1,600,000	\$	1,489,957	\$	1,421,267	\$	68,690	\$	1,489,957	\$	(0)	\$	68,690
Ugum Water Treatment Plant Intake	\$	3,670,000	\$	700,000	\$	543,615	\$	156,385	\$	700,000	\$	-	\$	156,385
Water Wells	\$	2,000,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Water Distribution System	\$	384,000	\$	3,174,748	\$	3,174,748	\$	-	\$	3,174,748	\$	(0)	\$	(0)
Pressure Zone Realignment /	\$	3,550,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Northern System Water Distribution	\$	2,725,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Central Water Distribution System 2005	\$	1,200,000	\$	775,002	\$	730,182	\$	44,820	\$	775,002	\$	(0)	\$	44,820
Southern Water Distribution System	\$	1,800,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Mechanical/Electrical Equipment	\$	1,360,000	\$	1,200,000	\$	1,079,495	\$	120,505	\$	1,200,000	\$	(0)	\$	120,505
Water Reservoir Internal/External	\$	500,000	\$	2,150,000	\$	1,083,817	\$	425,567	\$	1,509,384	\$	640,616	\$	1,066,183
Water Reservoir Internal/External	\$	2,400,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Water System Reservoirs 2005 Improvements	\$	11,697,000	\$	1,050,000	\$	1,050,000	\$	-	\$	1,050,000	\$	0	\$	0
Distribution System Upgrades	\$	3,182,000	\$	474,160	\$	456,678	\$	17,481	\$	474,160	\$	0	\$	17,482
Ugum Water Treatment Plant Reservoir	\$	3,672,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Water Audit Program & Water Loss Control Plan			\$	78,459	\$	15,031	\$	63,428	\$	78,459	\$	0	\$	63,429
Production Plan / Reduce Navy Purchases			\$	100,000	\$	94,286	\$	5,714	\$	100,000	\$	-	\$	5,714
Hydraulic Assessment of Tank	\$	-	\$	500,000	\$	497,004	\$	2,996	\$	500,000	\$	-	\$	2,996
Agana Heights & Chaot Tanks	\$	-	\$	4,700,000	\$	4,350,014	\$	349,986	\$	4,700,000	\$	-	\$	349,986
Tank Major Repair Yigo#1 Mangilao#2 Agat#2	\$	-	\$	1,848,013	\$	1,765,504	\$	82,510	\$	1,848,013	\$	(0)	\$	82,509
Tank Major Repair Yigo#1 Mangilao#2 Agat#2	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Assessment of malolj Elevated & Yigo Elevated			\$	200,000	\$	200,000	\$	-	\$	200,000	\$	-	\$	-
Public Water System Asser Inventory/Condition Assesment			\$	100,000	\$	98,414	\$	1,586	\$	100,000	\$	-	\$	1,586
Public Water System GIS & Mapping			\$	50,000	\$	50,000	\$	-	\$	50,000	\$	-	\$	-
Wastewater System Planning	\$	1,500,000	\$	1,474,000	\$	1,468,176	\$	5,824	\$	1,474,000	\$	-	\$	5,824
Wastewater Vehicles	\$	235,000	\$	235,000	\$	209,795	\$	25,205	\$	235,000	\$	0	\$	25,205
NDWWTP - Chlorine Tanks	\$	250,000	\$	250,000	\$	250,000	\$	-	\$	250,000	\$	-	\$	-
Tumon Bay Sewer Upgrades	\$	100,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Wastewater Collection System Repl/Rehab			\$	1,001,323	\$	718,036	\$	283,287	\$	1,001,323	\$	(0)	\$	283,287
Facilities Plan/Design for Baza Gardens WWTP	\$	1,250,000	\$	1,250,000	\$	1,245,244	\$	4,756	\$	1,250,000	\$	-	\$	4,756
Facilities Plan/Design for Agat-Santa Rita WWTP	\$	900,000	\$	899,630	\$	891,702	\$	7,928	\$	899,630	\$	-	\$	7,928
Priority 1 Sewer Upgrades - Baza Gardens WWTP	\$	650,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Baza Gardens STP Replacement	\$	3,567,000	\$	1,488,378	\$	1,157,502	\$	314	\$	1,157,816	\$	330,562	\$	330,876
Facilities Plan/Design for Umatac Merizo WWTP			\$	853,858	\$	760,845	\$	93,013	\$	853,858	\$	0	\$	93,013
Agat/Santa Rita STP Replacement	\$	2,968,000	\$	2,217,700	\$	2,217,314	\$	387	\$	2,217,701	\$	(0)	\$	386
Northern District WWTP Primary Treatment Upgrades	\$	-	\$	11,743,514	\$	11,532,253	\$	211,261	\$	11,743,514	\$	0	\$	211,261
Biosolids Management Plan			\$	200,000	\$	196,414	\$	3,586	\$	200,000	\$	-	\$	3,586
Agana WWTP Interim Measures	\$	-	\$	11,300,000	\$	11,254,925	\$	45,075	\$	11,300,000	\$	-	\$	45,075
I&I SSES Southern			\$	800,000	\$	794,722	\$	5,278	\$	800,000	\$	(0)	\$	5,278
I&I SSES Central			\$	850,000	\$	794,325	\$	55,675	\$	850,000	\$	-	\$	55,675
I&I SSES Northern			\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Umatac Merizo Replacement			\$	250,000	\$	247,431	\$	2,569	\$	250,000	\$	-	\$	2,569
Northern District WWTP Secondary Treatment Upgrades			\$	1,000,000	\$	948,250	\$	51,750	\$	1,000,000	\$	-	\$	51,750
Well Electrical Protection	\$	26,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
SCADA Pilot Project	\$	300,000	\$	61,950	\$	19,812	\$	42,138	\$	61,950	\$	(0)	\$	42,138
Electrical Upgrade - Water Wells	\$	3,000,000	\$	354,227	\$	339,948	\$	14,278	\$	354,227	\$	0	\$	14,279
Electrical Upgrade - Water Booster	\$	325,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Electrical Upgrade -Water Booster	\$	350,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Electrical Upgrade - Other Water	\$	250,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
SCADA Improvements - Phase 1	\$	250,000	\$	250,000	\$	194,849	\$	55,151	\$	250,000	\$	-	\$	55,151
SCADA Improvements - Phase 2	\$	1,100,000	\$	1,056,986	\$	1,028,284	\$	28,702	\$	1,056,986	\$	-	\$	28,702
SCADA Improvements - Phase 3	\$	2,500,000	\$	24,956	\$	24,956	\$	-	\$	24,956	\$	0	\$	0
SCADA Improvements - Phase 4	\$	850,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Laboratory Modernization	\$	1,200,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Land Survey	\$	1,500,000	\$	499,688	\$	471,450	\$	28,237	\$	499,687	\$	1	\$	28,238
General Plant Improvements / Water	\$	14,370,000	\$	7,241,000	\$	7,241,000	\$	0	\$	7,241,000	\$	0	\$	0
Interest Earned													\$	151,836
Total Construction Fund	\$	87,402,000	\$	87,402,000	\$	80,800,127	\$	3,163,624	\$	83,963,751	\$	3,438,249	\$	6,753,709

1.) PUC's Docket 11-01 \$29,000,000.00 dated 09/19/11 authorized GWA for reallocation

2) PUC's Docket 11-01 Reallocation of \$23,246,000.00 dated 07/30/12

3) PUC's Docket Reallocation dated February 2013

GM REPORT



TO: Consolidated Commission on Utilities

FROM: General Manager

DATE: October 19, 2018

SUBJECT: General Manager's Report

This report provides updates on key issues:

- 1. Generation System:** The following summarizes the generation capacity projection for November 2018. The Cabras steam units are currently on-line but limited to about 50 MW each. MEC 8 is undergoing its major overhaul scheduled from October 15th to November 6th.

October 2018 Projected Capacity:	319 MW
October 2018 Projected Demand:	240 MW
Anticipated Reserve Margin:	79 MW

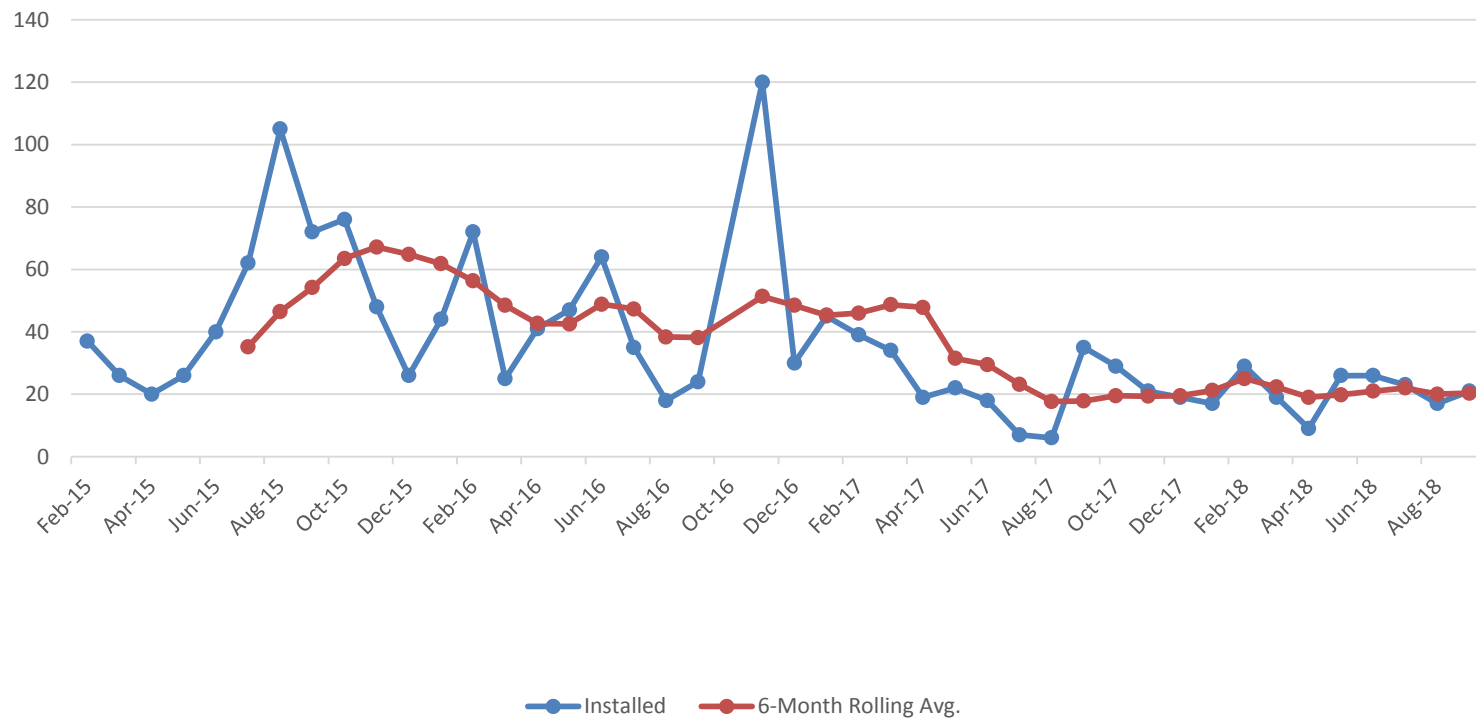


2. Net Metering Summary Ending September 2018:

Description:	Count	Kw
Active	1,771	18,823
Pending	19	241
Totals:	1,790	19,064

Service:	Count	KW	Kw/Customer
Residential	1,678	15,446	9.2
Others	93	3,377	36.3
Total:	1,771	18,823	10.6
% Residential	94.7%	82.1%	
Estimated 12 Months Revenue Impact:	\$3,521,130		

NEM Installed Monthly as of September 2018



3. Demand Side Management Expenses Thru September 2018

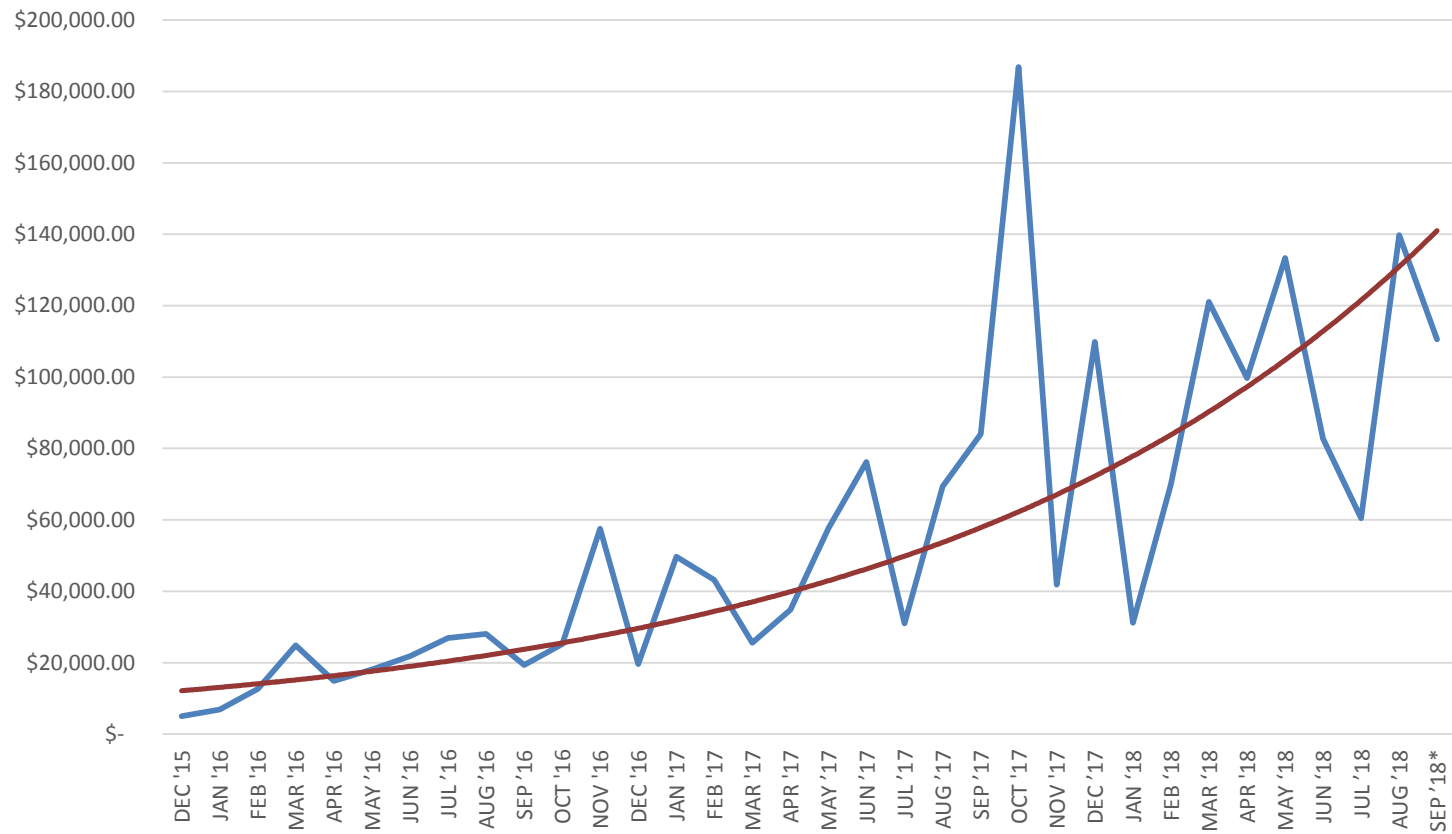
Description	FY16	FY17	FY18 as of 9/30/2018*	Total to Date
Regular/OT Pay	\$ 11,348.80	\$ 22,256.00	\$ 20,469.95	\$ 54,074.75
Other Contractual	\$ 28,278.50	\$ 85,550.05	\$ 99,622.25	\$ 213,450.80
Bank Fees	\$ 155.00	\$ 1,032.06	\$ 1,085.08	\$ 2,272.14
Paid Rebates-Split AC	\$ 154,700.00	\$ 557,275.00	\$ 1,141,925.00	\$ 1,853,900.00
Paid Rebates- Central AC	\$ 3,400.00	\$ 8,200.00	\$ 4,400.00	\$ 16,000.00
Paid Rebates- Washer/Dryer	\$ 2,800.00	\$ 7,425.00	\$ 41,000.00	\$ 51,225.00
Total Expenses	\$200,682.30	\$681,738.11	\$1,308,502.28	\$2,190,922.69

DSM PROGRAM SUMMARY

DSM Program reduces peak demand and reduces LEAC cost for all customers at a one time fixed rebate. DSM eliminates running less efficient peaking units at peak time thereby reducing fuel cost.

DESCRIPTION	AMOUNT
Initial DSM Budget FY'16	\$ 1,806,014.00
Interest Income as of Sep 18	\$ 4,621.45
Total Expense	\$ 2,190,922.69
Ending Balance as of Sep 18	\$ (380,287.24)
Addtl. Budget: Approved (FY'18)	\$ 1,139,189.00
Total Ending Balance as of Aug 18	\$ 758,901.76

Demand Side Management Program Growing Exponentially Rebates Paid (\$)



4. **PUC Dockets: Dockets on Agenda for October 25th**
 - 19-01 Bulk Storage Tanks Inspection and Refurbishment
 - 19-02 New ULSD Pipeline System
 - 19-03 Property Insurance Contract
5. **New 180 MW Power Plant:** The short listed seven (7) proponents have received the technical specifications. Bid opening is scheduled for January 2019.
6. **Meetings with Mayors':** We held meetings on October 10th and 11th here at Fadian with the village Mayors. The meeting covered typhoon restoration efforts, vegetation management and other issues. Meeting was well received and we plan to hold meetings quarterly in order to keep mayors abreast with developments within GPA and as a means for improved communications with the Mayors.
7. **Meetings with Employees:** We held our semi-annual briefing of employees on October 3rd and 4th. Briefing covered the many issues GPA faced over the past several months and the near term goals GPA is pursuing. We thanked employees most especially for their excellent work during the Typhoon Mangkhut recovery.
8. **New 40 MW Energy Storage Systems:** The 16 MW and 24 MW battery systems are now scheduled for completion in December 2018. The project will improve reliability by reducing loss of a generator related outages by over 70%.



9. **New SCADA System:** The new SCADA system for Power, Water and Wastewater is scheduled for completion by October 31st 2018. We are planning the commissioning ceremony for late November 2018. The system will improve system dispatching and day to day coordination between GPA and GWA.



10. \$1.25M Grant Award from Office of Insular Affairs “Energizing Insular Communities” (EIC):

- GPA was awarded funding for the following two projects which will save GDOE greater than \$250K per year:
 - \$954,685 -GUAM-EIC-2018-1, Bringing Energy Savings To (BEST) Schools, Southern High School LED Lighting Retrofit
 - \$295,315 -GUAM-EIC-2018-2, Bringing Energy Savings To (BEST) Schools, George Washington High School LED Lighting Retrofit
- GPA will continue to apply for grants including ones under Pre-Disaster Mitigation and Hazard Mitigations Grant opportunities which became available when the President declared Guam a disaster area due to Typhoon Mangkhut in 2018. GPA intends to submit a grant proposal to provide standby generators at all the schools in order to avoid lost school day due to storms.
- **Congratulations and Thank you to Project Manager Ms. Jessica T. Lazatin (Engineer I), Mr. Cruz, AGMET, and Mrs. Jennifer Sablan, SPORD Manager and the SPORD team for obtaining this significant grant in support of our community.**

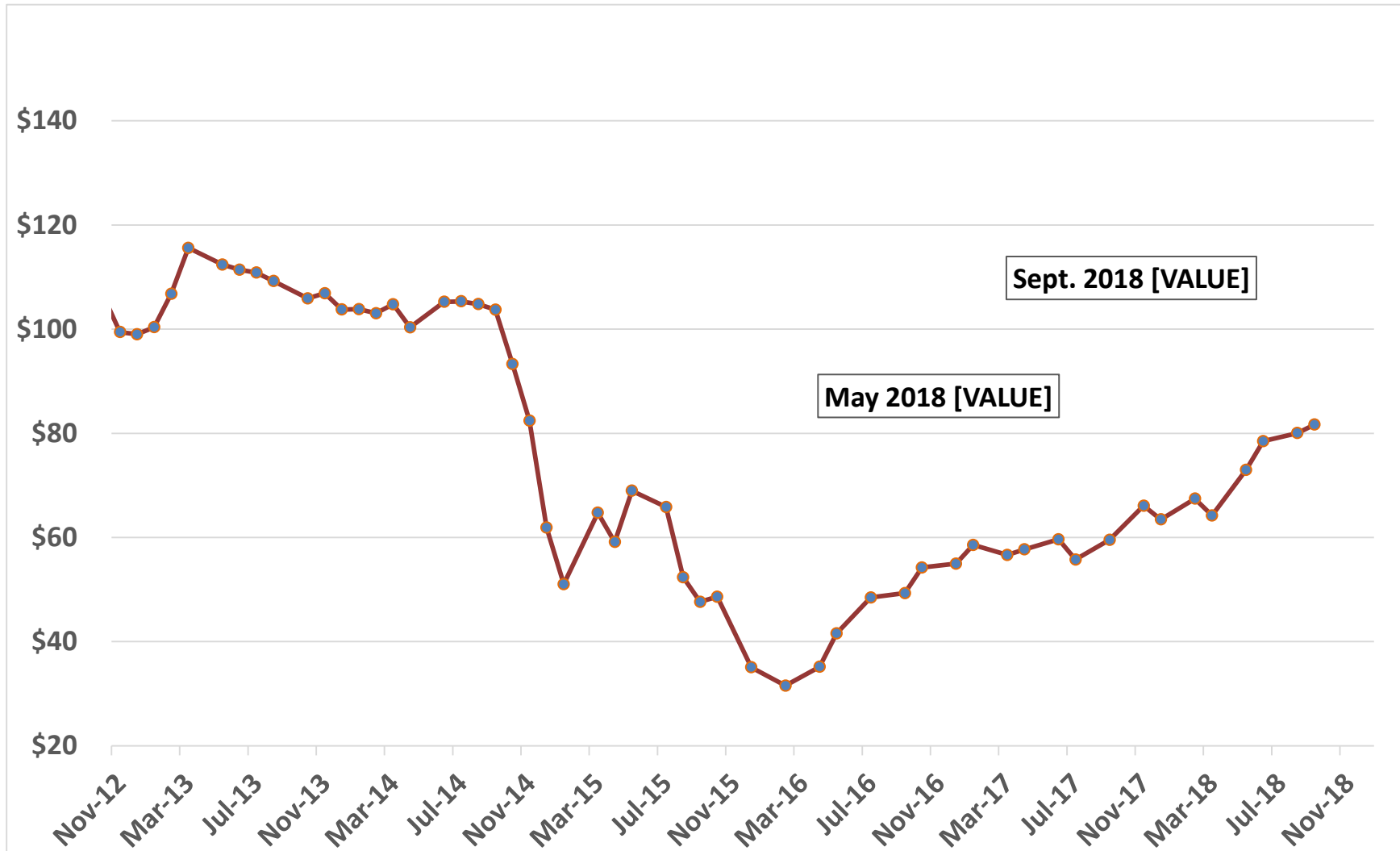


11. **BEST Schools Study:** The Siemen's group will be in Guam in November to present their findings and recommendations on energy and water cost savings opportunities and supply options for the GDOE schools. We will be scheduling a session for the presentation. This \$250K study is funded by GPA from savings of the recent bond refinancing.
12. **LEAC Update:** Fuel prices have gone up in the past couple of months. Attached are slides showing the Historical LEAC Over (Under) Recovery and scenario model runs with the latest fuel price from Oct 10th to 15th.
13. **Key Performance Indicators:** The following are indicators thru September 2018. Key points include:
 - Fuel oil cost continued to climb
 - Peak demand has dropped substantially
 - KWH sales continue to decline



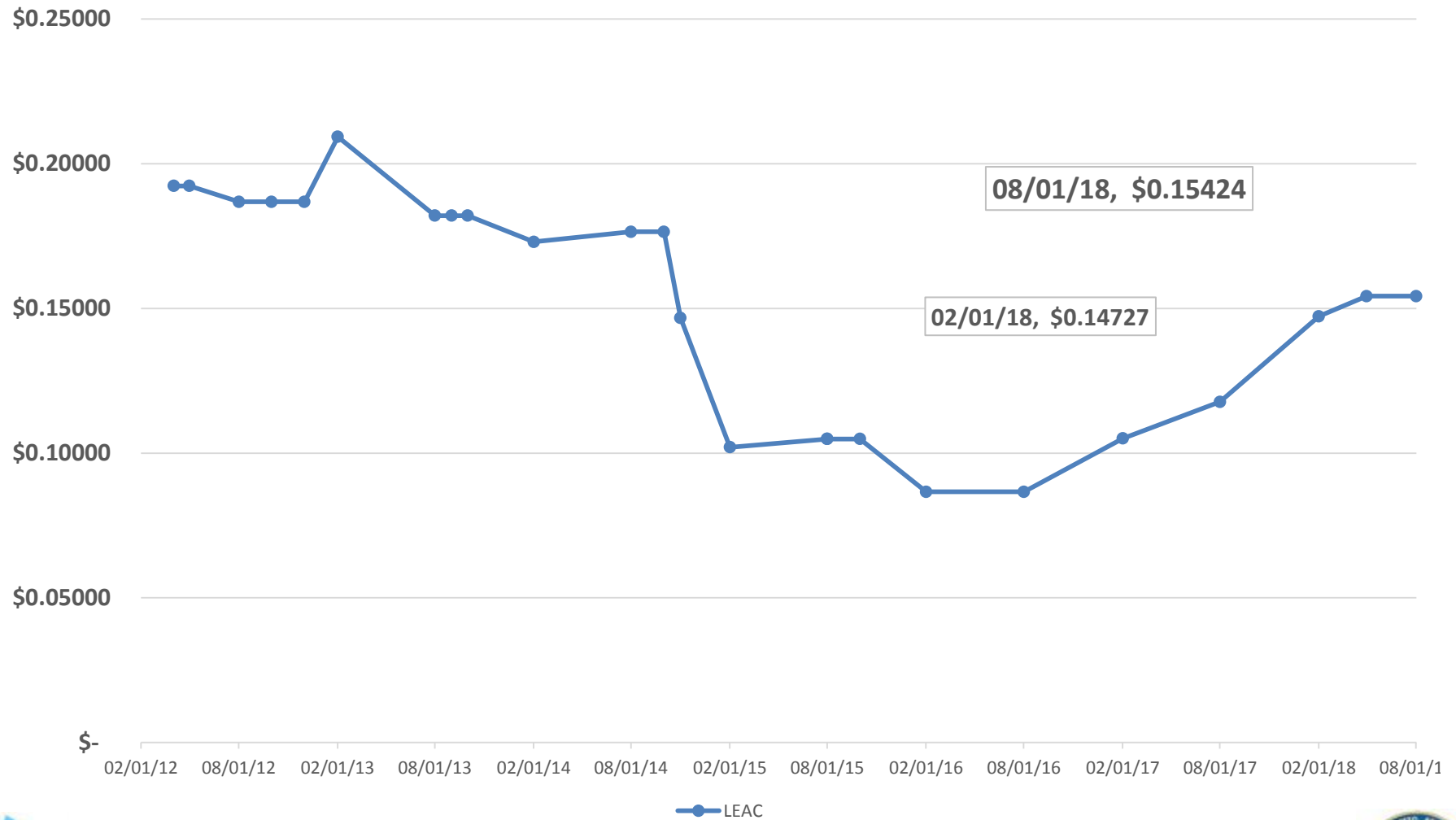
LEAC Update – GPA Fuel Purchases (Per Barrel)

12



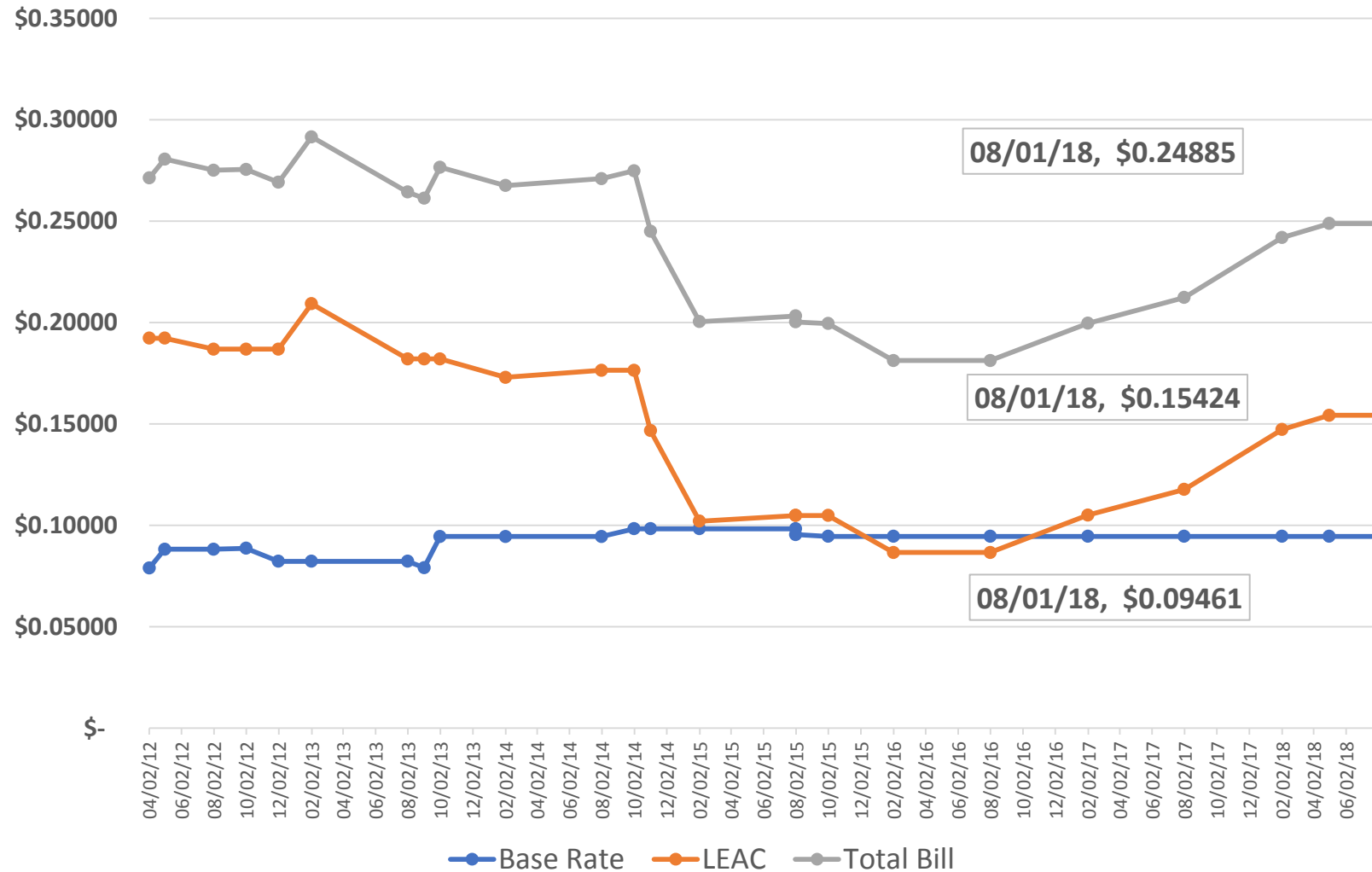
Historical Residential LEAC Rate

13



Historical Residential Rate

14



Historical LEAC Over (Under) Recovery

15

LEAC Period		Approved LEAC		Actual Over	
From	To	Rate		(Under) Recovery	
4/1/2012	7/31/2012	\$ 0.192310	\$	(3,040,418)	
8/1/2012	1/31/2013	\$ 0.186834	\$	(2,494,052)	
2/1/2013	7/31/2013	\$ 0.209271	\$	1,345,259	
8/1/2013	10/31/2013	\$ 0.182054	\$	1,300,093	
2/1/2014	7/31/2014	\$ 0.172986	\$	(1,137,034)	
8/1/2014	10/31/2014	\$ 0.176441	\$	(4,646,872)	
11/1/2014	1/31/2015	\$ 0.146666	\$	661,428	
2/1/2015	7/31/2015	\$ 0.102054	\$	1,757,878	
8/1/2015	1/31/2016	\$ 0.104871	\$	(2,467,151)	
2/1/2016	7/31/2016	\$ 0.086613	\$	(2,668,603)	
8/1/2016	1/31/2017	\$ 0.086613	\$	(9,915,360)	
			\$	(5,315,360) a	
2/1/2017	7/31/2017	\$ 0.105051	\$	(14,050,504)	
8/1/2017	01/31/1018	\$ 0.117718	\$	(16,775,982)	
2/1/2018	4/30/2018	\$ 0.147266	\$	(13,005,689)	
5/1/2018	7/31/2018	\$ 0.154242	\$	(8,422,674)	
8/1/2018	1/31/2019	\$ 0.154242	\$	(11,841,650) Estimate	

a) Under-recovery Balance after applying the \$4.6 million from the Cabras 3&4 Extra Expense claim



LEAC Update – Scenario Model Runs

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Proposed Effective 02/01/2019

Fuel Price (Oct 10-15, 2018)			
	@ Zero Cost Recovery	@ 50% Recovery	@ Full Cost Recovery
1 Average Price per BBL-RFO	\$ 85.64	\$ 85.64	\$ 85.64
2 Average Price per Gal-Diesel	\$ 105.02	\$ 105.02	\$ 105.02
3 Proposed LEAC Rate	\$ 0.154242	\$ 0.169659	\$ 0.185078
4 Monthly Increase/(Decrease) - 1000 kWh	\$ -	\$ 15.42	\$ 30.84
5 % Increase/(Decrease) in LEAC	0.00%	10.00%	19.99%
6 % Increase/(Decrease) in Total Bill	0.00%	6.2%	12.39%
7 Fuel Cost (Over) Under Recovery at the end of the period	\$20.0M	\$10.0M	\$ -



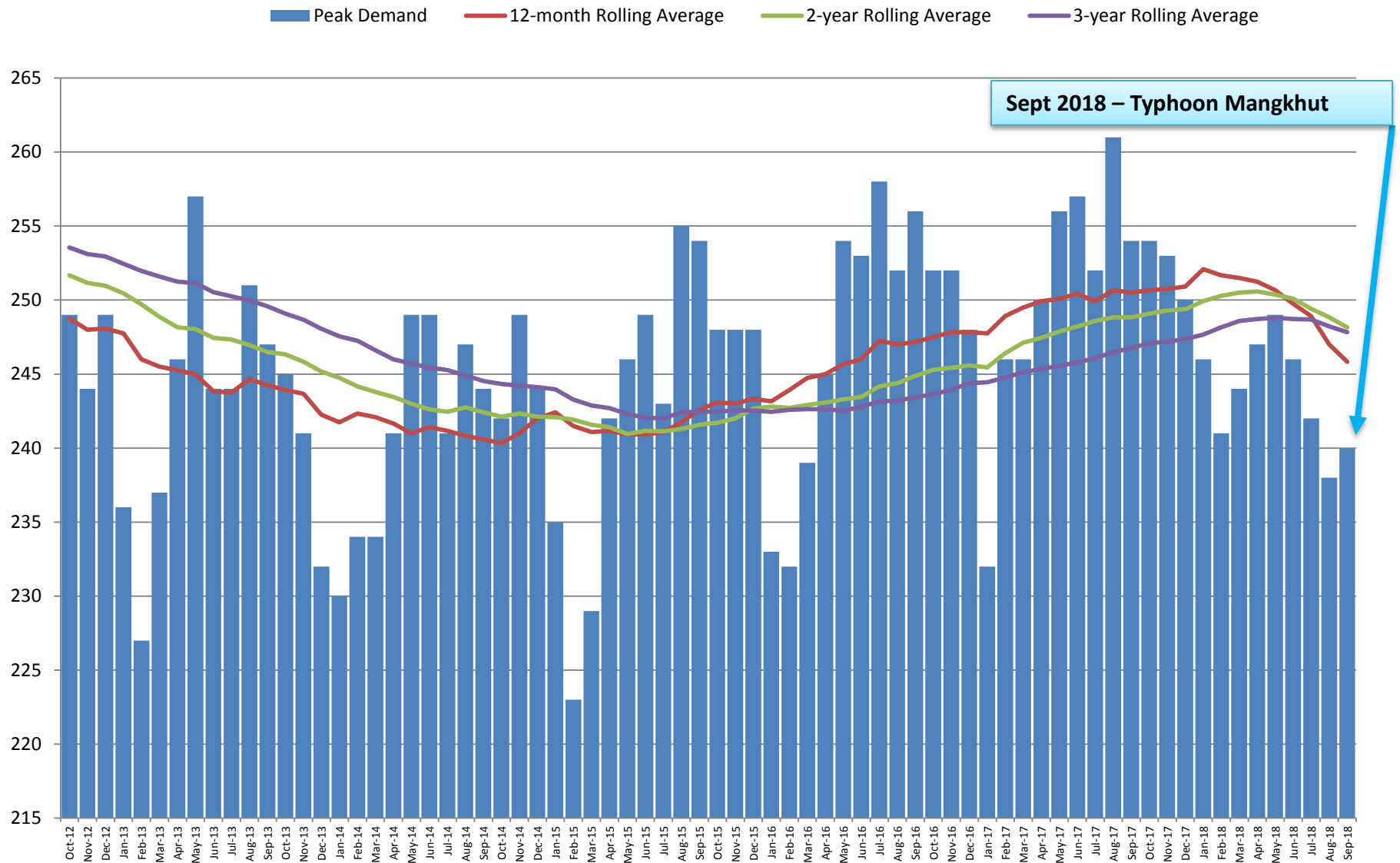
LEAC Update – Billing Illustrations

17

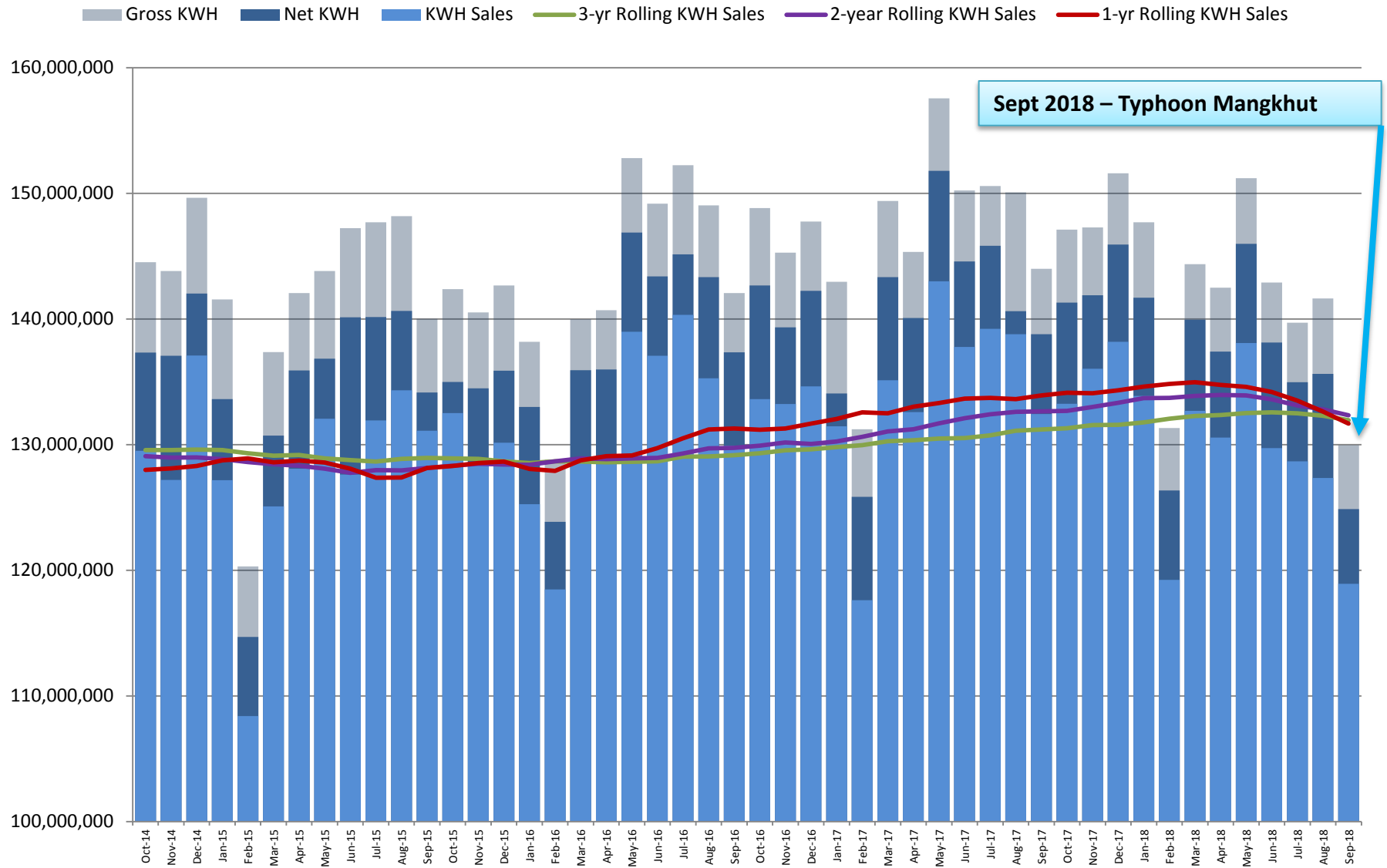
	@ Zero Recovery		@ 50% Recovery		@ Full Recovery	
	Effective 2/1/19		Effective 2/1/19		Effective 2/1/19	
KWH		1,000		1,000		1,000
Monthly Charge	15.00	15.00	15.00	15.00	15.00	15.00
Non-Fuel Energy Charge						
First 500 KWH	0.06955	\$ 34.78	0.06955	\$ 34.78	0.06955	\$ 34.78
Over 500 KWH	0.08687	\$ 43.44	0.08687	\$ 43.44	0.08687	\$ 43.44
Emergency Water-well charge	0.00279	\$ 1.40	0.00279	\$ 1.40	0.00279	\$ 1.40
Insurance Charge		\$ -		\$ -		\$ -
Working Capital Fund Surcharge		\$ -		\$ -		\$ -
Roll-Back Credit		\$ -		\$ -		\$ -
Total Electric Charge before Fuel Recovery Charges		\$ 94.61		\$ 94.61		\$ 94.61
Fuel Recovery Charge	0.154242	154.24	0.169659	169.66	0.185078	185.08
Total Electric Charge		\$248.85		\$264.26		\$279.68
Increase (Decrease) in Total Bill		<u>\$0.00</u>		<u>\$15.42</u>		<u>\$30.84</u>
% Increase (Decrease) in Total Bill		0.00%		6.20%		12.39%
% Increase (Decrease) in LEAC		0.00%		10.00%		19.99%
Cents/kWh		\$ 0.2488		\$ 0.2643		\$ 0.2797



Historical Monthly Peak Demand Oct 2012 - Sept 2018



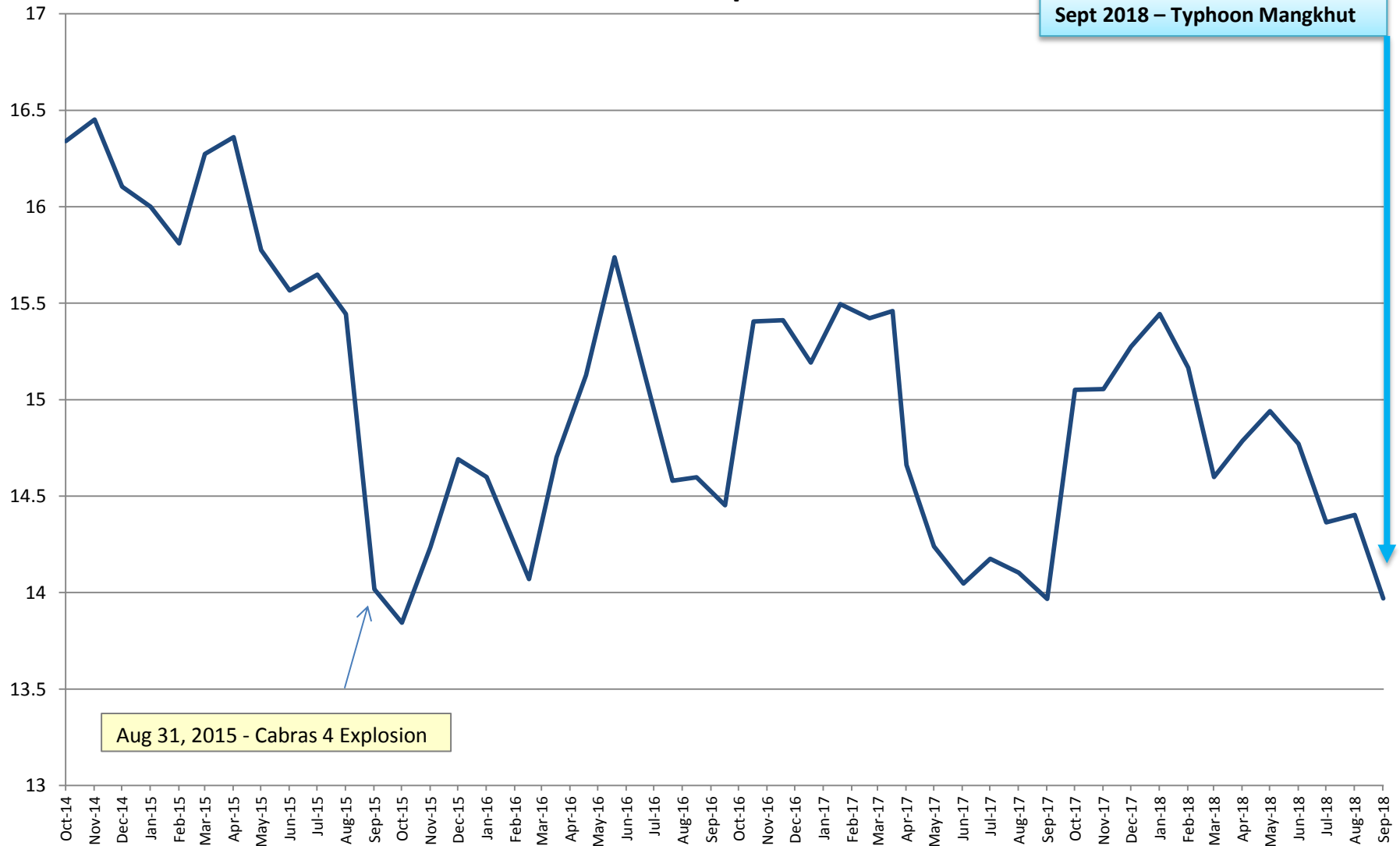
Historical KWH Sales Oct 2014 - Sept 2018



SYSTEM GROSS HEAT RATE (KWH/Gal) Oct 2014 - Sept 2018

Note: Sept 2018 KWH Generation from Solar Power Plant pending corrections from Sept 21 through 30 (meter malfunction).

Sept 2018 – Typhoon Mangkhut

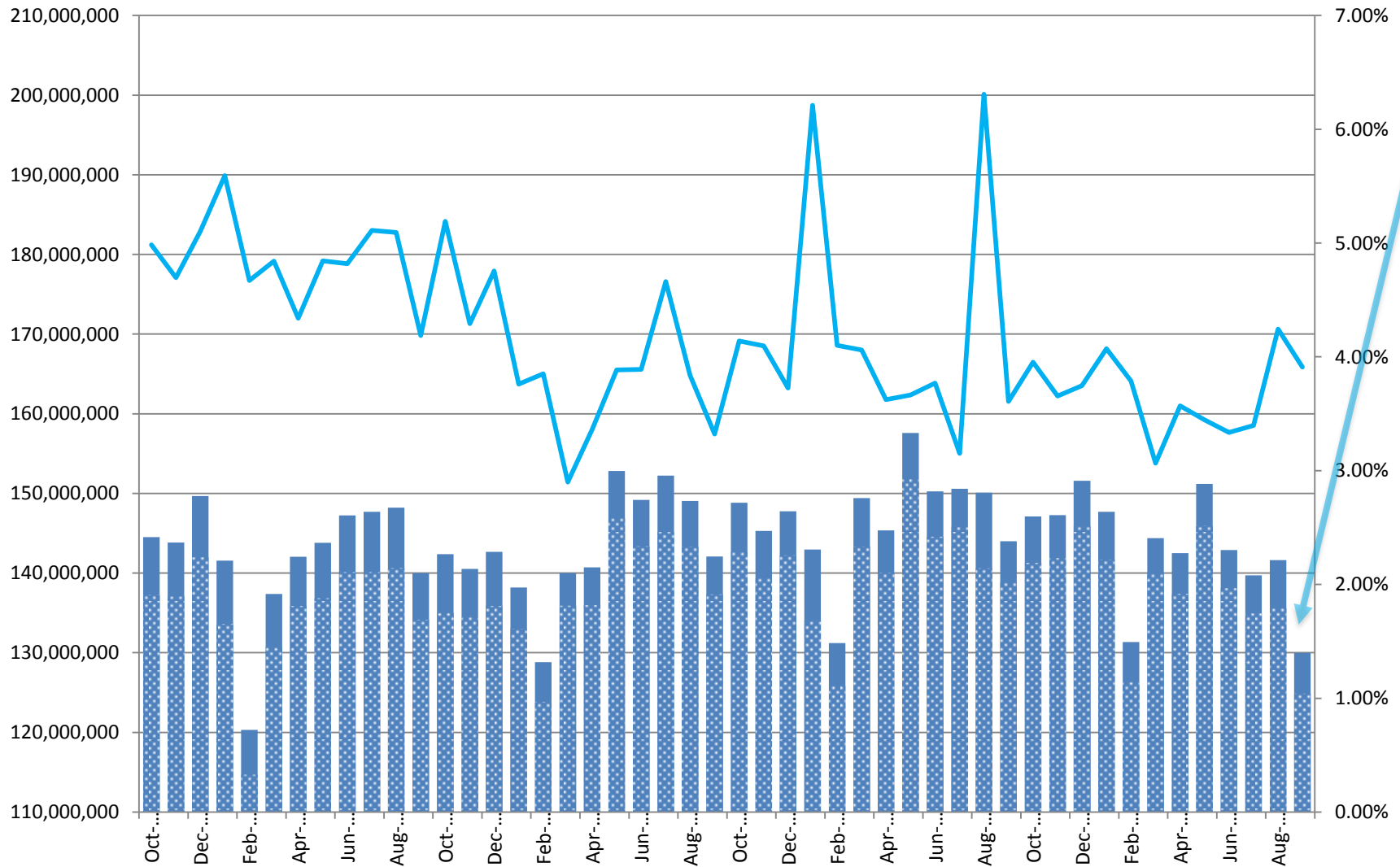


Gross and Net Generation (KWH) Oct 2014 - Sept 2018

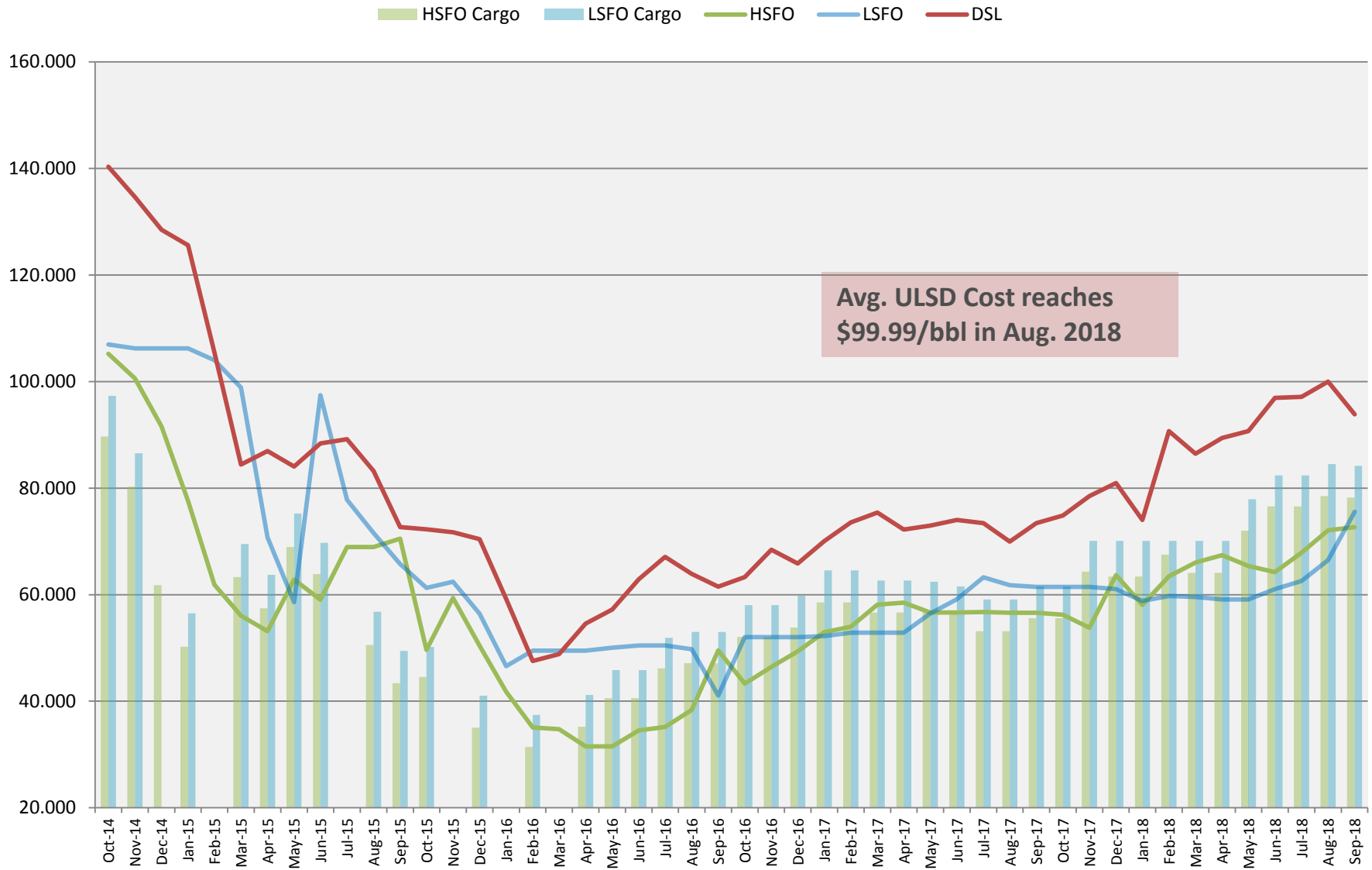
Gross KWH Net KWH % Station Use

Note: Sept 2018 KWH Generation from Solar Power Plant pending corrections from Sept 21 through 30 (meter malfunction).

Sept 2018 – Typhoon Mangkhut



Fuel Cargo and Fuel Consumption Costs (\$/bbl) Oct 2014 - Sept 2018



Additional Information Typhoon Mangkhut Restoration Ongoing as of October 19th



Restoration

24

115kV Line 1 and Line2 Repairs (Agana to Cabras)

Tower No.	Line 1	Line 2	Date of Repairs	% Completed	Completed Repairs	Pending
1	1	1	25-Sep-18	100%	2	
2	1	1	25-Sep-18	100%	2	
6		1	26-Sep-18	100%	1	
7		1	28-Sep-18	100%	1	
8		1	28-Sep-18	100%	1	
15	1		30-Sep-18	100%	1	
18	1		19-Oct-18	100%	1	
19	1		20-Oct-18			1
20	1		21-Oct-18			1
21	1		26-Sep-18	100%	1	
22	1		16-Oct-18	100%	1	
34		1	17-Oct-18	100%	1	
37		1	27-Sep-18	100%	1	
40		1	27-Sep-18	100%	1	
43	1		28-Sep-18	100%	1	
71	1	1	18-Oct-18			2

16	10	9			15	4
----	----	---	--	--	----	---

Total No. of Repairs: 19

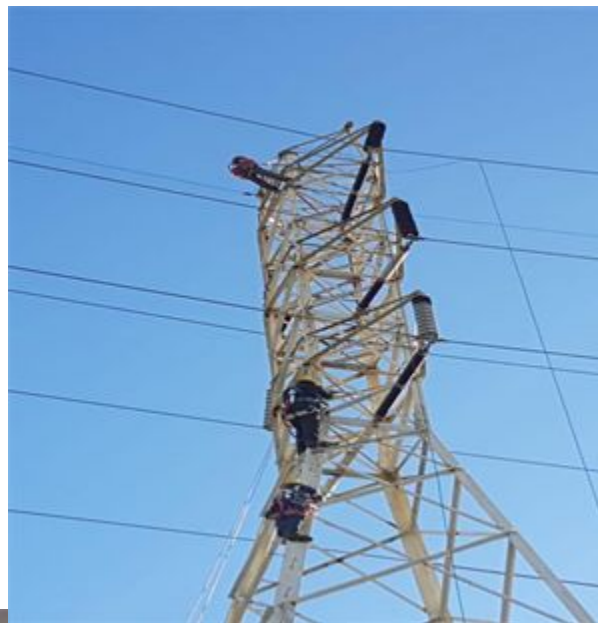
Completed Repairs: 15

Percent Completed: 79%



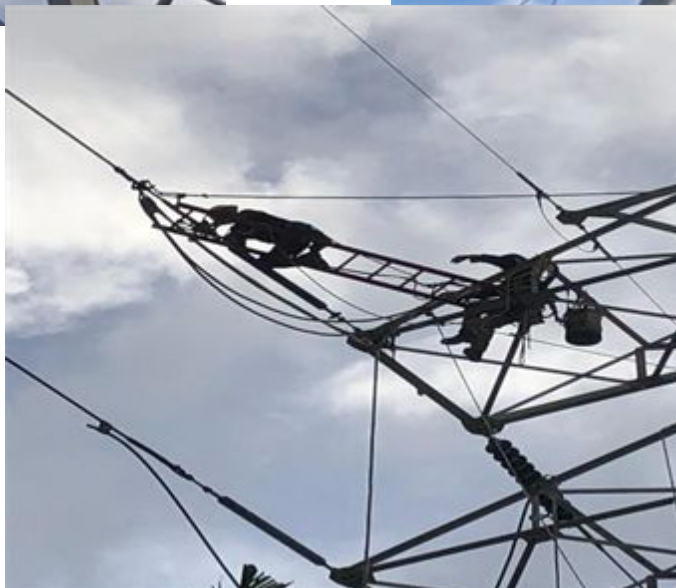
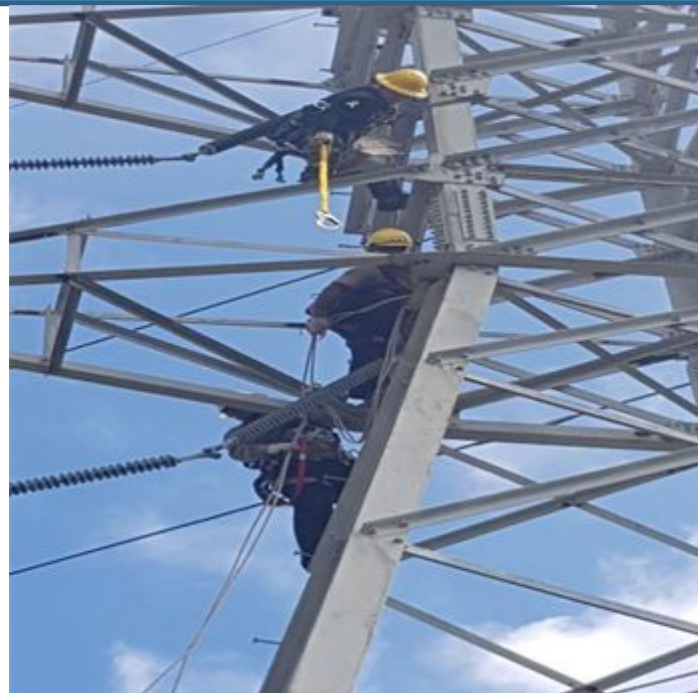
Restoration

25



Restoration

26



Restoration

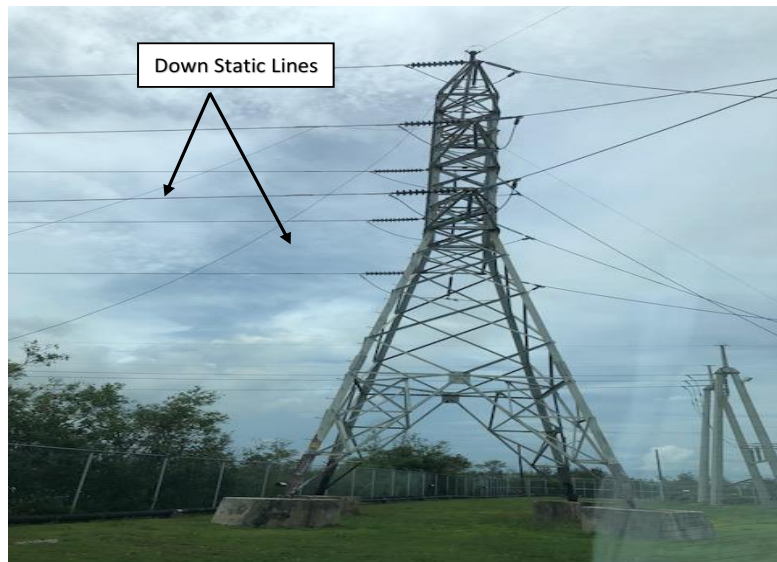
27



Restoration

28

Tower #1 Before



Tower #1 After



Tower #2 Before



Tower #2 After



Restoration

29

Tower #6 Before



Tower #6 After



Tower #37 Before



Tower #37 After



Restoration

30

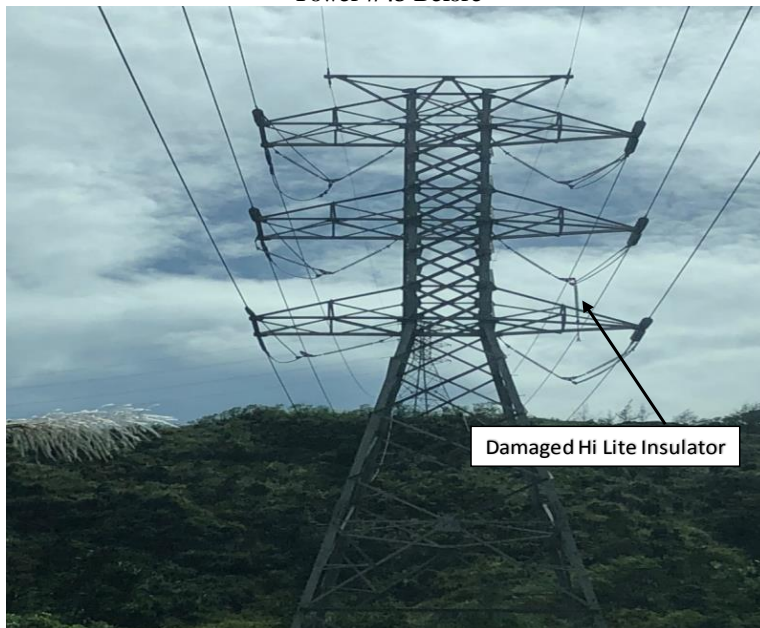
Tower #40 Before



Tower #40 After



Tower #43 Before



Tower #43 After



Restoration

31

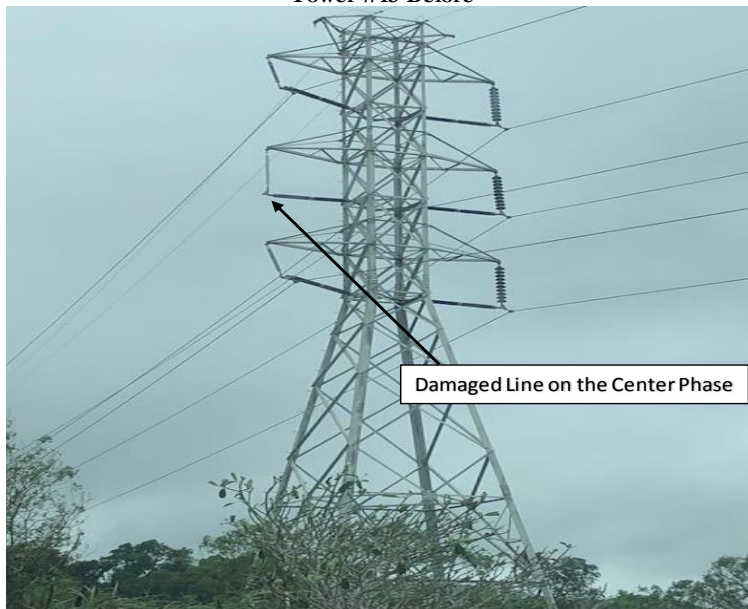
Tower #7 Before



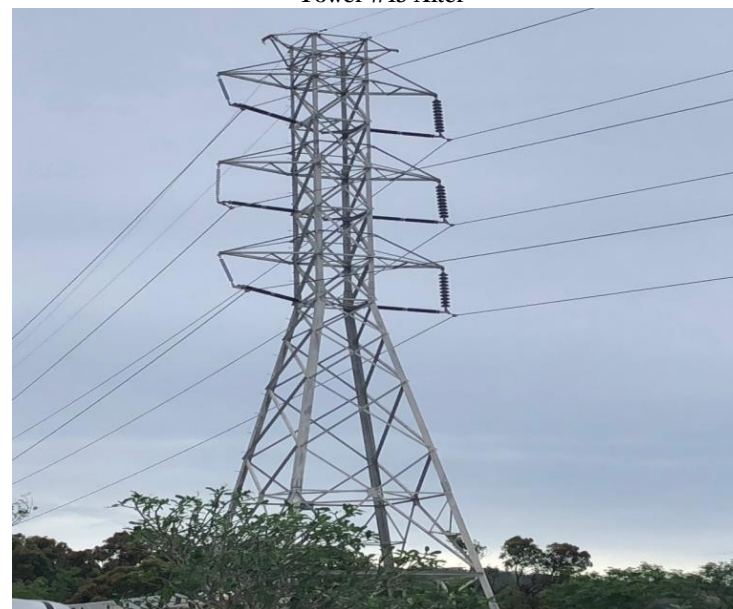
Tower #7 After



Tower #15 Before



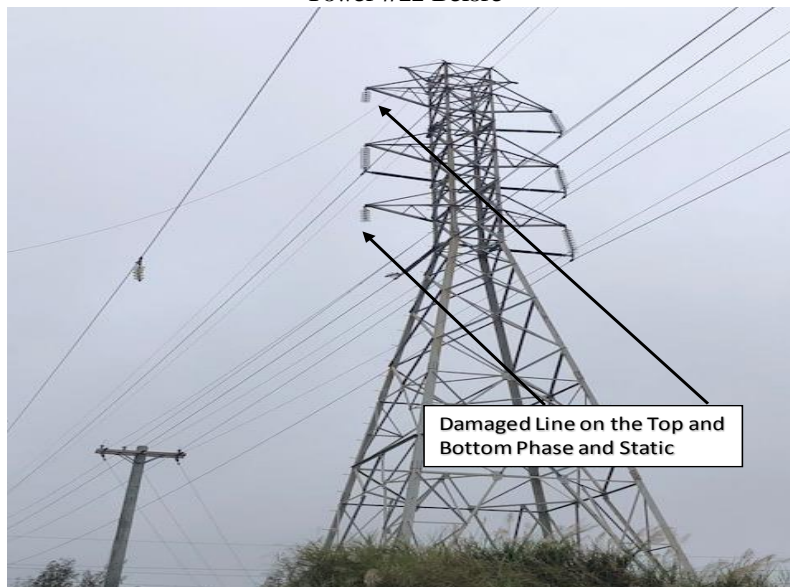
Tower #15 After



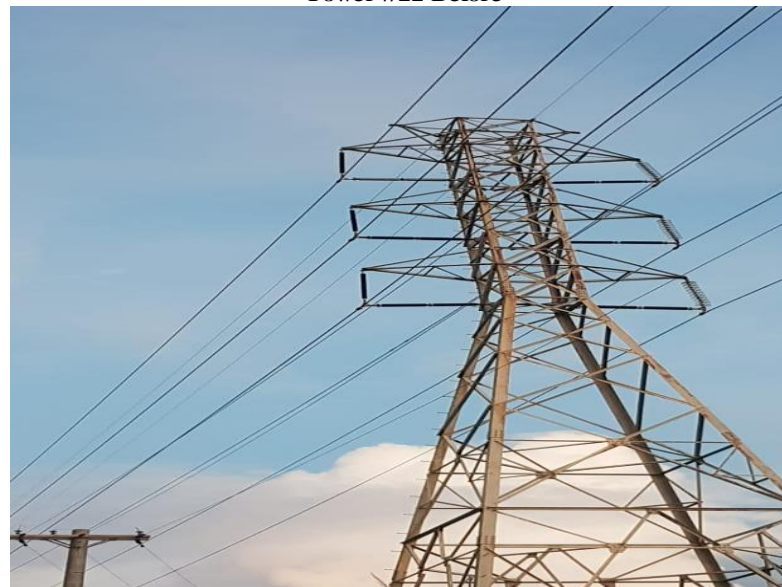
Restoration

32

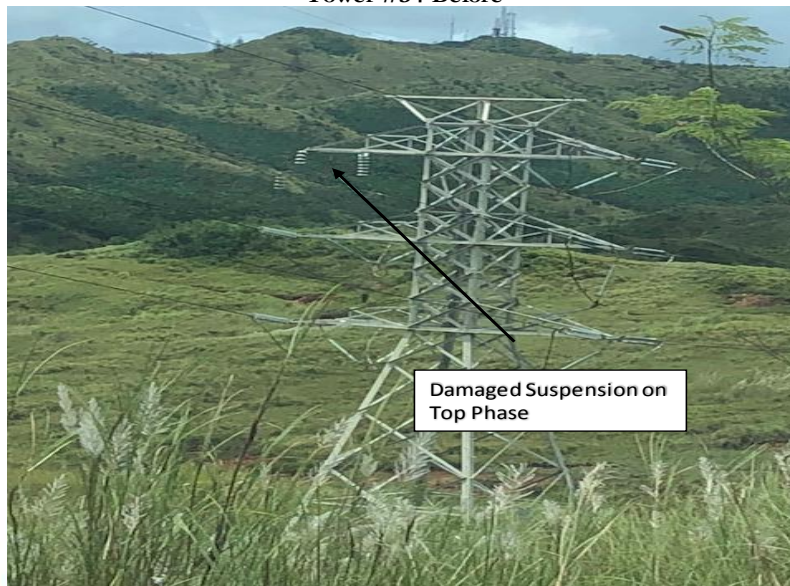
Tower #22 Before



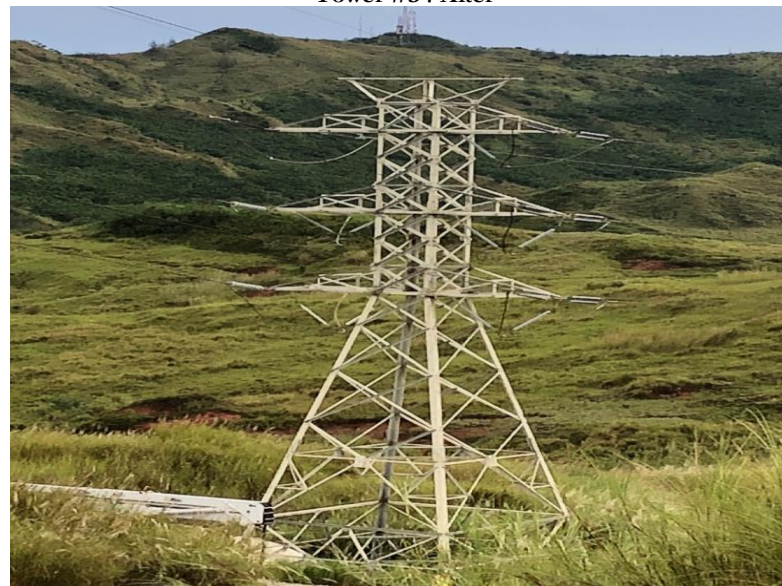
Tower #22 Before



Tower #34 Before



Tower #34 After



Restoration

33

Tower #18 Before



Tower #18 After



STANDBY GENERATORS BRIEFING

October 18, 2018

John M. Benavente, P.E.
General Manager



AGENDA

35

- I. GWA CRITICAL ASSETS
- II. HOW POWER IS DELIVERED
- III. GPA TRANSMISSION AND DISTRIBUTION SYSTEM
- IV. TYPHOON MANGKHUT RECOVERY
- V. STANDBY GENERATORS FOR GWA ASSETS
- VI. SUMMARY
- VII. QUESTIONS AND COMMENTS



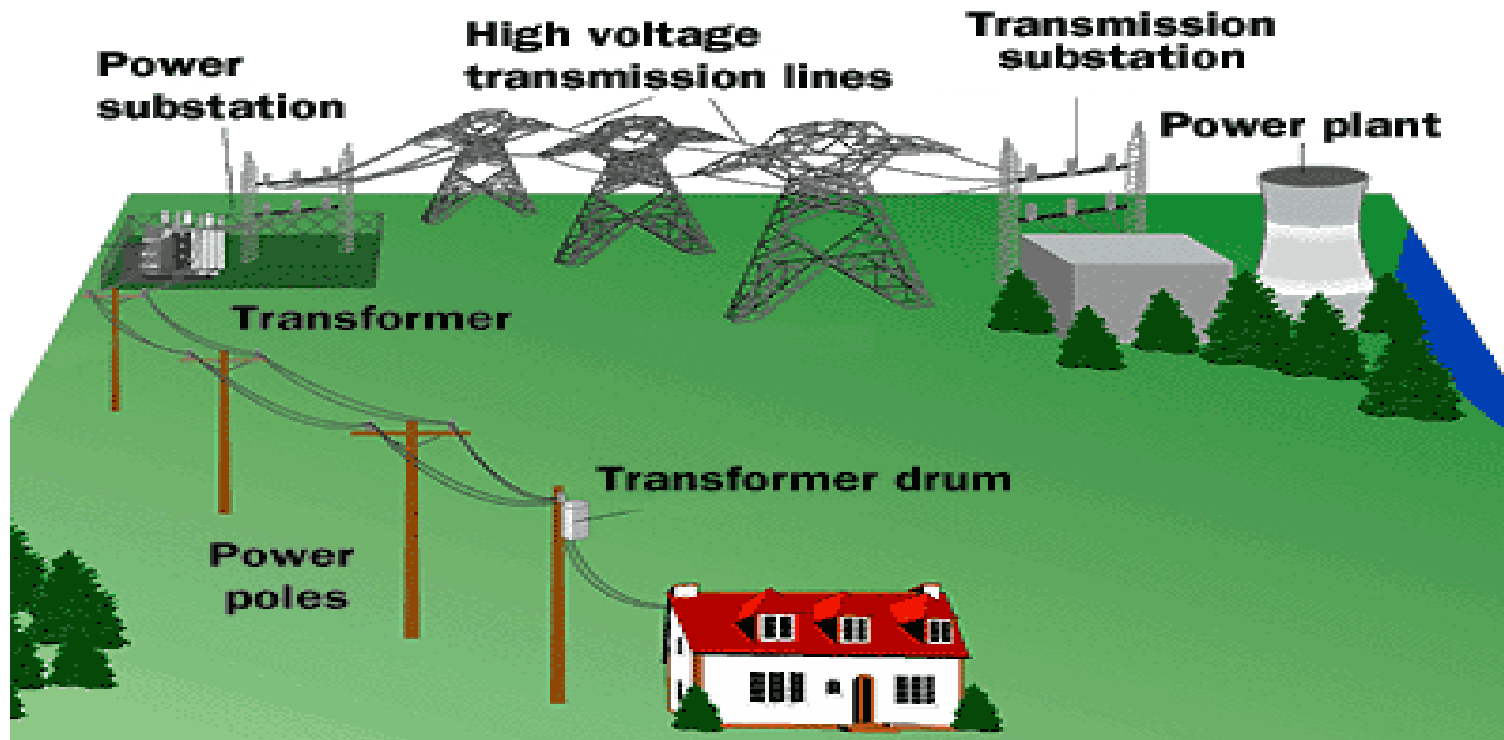
GWA CRITICAL Water, and Wastewater ASSETS WIDESPREAD Difficult to recover immediately After Storms!!!

36



HOW POWER IS DELIVERED

Substantial Repairs Need to be done before Customer Receives Power



T&D SYSTEM

38

Description	Overhead Miles	Underground Miles	TOTAL Miles
Transmission Lines	154	35	189
Distribution Lines	1,331	307	1,638
Substations	29		
Distribution Feeders	67		
GPA Customers Served	50,763		

Sector	# of Feeders	Transmission Lines (mi)	Distribution Lines (mi)
North	33	72	790
Central	23	47	552
South	11	70	296



GPA CUSTOMERS

39

Northern Villages	28,056 Customers
Dededo	12,528
Tamuning-Tumon-Harmon	10,248
Yigo	5,280

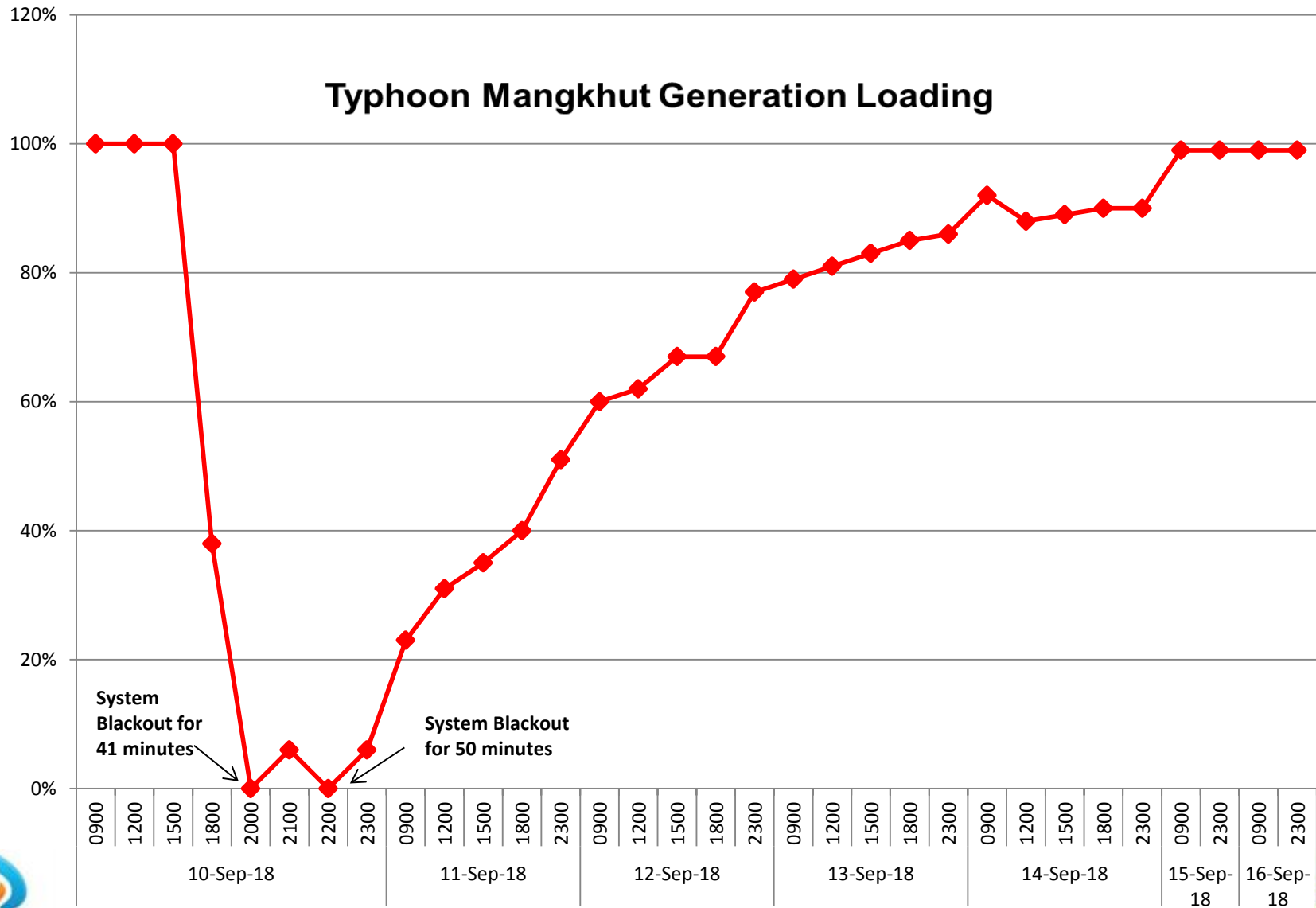
Southern Villages	7,160 Customers
Agat	1,478
Inarajan	766
Merizo	528
Santa Rita	1,170
Talofofo	1,016
Umatac	196
Yona	2,006

Central Villages	16,130 Customers
Agana Hts.	1,142
Asan-Maina	724
Barrigada	2,988
Chalan Pago-Ordot	2,201
Hagatna	798
Mangilao	4,490
Mongmong-Toto-Maite	2,261
Piti	647
Sinajana	879



System Loading

40



Restoration Delays are Costly to GPA

Typhoon Mangkhut Revenue Loss Almost a \$1M

41

Pre-Typhoon Period			Post-Typhoon Period			VARIANCE (KWH)	Projected Sales Loss
Date	Day	Net KWH	Date	Day	Net KWH		
3-Sep	Mon	4,459,346	10-Sep	Mon	3,023,541	1,435,805	\$ 136,799
4-Sep	Tue	4,476,709	11-Sep	Tue	1,358,717	3,117,992	\$ 297,072
5-Sep	Wed	4,505,685	12-Sep	Wed	2,878,520	1,627,165	\$ 155,031
6-Sep	Thu	4,487,488	13-Sep	Thu	3,701,117	786,371	\$ 74,923
7-Sep	Fri	4,565,742	14-Sep	Fri	4,107,311	458,431	\$ 43,678
8-Sep	Sat	4,614,858	15-Sep	Sat	4,463,970	150,888	\$ 14,376
9-Sep	Sun	4,595,994	16-Sep	Sun	4,454,821	141,173	\$ 13,450
TOTAL:		31,705,821			23,987,997	7,717,824	\$ 735,328

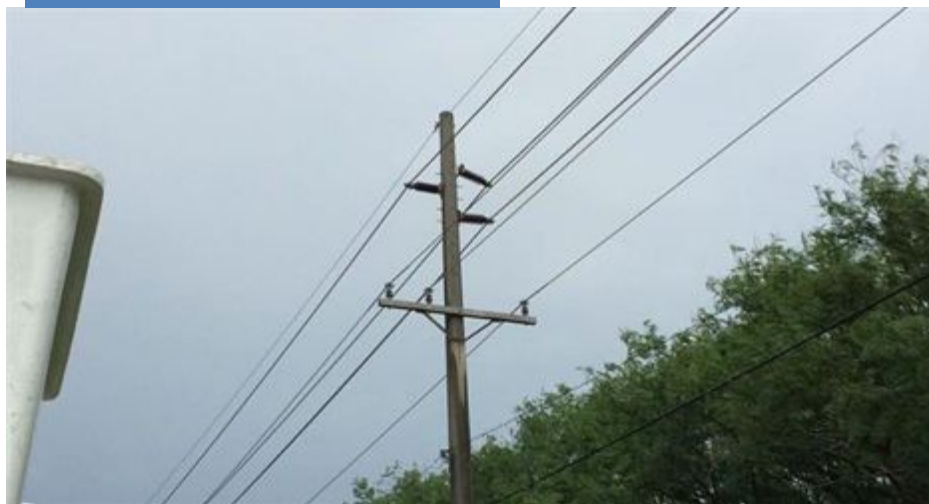
* Based on the August Revenue Reports average base rate



Damages Are Difficult to Repair

42

Barrigada-Talofofo



Afame, Sinajana



Mangilao



Cross Island Road



Damages Are Time Intensive to Repair

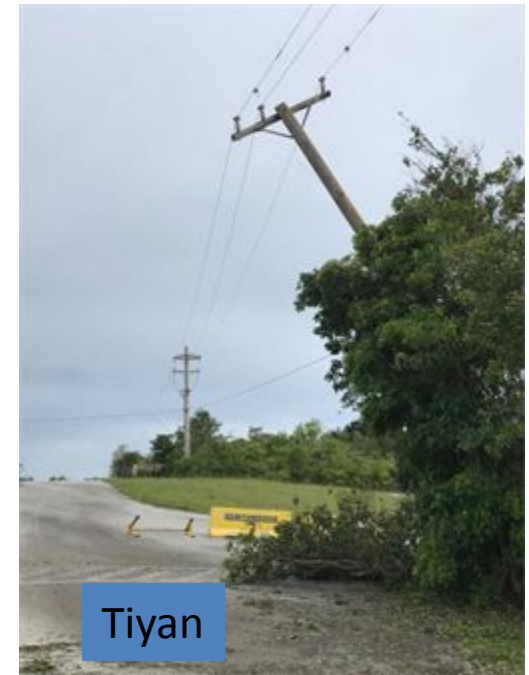
43



Pulantat



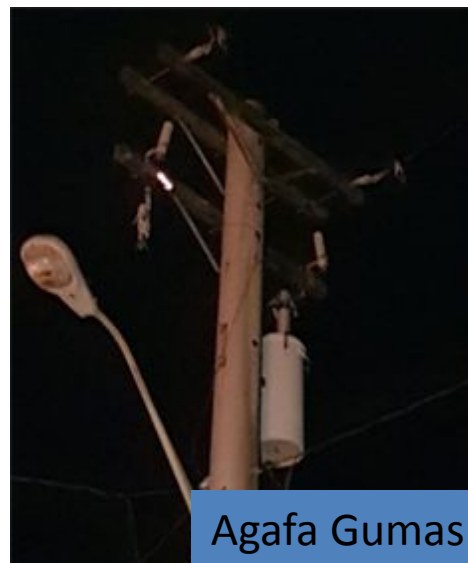
Mangilao



Tiyan



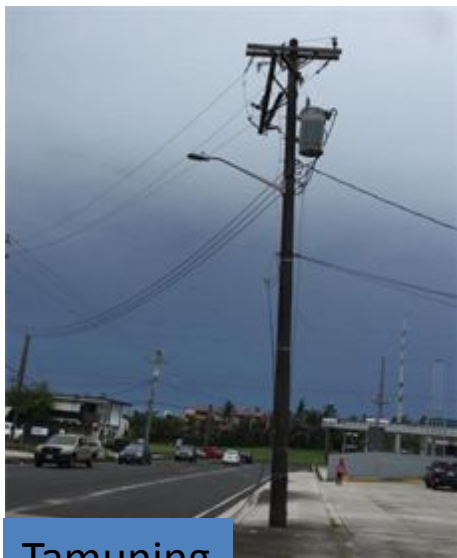
UPI Elementary



Agafa Gumas

Damages are Widespread

44



Tamuning



Ypaopao



Mongmong



Camp Witek, Yona



Restoration Takes Time

45

Pago Bay



Tumon



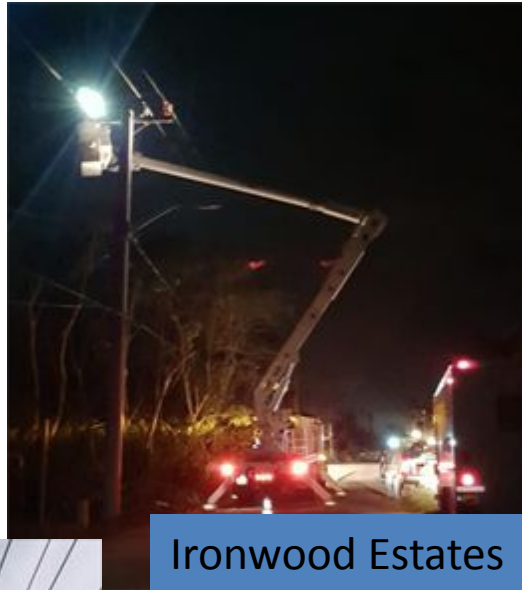
Agana Substation

Restoration Requires Specialized Workers

46



Ypaopao



Ironwood Estates



Agana Heights



Chalan Irensia, Dededo



Typhoons Causes Substantial Water Outages at Large

47

**Water Service Crucial to Health and Wellness of Island Community and Typhoons on Guam Impact Water Service; GPA's Top Priority is to Restore Power to Water Wells and Wastewater Stations;
Without Standby Generators Recovery to Customers Substantially Delayed
Six Major Typhoons Impacted Guam Between 1988 to 1992**

Date	Typhoon	Estimated Winds MPH	Estimated Damages
11-Nov-62	KAREN	175 to 185	\$250M
21-May-76	PAMELA	150	\$500M
12-Jan-88	ROY	100 to 130	\$28M
21-Apr-89	ANDY	80 to 100	
20-Dec-90	RUSS	120 to 150	\$120M
27-Nov-91	YURI	90 to 115	\$33M
28-Aug-92	OMAR	135 to 150	\$457M
23-Nov-92	GAY	100	No Data
16-Dec-97	PAKA	145 to 185	\$500M
28-Jun-02	CHATAAN	110	\$60M
8-Dec-02	PONGSONA	144 to 173	\$700M
15-May-15	DOLPHIN	80 to 106	\$10M
Sept 8 2018	MANGKHUT	80 to 100	



Typhoons Typically Causes Substantial Water Outages

48

Without Standby Generators Water Restoration to all Customers will be Substantially Delayed Causing Hardship to the Community

Date	Typhoon	Days of Significant Water Issues (Source: PDN Articles)
11-Nov-1962	KAREN	???
21-May-1976	PAMELA	???
12-Jan-1988	ROY	10 days
21-Apr-1989	ANDY	*no major structural damage/only crop damage
20-Dec-1990	RUSS	8 days
27-Nov-1991	YURI	6 days
28-Aug-1992	OMAR	17 days
23-Nov-1992	GAY	*little additional destruction/Omar earlier
16-Dec-1997	PAKA	15 days
28-Jun-2002	CHATA'AN	25 days
8-Dec-2002	PONGSONA	30 days
15-May-2015	DOLPHIN	12 days to Restore Affected 11% of GWA Customers
8-Sep-2018	MANGKHUT	5 days for <1% of GWA Customers



GPA Installed 143 STANDBY GENERATORS in 1993

Generators Were Installed with \$13M of GPA 1992 Bond Funds to Insure Water Wells and Wastewater Facilities Had Electricity after Typhoons so that GPA could Effectively and Efficiently Restore All Power Customers

- About 145 Water and Wastewater Assets in 1993
- Generators were installed in typhoon proof buildings
- Generators installed with automatic transfer switches and fuel tanks adequate for running several days without refueling
- From 1993 to 2015 GWA added more water and wastewater assets including about 90 standby generators
- 89% of GWA customers had water during and after Typhoon Dolphin in 2015
- GPA took responsibility for 90 GWA generators in November 2015
- During and after Typhoon Mangkhut, greater than 99% of GWA customers had water service because of the GPWA Standby Generator Partnership
- GPWA Continues Working Towards Having All GWA Assets With Generators



STANDBY GENSETS AT GWA SITES

50

GWA Water Wells, Water Booster Pump Stations, Wastewater Pump Stations and Wastewater Lift and Ejector Stations

- About 88 % of Operating Water and Wastewater Assets have standby generators installed
- Uninterrupted water service to the South throughout Typhoon Mangkhut, except for high elevation areas which had boosters
 - GPA installed 800 kW generator at Ugum in November 2017
 - GWA upgraded Ugum plant membranes to process higher turbidity water
- GPA to begin replacement program of standby generators over 10 years. Units are mostly 25 years old now and near end of useful life
- More portable generators need to be procured for emergencies
- Planning underway to implement short term solutions to small water booster stations and wastewater lift stations which suffered prolong power interruptions causing no water service to high elevation customers and sewage spills to customers in low areas
- About 27 Operating Asset Sites Without Generators and will Require Capital Investments to Installed Concrete Building to House Generator, Automatic Transfer Switch and 7 Days of Fuel Supply



STANDBY GENSETS AT GWA SITES

51

GWA TOTAL OPERATING ASSETS			
	With Generator	No Generator	TOTAL
Booster Pumps	20	11	31
Waterwells	100	5	105
Wastewater	70	11	81
Laboratory	1		1
TOTAL	191	27	218
Percentage With Generators:	87.6%		



STANDBY GENSETS AT GWA SITES

52

GENERATOR AVAILABILITY			
	Operational	Down	Availability
Booster Pumps	20	0	100.0%
Waterwells	97	3	97.0%
Wastewater	65	5	92.9%
Laboratory	1	0	100.0%
TOTAL	183	8	95.8%



STANDBY GENSETS AT GWA SITES

53

Lack of generators at small water booster pump stations caused interrupted water service to about 150 Customers; GWA customers total about 42,000

Because water service continued thru the typhoon, sewage spills occurred at small lift stations because no generators available

The following pictures show some locations which lack standby generators and mainly consist of water booster stations and wastewater lift and ejector systems



CHALAN PALAUAN - NORTH

54



- 25 to 30 Homes
 - 2 Farms

ADAWAG MAINA BOOSTER

55



25 to 30 Homes

PIGUA MERIZO

56



25 to 30 Homes



NIMITZ HILL (TURNER ROAD)

57



20 to 30 Homes

PALE KIERAN - SINAJANA

58



20 to 25 Homes

CAMACHO BOOSTER - TALOFOFO

59



4 Homes

LOWER SANTA ANA - AGAT

60



4 Homes



TENORIO BOOSTER - TALOFOFO

61



3 Homes



Wastewater Astumbo #1

62



Wastewater Astumbo #2

63



Wastewater SD-14 Ejector #2 Umatac

64



Wastewater SD-15 Ejector #3 Merizo

65



Wastewater SD-16 Ejector #4 Merizo

66



Wastewater SD-17 Ejector #5 Merizo

67



Wastewater Sd-18 Ejector # 6 Merizo

68



Wastewater SD- Ejector #7 merizo

69



Wastewater SD-30 MTL Talofof

70



Wastewater SD-23 North Reyes Merizo

71



Wastewater SD-27 Pagacho Agat

72



Water Well Y-14 Behind Simon Sanchez Yigo

73



Planned GWA CIP HGC-2 Santa Ana Yigo

74



Planned GWA CIP SD-28 Chaligan Agat Wastewater

75



Typhoon Mangkhut Damaged Generator AG-2

76



Typhoon Mangkhut Damaged Generator F-15

77



Typhoon Mangkhut Damaged Generator Y-15

78



Typhoon Mangkhut Damaged Generator Machanao PS Wastewater

79



Typhoon Mangkhut Damaged Generator CD-17 Dairy Road Wastewater

80



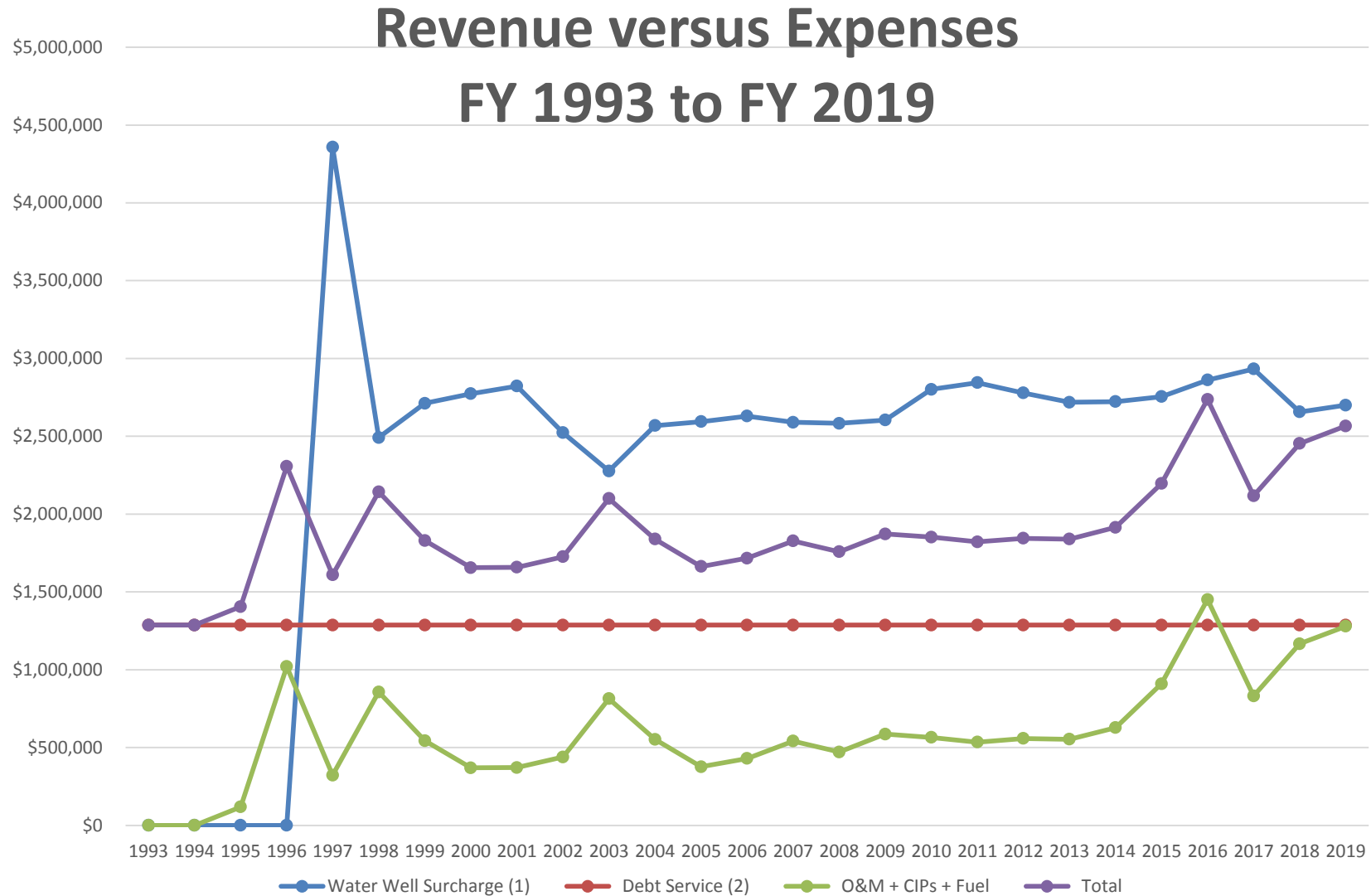
Typhoon Mangkhut Damaged Generator ND-4 Ypaopao Wastewater Unit Submerged in Water Caused by Flooding at Site

81



GPA Standby Generator Surcharge

82



GPA Surcharge Chronology

83

- Public Law 21-133 directed GPA to procure and install standby generators to be used for the operation of Public Utilities of Guam (PUAG) water wells, water booster pumps and wastewater pump stations
- Approximately \$13 million from the 1992 30-Year Revenue Bond funded these generators. Original number of generators to be installed was at 143 locations based on the Docket 92-010 when Rate Schedule E was created.
- In Docket 92-010, GPA's application for tariff Rate Schedule E was approved by PUC on March 30, 1994 and became effective on April 1, 1994
- Rate Schedule E was applicable to PUAG to pay for the (1) Debt Service of the generators (2) Capital expenditures (3) Operations and Maintenance and (4) Fuel and fuel related charges
- At the end of FY 96, GPA's receivable from PUAG under tariff Rate Schedule E was approximately \$7.2 million. PUAG did not make a single payment since the creation of the tariff.



GPA Surcharge Chronology (cont'd)

84

- In Docket 95-001, GPA's 1996 base rate case, PUAG's non-payment of tariff Rate Schedule E was discussed
- In Docket 96-004, PUC established the water well surcharge to be collected from all civilian ratepayers beginning June 1, 1996. The regulatory asset of \$7.2 million was set up and the water well surcharge rate was established at \$0.00477/kWh
- In Docket 97-002, the \$5 million Tariff E regulatory asset was extended, which would expire by order on 9/30/1997. The surcharge was at \$0.00719/kWh. An additional surcharge of \$2.8 million was established to fund FY 1997 Tariff E charges to be recovered from March 1, 1998 until October 1, 1999 at the rate of \$0.00242/kWh.
- Subsequently, GPA petitioned PUC for the Tariff E surcharge creating annual revenues of about \$2.8 million and the regulatory asset creating annual revenues of about \$5 million be embedded into base rates and that the tariff be rescinded.



GPA Surcharge Chronology (cont'd)

85

- The stipulation in Docket 97-002 dated May 8, 1998 states that the revenue stream associated with Tariff E (\$5 million regulatory asset) effective June 1, 1998 be added to civilian base rates in anticipation of significant new expenses arising from GPA's contract obligations under the IPP contracts and to avoid another base rate increase in FY 1999. It also states that the additional Tariff E surcharge (\$2.8 million revenues) should continue in force and in effect until further Commission order to provide a revenue stream to support Tariff E related expenses.
- In the last several rate cases, this surcharge was included in the total revenue requirement of GPA. So in any adjustment of the base rates, the surcharge was also increased by the same approved % increase. In the 2012 base rate case, the PUC staff Georgetown Consulting Group recommended that the water well surcharge be embedded in the base rates, but this change has not yet been implemented.



SUMMARY

86

- Water Service is of Paramount Priority to the Community
- From 1988 to 1992 Major Storms Impacted Guam Resulting in GPA Constantly Having to Isolate Customers in Order to Quickly Restore Power to Water and Wastewater Facilities
- GPA installed 143 Standby Generators at PUAG Sites in 1993 in Order to Effectively and Efficiently Restore Power Service to All Customers
- Generators Installed in 1993 Continue to Maintain High Availabilities
- Disconnecting Customers in Order to Restore Water Service was Ineffective and Inefficient Causing Significant Burdens on GPA customers
- Delayed Restoration of GPA Customers Results in Substantial Revenue Losses



SUMMARY (Cont'd)

87

- Surcharge was Established by the PUC for GPA to be Able to Pay Debt Service and Expenses of the Generators because PUAG Refused to Pay for the Service
- The Surcharge was and is not a Restricted Account and is not similar to the Restricted Accounts Like the Self-Insurance Fund and the Working Capital Fund
- It was Recommended to Merge the Surcharge Revenue into the Base Rate. We Recommend it be Done in the Next Rate Case
- The Generators will need to be Replaced Over the Next Few Years since They are Mostly 25 Years of Age.



SUMMARY (Cont'd)

88

- The CCU Merged All Standby Generator Asset Responsibilities of GPWA to GPA in 2015
- Funding for about 27 New Standby Generator Systems need to be Identified
- All GPA Generators installed in 1993 need to be replaced over a 10 Year Period
- In the Interim GPA needs to Purchase More Portable Generators for use during Emergency Failures
- GWA Continues to Add New Generators on Various Sites and on All New Infrastructure
- GPWA will Continue to Work on its Goal to Continuously Serve Water to All Customers During Storm Periods



Questions ???

Si Yu'os Ma'åse'





GUAM POWER AUTHORITY

ATURIDAT ILEKTRESEDAT GUAHAN
 P O BOX 2977, AGANA, GUAM 96932-2977
 Telephone: (671) 648-3066 Fax: (671) 648-3168

GUAM POWER AUTHORITY FINANCIAL STATEMENT OVERVIEW August 2018

Attached are the financial statements and supporting schedules for the month and fiscal year ended August 31, 2018.

Summary

The increase in net assets for the month ended was \$0.8 million as compared to the anticipated net increase of \$0.5 million projected at the beginning of the year. The total kWh sales for the month were 8.44% less than projected and non-fuel revenues were \$1.1 million less than the estimated amount. O & M expenses for the month were \$5.9 million which was \$0.5 million less than our projections for the month. Other expenses for the month such as interest expense, IPP costs, (net of interest income and other income) totaled to \$3.2 million, which was \$0.8 million less than the projected amounts. There were no other significant departures from the budget during the period.

Analysis

Description	Previous Month	Current Month	Target
Quick Ratio	2.48	2.62	2
Days in Receivables	39	38	52
Days in Payables	29	20	30
LEAC (Over)/Under Recovery Balance -YTD	\$8,422,674	\$7,313,081	\$8,722,838
T&D Losses	5.03%	5.08%	<7.00%
Debt Service Coverage	1.80	1.78	1.75
Long-term equity ratio	17%	17%	30 – 40%
Days in Cash	172	199	60

The Quick Ratio has been a challenge for GPA historically. However, over the last two fiscal years, the influx of cash from insurance proceeds continued to improve this ratio. GPA has current obligations of approximately \$64 million and approximately \$168 million in cash and current receivables. Debt Service Coverage ratio is calculated using the methodology in use before the Fiscal Year 2002 change in accounting practice.

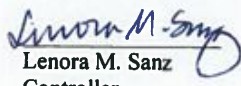
Financial Statements
August 2018

Significant Assumptions

The significant assumptions in the financial statements are as follows:

- Accrual cutoff procedures were performed at month end
- An inventory valuation is performed at year-end only
- Accounts Receivable includes accruals based on prior months' usage.

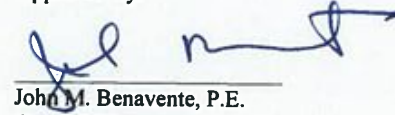
Prepared by:


Lenora M. Sanz
Controller

Reviewed by:


John J.E. Kim
Chief Financial Officer

Approved by:


John M. Benavente, P.E.
General Manager

GUAM POWER AUTHORITY (A COMPONENT UNIT OF THE GOVERNMENT OF GUAM) Statements of Net Position August 31, 2018 and September 30, 2017			
	Unaudited August 2018	Audited September 2017	Change from Sept 30 2017
ASSETS AND DEFERRED OUTFLOWS OF RESOURCES			
Current assets:			
Cash and cash equivalents:			
Held by trustee for restricted purposes:			
Interest and principal funds	15,309,791	18,061,879	(2,752,088)
Bond indenture funds	50,993,988	56,907,535	(5,913,547)
Held by Guam Power Authority:			
Bond indenture funds	128,395,658	132,579,889	(4,184,231)
Self insurance fund-restricted	19,257,186	19,251,372	5,814
Energy sense fund	1,141,191	1,074,491	66,700
Total cash and cash equivalents	215,097,814	227,875,166	(12,777,352)
Accounts receivable, net	36,497,720	77,826,132	(41,328,412)
Total current receivables	36,497,720	77,826,132	(41,328,412)
Materials and supplies inventory	12,838,914	11,989,745	849,169
Fuel inventory	61,501,478	52,387,369	9,114,109
Prepaid expenses	1,940,395	629,586	1,310,809
Total current assets	327,876,321	370,707,998	(42,831,677)
Utility plant, at cost:			
Electric plant in service	1,059,334,176	1,038,121,362	21,212,814
Construction work in progress	25,299,311	18,480,173	6,819,138
Total	1,084,633,487	1,056,601,535	28,031,952
Less: Accumulated depreciation	(595,795,575)	(561,829,334)	(33,966,241)
Total utility plant	488,837,912	494,772,201	(5,934,289)
Other non-current assets:			
Investment - bond reserve funds held by trustee	48,567,702	48,576,863	(9,161)
Unamortized debt issuance costs	2,527,115	4,267,305	(1,740,190)
Total other non-current assets	51,094,817	52,844,168	(1,749,351)
Total assets	867,809,050	918,324,367	(50,515,317)
Deferred outflow of resources:			
Deferred fuel revenue	7,313,081	16,751,048	(9,437,967)
Unamortized loss on debt refunding	27,322,802	11,076,064	16,246,738
Pension	8,698,853	8,698,853	0
Unamortized forward delivery contract costs	491,278	637,358	(146,080)
Total deferred outflows of resources	43,826,014	37,163,323	6,662,691
	911,635,064	955,487,690	(43,852,626)

GUAM POWER AUTHORITY (A COMPONENT UNIT OF THE GOVERNMENT OF GUAM) Statement of Net Position, Continued August 31, 2018 and September 30, 2017			
	Unaudited August 2018	Audited September 2017	Change from Sept 30 2017
LIABILITIES, DEFERRED INFLOWS OF RESOURCES AND NET POSITION			
Current liabilities:			
Current maturities of long-term debt	1,630,000	1,780,000	(150,000)
Current obligations under capital leases	13,892,874	23,330,193	(9,437,319)
Accounts payable			
Operations	21,734,066	56,723,139	(34,989,073)
Others	2,666,918	7,597,801	(4,930,883)
Accrued payroll and employees' benefits	1,577,098	1,546,860	30,238
Current portion of employees' annual leave	2,070,918	2,045,201	25,717
Interest payable	12,347,409	15,065,830	(2,718,421)
Customer deposits	8,167,793	8,209,228	(41,435)
Total current liabilities	64,087,076	116,298,252	(52,211,176)
Regulatory liabilities:			
Provision for self insurance	19,550,977	19,550,977	0
Total regulatory liabilities	19,550,977	19,550,977	0
Long term debt, net of current maturities	605,043,958	590,568,862	14,475,096
Obligations under capital leases, net of current portion	12,768,685	24,428,832	(11,660,147)
Net Pension liability	81,951,032	85,875,217	(3,924,185)
DCRS sick leave liability	4,008,397	4,008,397	0
Employees' annual leave net of current portion	1,086,456	1,086,456	0
Customer advances for construction	385,293	369,180	16,113
Total liabilities	788,881,874	842,186,173	(53,304,299)
Deferred inflows of resources:			
Unearned forward delivery contract revenue	1,800,721	2,336,071	(535,350)
Pension	788,894	788,894	0
Total deferred inflows of resources	2,589,615	3,124,965	(535,350)
Commitments and contingencies			
Net Position:			
Net investment in capital assets	(45,321,207)	(40,220,468)	(5,100,739)
Restricted	33,866,559	15,232,832	18,633,727
Unrestricted	131,618,222	135,164,187	(3,545,965)
Total net position	120,163,574	110,176,552	9,987,022
	911,635,064	955,487,690	(43,852,626)

GUAM POWER AUTHORITY (A COMPONENT UNIT OF THE GOVERNMENT OF GUAM) Statement of Revenues, Expenses and Changes in Net Assets						
	August 31		% of change Inc (dec)	Eleven Months Ended August 31		% of change Inc (dec)
	Unaudited 2018	Audited 2017		Unaudited 2018	Audited 2017	
Revenues						
Sales of electricity	32,643,674	31,191,516	5	347,231,234	301,304,326	15
Miscellaneous	214,456	293,607	(27)	2,023,100	2,141,540	(6)
Total	32,858,130	31,485,123	4	349,254,334	303,445,866	15
Bad debt expense	(97,419)	(93,433)	4	(963,253)	(987,363)	(2)
Total revenues	32,760,711	31,391,690	4	348,291,082	302,458,503	15
Operating and maintenance expenses						
Production fuel	19,602,715	16,947,305	16	198,934,230	150,529,481	32
Other production	1,378,498	2,066,709	(33)	15,403,114	14,554,141	6
	20,981,213	19,014,014	10	214,337,344	165,083,622	30
Depreciation	3,146,207	3,718,993	(15)	35,320,567	43,460,200	(19)
Energy conversion cost	1,378,073	1,790,599	(23)	16,138,059	18,166,067	(11)
Transmission & distribution	1,033,595	1,058,314	(2)	11,839,468	10,763,156	10
Customer accounting	556,229	419,085	33	4,938,192	3,828,178	29
Administrative & general	2,894,784	2,807,312	3	28,413,623	23,774,675	20
Total operating and maintenance expenses	29,990,101	28,808,317	4	310,987,253	265,075,898	17
Operating income	2,770,610	2,583,373	7	37,303,829	37,382,605	(0)
Other income (expenses)						
Interest income	372,698	166,469	124	2,736,096	1,375,513	99
Interest expense and amortization	(2,538,375)	(2,765,685)	(8)	(29,120,559)	(31,082,641)	(6)
Bond issuance costs	67,464	76,827	(12)	(1,776,737)	845,097	(310)
Assets written off	0	0		0	0	
Allowance for funds used during construction	123,910	273,825	(55)	1,563,317	3,403,305	(54)
Other expense	(4,291)	(233,550)	0	(835,101)	(768,913)	9
Total other income (expenses)	(1,978,594)	(2,482,114)	(20)	(27,432,984)	(26,227,639)	5
Income (loss) before capital contributions	792,016	101,259	682	9,870,845	11,154,966	(12)
Capital contributions	13,503	101,406	0	116,175	144,712	(20)
Increase (decrease) in net assets	805,519	202,665	297	9,987,020	11,299,678	(12)
Total net assets at beginning of period (restated)	119,358,058	72,919,843	64	110,176,557	61,822,830	78
Total net assets at end of period	120,163,577	73,122,508	64	120,163,577	73,122,508	64

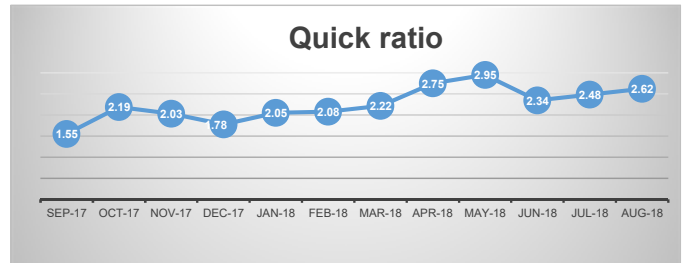
GUAM POWER AUTHORITY (A COMPONENT UNIT OF THE GOVERNMENT OF GUAM) Statements of Cash Flows Period Ended August, 2018		
	Month Ended 8/31/2018	YTD Ended 8/31/2018
Increase(decrease) in cash and cash equivalents		
Cash flows from operating activities:		
Cash received from customers	\$33,722,421	\$ 347,657,761
Cash payments to suppliers and employees for goods and services	39,686,692	338,773,279
Net cash provided by operating activities	(\$5,964,271)	8,884,482
Cash flows from investing activities:		
Interest and dividends on investments and bank accounts	372,698	2,736,096
Net cash provided by investing activities	372,698	2,736,096
Cash flows from non-capital financing activities		
Proceeds from Cabras 3&4 insurance claims	-	41,844,342
Interest paid on short term debt	(8,805)	(75,890)
Provision for self insurance funds	-	(5,814)
Net cash provided by noncapital financing activities	(8,805)	41,762,639
Cash flows from capital and related financing activities		
Acquisition of utility plant	(1,837,226)	(29,386,276)
Principal paid on bonds and other long-term debt	-	(3,550,000)
Interest paid on bonds(net of capitalized interest)	123,910	(27,213,969)
Interest paid on capital lease obligations	(196,229)	(2,985,803)
Interest & principal funds held by trustee	(2,484,893)	2,752,088
Reserve funds held by trustee	(37,108)	9,161
Bond funds held by trustee	(17,678)	5,913,547
Principal payment on capital lease obligations	(1,947,869)	(21,097,466)
Grant from DOI/FEMA	13,503	116,175
Debt issuance costs/loss on defeasance	(333,577)	17,875,096
Net cash provided by (used in) capital and related financing activities	(6,717,166)	(57,567,447)
Net (decrease) increase in cash and cash equivalents	(12,317,544.81)	(4,184,231)
Cash and cash equivalents, beginning	140,713,203	132,579,889
Cash and cash equivalents-Funds held by GPA, August 31, 2018	\$ 128,395,658	\$ 128,395,658

GUAM POWER AUTHORITY (A COMPONENT UNIT OF THE GOVERNMENT OF GUAM) Statements of Cash Flows, continued Period Ended August, 2018		
	Month Ended 8/31/2018	YTD Ended 8/31/2018
Reconciliation of operating earnings to net cash provided by operating activities:		
Operating earnings net of depreciation expense and excluding interest income	\$2,770,610	\$37,303,829
Adjustments to reconcile operating earnings to net cash provided by operating activities:		
Depreciation and amortization	3,146,207	35,320,567
Other expense	63,173	(2,611,838)
(Increase) decrease in assets:		
Accounts receivable	959,800	(515,930)
Materials and inventory	81,923	(849,169)
Fuel inventory	(5,524,368)	(9,114,109)
Prepaid expenses	967,869	(1,310,809)
Unamortized debt issuance cost	23,667	1,740,190
Deferred fuel revenue	1,109,593	9,437,967
Unamortized loss on debt refunding	229,166	(16,246,738)
Unamortized forward delivery contract costs	13,280	146,080
Increase (decrease) in liabilities:		
Accounts payable-operations	(10,161,420)	(34,989,073)
Accounts payable-others	(559,181)	(4,997,583)
Accrued payroll and employees' benefits	380,282	30,238
Net pension liability	(298,265)	(3,924,185)
Employees' annual leave	(12,551)	25,717
Customers deposits	894,612	(41,435)
Customer advances for construction	-	16,113
Unearned forward delivery contract revenue	(48,668)	(535,350)
Net cash provided by operating activities	(\$5,964,271)	\$ 8,884,482

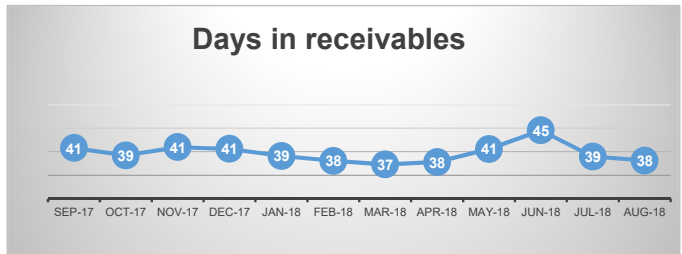
**Guam Power Authority
Financial Analysis
August 31, 2018**

Quick Ratio

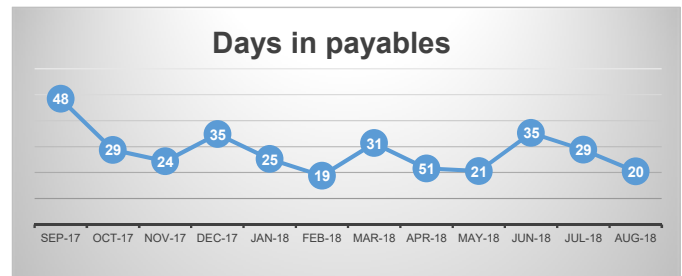
A	Reserve Funds Held by GPA	128,395,658
B	Current Accounts Receivable	39,378,379
C	Total Cash and A/R (A+B)	167,774,037
D	Total Current Liabilities	64,087,076
E	Quick Ratio (F/G)	2.62

**Days in Receivables**

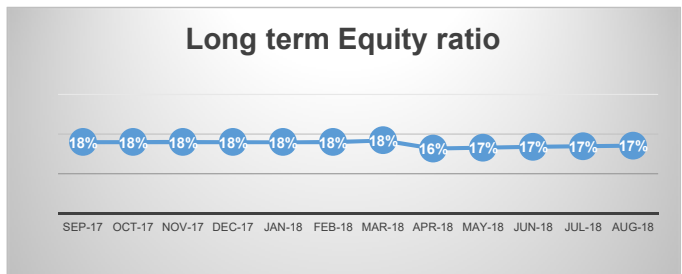
A	FY 18 Moving 12 Mos.-Actual	377,000,962
B	No. of Days	365
C	Average Revenues per day (A/B)	1,032,879
D	Current Accounts Receivable	39,378,379
E	Days in Receivables (D/C)	38

**Days in Payables**

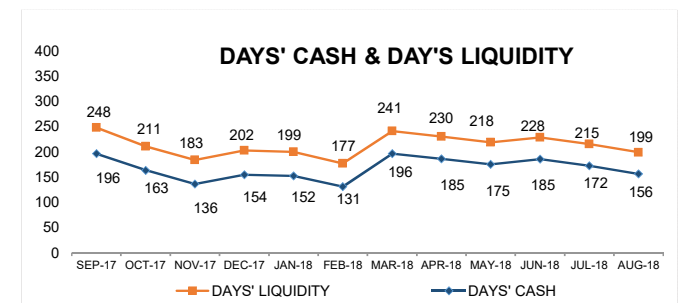
A	FY 18 Moving 12 Months-Actual	435,895,481
B	No. of Days	365
C	Average Payables per day (A/B)	1,194,234
D	Current Accounts Payables	24,400,984
E	Days in Payables (D/C)	20

**Long term equity ratio**

A	Equity	\$ 120,163,574.00
B	Total Long term Liability	\$ 581,805,433.00
C	Total Equity and liability	\$ 701,969,007.00
D	Long term equity ratio (A/C)	17%

**Days cash on hand**

A	Unrestricted cash & cash equivalents	128,396
B	No. of Days -YTD	335
C	A x B	43,012,545
D	Total Operating expenses excluding deprec	275,667
E	Days cash on hand	156

**Days' Liquidity**

A	Unrestricted cash , cash equivalents & rev	163,396
B	No. of Days -YTD	335
C	A x B	54,737,545
D	Total Operating expenses excluding deprec	275,667
E	Days liquidity	199

GPA 302
18-Sep-18
GUAM POWER AUTHORITY
ACCRUED REVENUE
AUGUST 2018

		FOR THE MONTH ENDED		ELEVEN MONTHS ENDED	
		AUGUST		AUGUST	
		2018	2017	2018	2017
KWH SALES:					
Residential		39,748,314	44,434,719	458,139,237	464,844,586
Small Gen. Non Demand		6,737,467	7,347,440	75,290,906	76,877,608
Small Gen. Demand		15,283,605	16,488,257	170,586,991	174,541,517
Large General		24,724,982	27,038,013	283,795,009	289,141,197
Independent Power Producer		30,251	57,754	450,006	927,237
Private St. Lights		33,511	33,324	368,123	415,876
	Sub-total	86,558,130	95,399,508	988,630,272	1,006,748,022
Government Service:					
Small Non Demand		1,205,730	1,243,487	13,237,197	12,656,139
Small Demand		7,641,330	8,147,386	85,863,776	88,794,233
Large		6,179,381	6,520,699	68,776,531	68,404,520
Street Lighting		842,364	877,130	8,311,252	8,817,604
	Sub-total	15,868,805	16,788,702	176,188,757	178,672,497
	Total	102,426,935	112,188,210	1,164,819,030	1,185,420,519
U. S. Navy		24,921,140	26,608,721	283,298,305	291,679,581
	GRAND TOTAL	127,348,076	138,796,930	1,448,117,335	1,477,100,100
REVENUE:					
Residential		9,971,178	9,762,810	108,487,456	91,714,657
Small Gen. Non Demand		1,962,561	1,902,660	20,885,432	18,256,735
Small Gen. Demand		4,192,538	3,964,157	44,361,361	38,377,244
Large General		6,427,049	6,028,539	68,748,114	58,535,001
Independent Power Producer		7,924	14,804	108,718	193,955
Private St. Lights		26,189	25,094	282,647	281,596
	Sub-total	22,587,439	21,698,063	242,873,729	207,359,188
Government Service:					
Small Non Demand		366,623	332,325	3,822,167	3,179,930
Small Demand		2,213,718	2,052,253	23,435,788	20,779,787
Large		1,733,549	1,573,445	18,172,081	15,404,285
Street Lighting		499,032	516,047	5,079,845	5,001,887
	Sub-total	4,812,921	4,474,070	50,509,881	44,365,889
	Total	27,400,361	26,172,133	293,383,609	251,725,076
U. S. Navy		5,243,314	5,019,382	53,847,624	49,579,251
	GRAND TOTAL	32,643,674	31,191,516	347,231,234	301,304,327
NUMBER OF CUSTOMERS:					
Residential		44,005	43,969	44,017	43,165
Small Gen. Non Demand		4,185	4,134	4,158	4,061
Small Gen. Demand		984	981	985	1,001
Large General		118	115	119	119
Independent Power Producer		2	3	2	2
Private St. Lights		525	527	529	532
	Sub-total	49,819	49,729	49,809	48,879
Government Service:					
Small Non Demand		683	678	686	693
Small Demand		354	351	351	339
Large		47	45	47	44
Street Lighting		614	297	477	162
	Sub-total	1,698	1,371	1,561	1,238
	Total	51,517	51,100	51,370	50,117
US Navy		1	1	1	1
		51,518	51,101	51,371	50,118

CCU Regular Meeting October 19, 2018 - GPA

GPA403 18-Sep-18		GUAM POWER AUTHORITY ACCRUED REVENUE												
	TWELVE MONTHS ENDING	AUGUST 2018	JULY 2018	JUNE 2018	MAY 2018	APRIL 2018	MARCH 2018	FEBRUARY 2018	JANUARY 2018	DECEMBER 2017	NOVEMBER 2017	OCTOBER 2017	SEPTEMBER 2017	
KWH SALES:														
Residential	499,630,253	39,748,314	41,361,122	42,056,621	44,782,019	41,394,961	41,541,824	36,809,815	42,067,765	43,307,944	43,386,853	41,682,000	41,491,015	
Small General Non Demand	82,312,998	6,737,467	6,743,157	6,840,318	7,216,684	6,694,385	6,976,607	6,154,115	6,844,713	6,956,278	7,060,041	7,067,142	7,022,092	
Small General Demand	186,096,399	15,283,605	15,161,689	15,360,000	16,316,998	15,390,268	15,917,309	14,164,319	15,562,774	15,848,505	15,789,397	15,792,127	15,509,408	
Large General	309,227,043	24,724,982	25,339,577	25,263,128	26,377,222	25,681,619	26,155,199	23,674,407	26,242,185	27,485,887	26,267,661	26,583,141	25,432,034	
Private Outdoor Lighting	444,655	33,511	34,288	37,088	34,126	27,531	32,791	32,408	32,358	35,129	35,042	33,851	76,532	
Independent Power Producer	484,592	30,251	30,088	25,238	26,295	27,405	28,536	28,976	27,011	40,140	93,823	92,244	34,586	
Sub-Total	1,078,195,938	86,558,130	88,669,920	89,582,394	94,753,344	89,216,169	90,652,265	80,864,040	90,776,805	93,673,883	92,632,817	91,250,505	89,565,666	
Government Service:	988,630,272													
Small Non Demand	14,483,303	1,205,730	1,128,046	1,157,839	1,224,286	1,180,911	1,193,794	1,119,571	1,248,251	1,272,026	1,255,131	1,251,612	1,246,106	
Small Demand	93,948,144	7,641,330	7,182,975	7,404,715	8,098,401	7,720,850	7,889,205	7,377,578	8,102,981	8,063,549	8,098,974	8,283,218	8,084,368	
Large	75,269,980	6,179,381	5,707,305	5,896,149	6,622,597	6,142,309	6,226,210	5,905,830	6,315,619	6,812,255	6,550,623	6,418,254	6,493,449	
Street Lighting (Agencies)	9,008,255	842,364	803,135	795,661	761,901	699,601	743,499	669,689	716,067	697,921	668,464	812,949	697,002	
Sub-Total	192,709,682	15,868,805	14,921,461	15,254,364	16,707,185	15,743,671	16,052,709	15,072,669	16,382,918	16,845,750	16,573,193	16,766,033	16,520,925	
Total	1,270,905,620	102,426,935	103,591,381	104,836,757	111,460,529	104,959,840	106,704,974	95,936,708	107,159,724	110,519,633	109,206,010	108,016,537	106,086,591	
U.S. Navy	310,204,625	24,921,140	25,089,942	24,891,007	26,624,376	25,605,624	25,988,485	23,304,608	26,722,147	28,067,673	26,837,883	25,245,420	26,906,320	
Grand Total	1,581,110,246	127,348,076	128,681,323	129,727,764	138,084,906	130,565,464	132,693,459	119,241,316	133,881,870	138,587,306	136,043,893	133,261,957	132,992,911	
REVENUE:														
Residential	\$ 117,374,776	\$ 9,971,178	\$ 10,379,963	\$ 10,487,819	\$ 11,371,498	\$ 10,082,308	\$ 10,154,660	\$ 9,633,432	\$ 9,885,179	\$ 9,238,911	\$ 9,263,463	\$ 8,919,044	\$ 8,887,320	
Small General Non Demand	\$ 22,669,430	\$ 1,962,561	\$ 1,975,429	\$ 1,969,294	\$ 2,127,563	\$ 1,903,541	\$ 1,988,097	\$ 1,869,658	\$ 1,741,922	\$ 1,765,223	\$ 1,789,263	\$ 1,792,881	\$ 1,783,997	
Small General Demand	\$ 48,053,633	\$ 4,192,538	\$ 4,181,623	\$ 4,150,658	\$ 4,513,787	\$ 4,108,079	\$ 4,266,730	\$ 4,006,949	\$ 3,714,258	\$ 3,769,415	\$ 3,699,298	\$ 3,758,026	\$ 3,692,273	
Large General	\$ 74,391,173	\$ 6,427,049	\$ 6,510,707	\$ 6,533,909	\$ 6,798,955	\$ 6,399,879	\$ 6,565,683	\$ 6,086,686	\$ 5,762,313	\$ 6,067,740	\$ 5,793,817	\$ 5,801,375	\$ 5,643,059	
Private Outdoor Lighting	\$ 308,008	\$ 26,189	\$ 26,302	\$ 27,542	\$ 26,776	\$ 22,912	\$ 25,785	\$ 25,133	\$ 25,471	\$ 25,553	\$ 25,471	\$ 25,250	\$ 25,361	
Independent Power Producer	\$ 125,795	\$ 7,924	\$ 9,619	\$ 6,601	\$ 7,068	\$ 7,057	\$ 7,406	\$ 7,969	\$ 6,029	\$ 9,249	\$ 20,053	\$ 19,744	\$ 17,076	
Sub-Total	\$ 262,922,815	\$ 22,587,439	\$ 23,083,643	\$ 23,175,823	\$ 24,845,648	\$ 22,523,776	\$ 23,008,362	\$ 21,630,428	\$ 20,234,834	\$ 20,876,091	\$ 20,591,366	\$ 20,316,320	\$ 20,049,087	
Government Service:														
Small Non Demand	\$ 4,155,245	\$ 366,623	\$ 343,795	\$ 354,533	\$ 372,707	\$ 350,949	\$ 356,541	\$ 335,126	\$ 332,434	\$ 341,017	\$ 334,963	\$ 333,478	\$ 333,079	
Small Demand	\$ 25,486,080	\$ 2,213,718	\$ 2,081,391	\$ 2,159,463	\$ 2,323,025	\$ 2,164,585	\$ 2,224,973	\$ 2,094,220	\$ 2,016,922	\$ 2,046,340	\$ 2,043,720	\$ 2,067,433	\$ 2,050,292	
Large	\$ 19,747,161	\$ 1,733,549	\$ 1,609,173	\$ 1,667,786	\$ 1,840,797	\$ 1,676,200	\$ 1,707,269	\$ 1,628,297	\$ 1,525,771	\$ 1,652,805	\$ 1,583,988	\$ 1,546,446	\$ 1,575,080	
Street Lighting (Agencies)	\$ 5,516,654	\$ 499,032	\$ 568,447	\$ 477,183	\$ 477,272	\$ 452,952	\$ 455,729	\$ 439,995	\$ 427,482	\$ 416,951	\$ 419,351	\$ 445,451	\$ 436,808	
Sub-Total	\$ 54,905,140	\$ 4,812,921	\$ 4,602,806	\$ 4,658,965	\$ 5,013,801	\$ 4,644,687	\$ 4,744,512	\$ 4,497,638	\$ 4,302,609	\$ 4,457,113	\$ 4,382,022	\$ 4,392,807	\$ 4,395,259	
Total	\$ 317,827,955	\$ 27,400,361	\$ 27,686,449	\$ 27,834,788	\$ 29,859,448	\$ 27,168,463	\$ 27,752,874	\$ 26,128,065	\$ 24,537,443	\$ 25,333,204	\$ 24,973,388	\$ 24,709,127	\$ 24,444,346	
U.S. Navy	\$ 59,173,007	\$ 5,243,314	\$ 5,217,194	\$ 4,618,042	\$ 5,005,555	\$ 5,623,411	\$ 5,202,943	\$ 4,155,974	\$ 5,033,103	\$ 4,642,130	\$ 4,254,065	\$ 4,851,893	\$ 5,325,383	
Grand Total	\$ 377,000,962	\$ 32,643,674	\$ 32,903,643	\$ 32,452,830	\$ 34,865,003	\$ 32,791,874	\$ 32,955,817	\$ 30,284,040	\$ 29,570,546	\$ 29,975,334	\$ 29,227,453	\$ 29,561,020	\$ 29,769,728	
NUMBER OF CUSTOMERS:														
Residential	44,014	44,005	44,003	44,074	44,086	43,991	44,065	43,995	44,119	43,898	43,996	43,950	43,991	
Small General Non Demand	4,156	4,185	4,183	4,173	4,172	4,183	4,154	4,153	4,142	4,129	4,131	4,134	4,127	
Small General Demand	984	984	982	984	988	988	987	991	981	981	982	982	980	
Large General	118	118	119	119	119	119	119	118	119	118	117	119	116	
Private Outdoor Lighting	529	525	531	532	533	536	526	527	527	530	527	530	526	
Independent Power Producer	2	2	2	2	2	2	2	2	2	3	3	3	3	
Sub-Total	49,804	49,819	49,820	49,884	49,900	49,819	49,853	49,786	49,890	49,659	49,756	49,718	49,743	
Government Service:														
Small Non Demand	685	683	690	694	691	692	689	684	686	679	678	676	675	
Small Demand	351	354	351	351	350	350	350	351	350	350	354	351	353	
Large	47	47	47	47	47	47	47	47	47	47	47	46	45	
Street Lighting (Agencies)	462	614	612	559	526	513	479	421	389	378	378	377	297	
Sub-Total	1,545	1,698	1,700	1,651	1,614	1,602	1,565	1,503	1,472	1,454	1,457	1,450	1,370	
Total	51,349	51,517	51,520	51,535	51,514	51,421	51,418	51,289	51,362	51,113	51,213	51,168	51,113	
U.S. Navy	1	1	1	1	1	1	1	1	1	1	1	1	1	
Grand Total	51,350	51,518	51,521	51,536	51,515	51,422	51,419	51,290	51,363	51,114	51,214	51,169	51,114	

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GUAM POWER AUTHORITY
ACCRUED REVENUE
AUGUST 2018

RATE	NUMBER OF CUSTOMERS	KWH SALES	TOTAL REVENUE		BASE RATE REVENUE		AVERAGE PER CUSTOMER		NON-FUEL		0.154242 FUEL	
			AMOUNT	C/KWH	C/KWH	AMOUNT	KWH	REVENUE	C/KWH	AMOUNT	C/KWH	AMOUNT
Month												
R Residential	44,005	39,748,314	9,971,178	25.09	25.09	9,971,178	903	227	9.6616	3,840,319	15.4242	6,130,859
G Small Gen. Non Demand	4,185	6,737,467	1,962,561	29.13	29.13	1,962,561	1,610	469	13.7049	923,361	15.4242	1,039,200
J Small Gen. Demand	984	15,283,605	4,192,538	27.43	27.43	4,192,538	15,532	4,261	12.0133	1,836,069	15.4183	2,356,468
P Large General	118	24,724,982	6,427,049	25.99	25.99	6,427,049	209,534	54,467	10.6342	2,629,314	15.3599	3,797,734
I Independent Power Produce	2	30,251	7,924	26.19	26.19	7,924	15,126	3,962	11.3049	3,420	14.8892	4,504
H Private St. Lights	525	33,511	26,189	78.15	78.15	26,189	64	50	62.7267	21,021	15.4242	5,169
Sub-Total	49,819	86,558,130	22,587,439	26.10	26.10	22,587,439	1,737	453	10.6905	9,253,504	15.4046	13,333,936
Government Service:												
S Small Non Demand	683	1,205,730	366,623	30.41	30.41	366,623	1,765	537	14.9825	180,648	15.4242	185,974
K Small Demand	354	7,641,330	2,213,718	28.97	28.97	2,213,718	21,586	6,253	13.5461	1,035,104	15.4242	1,178,614
L Large	47	6,179,381	1,733,549	28.05	28.05	1,733,549	131,476	36,884	12.8109	791,633	15.2429	941,916
F Street Lighting (Agencies)	614	842,364	499,032	59.24	59.24	499,032	1,372	813	43.8177	369,104	15.4242	129,928
Sub-Total	1,698	15,868,805	4,812,921	30.33	30.33	4,812,921	9,346	2,834	14.9759	2,376,489	15.3536	2,436,432
U.S. Navy	51,517	102,426,935	27,400,361	56.42	56.42	27,400,361	1,988	532	11.3544	11,629,993	15.3967	15,770,368
U.S. Navy	1	24,921,140	5,243,314	21.04	21.04	5,243,314			5.6839	1,416,504	15.3557	3,826,809
TOTAL	51,518	127,348,076	32,643,674	25.63	25.63	32,643,674	2,472	634	10.2448	13,046,497	15.3887	19,597,177
Eleven Months Ending August 2018												
R Residential	44,017	458,139,237	108,487,456	23.68	23.68	108,487,456	10,408	2,465	9.6231	44,087,286	14.0569	64,400,170
G Small Gen. Non Demand	4,158	75,290,906	20,885,432	27.74	27.74	20,885,432	18,107	5,023	13.6754	10,296,337	14.0642	10,589,095
J Small Gen. Demand	985	170,586,991	44,361,361	26.01	26.01	44,361,361	173,265	45,058	11.9771	20,431,354	14.0280	23,930,007
P Large General	119	283,795,009	68,748,114	24.22	24.22	68,748,114	2,393,976	579,930	10.3882	29,481,143	13.8364	39,266,971
I Independent Power Produce	529	450,006	108,718	24.16	24.16	108,718	850	205	11.3722	51,176	12.7871	57,543
H Private St. Lights	2	368,123	282,647	76.78	76.78	282,647	161,974	124,365	62.8853	231,495	13.8954	51,152
Sub-Total	49,809	988,630,272	242,873,729	24.57	24.57	242,873,729	19,848	4,876	10.5781	104,578,791	13.9885	138,294,937
Government Service:												
S Small Non Demand	685	13,237,197	3,822,167	28.87	28.87	3,822,167	19,331	5,582	15.0211	1,988,374	13.8533	1,833,793
K Small Demand	351	85,863,776	23,435,788	27.29	27.29	23,435,788	244,452	66,721	13.4412	11,541,159	13.8529	11,894,629
L Large	47	68,776,531	18,172,081	26.42	26.42	18,172,081	1,471,156	388,708	12.7360	8,759,365	13.6859	9,412,716
F Street Lighting (Agencies)	462	8,311,252	5,079,845	61.12	61.12	5,079,845	17,993	10,997	47.1456	3,918,392	13.9745	1,161,454
Sub-Total	1,545	176,188,757	50,509,881	28.67	28.67	50,509,881	114,063	32,700	14.8746	26,207,289	13.7935	24,302,592
U.S. Navy	1	1,164,819,030	293,383,609	25.19	25.19	293,383,609			11.2280	130,786,080	13.9590	162,597,529
U.S. Navy	1	283,298,305	53,847,624	19.01	19.01	53,847,624			6.1830	17,516,468	12.8243	36,331,156
TOTAL	51,355	1,448,117,335	347,231,234	23.98	23.98	347,231,234	28,198	6,761	10.2411	148,302,548	13.7371	198,928,685
Twelve Months Ending August 2018												
R Residential	44,014	499,630,253	117,374,776	23.49	23.49	117,374,776	11,352	2,667	9.6252	48,090,367	13.8671	69,284,409
G Small Gen. Non Demand	4,156	82,312,998	22,669,430	27.54	27.54	22,669,430	19,808	5,455	13.6718	11,253,708	13.8687	11,415,722
J Small Gen. Demand	984	186,096,399	48,053,633	25.82	25.82	48,053,633	189,090	48,827	11.9822	22,298,504	13.8397	25,755,130
P Large General	118	309,227,043	74,391,173	24.06	24.06	74,391,173	2,613,186	628,658	10.3955	32,145,567	13.6617	42,245,606
I Independent Power Produce	2	484,592	125,795	25.96	25.96	125,795	207,682	53,912	12.2850	59,532	13.6739	66,262
H Private St. Lights	529	444,655	308,008	69.27	69.27	308,008	840	582	56.8497	252,785	12.4194	55,223
Sub-Total	49,804	1,078,195,938	262,922,815	24.39	24.39	262,922,815	21,649	5,279	10.5825	114,100,463	13.8029	148,822,353
Government Service:												
S Small Non Demand	685	14,483,303	4,155,245	28.69	28.69	4,155,245	21,151	6,068	15.0157	2,174,763	13.6742	1,980,482
K Small Demand	351	93,948,144	25,486,080	27.13	27.13	25,486,080	267,468	72,558	13.4540	12,639,775	13.6738	12,846,305
L Large	47	75,269,980	19,747,161	26.24	26.24	19,747,161	1,610,053	422,399	12.7263	9,579,111	13.5088	10,168,050
F Street Lighting (Agencies)	462	9,008,255	5,516,654	61.24	61.24	5,516,654	19,502	11,943	47.4359	4,273,150	13.8040	1,243,503
Sub-Total	1,545	192,709,682	54,905,140	28.49	28.49	54,905,140	124,758	35,545	14.8756	28,666,799	13.6155	26,238,340
U.S. Navy	51,349	1,270,905,620	317,827,955	25.01	25.01	317,827,955	24,751	40,824	11.2335	142,767,262	13.7745	175,060,693
U.S. Navy	1	310,204,625	59,173,007	19.08	19.08	59,173,007			6.2571	19,409,714	12.8184	39,763,293
TOTAL	51,350	1,581,110,246	377,000,962	23.84	23.84	377,000,962	30,791	7,342	10.2572	162,176,976	13.5869	214,823,985

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FY 2018 Versus FY 2017

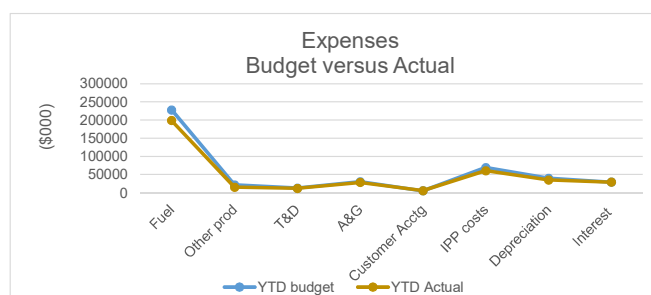
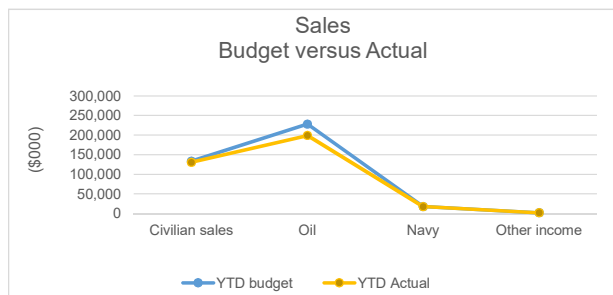
	August 2018		August 2017		Y T D 2018		Y T D 2017		MOVING TWELVE MONTHS	
Gross Generation	31		31		335		273		365	
Number of days in Period	238		261		254		257		261	
Peak demand	08/13/18		08/01/17		10/30/17		06/13/17		08/01/17	
Date	KWH	% change	KWH	% change	KWH	% change	KWH	% change	KWH	% change
Energy Account:										
Kilowatt hours GPA:										
Cabras 1 & 2	67,247,000		27,265,000		611,688,000		651,614,000		655,067,000	
Cabras No. 3	0		0		0		0		0	
Cabras No. 4	0		0		0		0		0	
MEC (ENRON) Piti 8 (IPP)	23,443,700		29,367,000		291,335,100		291,354,200		319,614,600	
MEC (ENRON) Piti 9 (IPP)	25,437,500		29,240,300		298,487,700		280,540,600		326,009,400	
TEMES Piti 7 (IPP)	8,343,197		11,922,238		31,518,845		37,638,539		40,861,674	
Tanguisson 2	0		0		0		0		0	
Tanguisson 1	0		0		0		0		0	
Diesels/CT's & Others:										
MDI 10MW	14,231		12,690		985,867		2,257,627		985,867	
NRG Solar Dandan	3,269,947		3,808,792		42,957,691		39,219,573		46,928,920	
Dededo CT #1	292,070		2,541,390		7,515,290		4,322,130		10,316,460	
Dededo CT #2	341,500		1,731,840		7,409,430		4,618,222		8,623,800	
Macheche CT	85,781		8,344,855		45,441,915		47,833,186		53,176,285	
Yigo CT (Leased)	3,416,266		4,500,189		42,426,166		34,408,654		49,393,458	
Tenjo	607,500		6,016,910		38,983,230		40,182,940		44,257,770	
Talofofo 10 MW	14,580		3,104,830		13,311,900		17,068,080		15,015,210	
Aggreko	9,125,854		23,180,682		155,847,554		166,836,749		162,457,344	
Wind Turbine*	0		9,656		311,968		380,429		318,734	
Orote	0		0		0		0		0	
Marbo	0		0		0		0		0	
	141,639,127		151,046,372		1,588,220,655		1,618,274,930		1,733,026,521	
Ratio to last year		93.77		101.91		98.14		102.44		98.50
Station use	5,899,456		4,281,028		58,010,378		60,694,484		63,210,890	
Ratio to Gross generation		4.17		2.83		3.65		3.75		3.65
Net send out	135,739,671		146,765,344		1,530,210,276		1,557,580,446		1,669,815,631	
Ratio to last year		92.49		102.98		98.24		102.51		98.57
KWH deliveries:										
Sales to Navy (@34.5kv)	24,921,140		26,608,721		283,298,305		291,679,583		310,204,625	
Ratio to last year		93.66		98.93		97.13		99.60		97.65
GPA-metered	110,818,531		120,156,623		1,246,911,971		1,265,900,863		1,359,611,006	
Ratio to last year		92.23		104.03		98.50		103.21		98.78
Power factor adj.	0		0		0		0		0	
Adjusted	110,818,531		120,156,623		1,246,911,971		1,265,900,863		1,359,611,006	
GPA KWH Accountability:										
Sales to civilian customers-accrual basis	102,426,935		112,188,210		1,164,819,028		1,185,420,521		1,270,905,619	
Ratio to last year		91.30		103.62		98.26		103.03		98.57
GPA use-KWH	332,032		275,157		3,597,756		2,892,081		3,849,912	
Unaccounted For	8,059,563		7,693,256		78,495,188		77,588,261		84,855,475	
Ratio to deliveries		7.27		6.40		6.30		6.13		6.24
Ratio to Gross Generation		5.69		5.09		4.94		4.79		4.90
Ratio to Net Send Out		5.94		5.24		5.13		4.98		5.08

GPA-317Aug18

Guam Power Authority
Fuel Consumption
FY 2018

Description	August 2018		YEAR-TO-DATE		MOVING 12 MONTHS	
	BARRELS	AMOUNT	BARRELS	AMOUNT	BARREL S	AMOUNT
FUEL FURNISHED:						
NAVY:						
Diesel	0	0	0	0	0	0
Low Sulfur	0	0	0	0	0	0
	0	0	0	0	0	0
GPA:						
RFO	79,153	\$5,704,990	1,481,912	\$ 94,122,385	1,567,365	\$ 98,959,761
Diesel	48,925	\$4,892,244	692,131	\$ 61,333,041	781,082	\$ 67,865,435
Low Sulfur	101,850	\$6,770,736	331,672	\$ 20,700,965	390,885	\$ 24,340,703
Deferred Fuel Costs	0	\$1,109,593	0	\$ 9,437,967	0	\$ 8,327,909
Fuel Adjustments	0	-\$268,285		\$ (1,015,826)	0	\$ (1,154,421)
Fuel Handling Costs	0	\$1,387,900	0	\$ 14,350,158	0	\$ 16,484,604
	229,929	\$19,597,177	2,505,715	\$ 198,928,690	2,739,332	\$ 214,823,990
IWPS:						
GPA RFO	79,153	\$5,704,990	1,481,912	\$ 94,122,385	1,567,365	\$ 98,959,761
Diesel	48,925	\$4,892,244	692,131	\$ 61,333,041	781,082	\$ 67,865,435
Low Sulfur	101,850	\$6,770,736	331,672	\$ 20,700,965	390,885	\$ 24,340,703
Deferred Fuel Costs	0	\$1,109,593	0	\$ 9,437,967	0	\$ 8,327,909
Fuel Variance	0	-\$268,285	0	\$ (1,015,826)		\$ (1,154,421)
Fuel Handling Costs	0	\$1,387,900	0	\$ 14,350,158	0	\$ 16,484,604
	229,929	\$19,597,177	2,505,715	\$ 198,928,690	2,739,332	\$ 214,823,990
AVERAGE COST/Bbl.						
GPA RFO		\$72.08		\$63.51		\$63.14
Diesel		\$99.99		\$88.61		\$86.89
Low Sulfur		\$66.48		\$62.41		\$62.27
AS BURNED						
Cabras 1 & 2						
RFO	49,024	\$ 3,533,451	818,720	\$ 52,001,111	858,708	\$ 54,264,799
Low Sulfur	66,974	\$ 4,505,778	202,977	\$ 12,753,366	235,186	\$ 14,733,218
Diesel	<u>79</u>	<u>\$ 7,036</u>	<u>2,066</u>	<u>\$ 167,842</u>	<u>2,342</u>	<u>\$ 188,018</u>
	116,077	\$ 8,046,266	1,023,762	\$ 64,922,320	1,096,236	\$ 69,186,034
Cabras 3 & 4						
RFO	0	\$ -	0	\$ -	0	\$ -
Low Sulfur	0	\$ -	0	\$ -	0	\$ -
Diesel	<u>0</u>	<u>\$ -</u>	<u>0</u>	<u>\$ -</u>	<u>0</u>	<u>\$ -</u>
	0	\$ -	0	\$ -	0	\$ -
MEC (Piti Units 8&9)						
RFO	30,129	\$ 2,171,539	663,192	\$ 42,121,273	708,656	\$ 44,694,962
Low Sulfur	34,877	\$ 2,264,958	128,696	\$ 7,947,599	155,699	\$ 9,607,485
Diesel	<u>23</u>	<u>\$ 1,657</u>	<u>61</u>	<u>\$ 3,784</u>	<u>61</u>	<u>\$ 3,784</u>
	65,029	\$ 4,438,154	791,948	\$ 50,072,657	864,417	\$ 54,306,231
Diesel & CT's - GPA:						
MDI Dsl	0	\$ -	1,561	\$ 108,767	1,561	\$ 108,767
Macheche CT	164	\$ 16,043	97,521	\$ 8,436,393	114,242	\$ 9,662,288
Yigo CT	7,077	\$ 685,444	89,015	\$ 7,933,851	102,810	\$ 8,950,494
Talofofo 10 MW	0	\$ -	22,451	\$ 1,982,147	25,299	\$ 2,189,474
Aggreko	16,752	\$ 1,728,617	286,871	\$ 25,333,673	298,960	\$ 26,211,282
Tenjo	871	\$ 87,434	66,701	\$ 6,065,071	75,984	\$ 6,762,495
TEMES (IPP)	21,835	\$ 2,152,615	80,680	\$ 7,205,263	103,165	\$ 8,853,746
GWA Generators	<u>232</u>	<u>\$ 27,259</u>	<u>990</u>	<u>\$ 116,351</u>	<u>1,316</u>	<u>\$ 154,786</u>
	48,823	\$ 4,883,551	690,005	\$ 61,161,414	778,679	\$ 67,673,633
Deferred Fuel Costs	0	\$ 1,109,593		\$ 9,437,967		\$ 8,327,909
Adjustment		\$ (268,285)		\$ (1,015,826)		\$ (1,154,421)
Fuel Handling Costs	<u>0</u>	<u>\$ 1,387,900</u>		<u>\$ 14,350,158</u>		<u>\$ 16,484,604</u>
TOTAL	229,929	\$ 19,597,177	2,505,715	\$ 198,928,690	2,739,332	\$ 214,823,990

Statement of operations Comparison-Budget versus Actual For the month and year to date ended August 31, 2018						
	Budget	Actual August-18	Variance	YTD Budget	YTD Actual	Variance
KwH Sales-Civilian	112,245	102,427	9,818	1,194,610	1,164,819	29,791
Non-fuel yield	\$ 0.105640	\$ 0.113544	\$ (0.007904)	\$ 0.111731	\$ 0.112281	\$ (0.000550)
KwH Sales-Navy	26,848	24,921	1,927	290,381	283,298	7,083
Non-fuel yield	\$ 0.061774	\$ 0.056860	\$ 0.004914	\$ 0.061774	\$ 0.061829	\$ (0.000055)
Operating revenue						
Civilian sales	12,524	11,630	894	133,475	130,787	2,688
Oil	21,369	19,597	1,772	228,143	198,928	29,215
Navy	1,659	1,417	242	17,938	17,516	422
Other income	169	214	(45)	1,861	2,023	(162)
	35,721	32,858	2,863	381,417	349,254	32,163
Bad debts expense	87	97	(11)	953	963	(10)
Total operating revenues	35,635	32,761	2,874	380,464	348,291	32,173
Operating expenses:						
Production fuel	21,369	19,603	1,766	228,143	198,934	29,208
O & M expenses:						
Other production	1,966	1,378	588	21,400	15,403	5,997
Transmission distribution	1,364	1,034	330	12,823	11,839	983
Administrative expense	2,711	2,895	(184)	30,688	28,414	2,274
Customer accounting	335	556	(221)	4,407	4,938	(531)
	6,376	5,863	513	69,318	60,594	8,724
IPP costs	1,383	1,378	5	15,972	16,138	(166)
Depreciation	3,635	3,146	489	39,984	35,321	4,663
	32,763	29,990	2,773	353,416	310,987	42,429
Operating income	2,872	2,771	101	27,048	37,304	(10,256)
Other revenue (expenses):						
Investment income	99	373	(274)	1,085	2,736	(1,651)
Interest expense	(2,654)	(2,538)	(116)	(29,203)	(29,121)	(82)
AFUDC	61	124	(63)	669	1,563	(894)
Bond issuance costs/Other expenses	135	63	71	1,481	(2,612)	4,092
Net income before capital contribution	512	792	(282)	1,080	9,871	(8,792)
Grants from the U.S. Government	-	14	(14)	-	116	(116)
Increase (decrease) in net assets	512	806	(295)	1,080	9,987	(8,908)



Guam Power Authority
Debt service coverage
August 31, 2018

	2014	2015	Restated 2016	2017	YTD 2018
Funds Available for Debt Service					
Earnings from Operations	\$ 40,895	\$ 48,758	\$ 37,981	\$ 36,522	\$ 37,304
Interest Income	333	368	1,227	(32)	850
Depreciation Expense	36,989	41,766	44,240	44,292	35,321
Balance Available for Debt Service	\$ 78,217	\$ 90,892	\$ 83,448	\$ 80,782	\$ 73,474
IPP - Capital Costs					
Principal	\$ 13,064	\$ 18,144	\$ 14,819	\$ 21,263	\$ 21,327
Interest	10,020	8,478	5,970	5,137	2,896
Total IPP Payments	\$ 23,084	\$ 26,622	\$ 20,789	\$ 26,400	\$ 24,224
Bond Debt Service					
Principal (1993 & 1999 Revenue Bond)	\$ -	\$ -	\$ -	\$ -	\$ -
Interest (1993 & 1999 Revenue Bond)	-	-	-	-	-
Principal and Interest (2010 Subordinate Bond)	15,193	9,605	-	-	-
Principal and Interest (2010 Senior TE Bond)	7,999	7,999	7,999	7,999	2,000
Principal and Interest (2012 Senior TE Bond)	17,455	17,096	17,098	17,449	15,662
Principal and Interest (2014 Senior TE Bond)	-	-	10	5,084	4,660
Principal and Interest (2017 Senior TE Bond)	-	-	-	-	5,279
Total	\$ 40,647	\$ 34,700	\$ 25,107	\$ 30,532	\$ 27,601
Debt Service Coverage (DSC) Calculation					
Existing DSC Methodology (Senior)	2.17 x	2.56 x	2.50 x	1.78 x	1.78 x
Existing DSC Methodology (Senior+Subordinate)	1.36 x	1.85 x	2.50 x	1.78 x	1.78 x
Bond Covenant DSC	1.92 x	2.62 x	3.32 x	2.65 x	2.66 x
Debt Service Coverage Requirements					
Existing Ratemaking DSC Target	1.75 x	1.75 x	1.75 x	1.75 x	1.75 x
Minimum Bond Covenant Requirement (Senior Bond)	1.30 x	1.30 x	1.30 x	1.30 x	1.30 x
Minimum Bond Covenant Requirement (Subordinate Bond)	1.20 x	1.20 x	1.20 x	1.20 x	1.20 x

Notes:

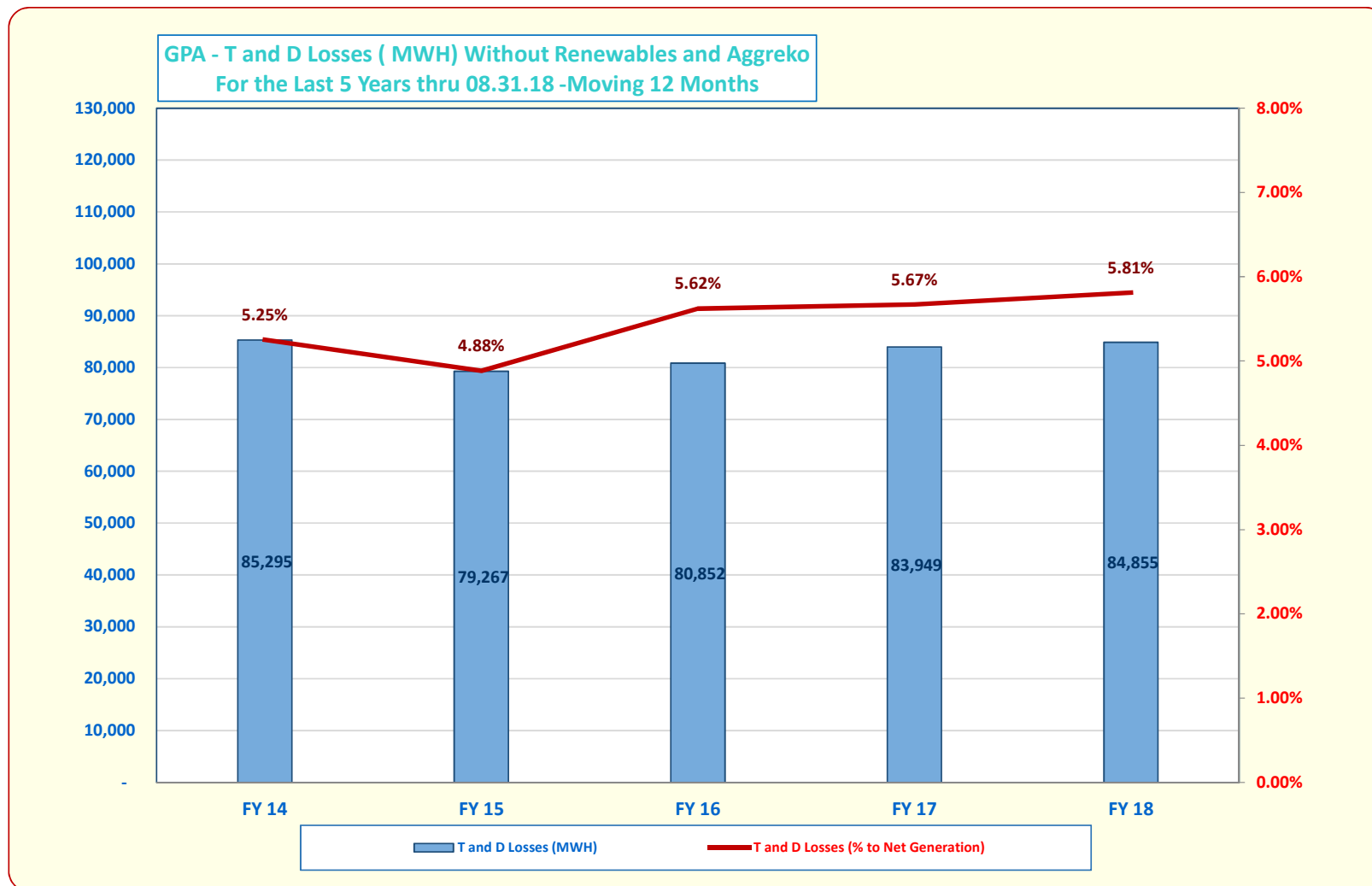
- (1) Source: Guam Power Authority, 2014 - 2017 Audited Financial Statements
- (2) Interest income is net of interest earnings in the Construction Fund and the amortization of deferred credit.
- (3) Existing DSC Methodology (Rating Agency Method):
 (Operating Earnings + Depreciation Expense - IPP Principal & Interest Payments)/
 (Senior and Subordinate Bond Principal & Interest Payments)
- (4) Bond Covenant DSC Methodology: (Operating Earnings + Depreciation Expense)/
 (Senior and Subordinate Bond Principal & Interest Payments)

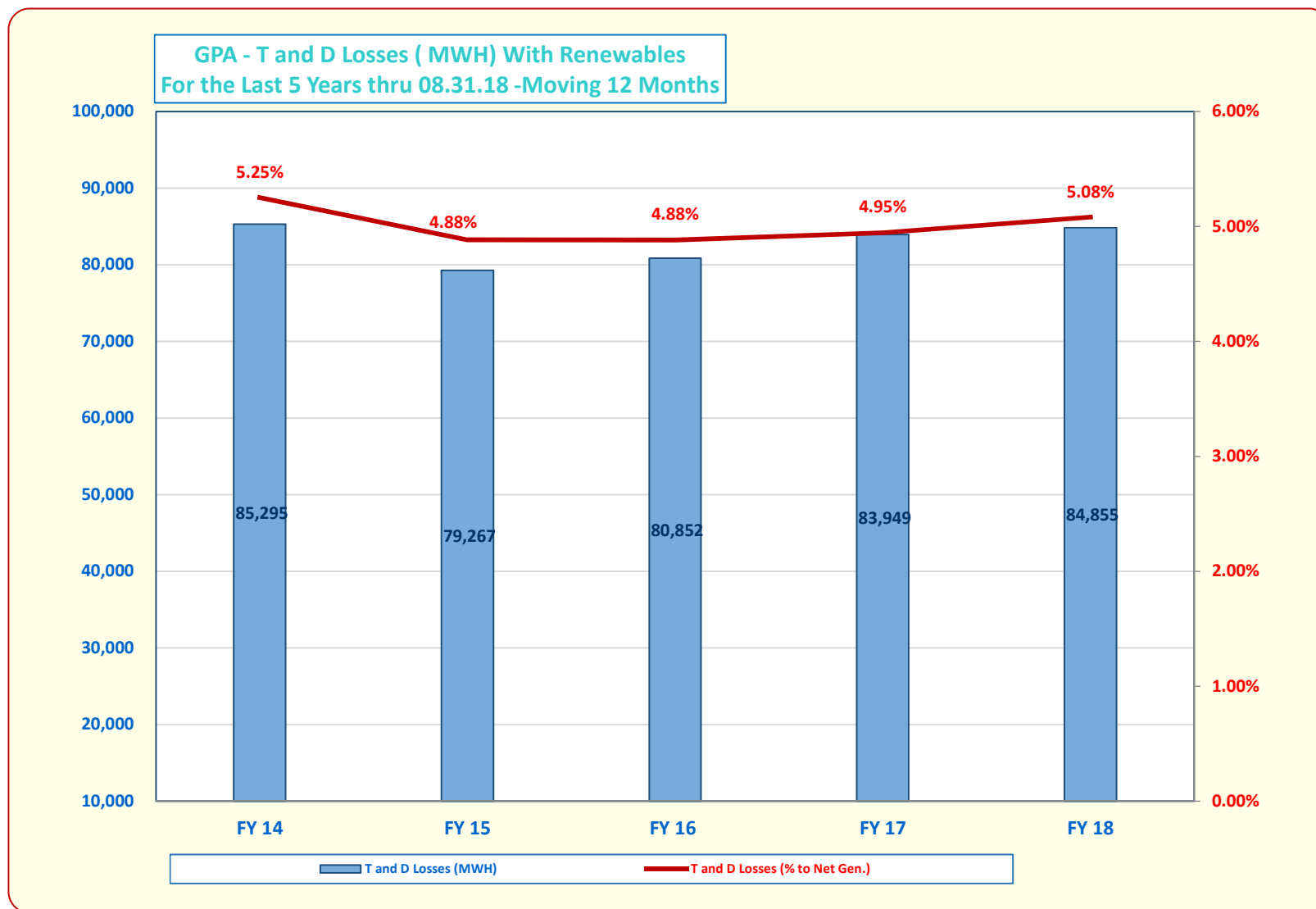
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REVENUES-ACTUAL VS PROJECTIONS								
MONTHLY - AUGUST 2018					YTD THRU 08/31/2018			
	PROJECTIONS	ACTUAL	VARIANCE	% VARIANCE	PROJECTIONS	ACTUAL	VARIANCE	% VARIANCE
KWH								
Residential	43,778,806	39,748,314	(4,030,492)	-9.21%	467,656,736	458,139,237	(9,517,499)	-2.04%
Small General-Non-Demand	7,398,993	6,737,467	(661,527)	-8.94%	79,504,551	75,290,906	(4,213,645)	-5.30%
Small General-Demand	16,061,572	15,283,605	(777,967)	-4.84%	174,764,128	170,586,991	(4,177,136)	-2.39%
Large	27,948,378	24,724,982	(3,223,396)	-11.53%	293,563,638	283,795,009	(9,768,630)	-3.33%
Independent Power Producers	34,960	30,251	(4,709)	-13.47%	367,217	450,006	82,789	22.55%
Private St. Lites	51,821	33,511	(18,309)	-35.33%	608,294	368,123	(240,171)	-39.48%
Sub-total	95,274,531	86,558,130	(8,716,401)	-9.15%	1,016,464,564	988,630,272	(27,834,292)	-2.74%
Government								
Small_Non Demand	1,187,709	1,205,730	18,021	1.52%	12,427,387	13,237,197	809,810	6.52%
Small-Demand	8,509,750	7,641,330	(868,420)	-10.20%	89,369,458	85,863,776	(3,505,682)	-3.92%
Large	6,491,373	6,179,381	(311,992)	-4.81%	67,386,714	68,776,531	1,389,817	2.06%
Public St. Lites	781,954	842,364	60,410	7.73%	8,961,891	8,311,252	(650,638)	-7.26%
Sub-total	16,970,786	15,868,805	(1,101,981)	-6.49%	178,145,450	176,188,757	(1,956,692)	-1.10%
Total-Civilian	112,245,317	102,426,935	(9,818,381)	-8.75%	1,194,610,014	1,164,819,030	(29,790,984)	-2.49%
USN	26,847,931	24,921,140	(1,926,791)	-7.18%	290,381,919	283,298,305	(7,083,614)	-2.44%
Grand Total	139,093,248	127,348,076	(11,745,172)	-8.44%	1,484,991,933	1,448,117,335	(36,874,598)	-2.48%
Non-Oil Yield								
Residential	0.096203	0.096616	0.000413	0.43%	0.096203	0.096231	0.000028	0.03%
Small General-Non-Demand	0.136364	0.137049	0.000684	0.50%	0.136364	0.136754	0.000390	0.29%
Small General-Demand	0.119423	0.120133	0.000710	0.59%	0.119423	0.119771	0.000348	0.29%
Large	0.103705	0.106342	0.002638	2.54%	0.103705	0.103882	0.000177	0.17%
Independent Power Producers	0.117983	0.113049	(0.004934)	0.00%	0.117983	0.113722	(0.004261)	0.00%
Private St. Lites	0.454278	0.627267	0.172989	38.08%	0.454278	0.628853	0.174575	38.43%
Sub-total	0.105640	0.106905	0.001265	1.20%	0.105725	0.105781	0.000056	0.05%
Government								
Small_Non Demand	0.152255	0.149825	(0.002430)	-1.60%	0.152255	0.150211	(0.002043)	-1.34%
Small-Demand	0.135082	0.135461	0.000379	0.28%	0.135082	0.134412	(0.000669)	-0.50%
Large	0.128102	0.128109	0.000007	0.01%	0.128102	0.127360	(0.000742)	-0.58%
Public St. Lites	0.380746	0.438177	0.057430	15.08%	0.380746	0.471456	0.090710	23.82%
Sub-total	0.144933	0.149759	0.004825	3.33%	0.145998	0.148746	0.002747	1.88%
Total-Civilian	0.111581	0.113544	0.001963	1.76%	0.111731	0.112280	0.000549	0.49%
USN	0.061774	0.056839	(0.004934)	-7.99%	0.061774	0.061830	0.000057	0.09%
Grand Total	0.101967	0.102448	0.000481	0.47%	0.101962	0.102411	0.000448	0.44%
Non-Oil Revenues								
Residential	4,211,670	3,840,319	(371,351)	-8.82%	44,990,163	44,087,286	(902,877)	-2.01%
Small General-Non-Demand	1,008,958	923,361	(85,597)	-8.48%	10,841,578	10,296,337	(545,241)	-5.03%
Small General-Demand	1,918,123	1,836,069	(82,054)	-4.28%	20,870,881	20,431,354	(439,527)	-2.11%
Large	2,898,376	2,629,314	(269,062)	-9.28%	30,443,910	29,481,143	(962,767)	-3.16%
Independent Power Producers	4,125	3,420	(705)	-17.09%	43,325	51,176	7,850	18.12%
Private St. Lites	23,541	21,021	(2,520)	-10.71%	276,335	231,495	(44,839)	-16.23%
Sub-total	10,064,793	9,253,504	(811,289)	-8.06%	107,466,193	104,578,791	(2,887,401)	-2.69%
Government								
Small_Non Demand	180,834	180,648	(186)	-0.10%	1,892,126	1,988,374	96,248	5.09%
Small-Demand	1,149,512	1,035,104	(114,409)	-9.95%	12,072,187	11,541,159	(531,028)	-4.40%
Large	831,558	791,633	(39,925)	-4.80%	8,632,375	8,759,365	126,989	1.47%
Public St. Lites	297,726	369,104	71,378	23.97%	3,412,206	3,918,392	506,185	14.83%
Sub-total	2,459,631	2,376,489	(83,142)	-3.38%	26,008,894	26,207,289	198,394	0.76%
Total-Civilian	12,524,424	11,629,993	(894,431)	-7.14%	133,475,087	130,786,080	(2,689,007)	-2.01%
USN	1,658,503	1,416,504	(241,999)	-14.59%	17,938,041	17,516,468	(421,573)	-2.35%
Grand Total	14,182,927	13,046,497	(1,136,429)	-8.01%	151,413,128	148,302,548	(3,110,580)	-2.05%
% of Total Revenues	39.89%	39.97%			39.89%	42.71%		
Oil Revenues								
Residential	6,725,837	6,130,859	(594,978)	-8.85%	71,847,164	64,400,170	(7,446,994)	-10.37%
Small General-Non-Demand	1,136,724	1,039,200	(97,524)	-8.58%	12,214,464	10,589,095	(1,625,369)	-13.31%
Small General-Demand	2,467,576	2,356,468	(111,107)	-4.50%	26,849,409	23,930,007	(2,919,402)	-10.87%
Large	4,293,773	3,797,734	(496,038)	-11.55%	45,100,847	39,266,971	(5,833,876)	-12.94%
Independent Power Producers	5,371	4,504	(867)	-16.14%	56,416	57,543	1,126	2.00%
Private St. Lites	7,961	5,169	(2,792)	-35.08%	93,454	51,152	(42,302)	-45.26%
Sub-total	14,637,242	13,333,936	(1,303,306)	-8.90%	156,161,753	138,294,937	(17,866,816)	-11.44%
Government								
Small_Non Demand	182,470	185,974	3,504	1.92%	1,909,248	1,833,793	(75,455)	-3.95%
Small-Demand	1,307,372	1,178,614	(128,758)	-9.85%	13,730,032	11,894,629	(1,835,403)	-13.37%
Large	997,284	941,916	(55,369)	-5.55%	10,352,774	9,412,716	(940,057)	-9.08%
Public St. Lites	120,133	129,928	9,794	8.15%	1,376,836	1,161,454	(215,382)	-15.64%
Sub-total	2,607,260	2,436,432	(170,828)	-6.55%	27,368,889	24,302,592	(3,066,297)	-11.20%
Total-Civilian	17,244,502	15,770,368	(1,474,135)	-8.55%	183,530,642	162,597,529	(20,933,113)	-11.41%
USN	4,124,708	3,826,809	(297,899)	-7.22%	44,612,032	36,331,156	(8,280,876)	-18.56%
Grand Total	21,369,211	19,597,177	(1,772,034)	-8.29%	228,142,674	198,928,685	(29,213,989)	-12.81%
% of Total Revenues	60.11%	60.03%			60.11%	57.29%		
Grand Total								
Residential	10,937,507	9,971,178	(966,329)	-8.83%	116,837,327	108,487,456	(8,349,871)	-7.15%
Small General-Non-Demand	2,145,682	1,962,561	(183,121)	-8.53%	23,056,043	20,885,432	(2,170,610)	-9.41%
Small General-Demand	4,385,699	4,192,538	(193,161)	-4.40%	47,720,290	44,361,361	(3,358,929)	-7.04%
Large	7,192,149	6,427,049	(765,100)	-10.64%	75,544,757	68,748,114	(6,796,643)	-9.00%
Independent Power Producers	9,496	7,924	(1,572)	-16.55%	99,742	108,718	8,976	9.00%
Private St. Lites	31,502	26,189	(5,313)	-16.86%	369,788	282,647	(87,141)	-23.57%
Sub-total	24,702,035	22,587,439	(2,114,596)	-8.56%	263,627,946	242,873,729	(20,754,217)	-7.87%
Government								
Small_Non Demand	363,304	366,623	3,318	0.91%	3,801,373	3,822,167	20,793	0.55%
Small-Demand	2,456,884	2,213,718	(243,167)	-9.90%	25,802,219	23,435,788	(2,366,431)	-9.17%
Large	1,828,842	1,733,549	(95,294)	-5.21%	18,985,149	18,172,081	(813,068)	-4.28%
Public St. Lites	417,860	499,032	81,172	19.43%	4,789,042	5,079,845	290,803	6.07%
Sub-total	5,066,891	4,812,921	(253,970)	-5.01%	53,377,783	50,509,881	(2,867,903)	-5.37%
Total-Civilian	29,768,926	27,400,361	(2,368,565)	-7.96%	317,005,729	293,383,609	(23,622,120)	-7.45%
USN	5,783,211	5,243,314	(539,898)	-9.34%	62,550,073	53,847,624	(8,702,449)	-13.91%
Grand Total	35,552,137	32,643,674	(2,908,463)	-8.18%	379,555,802	347,231,234	(32,324,569)	-8.52%
	1,391,900	259,969	(1,131,932)					

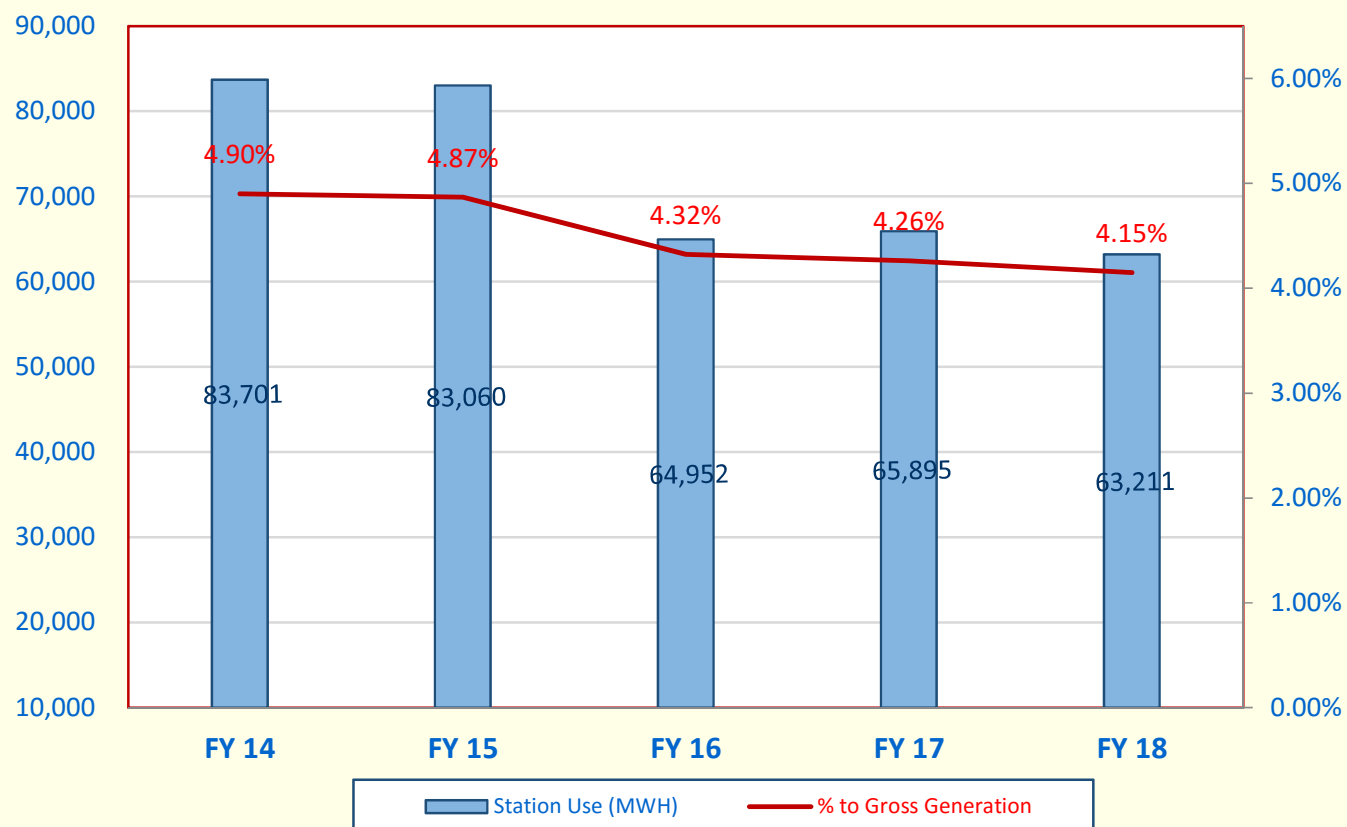
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YTD REVENUES - CURRENT YEAR VS PRIOR YEAR					MTD REVENUES - CURRENT YEAR VS PRIOR YEAR			
ACTUALS - 11 MONTHS ENDED AUGUST 31					ACTUALS - MONTH ENDED AUGUST 31			
	2018	2017	VARIANCE	% VARIANCE	2018	2017	VARIANCE	% VARIANCE
KWH								
Residential	458,139,237	464,844,586	(6,705,349)	-1.44%	39,748,314	44,434,719	(4,686,405)	-10.55%
Small General-Non-Demand	75,290,906	76,877,609	(1,586,703)	-2.06%	6,737,467	7,347,440	(609,973)	-8.30%
Small General-Demand	170,586,991	174,541,517	(3,954,526)	-2.27%	15,283,605	16,488,257	(1,204,652)	-7.31%
Large	283,795,009	289,141,197	(5,346,188)	-1.85%	24,724,982	27,038,013	(2,313,031)	-8.55%
Independent Power Producers	450,006	927,238	(477,231)	-51.47%	30,251	57,754	(27,503)	-47.62%
Private St. Lites	368,123	415,876	(47,753)	-11.48%	33,511	33,324	187	0.56%
Sub-total	988,630,272	1,006,748,022	(18,117,750)	-1.80%	86,558,130	95,399,508	(8,841,378)	-9.27%
Government								
Small_Non Demand	13,237,197	12,656,140	581,058	4.59%	1,205,730	1,243,487	(37,756)	-3.04%
Small-Demand	85,863,776	88,794,234	(2,930,457)	-3.30%	7,641,330	8,147,386	(506,056)	-6.21%
Large	68,776,531	68,404,520	372,012	0.54%	6,179,381	6,520,699	(341,318)	-5.23%
Public St. Lites	8,311,252	8,817,604	(506,352)	-5.74%	842,364	877,130	(34,766)	-3.96%
Sub-total	176,188,757	178,672,497	(2,483,740)	-1.39%	15,868,805	16,788,702	(919,897)	-5.48%
Total-Civilian	1,164,819,030	1,185,420,520	(20,601,490)	-1.74%	102,426,935	112,188,210	(9,761,274)	-8.70%
USN	283,298,305	291,679,581	(8,381,276)	-2.87%	24,921,140	26,608,721	(1,687,581)	-6.34%
Grand Total	1,448,117,335	1,477,100,101	(28,982,766)	-1.96%	127,348,076	138,796,930	(11,448,855)	-8.25%
Non-Oil Yield								
Residential	0.096231	0.096220	0.000011	0.01%	0.096616	0.095776	0.000840	0.88%
Small General-Non-Demand	0.136754	0.136449	0.000305	0.22%	0.137049	0.135178	0.001870	1.38%
Small General-Demand	0.119771	0.119206	0.000565	0.47%	0.120133	0.117745	0.002388	2.03%
Large	0.103882	0.102892	0.000990	0.96%	0.106342	0.104667	0.001676	1.60%
Independent Power Producers	0.000000	0.111830	-0.111830	-100.00%	0.113049	0.142548	-0.029499	-20.69%
Private St. Lites	0.628853	0.578954	0.049898	8.62%	0.627267	0.635294	-0.008027	-1.26%
Sub-total	0.105781	0.105407	0.000374	0.36%	0.106905	0.105344	0.001561	1.48%
Government								
Small_Non Demand	0.150211	0.151547	-0.001336	-0.88%	0.149825	0.149535	0.000290	0.19%
Small-Demand	0.134412	0.134637	-0.000225	-0.17%	0.135461	0.134173	0.001288	0.96%
Large	0.127360	0.126098	0.001262	1.00%	0.128109	0.125025	0.003083	2.47%
Public St. Lites	0.471456	0.468120	0.003336	0.71%	0.438177	0.470618	-0.032441	-6.89%
Sub-total	0.148746	0.149023	-0.000278	-0.19%	0.149759	0.149335	0.000423	0.28%
Total-Civilian	0.112280	0.111981	0.000299	0.27%	0.113544	0.111927	0.001617	1.44%
USN	0.061830	0.061815	0.000016	0.03%	0.056839	0.063411	-0.006571	-10.36%
Grand Total	0.102411	0.102075	0.000336	0.33%	0.102448	0.102626	-0.000179	-0.17%
Non-Oil Revenues								
Residential	44,087,286	44,727,423	(640,137)	-1.43%	3,840,319	4,255,769	(415,451)	-9.76%
Small General-Non-Demand	10,296,337	10,489,863	(193,526)	-1.84%	923,361	993,214	(69,853)	-7.03%
Small General-Demand	20,431,354	20,806,339	(374,985)	-1.80%	1,836,069	1,941,417	(105,347)	-5.43%
Large	29,481,143	29,550,388	(69,244)	-0.91%	2,629,314	2,829,975	(200,661)	-7.09%
Independent Power Producers	51,176	103,693	(52,517)	-50.65%	3,420	8,233	(4,813)	-58.46%
Private St. Lites	231,495	240,773	(9,278)	-3.85%	21,021	21,171	(150)	-0.71%
Sub-total	104,578,791	106,118,479	(1,539,688)	-1.45%	9,253,504	10,049,779	(796,275)	-7.92%
Government								
Small_Non Demand	1,988,374	1,918,006	70,368	3.67%	180,648	185,944	(5,296)	-2.85%
Small-Demand	11,541,159	11,954,987	(413,828)	-3.46%	1,035,104	1,093,159	(58,056)	-5.31%
Large	8,759,365	8,625,667	133,697	1.55%	791,633	815,252	(23,619)	-2.90%
Public St. Lites	3,918,392	4,127,696	(209,304)	-5.07%	369,104	412,793	(43,689)	-10.58%
Sub-total	26,207,289	26,626,356	(419,068)	-1.57%	2,376,489	2,507,149	(130,660)	-5.21%
Total-Civilian	130,786,080	132,744,836	(1,958,756)	-1.48%	11,629,993	12,556,928	(926,935)	-7.38%
USN	17,516,468	18,030,142	(513,673)	-2.85%	1,416,504	1,687,282	(270,778)	-16.05%
Grand Total	148,302,548	150,774,977	(2,472,429)	-1.64%	13,046,497	14,244,210	(1,197,713)	-8.41%
% of Total Revenues								
Oil Revenues								
Residential	64,400,170	46,987,234	17,412,936	37.06%	6,130,859	5,507,041	623,819	11.33%
Small General-Non-Demand	10,589,095	7,766,871	2,822,224	36.34%	1,039,200	909,446	129,755	14.27%
Small General-Demand	23,930,007	17,570,905	6,359,102	36.19%	2,356,468	2,022,741	333,728	16.50%
Large	39,266,971	28,784,613	10,482,358	36.42%	3,797,734	3,198,563	599,171	18.73%
Independent Power Producers	57,543	90,262	(32,719)	-36.25%	4,504	6,571	(2,067)	-31.46%
Private St. Lites	51,152	40,823	10,329	25.30%	5,169	3,923	1,246	31.76%
Sub-total	138,294,937	101,240,708	37,054,229	36.60%	13,333,936	11,648,284	1,685,651	14.47%
Government								
Small_Non Demand	1,833,793	1,261,924	571,869	45.32%	185,974	146,381	39,593	27.05%
Small-Demand	11,894,629	8,824,800	3,069,830	34.79%	1,178,614	959,094	219,520	22.89%
Large	9,412,716	6,778,618	2,634,098	38.86%	941,916	758,192	183,724	24.23%
Public St. Lites	1,161,454	874,191	287,262	32.86%	129,928	103,254	26,674	25.83%
Sub-total	24,302,592	17,739,532	6,563,060	37.00%	2,436,432	1,966,921	469,511	23.87%
Total-Civilian	162,597,529	118,980,241	43,617,289	36.66%	15,770,368	13,615,205	2,155,162	15.83%
USN	36,331,156	31,549,109	4,782,047	15.16%	3,826,809	3,332,100	494,709	14.85%
Grand Total	198,928,685	150,529,350	48,399,335	32.15%	19,597,177	16,947,305	2,649,872	15.64%
% of Total Revenues								
Grand Total								
Residential	108,487,456	91,714,657	16,772,799	18.29%	9,971,178	9,762,810	208,368	2.13%
Small General-Non-Demand	20,885,432	18,256,735	2,628,698	14.40%	1,962,561	1,902,660	59,901	3.15%
Small General-Demand	44,361,361	38,377,244	5,984,117	15.59%	4,192,538	3,964,157	228,381	5.76%
Large	68,748,114	58,535,001	10,213,113	17.45%	6,427,049	6,028,539	398,510	6.61%
Independent Power Producers	108,718	193,955	(85,237)	-43.95%	7,924	14,804	(6,880)	-46.47%
Private St. Lites	282,647	281,596	1,051	0.37%	26,189	25,094	1,096	4.37%
Sub-total	242,873,729	207,359,188	35,514,541	17.13%	22,587,439	21,698,063	889,376	4.10%
Government								
Small_Non Demand	3,822,167	3,179,930	642,237	20.20%	366,623	332,325	34,297	10.32%
Small-Demand	23,435,788	20,779,787	2,656,002	12.78%	2,213,718	2,052,253	161,464	7.87%
Large	18,172,081	15,404,285	2,767,796	17.97%	1,733,549	1,573,445	160,104	10.18%
Public St. Lites	5,079,845	5,001,887	77,958	1.56%	499,032	516,047	(17,015)	-3.30%
Sub-total	50,509,881	44,365,889	6,143,992	13.85%	4,812,921	4,474,070	338,851	7.57%
Total-Civilian	293,383,609	251,725,076	41,658,533	16.55%	27,400,361	26,172,133	1,228,227	4.69%
USN	53,847,624	49,579,251	4,268,373	8.61%	5,243,314	5,019,382	223,931	4.46%
Grand Total	347,231,234	301,304,327	45,926,906	15.24%	32,643,674	31,191,516	1,452,159	4.66%
(1,865,428)								

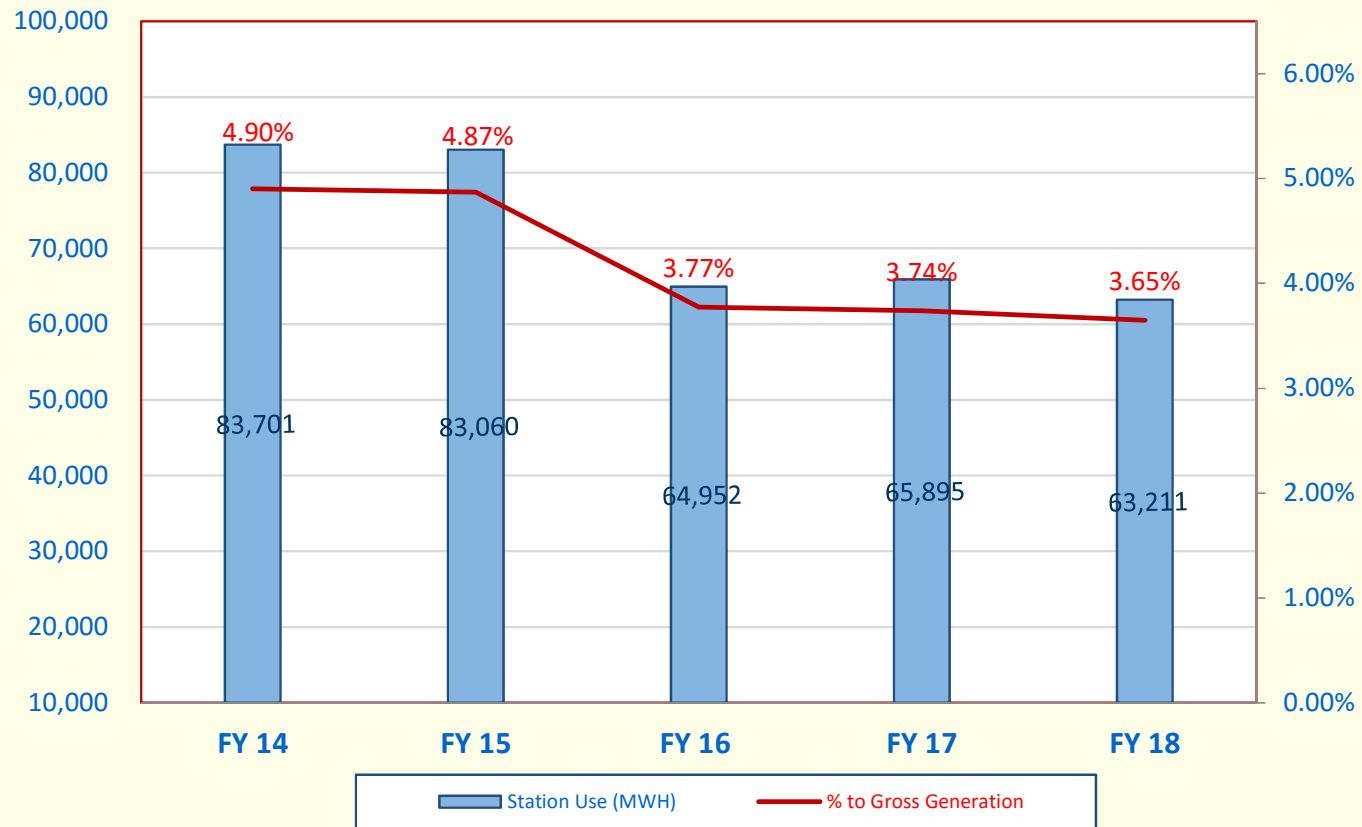


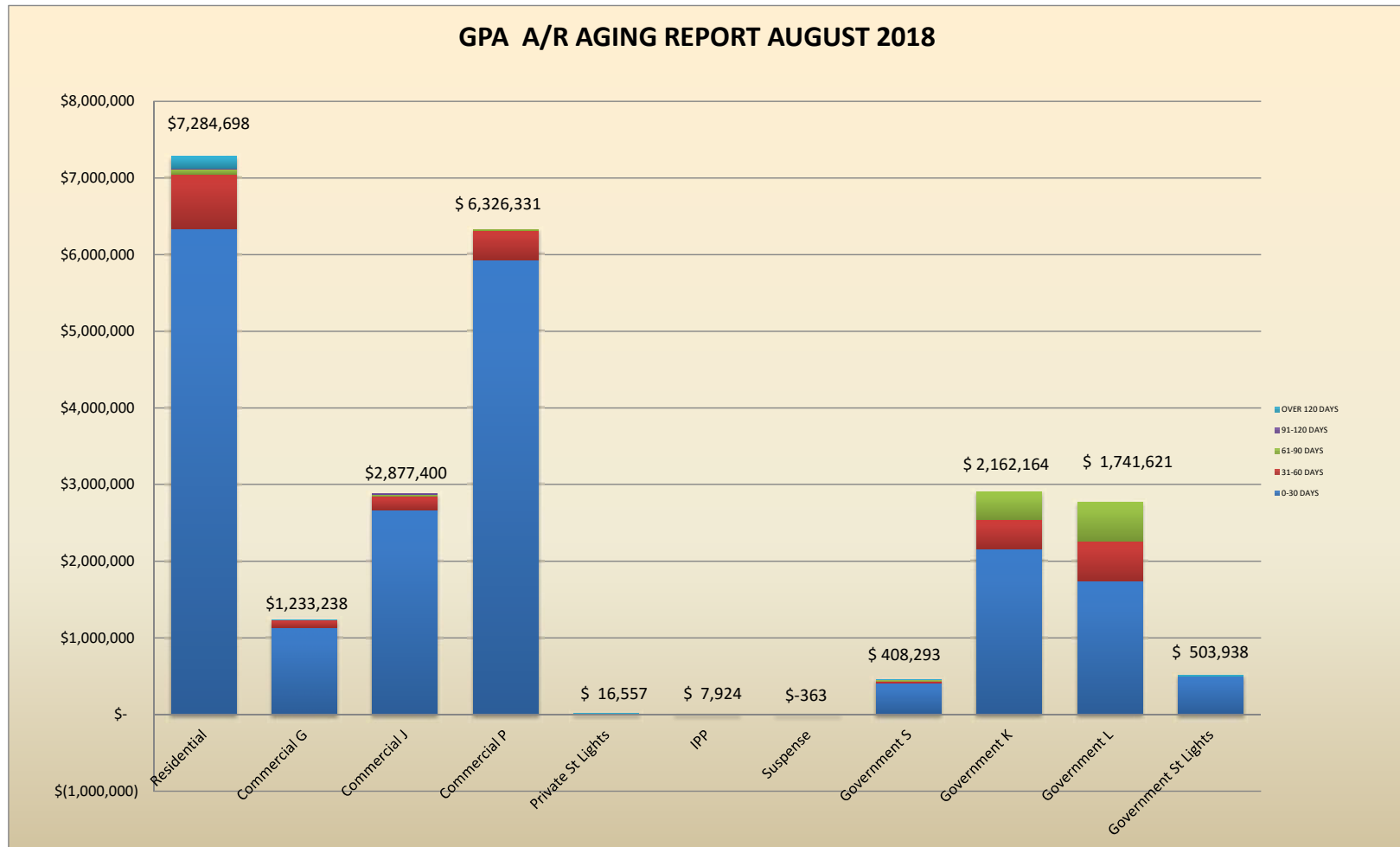


**GPA - Station Usage(MWH) Without Renewables and Aggreko
For the Last 5 Years Thru 08.31.18-Moving 12 Months**



**GPA - Station Usage(MWH) With Renewables
For the Last 5 Years Thru 08.31.18 -Moving 12 Months**





CCU Regular Meeting October 19, 2018 - GPA

GUAM POWER AUTHORITY
GOVERNMENT ACCOUNTS RECEIVABLE

BILLING UP TO 09/30/2018 and Payment Applied as of 10/15/2018

	Current (09/18 Billing due 10/31/18)
	30 days Arrears (09/18 due 09/15/18)
	60 days and over Arrears (08/18 billing due 08/15/18)

CC&B ACCT NUMBER	DEPARTMENT	BALANCE 8/31/2018	CANCELLED/ SPEC CHARGE 9/30/2018	BILLING 9/30/2018	PAYMENT 09/30/2018	BALANCE 9/30/2018	
Line Agencies							
0237100000	Dept. of Corrections	\$ 78,683.68	\$ -	\$ 65,932.58	\$ (78,683.68)	\$ 65,932.58	
0437100000	Dept. of Parks & Rec.	\$ 26,053.08	\$ -	\$ 21,092.02	\$ (26,053.08)	\$ 21,092.02	
0537100000	Guam Fire Department	\$ 16,296.41	\$ (2,141.27)	\$ 15,764.57	\$ (16,296.41)	\$ 13,623.30	
6995000000	DOA Supply Mgmt (NET METERED)	\$ 1,707.08	\$ -	\$ 1,230.38	\$ (1,707.08)	\$ 1,230.38	
7895000000	Dept. of Administration	\$ 5,073.70	\$ -	\$ 4,703.25	\$ (5,073.70)	\$ 4,703.25	
1337100000	Nieves Flores Library	\$ 10,094.44	\$ -	\$ 7,752.77	\$ (10,094.44)	\$ 7,752.77	
2206200000	General Services Agency	\$ 272.57	\$ -	\$ 259.84	\$ (272.57)	\$ 259.84	
2237100000	DOA-Data Processing	\$ 8,844.61	\$ -	\$ 7,589.44	\$ (8,844.61)	\$ 7,589.44	
2337100000	Dept. of PH&SS	\$ 75,380.58	\$ -	\$ 56,928.00	\$ (75,380.58)	\$ 56,928.00	
3237100000	Dept. of Education	\$ 2,888,003.19	\$ 21,659.73	\$ 969,440.32	\$ (1,800,164.18)	\$ 2,078,939.06	1
3337100000	Guam Police Department	\$ 53,777.30	\$ -	\$ 42,871.12	\$ (53,777.30)	\$ 42,871.12	
3569100000	Dept. of Youth Affairs (Federal)	\$ 1,007.33	\$ -	\$ 738.98	\$ (1,007.33)	\$ 738.98	
4437100000	Dept. of Youth Affairs* (Local)	\$ 10,135.30	\$ -	\$ 8,392.76	\$ (10,135.30)	\$ 8,392.76	
4737100000	Guam Environmental Protect	\$ 6,980.55	\$ -	\$ 5,988.03	\$ (6,980.55)	\$ 5,988.03	
5437100000	Mental Health/Subst.	\$ 43,112.07	\$ -	\$ 37,548.48	\$ (43,112.07)	\$ 37,548.48	
7200300000	Veteran Affairs	\$ 1,085.29	\$ -	\$ 810.66	\$ (1,085.29)	\$ 810.66	
7437100000	Civil Defense (Military Affairs)	\$ 12,321.77	\$ -	\$ 11,520.80	\$ (12,321.77)	\$ 11,520.80	
7463300000	Pacific Energy Resource Center	\$ 713.50	\$ -	\$ 644.77	\$ (713.50)	\$ 644.77	
8137100000	Dept. of Agriculture	\$ 20,105.86	\$ -	\$ 8,434.77	\$ (24,124.00)	\$ 4,416.63	
8337100000	DPW-FAC Adm Account	\$ 26,115.16	\$ -	\$ 23,384.07	\$ (26,115.16)	\$ 23,384.07	
8437100000	Guam Visitors Bureau	\$ 4,989.99	\$ -	\$ 3,888.32	\$ (4,989.99)	\$ 3,888.32	
8446300000	Yona Senior Citizen Center	\$ 890.78	\$ -	\$ 784.03	\$ (890.78)	\$ 784.03	
9437100000	Dept of Chamorro Affairs/Chamorro Village	\$ 4,219.38	\$ -	\$ 3,579.34	\$ (4,219.38)	\$ 3,579.34	
5247210000	Mayors Council	\$ 2,179.04	\$ -	\$ 1,541.33	\$ (2,179.04)	\$ 1,541.33	
6293410000	Office of the Governor	\$ 23,817.87	\$ -	\$ 21,596.42	\$ (23,817.87)	\$ 21,596.42	
855858369	Dept of Chamorro Affairs (Guam Museum)	\$ 22,630.45	\$ -	\$ 18,810.73	\$ (22,630.45)	\$ 18,810.73	
	Sub Total	\$ 3,344,490.98	\$ 19,518.46	\$ 1,341,227.78	\$ (2,260,670.11)	\$ 2,444,567.11	
MAYORS							
0637100000	Santa Rita Mayor	\$ 3,643.41	\$ -	\$ 2,833.51	\$ (3,643.41)	\$ 2,833.51	
0737100000	Ordor/Chalan Pago Mayor	\$ 1,150.50	\$ -	\$ 928.20	\$ (1,150.50)	\$ 928.20	
1537100000	Hagatna Mayor	\$ 1,576.90	\$ -	\$ 1,170.36	\$ (1,576.90)	\$ 1,170.36	
1637100000	Piti Mayor	\$ 1,156.18	\$ -	\$ 929.43	\$ (1,156.18)	\$ 929.43	
1737100000	Mongmong/Toto/Maite Mayor	\$ 1,374.38	\$ -	\$ 1,231.79	\$ (1,374.38)	\$ 1,231.79	
2637100000	Asan/Maina/Adelpu Mayor	\$ 962.86	\$ (81.39)	\$ 749.34	\$ (962.86)	\$ 667.95	
2737100000	Sinajana Mayor	\$ 4,565.33	\$ -	\$ 3,683.38	\$ (4,565.33)	\$ 3,683.38	
3637100000	Dededo Mayor	\$ 6,400.78	\$ -	\$ 6,749.44	\$ (6,400.78)	\$ 6,749.44	
4637100000	Yigo Mayor	\$ 3,539.52	\$ -	\$ 2,954.63	\$ (3,539.52)	\$ 2,954.63	
5637100000	Umatac Mayor	\$ 1,367.42	\$ -	\$ 1,032.21	\$ (1,367.42)	\$ 1,032.21	
6537100000	Agana Hts. Mayor	\$ 4,787.48	\$ -	\$ 4,197.42	\$ (4,787.48)	\$ 4,197.42	
6637100000	Merizo Mayor	\$ 1,056.35	\$ -	\$ 829.68	\$ (1,056.35)	\$ 829.68	
6737100000	Bamagada Mayors Office	\$ 2,058.75	\$ 25.00	\$ 1,534.53	\$ (2,058.75)	\$ 1,559.53	
7537100000	Agat Mayor	\$ 2,486.99	\$ -	\$ 2,071.35	\$ (2,486.99)	\$ 2,071.35	
7637100000	Inarajan Mayor	\$ 1,844.90	\$ -	\$ 1,436.98	\$ (1,844.90)	\$ 1,436.98	
8537100000	Tamuning Mayor	\$ 5,812.12	\$ -	\$ 4,698.98	\$ (5,812.12)	\$ 4,698.98	
8637100000	Talofoto Mayor	\$ 2,433.83	\$ -	\$ 2,248.03	\$ (2,433.83)	\$ 2,248.03	
9537100000	Mangilao Mayor	\$ 4,492.74	\$ -	\$ 4,117.29	\$ (4,492.74)	\$ 4,117.29	
9637100000	Yona Mayor	\$ 794.72	\$ -	\$ 758.27	\$ (794.72)	\$ 758.27	
	Sub Total	\$ 51,505.16	\$ (56.39)	\$ 44,154.82	\$ (51,505.16)	\$ 44,098.43	
DPW ACCOUNTS							
4337100000	DPW-Village St. Lights	\$ 393,931.34	\$ 8,993.49	\$ 362,789.24	\$ (393,931.34)	\$ 371,782.73	
5337100000	DPW- Primary St. Lights	\$ 85,176.47	\$ (607.52)	\$ 84,958.50	\$ (85,176.47)	\$ 84,350.98	
6337100000	DPW-Sec/Colt St. Lights	\$ 27,048.36	\$ -	\$ 25,608.31	\$ (27,048.36)	\$ 25,608.31	
7337100000	DPW-Signal Lights	\$ 10,873.14	\$ -	\$ 9,665.24	\$ (10,873.14)	\$ 9,665.24	
	Sub Total	\$ 517,029.31	\$ 8,385.97	\$ 483,021.29	\$ (517,029.31)	\$ 491,407.26	
(B) AUTONOMOUS/PUBLIC CORP							
1437100000	Retirement Fund	\$ 6,033.79	\$ -	\$ 5,287.31	\$ (6,033.79)	\$ 5,287.31	
1915500000	Guam Housing Corp Rental Division	\$ 1,942.42	\$ 166.83	\$ 1,264.82	\$ (1,374.28)	\$ 1,999.79	
2437100000	University of Guam	\$ 184,976.74	\$ (1,234.21)	\$ 168,649.34	\$ (352,391.87)	\$ -	
4237100000	Guam Airport Authority	\$ 530,179.93	\$ (97.23)	\$ 492,395.40	\$ (530,179.93)	\$ 492,298.17	
5357510000	University of Guam (NET METERED)	\$ 79,947.98	\$ -	\$ 67,976.35	\$ (147,924.33)	\$ -	
6237100000	G H U R A	\$ 13,341.96	\$ (188.96)	\$ 22,926.04	\$ (25,239.81)	\$ 10,839.23	
6437100000	Guam Community College	\$ 49,153.79	\$ -	\$ 46,808.24	\$ (49,153.79)	\$ 46,808.24	
7237100000	Guam Memorial Hospital	\$ 33,578.21	\$ 251.83	\$ 29,815.70	\$ (33,628.21)	\$ 30,017.53	
8426836906	Guam Memorial Hospital (NET METERED)	\$ 148,667.00	\$ 1,115.00	\$ 131,859.96	\$ (148,667.00)	\$ 132,974.96	
9137100000	Port Authority of Guam	\$ 96,817.83	\$ -	\$ 86,748.07	\$ (96,817.83)	\$ 86,748.07	
9157510000	Guam Community College (NET METERED)	\$ 38,932.40	\$ -	\$ 34,843.39	\$ (38,932.40)	\$ 34,843.39	
9173210000	Guam Solid Waste Authority	\$ 6,738.72	\$ -	\$ 5,938.65	\$ (6,738.72)	\$ 5,938.65	
9337100000	Guam Waterworks Authority	\$ 1,305,654.40	\$ 3,974.09	\$ 1,137,558.14	\$ (1,306,080.54)	\$ 1,141,106.09	
8237100000	GPA	\$ -	\$ -	\$ -	\$ -	\$ -	
	Sub Total	\$ 2,495,965.17	\$ 3,987.35	\$ 2,232,071.41	\$ (2,743,162.50)	\$ 1,988,861.43	
(C) OTHERS							
0337100000	Guam Legislature	\$ 140.31	\$ -	\$ 158.67	\$ (140.31)	\$ 158.67	
9503154359	Guam Legislature (NET METER)	\$ 7,332.85	\$ -	\$ 5,787.17	\$ (7,332.85)	\$ 5,787.17	
1237100000	Superior Court of Guam	\$ 70,587.60	\$ -	\$ 64,020.12	\$ (70,587.60)	\$ 64,020.12	
2537100000	Agana (Guam) Post Office	\$ 5,572.25	\$ -	\$ 5,164.28	\$ (5,572.25)	\$ 5,164.28	
2570200000	Customs & Quarantine Agency	\$ 976.13	\$ -	\$ 896.40	\$ (976.13)	\$ 896.40	
3537100000	U.S. Post Office	\$ 41,008.35	\$ -	\$ 36,203.96	\$ (41,008.35)	\$ 36,203.96	
5537100000	Dept. of Military Affairs	\$ 75,668.74	\$ -	\$ 68,345.32	\$ (75,668.74)	\$ 68,345.32	
3209463043	Dept. of Military Affairs	\$ 17,859.37	\$ -	\$ 15,958.58	\$ (17,859.37)	\$ 15,958.58	
5737100000	KGTF	\$ 6,722.11	\$ -	\$ 5,972.97	\$ (6,722.11)	\$ 5,972.97	
7281000000	Tamuning Post Office	\$ 5,248.23	\$ -	\$ 4,738.91	\$ (5,248.23)	\$ 4,738.91	
	Sub Total	\$ 231,115.94	\$ -	\$ 207,246.38	\$ (231,115.94)	\$ 207,246.38	
GRAND TOTAL		\$ 6,640,106.56	\$ 31,835.39	\$ 4,307,721.68	\$ (5,803,483.02)	\$ 5,176,180.61	



GUAM POWER AUTHORITY
ATURIDĀT ILEKTRESEDĀT GUAHAN
P.O.BOX 2977 • AGANA, GUAM U.S.A. 96932-2977

Issues for Decision

Resolution No. 2018-23:

Relative to Approving GPA's Recommendation for DSM Program funding under LEAC Recommendation

What is the project's objective? Is it necessary and urgent?

This resolution seeks approval to fund the DSM Program under LEAC for the following reasons:

- The DSM Program is experiencing exponential growth. Although perhaps not truly unexpected, this DSM Program exponential growth is volatile: subject or characterized by rapid change. The LEAC decoupling from base rates addresses expenses like fuel that have a volatile nature.
- DSM rebate expenses may likely double every year and would soon place pressure on GPA base rate funding affecting GPA Debt Service Coverage requirements. At that point, GPA would have to curtail the growth of the DSM rebate program. This curtailment would not comport with CCU and PUC policy and their mutual desire to reduce customer energy consumption, demand, and cost.
- Like renewable energy, a major rationale behind DSM is predicated on the avoidance of fuel costs and the need for capacity additions. Furthermore, unlike renewable energy without energy storage, DSM provides reductions to future power system capacity expansion costs.
- The PUC has allowed GPA to recover its Utility Scale Renewable Energy Program costs under the LEAC; and therefore, may use this precedent to treat DSM Program Expenses in a similar fashion.

Where is the location?

Territory of Guam

How much will it cost?

PUC approval of GPA's recommendation results in DSM expenses being revenue neutral.

When will it be completed?

Upon approval of the Guam Public Utilities Commission

What is its funding source?

The Levelized Energy Adjustment Clause



CONSOLIDATED COMMISSION ON UTILITIES
Guam Power Authority | Guam Waterworks Authority
P.O. Box 2977 Hagatna, Guam 96932 | (671)649-3002 | guamccu.org

RESOLUTION NO. 2018-23

**AUTHORIZING MANAGEMENT OF THE GUAM POWER AUTHORITY (GPA) TO FILE RECOMMENDATIONS
FOR PLACING THE DEMAND-SIDE MANAGEMENT (DSM) PROGRAM EXPENSES UNDER LEAC**

WHEREAS, the Guam Public Utilities Commission (PUC) established GPA Docket 13-14 in August 2013; and

WHEREAS, the PUC ordered (July 31, 2014) the ALJ to conduct proceedings and work collaboratively with GPA to develop the GPA Demand-Side Management (DSM) program; and

WHEREAS, on February 26, 2015, the PUC approved GPA's plan to implement certain DSM programs, including Central AC, Ductless AC, Washer, and Dryer; and

WHEREAS, in its Order dated October 27, 2015, the PUC authorized GPA to utilize the sum of \$1,806,014 from the Working Capital Fund ["WCF"] to pay for certain expenses of GPA's Demand Side Management (DSM) Program; and

WHEREAS, PUC ordered the funds withdrawn from the WCF be placed in a separate GPA fund known as the "Energy Sense" Fund that would only be used to pay for approved DSM program expenses; and

WHEREAS, furthermore the Guam Public Utilities Commission (PUC) ordered (May 25, 2017): "GPA and the ALJ are instructed to continue to discuss proposals for the long-term funding of DSM Programs and to develop a plan for such funding."; and

WHEREAS, in June of 2015, GPA Consultant Leidos submitted its Final Report to GPA concerning GPA's Energy Sense Program Plan; Leidos proposed an additional 18 programs that GPA could consider as DSM initiatives; and

31 **WHEREAS**, the Parties, GPA and the ALJ, have determined that it was perhaps too ambitious to
32 adopt all 18 DSM proposals at the present time, particularly as a long-term funding source has not yet
33 been identified; and

34
35 **WHEREAS**, however, both GPA and the ALJ have agreed upon ten new DSM initiatives to be
36 implemented; and

37
38 **WHEREAS**, under GPA Docket 18-11, the PUC approved GPA's request balance of the Bond
39 Refinancing Savings through 2021 to fund the GPA Demand Side Management (DSM) rebate program in
40 the amount of \$1,139,189 (\$379,729.67 annually); and

41
42 **WHEREAS**, **Exhibit A** showed DSM Program expenses since FY 2016 is showing experiencing
43 exponential growth year over year; and

44
45 **WHEREAS**, DSM Program forecasted growth places pressure on GPA base rate funding and
46 would impact GPA Debt Service Coverage requirements; and

47
48 **WHEREAS**, GPA has budgeted \$400,000 for DSM Program expenses for FY 2019 and may likely
49 have to cap DSM expenses to this amount putting a halt to the program; and

50
51 **WHEREAS**, DSM Program exponential growth is volatile: subject or characterized by rapid
52 change.

53
54 **WHEREAS**, the Levelized Energy Adjustment Clause (LEAC) decouples expenses like fuel that
55 have a volatile nature from base rates; and

56
57 **WHEREAS**, similar to renewable energy, a major rationale behind the DSM Program is
58 predicated on the avoidance of fuel costs; and

59
60 **WHEREAS**, unlike renewable energy without energy storage, the DSM Program provides
61 reductions to future power system capacity expansion; and

63 **WHEREAS**, the PUC has allowed GPA to recover its Utility Scale Renewable Energy Program costs
64 under the LEAC; and

65

66 **WHEREAS**, to date, annual energy savings from the program is approximately 3,227 MWh and
67 \$514,470 in annual fuel expenses; and

68

69 **WHEREAS**, to date, demand savings from the program is approximately 0.49 MW and \$884,110
70 in avoided generation capacity costs; and

71

72 **NOW, THEREFORE, BE IT RESOLVED**, by the CONSOLIDATED COMMISSION ON UTILITIES subject
73 to the review and approval of the Public Utilities Commission as follows:

74

75 1. The General Manager is authorized to file its DSM Program Funding Recommendations
76 which places DSM funding under LEAC to the Guam Public Utilities Commission.

77 2. The General Manager is authorized to conduct an information campaign supporting
78 these recommendations.

79

80 **RESOLVED**, that the Chairman of the Commission certifies and the Secretary of the Commission
81 attests the adoption of this Resolution.

82

83 **DULY and REGULARY ADOPTED this 19th day of October 2018.**

84

Certified by:

Attested by:

JOSEPH T. DUENAS
CHAIRMAN

J. GEORGE BAMBA
SECRETARY

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SECRETARY’S CERTIFICATE

I, J. George Bamba, Secretary for the Consolidated Commission on Utilities (CCU), as evidenced by my signature above do certify as follows: The foregoing is a full, true, and accurate copy of the resolution duly adopted at a regular meeting of the members of Guam Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:

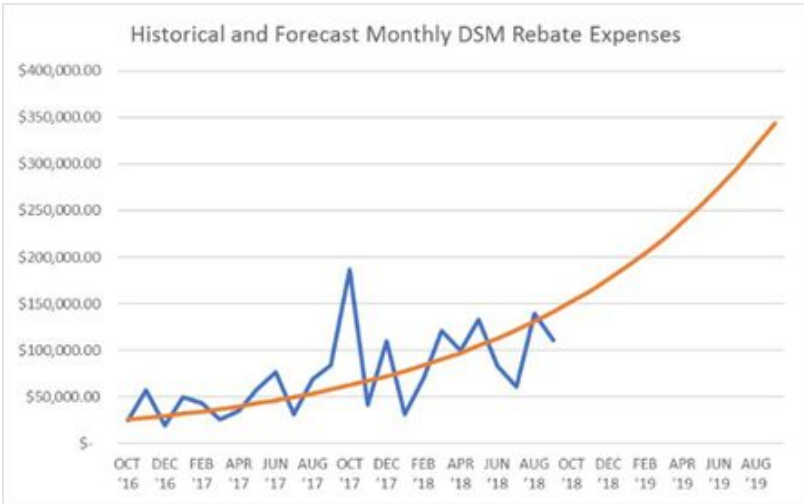
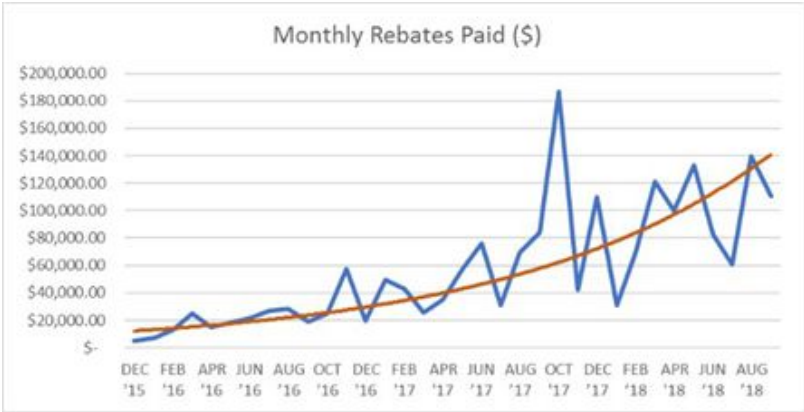
Ayes: _____

Nays: _____

Absent: _____

Abstain: _____

107 **Exhibit A: DSM Historical and Forecast Expenses**



- DSM Expenses is growing exponentially
- Growth Rate will make it very difficult to fund out of base rates
- GPA may have to cap program

Figure A-1. Historical and Forecast Monthly DSM Rebate Expenses

Table A-1. Historical and Forecast DSM Rebate Expenses

Annual DSM Program Rebate Expenses		
Fiscal Year	Historical	Forecast
2016	\$ 160,900.00	\$ 173,585.01
2017	\$ 572,900.00	\$ 476,419.20
2018	\$ 1,187,325.00	\$ 1,162,000.23
2019	\$ -	\$ 2,834,152.23
2020	\$ -	\$ 6,912,579.42

Table A-2. Historical DSM Annual Expenses

Description	FY16	FY17	FY18 as of 9/30/2018*	Total to Date
Regular/OT Pay	\$ 11,348.80	\$ 22,256.00	\$ 20,469.95	\$ 54,074.75
Other Contractual	\$ 28,278.50	\$ 85,550.05	\$ 99,622.25	\$ 213,450.80
Paid Rebates-Split AC	\$ 154,700.00	\$ 557,275.00	\$ 1,141,925.00	\$ 1,853,900.00
Paid Rebates- Central AC	\$ 3,400.00	\$ 8,200.00	\$ 4,400.00	\$ 16,000.00
Paid Rebates-Washer/Dryer	\$ 2,800.00	\$ 7,425.00	\$ 41,000.00	\$ 51,225.00
Total Expenses	\$200,527.30	\$680,706.05	\$1,307,417.20	\$2,188,650.55
Bank Interest (+)	\$ 1,676.42	\$ 1,722.74	\$ 1,222.29	\$ 4,621.45
Bank Fees	\$ 155.00	\$ 1,032.06	\$ 1,085.08	\$ 2,272.14
Ending Balance				\$ 758,901.76

Table A-3. DSM Savings

Prior Billing History Class	Number of Customers	Average Aggregate Daily MWH Savings	Average Aggregate Annual MWH Savings	Average Aggregate Daily Demand Savings (MW)	Fuel Savings (\$/Year)	Demand Savings (\$)
At Least One-Year	2,429	(3.82)	(1,395.75)	(0.21)	\$ 222,519.28	\$ 382,396.41
At Least 6-Months but Less than 1-Year	606	(2.54)	(928.04)	(0.14)	\$ 147,953.77	\$ 254,256.59
At Least 1-Quarter but Less than 6-Months	118	(0.69)	(250.93)	(0.04)	\$ 40,005.52	\$ 68,748.95
Less than 1-Quarter	320	(1.79)	(652.29)	(0.10)	\$ 103,991.66	\$ 178,708.28
Total	3,473	(8.84)	(3,227.00)	(0.49)	\$ 514,470.23	\$ 884,110.23

Annual DSM Program Expenses

Fiscal Year	Historical	Forecast
2016	\$ 178,595.00	\$ 173,585.01
2017	\$ 573,825.00	\$ 476,419.20
2018	\$ 1,187,325.00	\$ 1,162,000.23
2019	\$ -	\$ 2,834,152.23
2020	\$ -	\$ 6,912,579.42

Prior Billing History Class	Number of Customers	Average Aggregate Daily MWH Savings	Average Aggregate Annual MWH Savings	Average Aggregate Daily Demand Savings (MW)	Fuel Savings (\$/Year)	Demand Savings (\$)
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Total	3,473	(8.84)	(3,227.00)	(0.49)	\$ 514,470.23	\$ 884,110.23

Prior Billing History Class	Number of Customers	Energy Sense Equipment Consumption (MWH/day)	Standard Market Equipment Efficiency (MWH/day)	Daily MWH Savings	Energy Sense Equipment Peak Demand	Standard Equipment Peak Demand	Demand Savings (MW)
At Least 6-Months but Less than 1-Year	606	7.08	9.62	(2.54)	0.39	0.53	(0.14)
At Least 1-Quarter but Less than 6-Months	118	1.59	2.28	(0.69)	0.09	0.13	(0.04)
Less than 1-Quarter	320	4.43	6.21	(1.79)	0.25	0.35	(0.10)
Total	1,044	13.10	18.11	(5.02)	0.73	1.01	(0.28)

Load_Factor	0.75
On Peak Fuel Cost (\$/MWH) @ Piti 7	\$ 180.56
Off Peak Fuel Cost (\$/MWH)	\$ 155.20
New Generation Cost (\$/MW)	\$ 1,800,000.00

Oracle JD Edwards Enterprise One

- 1997- GPA purchased JD Edwards World
 - The purchase included the license to upgrade to One World product which was near completion during the purchase
 - \$6.4 million spent for the purchase
 - Modules included were:

GPA

- General Ledger
- Accounts Payable
- Human Resource
- Payroll
- Inventory
- Procurement
- Report Writing

GWA

- General Ledger
- Accounts Payable
- Human Resource
- Payroll
- Inventory
- Procurement
- Report Writing



Oracle JD Edwards Enterprise One

- 2003 – JD Edwards was purchased by PeopleSoft
- 2005 – Oracle purchased PeopleSoft
 - Oracle developed Enterprise One (E1) which was similar to One World
 - Oracle agreed to recognize GPA license right to E1 software package
- 2011 – CCU Resolution 2011-57
 - Authorized GPA to issue a RFP for software implementation Service for E1 and CC&B
 - Authorized GPA to purchase additional licensing for E1 modules not currently covered under the licenses owned by GPA and GWA



Oracle JD Edwards Enterprise One - Continued

- 2011 – PUC Docket No. 11-17
 - PUC approved GPA's request to proceed with the procurement of Software Implementation Services.
- 2012 – GPA started implementing Smart Grid
- 2014 – Smart Grid project completed
- 2014 – CC&B implementation started
- 2015 – CC&B completed



Oracle JD Edwards Enterprise One - Continued

- Additional licenses required from Oracle
 - Cloud Licenses
 - Disaster Recovery Licenses

Oracle JD Edwards Enterprise One - Continued

Graphical Based Navigation GUI JD Edwards EnterpriseOne Tools 9.1

The collage displays various components of the Oracle JD Edwards EnterpriseOne 9.1 GUI:

- Bank Time Member Status:** A window showing a list of members with columns for Name, Address, and Status.
- Incident Scoreboard:** A dashboard showing a pie chart of incident counts by category (Corporate Environment, Capital Charter Flight Services, Credit to Credit Logistics, Revenue Connectivity, Financial Distribution Comp., Project Management Comp.) and a table of incident counts.
- amazon:** A product page for a Santa Cruz bicycle, showing the product image, name, and price.
- Financial Planning Forecasting and Budgeting:** A workflow diagram showing the process from 'Employees List' to 'Out for Service' to 'Items on Backorder' to 'Generate Forecast Results' to 'Apply Forecast to Budget' to 'Budget vs. Actual Reporting'.
- Items on Backorder:** A button in the workflow diagram, highlighted with a red box, with a red circle containing the number '153' next to it.

9.x

ORACLE
JD EDWARDS ENTERPRISEONE



Oracle JD Edwards Enterprise One - Continued



Automation Opportunities By Business Unit / LOB

Finance	Project Management	Asset Management	Shop Floor / Manufacturing	Inventory / Warehouse	Procurement
<ul style="list-style-type: none"> Accounts Payable Automation (P) Travel and Expense Management (M) Supplier Self Service (M) Customer Self Service (M) Auto Reconciliation (M) Inter Company (M) Auto Bank Statements (M) Credit Card Processing (P) Environmental Reporting (M) 	<ul style="list-style-type: none"> Portals (Billing and Claims) (P) Mobility for Data Capture (M) Dashboards (M) Advanced Job Forecasting (M) 	<ul style="list-style-type: none"> Live Operational Data (Readings, Sensors etc) (O) Spatial / Location (O) Mobility for Data Capture (P) Health & Safety (M) 	<ul style="list-style-type: none"> RFID (P) Machine to Machine (P) Data Capture / RF scanning (P) 	<ul style="list-style-type: none"> RFID (P) Machine to Machine (O) Data Capture / RF scanning (P) Replenishment (O) Outbound Inventory Management (M) 	<ul style="list-style-type: none"> eSourcing (OC) Supplier Self Service (M) Supplier Onboarding (OC) Mobile Approvals / Receipting / Entry (P) Contract Management (OC)
			Grower and Blend Management <ul style="list-style-type: none"> Tank Farm Automation (O) Vineyard Survey / Pest Disease Mobile (P) Barrel Scanning (P) Weighbridge Integration (O) Quality / Lab equipment Integration (O) Smart Post (O) 		

Notes:
(M) JD Edwards Module
(P) Partner Product
(O) Orchestration
(OC) Oracle Cloud

Oracle JD Edwards Enterprise One - Continued



UX One Page



- 50 + Roles
- Real Time
- Interactive




- Build personalized operational dashboards



Oracle JD Edwards Enterprise One - Continued



JD Edwards Mobile Solutions

Mobile Applications	Mobile Everywhere	Mobile Platform
		
85+ Out of the Box Apps	Run Any E1 Application	Mobile Cloud Service
Apps 9.1 & 9.2	Use Browser or Container	Mobile Application Development
Integrated with Mobile Cloud Service	Access Device Capabilities	Leverage Enterprise Mobile Management

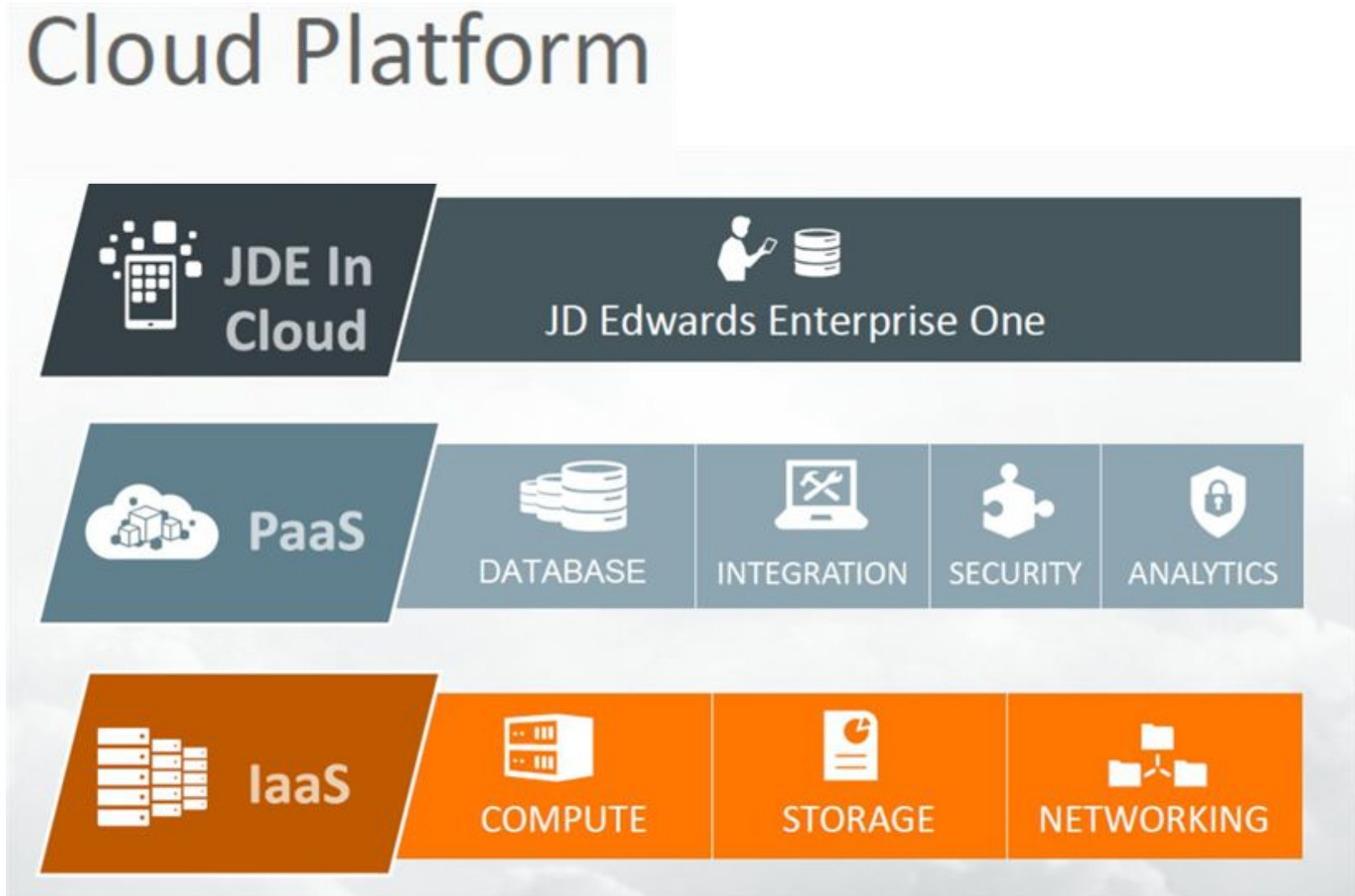
Oracle JD Edwards Enterprise One - Continued

Data Visualization



- Oracle DV Service Cloud
- Create your own dashboard
- Connect to external data source

Oracle JD Edwards Enterprise One - Continued





GUAM POWER AUTHORITY
ATURIDĀT ILEKTRESEDĀT GUAHAN
P.O.BOX 2977 • AGANA, GUAM U.S.A. 96932-2977

Issues for Decision

Resolution No. 2018 - 24:

RELATIVE TO AUTHORIZING GUAM POWER AUTHORITY TO UPGRADE FROM ENTERPRISE RESOURCE PLANNING (ERP) SOFTWARE JDE ONE WORLD TO ENTERPRISE ONE (E1)

What is the project's objective? Is it necessary and urgent?

GPA purchased Enterprise Resource Planning (ERP) software from JDEdwards World Solution company in the late 1990 and the contract included a license for an upgrade to the software. Oracle Corporation has purchased JDEdwards contracts including GPA. Oracle Corporation developed Enterprise One (E1) and agreed to recognize GPA license right to E1 software package. Oracle Corporation has disclosed its intention to discontinue support of JDE One World software in 2022. GPA has determined that upgrading to E1 will improve the system's functionality, ease of use by user, and greater reporting capability and that the Authority should move to E1 software offered by Oracle.

GPA also intends to move forward to purchase and support of E1 ERP system and modules currently not covered by GPA's license to improve the functionality and replace other existing software. GPA is requesting authorization for expenditure to purchase additional licenses, support, and professional services from Oracle Corporation and DXC.

Where is the location? [Fadian Data Center](#)

How much will it cost? [Approximately \\$1.2M](#)

When will it be completed? [Estimate Completion Date August 2019](#)

What is its funding source? [Revenue Funds](#)



CONSOLIDATED COMMISSION ON UTILITIES

Guam Power Authority | Guam Waterworks Authority
P.O. Box 2977 Hagatna, Guam 96932 | (671) 648-3002 | guamccu.org

RESOLUTION NO. 2018 - 24

RELATIVE TO AUTHORIZING GUAM POWER AUTHORITY TO UPGRADE FROM ENTERPRISE RESOURCE PLANNING (ERP) SOFTWARE JDE ONE WORLD TO ENTERPRISE ONE (E1).

WHEREAS, the Guam Power Authority (GPA) is a Public Corporation of the Government of Guam and is subject to the oversight of the Consolidated Commission on Utilities (CCU); and

WHEREAS, GPA purchased Enterprise Resource Planning (ERP) software from JDEdwards World Solution company in the late 1990 and the contract included a license for an upgrade to the software; and

WHEREAS, Oracle Corporation has purchased JDEdwards contracts including GPA; and

WHEREAS, Oracle Corporation developed Enterprise One (E1) and agreed to recognize GPA license right to E1 software package; and

WHEREAS, Oracle Corporation has disclosed its intention to discontinue support of JDE One World software in 2022; and

WHEREAS, GPA has determined that upgrading to E1 will improve the system's functionality, ease of use by user, and greater reporting capability and that the Authority should move to E1 software offered by Oracle; and

WHEREAS, GPA also intends to move forward to purchase and support of E1 ERP system and modules currently not covered by GPA's license to improve the functionality and replace other existing software; and

1
2 **WHEREAS**, GPA is requesting authorization for expenditure to purchase additional
3 licenses, support, and professional services from Oracle Corporation and DXC; and
4

5 **WHEREAS**, GPA is anticipating the cost of the implementation of the upgrade and
6 licenses at a total cost of \$1.2 million.; and
7

8
9 **NOW, THEREFORE BE IT RESOLVED**, by the Consolidated Commission on Utilities
10 as follows:
11

- 12 1. The General Manager of the Guam Power Authority is authorized the expenditure of \$1.2
13 million for the professional services to upgrade ERP system JDE One World to Enterprise
14 One (E1), and purchase additional license and modules not currently covered under the
15 licenses owned by GPA.
16

17
18 **RESOLVED**, that the Chairman certifies and the Board Secretary attests to the adoption
19 of this Resolution.
20

21 **DULY AND REGULARLY ADOPTED AND APPROVED THIS 19TH DAY OF**
22 **OCTOBER 2018**
23

24 Certified by:

Attested by:

25
26
27 _____
28 **JOSEPH T. DUENAS**

29 Chairperson

30 Consolidated Commission on Utilities

J. GEORGE BAMBA

Secretary
Consolidated Commission on Utilities

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SECRETARY’S CERTIFICATE

I, **J. George Bamba**, Board Secretary of the Consolidated Commission on Utilities (CCU), as evidenced by my signature above, do hereby certify as follows: The foregoing is a full, true and correct copy of the resolution duly adopted at a regular meeting by the members of the Guam CCU, duly and legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:

Ayes: _____
Nays: _____
Abstentions: _____
Absent: _____



GUAM POWER AUTHORITY
ATURIDÂT ILEKTRESEDÂT GUAHAN
P.O.BOX 2977 • AGANA, GUAM U.S.A. 96932-2977

Issues for Decision

Resolution No. 2018-25:

RELATIVE TO AUTHORIZATION OF CONTRACT INCREASE FOR ENGINEERING, PROCUREMENT, AND CONSTRUCTION MANAGEMENT THRU 2022

What is the project's objective? Is it necessary and urgent?

Stanley Consultants was contracted in March 2017 through GPA RFP-17-001 as the Engineering, Procurement and Construction Management (EPCM) Contractor for the New 120-180 MW Power Plant in March 2017. As the EPCM, Stanley is providing the technical and contractual support in the new IPP procurement and will be GPA Owner's Engineer during construction and commissioning. The increase in contract cost is projected to cover services through plant commissioning in 2022.

Where is the location?

The new power plant proposed siting is adjacent to the Harmon Substation.

How much will it cost?

GPA is requesting a \$2.6M increase for technical services to develop procurement documents and support procurement activities. The total costs are within 1-3% of projected new power plant construction costs and is within typical percentages for this size of a project as shown in table below:

New Plant Costs (\$M)	EPCM Cost % of Total New Plant Costs
\$200	2.0%
\$250	1.6%
\$300	1.3%
\$350	1.1%
\$400	1.0%

When will it be completed?

GPA has projected initial commissioning of the new power plant for late 2021 and full commissioning by 2022.

What is its funding source?

Cabras 3&4 Insurance Proceeds and 2014 Bond Funds – LNG Initial Startup



CONSOLIDATED COMMISSION ON UTILITIES

Guam Power Authority | Guam Waterworks Authority

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RESOLUTION NO. 2018-25

**RELATIVE TO AUTHORIZATION OF CONTRACT INCREASE FOR
ENGINEERING, PROCUREMENT, AND CONSTRUCTION MANAGEMENT
THRU 2022**

WHEREAS, Stanley Consultants was selected through GPA RFP-17-001 as the Engineering, Procurement and Construction Management (EPCM) Contractor for the New 120-180 MW Power Plant in March 2017; and

WHEREAS, in October 2016 the PUC Docket 17-06¹ approved the initial funding of \$750,000 for the procurement development of the new power plant from 2014 Bond Funds – LNG Startup Bond Project; and

WHEREAS, in March 2018 the PUC Docket 18-09² approved an increase of \$600,000 to the contract to complete procurement document development and solicitation support as well as to initiate land studies of the Ukudu site for bid documents; and

WHEREAS, since March, GPA and Stanley developed a projected budget to complete procurement support and to provide owner's engineer support during construction and commissioning thru 2022 totaling approximately \$2.6 M (See Attachment A); and

WHEREAS, the total projected cost for the EPCM is within a reasonable percentage (1%-3%) of the total new power plant cost expected in developing and commissioning a new power plant; and

WHEREAS, GPA has identified the Cabras 3&4 Insurance Proceeds to be the funding source for projected Stanley Consultants costs contract thru 2022; and

WHEREAS, the increased contract cost exceeds the GPA General Manager's approval authority.

¹ CCU Resolution No. 2015-21, Relative to Approval of Consulting Services for USEPA Compliance Plan, approved on March 24, 2015.

² CCU Resolution No. 2018-05, Relative to Authorization of Increase for Engineering, Procurement, and Construction Management Contract Amount, approved on March 29, 2018.

RESOLUTION NO: 2018-25

**NOW, THEREFORE, BE IT RESOLVED, by the CONSOLIDATED COMMISSION
ON UTILITIES, the GOVERNING BODY of the GUAM POWER AUTHORITY as
FOLLOWS:**

- 1.** The CCU authorizes GPA to increase the Stanley EPCM contract by \$2.6M for consulting and technical services through September 2022 to be funded through the Cabras 3&4 Insurance Proceeds for a contract total of \$3.95M.
- 2.** The CCU authorizes the GPA General Manager to petition the PUC for approval to increase the Stanley EPCM contract by an additional \$2.6M for a contract total of \$3.95M for services through September 2022 funded the Cabras 3&4 Insurance Proceeds

RESOLVED, that the Chairman certifies and the Board Secretary attests to the adoption of this Resolution.

**DULY AND REGULARLY ADOPTED AND APPROVED THIS 19th DAY OF
OCTOBER 2018.**

Certified by:

Attested by:

JOSEPH T. DUENAS
CHAIRMAN

J. GEORGE BAMBA
SECRETARY

I, J. George Bamba, Secretary for the Consolidated Commission on Utilities (CCU), as evidenced by my signature above do certify as follows:

The foregoing is a full, true, and accurate copy of the resolution duly adopted at a regular meeting of the members of Guam Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:

Ayes: _____

Nays: _____

Absent: _____

Abstain: _____

RESOLUTION NO: 2018-25

ATTACHMENT A:

**Engineering, Procurement and Construction Management Contract Budget thru 2022
Stanley Consultants**



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October 14, 2018

**Scope of Work for Budget Forecast
GPA EPCM – New Generation Project
May 29, 2018**

This defines the scope of work including deliverables for the full project for GPA EPCM New Generation project through March 2022 full commercial operation, assuming no significant changes are made in the defined scope or schedule.

Activity 3.6: Procurement Process Support –

The Stanley Team will support GPA in communicating with the vendor, evaluating bids, and provide GPA with a recommendation for award. The Stanley Team expects the procurement process to include two stages: a) prequalification to shortlist the qualified IPP proponents and b) competitive bidding between the shortlisted IPP proponents. Based on this approach, the Stanley Team activities for procurement process support will include:

- Assist GPA with remaining IPP proponent tender evaluation and recommendation
The Stanley Team will assist GPA during the Envelope 1 proposal opening ceremony and Envelope 1 proposal evaluation. After the bidders are notified about the Envelope 1 proposal evaluation results and their status (Envelope 2 will only be opened for the bidders whose Envelope 1 proposal is evaluated to be a responsive proposal), assist GPA during the Envelope 2 proposal opening and evaluation.
- Assist GPA during contract negotiations with selected IPP proponent (2019)
The Stanley Team will assist GPA during the negotiations covering technical and commercial issues. Legal issues are expected to be covered by GPA and their legal advisor. Our budget assumes three rounds of negotiations which each round being 3 days. After each round, the Stanley Team will provide inputs to the minutes of meetings and updated drafts of the Project Agreements. It is expected that redrafting of the Project Agreements will be done by GPA legal advisor.

Deliverables:

Responses to proponent questions
Tender clarifications reviews and comments
Tender bid evaluations and recommendation (2019)
Staff presence during contract negotiations, contract review and recommendations as required to support GPA (2019)


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SUBTASK 4 PROJECT MONITORING AND CONTROLLING

Activity 4.1 Project Management of the EPCM Contract

This activity is listed under this subtask and will be occurring throughout the entire project. The project manager with project controls personnel will provide continuous monitoring of project progress, quality, scope, budget, and risk. The project manager will be responsible for taking remedial action when necessary to correct any problems with these items. The project manager will be responsible for submitting to GPA periodic project status reports, a comprehensive monthly project progress report, and an updated project schedule. The project manager will monitor the project for any scope changes and keep GPA informed whenever a scope change occurs so that the issue can be resolved quickly. The project manager will be responsible for monitoring and controlling the project planned budget versus actual cost. The project manager will coordinate with sub-contractors to assure they provide the work product that meets GPA requirements. The project manager will also be responsible for submitting monthly invoices for the EPCM team to GPA and responding to any questions GPA may have regarding invoices. Project risk will be monitored and the project manager will maintain the project risk register and update it regularly as the project proceeds.

Deliverables: Monthly project reports, monthly schedule updates, monthly budget forecasts, as scheduled conference calls and meeting minutes

SUBTASK 6 PROJECT SUPPORT

Activity 6.1 IPP Contract Execution

The Stanley Consultants Team will identify the deliverables to be developed and submitted to GPA for each of the activities below and develop a schedule for such deliverables. The schedule will be further reviewed and finalized after selection of the preferred IPP proponent.

- Identify post award proponent deliverables and deliverable schedule
 The post-award activities of the selected IPP proponent are expected to include:
 - Completion of negotiations with GPA
 - Signing the Contracts
 - Financial close
 - Project construction up to commercial operation date
 - Operating period during the term

Deliverables: List of deliverables with estimated schedule

Activity 6.2 Owner's Engineering Services for GPA in Support of the IPP New Generation Construction Phase

The Stanley Consultants Team will provide engineering services to GPA for the IPP New Generation.



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The support will include: Owners Representative services, design review of proposer's submitted documents, verification of compliance with technical specifications and response to technical questions and requests for information.

Deliverables: Owner's Representative services, design review and comments, technical specification compliance verification, response to technical questions, RFI responses

Activity 6.2.1 Commercial and Contractual Support

The Stanley Consultants Team, primarily K&M Advisors, will provide commercial and contractual support to GPA for the IPP New Generation. The support will include review and comments on proposed commercial

Deliverables: Responses to Commercial and Contractual Requests for Information (RFI) and questions, RFI log

Activity 6.3 Construction Services for IPP New Generation

The Stanley Consultants Team will provide services in support of the IPP New Generation construction. Services will be office based before construction mobilization; then site and office based following mobilization.

The Team will provide:

- Technical review and comment on submitted IPP Construction documents.
- Participate in factory acceptance tests where agreed upon.
- Monitor IPP construction progress.
- Provide commissioning and startup support – review of IPP proposed processes.

Construction mobilization is planned for April 2020. This includes partial time on site technical support.

Deliverables: Construction site part time technical support. Technical review and comments on construction documents.



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Activity 6.4 Regulatory Support

The Stanley Consultants Team will support GPA to provide expert testimony to PUC, the Legislature, and the CCU.

Deliverables: Testimony support, preparation of talking papers or resource documentation (as appropriate and as requested by GPA).

Activity 6.5 Rate Impact

The Stanley Consultants Team will provide estimated rate impacts for the selected IPP proponent proposed plant.

Deliverables: Estimated rate impact study

CCU Regular Meeting October 19, 2018 - GPA

29-May-18	GPA EPCM New Generation Full Project Budget Estimate					
	Task	Description	2019	2020	2021	2022
Subtask	Subtask 3 - Project Execution					
Activity 3.5	Procurement IFB Document Support	Incorporate review comments and develop final IFB document package for issue for bid				
3.6	IPP Procurement Support	IFB evaluations and negotiations support	\$ 127,500			
Subtask	Subtask 4 - Project Monitoring & Controlling					
Activity 4.1	Support for GPA Oversight of IPP Project	Project management and administrative support	\$ 224,000	\$ 232,960	\$ 242,278	\$ 56,000
Subtask	Subtask 6 - Project Support					
Activity 6.1	IPP Contract Execution	This includes support after ECA signing up to financial close	\$ 50,400			
Activity 6.2.1	Owner's Engineer Services	Owner's engineers services including design review of proposer's submitted documents. Verify compliance with technical specifications. Responding to technical questions. This includes advising on technical issues impacting commercial provisions	\$ 134,250	\$ 276,546	\$ 265,910	\$ 69,140
Activity 6.3	Construction Services for IPP New Generation	Field support - office and on site after construction mobilization	\$ 12,500	\$ 36,100	\$ 264,000	\$ 107,700
Activity 6.4	Regulatory Support	This includes regulatory support through financial close	\$ 53,200	\$ 55,328	\$ 57,541	\$ 21,500
Activity 6.5	Rate Impact	This includes preparation of the rate impact study inputs after award, but prior to signing the ECA. Supports PUC order requiring a rate study be done.	\$ 32,500			
	Sub Total		\$ 706,390	\$ 708,834	\$ 715,490	\$ 188,640
	Expenses		\$ 24,760	\$ 33,600	\$ 47,040	\$ 32,600
	GRT 5.0% --reserve the right to increase it and also add a sale tax when Guam's law allows it.		\$ 36,557.50	\$ 37,121.70	\$ 38,126.48	\$ 11,062.00
	Total		\$ 767,708	\$ 779,556	\$ 800,656	\$ 232,302
	Total estimated expenses remaining 2019 through 2022	\$ 2,580,221				
	Spent through April 2018	\$ 749,927				
	2018 PUC Approved	\$ 600,000				
	Project total for EPCM and Construction Services	\$ 3,930,148				



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October 17, 2018

The scope of work and costs for Owner's Representative services often does not directly depend on the project cost and may be a similar cost for large and small projects.

Owner's Representation services can be divided into pre-financial close scope (referred to herein as "Transaction Advisory") and post-financial close scope (referred to herein as "Owners Engineer").

Transaction Advisors services stop at financial close, and are typically around 0.5% of total project cost. With Transaction Advisors services, the IPP developer would hire their Owner's Engineer to assist them with selection of an EPC Contactor, design review, and construction oversight, and lenders would hire their Lenders' Engineer to assist the lenders in overseeing the project. The total cost for Owner's Engineer services including selection of the EPC Contactor, design review, and construction oversight can range from \$4 to \$6 million depending on the project schedule and duration that the field engineering team is at the site.

The percentage of total cost for Owner's Engineer services on a power plant project can range from 1% to 4% of total project costs depending on the scope and level of services to be provided. Total project costs are defined as: pre-bid services, bid phase, award, design and engineering, procurement, construction field services, start-up and commissioning and permitting support.

The scope of services provided by an Owner's Engineer include preparational work (site and plant configuration selection, initial due diligence), preparation of the contract documents, organizing competitive bidding, bid evaluation, assisting during negotiations of project agreements, assistance with responses to lenders' questions, design review, monitoring specification compliance, construction field support, schedule compliance monitoring, quality control record review, commissioning and start up support, performance testing support, certification of invoices for payment and other services as requested.

These factors may increase the Owner's Engineer costs for the GPA project:

1. GPA would like to be involved in design review and oversight of construction. The level of involvement could be limited, but still GPA may want to make sure that the requirements of the functional specification are met.
2. The GPA project includes off-site facilities (such as fuel pipelines and electrical interconnection facilities).
3. The GPA project is complicated by provisions for future LNG supply and additional analysis of system stability associated with operating isolated power system on an island.
4. GPA project is complicated by increased penetration of renewables, that requires additional analysis of the IPP dispatch to be specified in the IFB, as the dispatch used for evaluation will drive technology selection.

The projects that may be closest in scope to the GPA project are the Project A Reciprocating Engines Project 170 MW and the Project J 1292 MW Oil-fired Steam Cycle. These projects included most of the items 1-4 mentioned above as well as additional client requested engineering services.



GPA
October 17, 2018

The table below shows several project's Owner's Engineer's (OE) costs and Transaction Advisor's (TA) cost as a percent of total project costs.

Plant	Location	Plant Total Cost	Type of Fee	Fee	%
Project A Reciprocating Engines 170 MW Project	US	\$ 305,000,000	OE	\$ 5,317,000	1.74%
Project B Coal Fired 800 MW Project	International Island	\$2,500,000,000	OE	\$ 30,900,000	1.24%
Project C 360 MW Combined Cycle	International Island	\$ 280,000,000	OE	\$ 11,188,012	4.00%
Project D 660 MW Coal Fired Unit	US	\$ 650,000,000	TA	\$ 2,819,385	0.43%
Project E 140 MW Geothermal	International	\$ 650,000,000	TA	\$ 2,856,700	0.44%
Project F 250 MW Combined Cycle	International	\$ 315,000,000	TA	\$ 1,604,750	0.51%
Project G 370 MW Combined Cycle	International	\$ 293,000,000	TA	\$ 1,623,900	0.55%
Project H 715 MW Combined Cycle	International	\$ 400,000,000	TA	\$ 1,863,000	0.47%
Project I 90 MW Simple Cycle	International	\$ 65,000,000	OE	\$ 1,675,000	2.58%
Project J 1300 MW Oil-fired Steam Cycle	International	\$1,800,000,000	TA	\$ 10,950,000	0.61%

The GPA Owner's Engineering services cost will likely be from \$4,000,000 to \$6,000,000 depending on the services requested with the current estimated total costs for the GPA project at \$300,000,000 to \$400,000,000.



GUAM POWER AUTHORITY

ATURIDAT ILEKTRESEDAT GUAHAN
P O BOX 2977, AGANA, GUAM 96932-2977

Issues for Decision

Resolution No. 2018-26:

Relative to:

Authorizing the Guam Power Authority to purchase three bucket trucks to replace existing bucket trucks pending salvage

What is the project's objective and is it necessary and urgent?

The objective of the purchase is to maintain efficiency by replacing aged bucket trucks and to provide reliable equipment to allow line crews to conduct repairs and maintenance on the transmission and distribution system in an efficient and cost effective manner. Unreliable equipment translates to extended outages and longer response times.

Official #	Equipment Number	Year	Replacement Age	Type	Make/Model	Vin/Serial Number
4661	132652	1995	23	Bucket Truck	INTERNATIONAL, 4700	1HTSCABP8SH625205
5058	132601	1998	20	Bucket Truck	IHC, 4700 MAT'L HANDLR, 42'	1HTSCABN2WH519157
4577	2713119	2006	15	Flatbed	INTERNATIONAL 4x2/65	1HTMKAAN07H395047

Where is it at?

Bucket trucks will service the transmission and distribution system island wide.

How much will it cost?

Item	Vendor	Qty.	Unit Cost	Extended Cost
55' Bucket Truck	Morrico Equipment	3	\$257,299.00	\$771,897.00

When will it be completed?

Delivery is set at 360 days after Notice to Proceed

What is its funding source?

FY19 General Plant Capital Improvement Project Budget as approved by the CCU and PUC

The RFP/BID responses:

Two bids were received

1. Morrico Equipment
2. Mid-Pac Far East



CONSOLIDATED COMMISSION ON UTILITIES

Guam Power Authority | Guam Waterworks Authority

P.O. Box 2977 Hagatna, Guam 96932 | (671) 648-3002 | guamccu.org

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Resolution No. 2018-26

**AUTHORIZING THE GUAM POWER AUTHORITY TO PROCEED WITH THE
PURCHASE OF BUCKET TRUCKS TO REPLACE EXISTING BUCKET TRUCKS PENDING SALVAGE**

WHEREAS, GPA is committed to providing economically sound and reliable vehicles and equipment to service the island's power system; and

WHEREAS, GPA seeks to maintain efficiency by replacing aged service vehicles and by providing reliable equipment to allow line crews to conduct repairs and maintenance on the transmission and distribution system in an efficient and cost-effective manner; and

WHEREAS, three bucket trucks; officials 5058, 4661, and 4577 within the current fleet are beyond reasonable economical repair and beyond their life expectancies, with extensive repairs required on the engines and aerial units and an average age of more than 18 years; and

WHEREAS, the Authority seeks to procure three new 55-Foot Bucket Trucks to replace these bucket trucks; and

WHEREAS, the new Bucket Trucks will give the Authority's Transmission & Distribution personnel the capability and capacity to perform new installations to support customer growth and to maintain the power system in a safe and efficient manner; and

WHEREAS, the Procurement Officer has provided adequate public announcement to procure three new 55-Foot Bucket Trucks through Bid Invitation No. GPA-104-18 providing the specifications for the bucket trucks and the information required of each offeror; and

WHEREAS, Morrico Equipment and MidPac Far East submitted bids for GPA's consideration; and

WHEREAS, the GPA Evaluation Committee determined Morrico Equipment to be the lowest responsive bidder for supply of three 55-foot Bucket Trucks at a cost of \$771,897.00

WHEREAS, GPA has secured CCU and PUC approval under Revenue General Plant Capital Improvement Funds to procure these bucket trucks; and

WHEREAS, GPA is seeking approval from the Consolidated Commission on Utilities to award the contracts to Morrico Equipment.

1 **NOW, THEREFORE, BE IT RESOLVED**, by the Consolidated Commission on Utilities as
2 follows:

3 1. After careful consideration, the Consolidated Commission on Utilities finds the
4 procurement of three 55-Foot Bucket Trucks with Morrico Equipment to be
5 reasonable and prudent to replace three bucket trucks to be salvaged from GPA's
6 fleet.

7 2. The General Manager of the Guam Power Authority is hereby authorized an
8 increase in obligating authority up to \$771,897.00 for the purpose of procuring
9 three 55-Foot Bucket Trucks from Morrico Equipment
10

11 **RESOLVED**, that the Chairman certifies and the Board Secretary attests to the adoption
12 of this Resolution.

13 **DULY AND REGULARLY ADOPTED AND APPROVED THIS 19th DAY OF OCTOBER 2018.**

14		
15	Certified by:	Attested by:
16		
17		
18	_____	_____
19	JOSEPH T. DUENAS	J. GEORGE BAMBA
20	CHAIRMAN	SECRETARY
21		

22 **I, J. George Bamba**, Secretary for the Consolidated Commission on Utilities (CCU), as
23 evidenced by my signature above do certify as follows:

24 The foregoing is a full, true, and accurate copy of the resolution duly adopted at a regular
25 meeting of the members of Guam Consolidated Commission on Utilities, duly and legally
26 held at a place properly noticed and advertised at which meeting a quorum was present and
27 the members who were present voted as follows:

28		
29	Ayes:	_____
30		
31	Nays:	_____
32		
33	Absent:	_____
34		
35	Abstain:	_____
36		

Me/



GUAM POWER AUTHORITY

ATURIDÁT ILEKTRESEDÁT GUAHAN
P.O. BOX 2977 • HAGÁTNA, GUAM U.S.A. 96932-2977

October 9, 2018

Memorandum

To: Supply Management Administrator
From: Evaluation Committee
Subject: **BID EVALUATION for GPA-104-18**
New 2019 55 Foot, 4 X 4 Bucket Truck

Guam Power Authority
Assistant Manager, OPTS

19-23
OCT 09 2018

RECEIVED
By: [Signature] Time: 11:30am.

The evaluation committee members have completed the evaluation and conclude that the following bidders have met the bid technical specifications as stated in the IFB. The committee recommends the award of this bid to this lowest, responsive and responsible bidder.

- Morrico Equipment
- Mid Pac Far East
- Far East Equipment – NO BID

COMMITTEE MEMBERS:

[Signature]
Edward Leon Guerrero
Line Electrician Supervisor

[Signature]
Jesse Cruz
Line Electrician Supervisor

Concurred By:

[Signature]
Melinda C. Mafnas, P.E. Date
Assistant General Manager, Operations

[Signature]
Franklin Taitague
Heavy Equipment Mechanic Leader



☒ Approved ☐ Disapproved
[Signature] 10/10/18
John M. Benavente, P.E. Date
General Manager

NUMBER OF INVITATIONS ISSUED: 3

NUMBER OF BIDS RECEIVED: 3

3

DESCRIPTION OF SUPPLIES OR SERVICES:

New 2019 55-Foot, 4x4 Bucket Truck



PROCUREMENT DIVISION
GUAM POWER AUTHORITY
ABSTRACT OF BIDS

INVITATION NUMBER:

GPA-104-18

OPENING DATE:

October 05, 2018 2:00PM

OPENING TIME:

BIDDER:

No: 13-1 Vendor Name: Far East Equipment Company

BID GUARANTEE: *NO Bid

[] Bid Bond #: Amount: \$

[] Certificate of Authority [] Power of Attorney Amount: \$

[] Standby Letter of Credit # Amount: \$

[] Letter of Credit # Amount: \$

[] Cashier's or Certified Check # Amount: \$

[] Wire Transfer

[] Statement of Qualifications

[] Affidavits (Original Form)

[] Affidavits (Copy Form): Originals submitted with

[] Major Shareholders [] Non-Collusion [] No Gratuities or Kickbacks

[] Ethical Standards [] Wage Determination [] Restriction Against Sex Offenders

[] Business License [] Contractors License

[] Local Procurement Signed and Submitted

[] Literature

I hereby certify that all bids received in response to this invitation were opened under my personal supervision, and that the names of all bidders have been entered herein.

SIGNATURE

TABULATED BY:

DATE:

10/05/18

[] Lowest Responsive Bidder
[] Tie Bid
[] Only Bid
[] Other Than Lowest Responsive Bidder

PAGE 3 OF 3

BUCKET TRUCK FLEET PLAN

	Current	2019	2020	2021	2022
In Service	21	3	3	3	3
Retire	0	-3	-2	-3	0
TOTAL	21	21	22	22	25

	HEIGHT	YEAR	AGE	OFFICIAL #
1	55Ft.	2019	0	6564
2	55Ft.	2019	0	6725
3	55Ft.	2019	0	6726
4	55 Ft.	2017	1	4980
5	55 Ft.	2017	1	4981
6	55 Ft.	2017	1	4982
7	65 Ft.	2017	1	5381
8	65 Ft.	2017	1	5382
9	65 Ft.	2017	1	5394
10	56 Ft.	2014	4	6184
11	56 Ft.	2014	4	6185
12	42 Ft.	2009	9	5525
13	42 Ft.	2008	10	4739
14	42 Ft.	2007	11	55
15	42 Ft.	2007	11	4586
16	42 Ft.	2007	11	4587
17	55 Ft.	2001	17	5520
18	40 Ft.	1998	20	3015
19	55Ft.	1998	20	5058
20	55Ft.	1995	23	4661
21	55Ft.	2006	12	4577