Speaker's Office <speaker@guamlegislature.org>

MC Fwd: CCU MEETING FEBRUARY 26, 2019 / MEETING PACKETS, MINUTES AND RESOLUTIONS
1 message

Speaker's Office <speaker@guamlegislature.org> Wed, Feb 27, 2019 at 3:34 PM
To: Clerks Office <clerks@guamlegislature.org>
Cc: Rennae Meno <rennae@guamlegislature.org>
Bcc: Tina Muna Barnes <tinamunabarnes@gmail.com>

02-27-19	3:33 PM	2-27-19	Pursuant to P.L. 31-233, the Budget Act, attached are documents related to CCU Meeting, February 26, 2019.*E Mail	Consolidated Commission on Utilities	35GL-19-0185

---------- Forwarded message ---------
From: **Bernadette Lou Sablan** <l.sablan@gpagwa.com>
Date: Wed, Feb 27, 2019 at 3:25 PM
Subject: CCU MEETING FEBRUARY 26, 2019 / MEETING PACKETS, MINUTES AND RESOLUTIONS
To: Lou Leon Guerrero (governor@guam.gov) <governor@guam.gov>, GUAM LEGISLATURE (speaker@guamlegislature.org) <speaker@guamlegislature.org>
Cc: Lisa Dames - Governor's Office (eliza.dames@guam.gov) <eliza.dames@guam.gov>, Shamra Chargualaf (shamra.chargualaf@guam.gov) <shamra.chargualaf@guam.gov>

To: Governor Lou and Speaker Tina

Pursuant to P.L. 31-233, the Budget Act, attached are documents related to last night's CCU Meeting, February 26. 2019.

Attachments include:

1. CCU Board Books [meeting packet]
2. Minutes
3. GPA and GWA Resolutions

Thank you,

Lou

B. Lou Sablan

Board Secretary

Consolidated Commission on Utilities

Admin Asst., Legal Counsel, GPA

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35GL-19-0185
Speaker Tina Rose Muña Barnes

FEB 2 7 2019
Time 334 ( )AM ( )PM
Received By:

2019 FEB 27 PM 3:50

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10 attachments

- **Minutes January 22, 2019.pdf** 4436K
- **CCU 2.26.19.pdf** 7770K
- **Resolution 2019-04 Unified Holiday Personnel Mgmt Policy for GPA&GWA.pdf** 602K
- **Resolution 13-FY2019 Relative to New Banking Signatories.pdf** 505K
- **Resolution 14-FY2019 Authroization to Re-establish Customer Refumd Account with BOG.pdf** 586K
- **Resolution 15-FY2019 Adoption & Implementation of Unified Holiday Personnel Mgmt Policy for GPA&GWA.pdf** 590K
- **Resolution 16-FY2019 Ratification of Expenditures for Security Services with G4S and Approval to Peititon PUC to Raitfy Cost Exceeding $1M Dollars.pdf** 653K
- **Resolution 17-FY2019 Relative to Amendment Asst. GM of Operations Classification Standards.pdf** 760K
- **Resolution 18-FY2019 Relative to Policy on Timing & Issuance of Back Bills.pdf** 523K
- **Resolution 19-FY2019 Relative to Funding Inrease Baa Garden Conveyance & Pump Design.pdf** 700K

0185

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

Regular Board Meeting
CCU Conference Room, Gloria B. Nelson Public Service Building
5:30 p.m., January 22, 2019

MINUTES

1. CALL TO ORDER

The Chairman called the CCU regular meeting of January 22, 2019 to order at 5:30 p.m. He said four (4) Commissioners were present; Comm. Sanchez was absent and excused. Others in attendance include:

Commissioners:

Joseph T. Duenas	CCU Chairman
Francis E. Santos	CCU Vice Chairman
Michael T. Limtiaco	CCU Secretary
Judith P. Guthertz	CCU Treasurer

Executive Mgmt.:

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

Management & Staff:

Paul Kemp	AGM Compliance & Safety / GWA
Ron Topasna	O&M Mgr, Water Treatment / GWA
Geigy Salayon	Utilities Service Mgr, Operations / GWA
Vincent Pangelinan	O&M Manager, Water Distribution / GWA
Vangie Lujan	GWA
Dave Fletcher	O&M Mgr. Wastewater Treatment / GWA
Lisa San Agustin	Utilities Services Administrator / GWA
Heidi Ballendorf	Communications / GWA
Patti Diego	Communications / GPA
Joyce Sayama	Mgmt. Analyst / GPA Ex. Office
Ann Borja-Gallarde	Mgmt. Analyst / GWA Ex. Office
Lou Sablan	Board Secretary / CCU

Guest:

Mark Miller	PUC

Sabina Perez	Senator
Angelica Perez	AM Insurance
Clynt Ridgell	Senator
Kurt Bilz	Brown & Caldwell
Jerry Johnson	Brown & Caldwell

2. APPROVAL OF MINUTES

The Minutes of November 27, 2018 and January 10, 2019 were presented for approval.

Comm. Guthertz motioned to approve the Minutes subject to verification and written correction; second by Comm. Limtiaco. There was no further discussion or objection and the motion carried.

3. COMMUNICATIONS

3.1 Public Comments - None

4. GWA

4.1 New Business

4.1.1 GM Report

GM Bordallo said there is no change on GM Report reported at the GWA work session with exception of a couple items - under operational issues, page 58-65 in particular, the summary of Typhoon Yutu recovery efforts in Saipan. He applauded GWA crew's efforts there. He updated that GWA did not send additional support and on pages 47 & 48 – he gave updates on CIP and SRF projects and changes to expenditures to the months of Nov/Dec 2018. A full copy of the GM report is available upon request.

Chairman Duenas asked - what grants are available this year and, if there was any effect from federal shutdown happening stateside. The GM responded that FY19 grants has been approved for $990k for GWA and so far all still looks good - no delays to speak of. He added that the situation is fluid and he will update the Commission as needed.

In closing the GM Bordallo distributed to the Commission hard copies of potential policy initiatives in respond to the Chairman's request via email. The Chairman added he asked both GM's to brief the Commission on initiatives / projects that are part of their respective masterplans so this Is not something new. GM Bordallo said that he may be bringing before the Commission which includes affordability initiatives for ratepayers. The chairman also mentioned broad policy issues that the Commission should be thinking about such as the one customer experience, like the holidays that we observe such as executive order holidays. The ones that are legislatively mandated are not the issue; the concern is the ones that are not planned / regularly observed such as the ones granted under executive order. The Commission wants the GM to know how to handle this via some kind of policy so we know how to handle them. There may be schedules already set on the dates that are spontaneously granted via executive order. Another one is the drug free workplace policy which includes alcohol abuse. The chairman said we need a better policy. GM Bordallo said he is also thinking of drafting a formal policy for the purchase of navy water such as a bulk water rate / purchase. It is difficult to try to negotiate any discussion relative to reduction without a formal written policy. Comm. Guthertz commented that the agencies also need to consider a policy about the use of medicinal marijuana. Comm. Limtiaco asked if heavy equipment drivers are required to go

through testing – GM Bordallo confirmed that GPA's is employee wide and GWA said it's upon entry. It was mentioned that the testing for GWA is DOA and GPA's s 3rd party testing. The Commission said that this is should be the same for GPA and GWA. Comm. Santos asked the GM's to do a timeline and not leave it open ended. He also asked the AGMA's to help work on the holiday schedule so everyone knows what to do.

4.1.2 Financials

CFO Greg Cruz said there is no addition to the financial report presented at the GWA work session and there was no further discussion relative to financials.

4.1.3 Resolution 11-FY2019 Change Order to Island Wide Well Site Rehab Project W15-004-EPA

The objective of the requested increase in funding is to have funds available to negotiate and execute a final change order that encompasses all additional work items necessary for the final project completion. Items to be addressed in the final change may include but are not limited to the following items:

- Required Changes to Programmable Logic Controller (PLC) configuration,
- Replacement and relocation for electrical handholes to comply with GPA requirements,
- Reimbursement for GPA power invoices for operation of the wells following substantial completion,
- Replacement of components determined necessary for proper operation of the chlorination system,
- Other potential issues regarding system start-up and troubleshooting

This project is located at Groundwater Wells within the villages of Dededo, and Mangilao. Construction activities will be limited to the well sites.

The original contract value for this project is Four Million Six Hundred Eighty-Nine Thousand Eight Hundred Eighty-Eight Dollars ($4,689,888.00), plus a ten percent (10%) contingency of Four Hundred Sixty-Eight Thousand Nine Hundred Eighty-Eight Dollars and Eighty Cents ($468,988.80).

With eight (8) previously approved changed orders in the amount of One Million Four Hundred Sixty-Eight Thousand Three Hundred Fifty-Three Dollars and Nineteen Cents ($1,468,353.19), the current total contract value is Six Million One Hundred Fifty-Eight Thousand Two Hundred Forty-One Dollars and Nineteen Cents ($6,158,241.19);

This additional funding request of Two Hundred Thirty Thousand Dollars ($230,000.00) will bring the total authorized funding amount to Six Million Four Hundred Six Thousand Twenty-Three Dollars and Eighty Cents ($6,406,023.80).

The project will be completed in February 2019 and funding will be from USEPA Grant and, if necessary, revenue funds and GWA Bond Funds applicable to the project.

Comm. Guthertz motioned to approve Resolution11-FY2019, second by Comm. Limtiaco; there was no further discussion or objection and the motion passed.

4.1.4 Resolution 12-FY2019 Change Orders to DesignServContr for Northern District Waste Water Treatment Plant Upgrade to Secondary Treatment

GWA management has requested additional survey and design services under Amendment 4 to the Contract for Design Services for the Upgrade to the Northern District Wastewater Treatment Plant to

Secondary Treatment. The additional work is for the design of a new waterline between the Route 3 and NDWWTP to convey potable water to meet the increased demands of both the existing plant and the new treatment processes required for the upgrade to secondary treatment. The design of the waterline is necessary, as the existing potable water supply for NDWWTP is not adequate to meet the demands of the new treatment processes. The design and construction of the waterline must be completed prior to December 31, 2021 to ensure that the NDWWTP upgrade is fully functional.

GWA management has also requested additional design services under Amendment 5 to the Contract for Design Services to prepare design plans and specifications for alternative, deductive bid items for the NDWWTP Bid Documents. If construction bids are greater than available Office of Economic Adjustment grant funds, the deductive bid method will be implemented in order to contain the construction bids within the available funding limits. The design work for the deductive bids must be completed prior to mid-March 2019.

The total cost is $122,678.39 (amendment 4 - $59,757.33) and (Amendment -: $62,921.06). GWA Management is seeking approval of an additional $300,000.00, inclusive of the $122,678.39 for amendments 4 and 5, and the balance for any change orders that may arise during the remainder of the project. The design services will be completed before December 31. 2021 and will be funded from the Office of Economic Adjustment General Assistance (OEA) Grant OCON 676-16-02

The Chairman added that the OEA Grants have a ceiling of $173.9M for all the projects.

Comm. Guthertz motioned to approve Resolution 12-FY2019 second by Comm. Limtiaco; there was no further discussion or objection and the motion carried.

5. GPA

5.1 New Business

5.1.1 GM Report

GM Benavente reported on Saipan support saying he spent the weekend there. The GPA team is good and are really working hard to finish the restoration. He is ready to send the last $500k of materials inventory that they need and said he estimates to bring the GPA team home around 2/17. He also said that CUC is asking to help them some more but that this request it is different issue and not part of the Yutu recovery. FEMA did give them funds for pole hardening. Comm. Limtiaco asked if the assets will also be returning around the same time and the GM said yes that is the plan.

He also stated relative to the policy request by CCU the GM said he will come back by Feb meeting for the holiday matter for sure and will work on a timeline for completion as recommended by Comm. Santos. Others he mentioned include renewable portfolio, new power plant, liquified natural gas, upgrading of transmission system with renewables, long term conversion underground, new revenue sources i.e. electric vehicles to include buses, human resource plan because many employees are of retirement age, customer service benchmarks and tracking. These are just some key matters and management will begin to gather the data and recommendation for presentation to the Commission.

The Chairman also mentioned the plan to bring salaries up to the 50th percentile and what this means in terms of costs. There was discussion on renewables and the utilization of land and economies of scale. He said all these policy initiatives feeds off the Integrated Resource Plan

GM Benavente proceeded to give his usual GM Report Summary.

1. **Generation System:** The following summarizes the generation forecast for February 2019:
   Projected Available Capacity: 322 MW
   Projected Demand: 220 MW
   Anticipated Reserve Margin: 102 MW
   - MEC 9 scheduled for overhaul Feb. 20th to March 5th.
   - Demand expected to be lower than February 2018
2. **New 40 MW Energy Storage Systems:** The completion of the 16 MW and 24 MW Energy Storage battery systems are now scheduled for the end of March 2019. The project will improve reliability by mitigating most of the outages due to the tripping of generators and the solar PV farm intermittency (see following pages) related outages by over 70%.
3. **Demand Side Management (DSM):** DSM Program reduces peak demand and reduces LEAC cost for all customers at a one time fixed rebate. GPA needs to add funding to DSM because the current funding of $2.9M will be exhausted by next month.

DSM PROGRAM SUMMARY

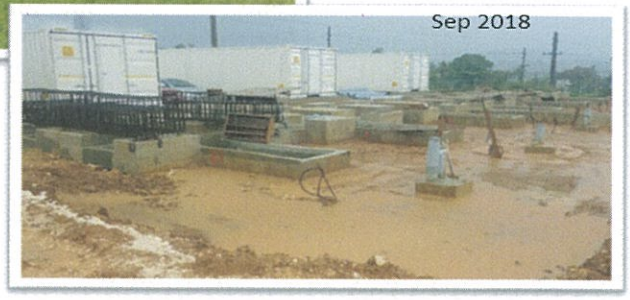
Description	FY16	FY17	FY18	FY19 thru 10/31/18*	Total to Date
Regular/OT Pay	$ 11,349	$ 22,256	$ 26,122	$ 12,379	$ 72,106
Other Contractual	$ 28,279	$ 85,550	$ 116,978	$ 3,025	$ 233,831
Bank Fees	$ 155	$ 1,032	$ 1,085	$ 65	$ 2,337
Paid Rebates-Split AC	$ 154,700	$ 557,275	$ 1,247,000	$ 161,150	$ 2,120,125
Paid Rebates- Central AC	$ 3,400	$ 8,200	$ 4,400	$ -	$ 16,000
Paid Rebates- Washer/Dryer	$ 2,800	$ 7,425	$ 48,800	$ 10,000	$ 69,025
Total Expenses	$200,682	$681,738	$1,444,384	$186,619	$2,513,424

Energy Storage Systems (ESS) Commissioning

Agana Substation ESS Project (24 MW/ 6MWH)



PCS & Transformers



Grading, trenching, conduit installation, and PCS and transformer foundation

Energy Storage Systems (ESS) Commissioning

Talofofo Substation ESS Project (16MW/16MWH)



PCS

Grading, trenching, conduit installation, and PCS and transformer foundation



4. REVISED SCHEDULE FOR NEW POWER PLANT PROCUREMENT

No.	Activity	Duration (Days)	Cumulative Duration (Days)	Expected Completion
1	IFB Issued to Potential Bidders			10/1/2018
2	Pre-Bid Meeting with Bidders	30	30	11/5/2018
3	Site Visit	1	31	11/6/2018
4	Cut-Off Date for Receipt of Questions	1	32	12/19/2018
	STEP 2 - TECHNICAL PROPOSAL EVALUATION			
5	Bid Date - Envelope I and II with exception of Fixed Cap Charge submitted to GPA.	141	141	2/19/2019
6	Complete Evaluation of Technical Proposals & Notify Bidders	45	186	4/5/2019
7	Submittal of Price Proposal Deadline Fixed Capacity Charge (Envelope III)	179	179	3/29/2019
	STEP 3 - PRICE PROPOSAL EVALUATION			
8	Conduct Envelope II & III Public Bid Opening Meeting	14	200	4/19/2019
9	Complete Evaluation of Envelope II & III; Invite the First-Ranked Bidder to Clarification Meeting	14	214	5/3/2019
10	Conduct Clarification Meeting(s) with First-Ranked Bidder and other top-ranked Bidders as required and selection of the Selected Bidder.	28	242	5/31/2019
11	Complete Negotiations of ECA with the Selected Bidder.	70	312	8/9/2019
12	***GPA Rate Impact Study***			8/9/2019
13	***CCU Worksession***			8/19 Session
14	***CCU Meeting***			8/19 Meeting
15	***PUC Meeting***			9/30/2019
16	Obtain CCU and PUC approval	52	364	9/30/2019
17	Sign the ECA with the Selected Bidder.	1	365	10/1/2019
18	IPP achieves financial close and starts construction.	180	545	3/29/2020
19	Phase 1 Commercial Operation Date	600	1145	11/19/2021
20	Phase 2 Commercial Operation Date	300	1445	9/15/2022

5. **LEAC Update:** GPA has recommended that it will not petition for a change in the LEAC factor for the period of February 1, 2019 to July 31, 2019. The LEAC rate to **remain at $0.154242/kWh** effective for the period from February 1, 2019 thru July 31, 2019. Based on this status quo approach, an under-recovery of about **$5.0M** is anticipated by the end of the LEAC period on July 31, 2019. The PUC will be establishing the rate later this month after we have provided updated information.

6. **Status of GPWA SCADA Project:** The system will improve system dispatching and day to day coordination between GPA and GWA. The commissioning of the GPWA SCADA Project will be in March 2019. The integration of the GWA Ugum Plant SCADA into the new system is expected by late February.

7. **Rating Agencies:** On December 12, 2018, CCU/GPA/GEDA updated the rating agencies, Fitch and S&P. The updates were particularly important in light of the impact on the island from tax changes and the frequent storms that we have been experiencing. I believe our investment grade ratings remain firm and stable as we continue to work on ways to achieve an upgrade. **Last week Moody's upgraded our rating to stable from negative.** Early last year, Moody's downgraded GPA to negative outlook due to GovGuam financial outlook.

8. **Phase III Renewables Bid:** The bid opening date has been issued. The bid request is for about 40MW of solar PV renewables to be constructed on Navy leased land; 30-year lease of 164 acres of Navy property for 40 MW solar PV Plant. Technical Proposals are due April 12, 2019. Award is targeted for this summer.

9. **PITI 8 & 9 (MEC Units):** This month, GPA takes ownership of the Piti 8 & 9 Units. The PUC has approved GPA Docket 18-13, Petition to extend the Piti 8 & 9 Contract with Osaka Gas for an additional 5 years. GPA is now working with Osaka gas to implement needed capital investments in order to improve the reliability of the units and extend its life for the next 10 to 20 years.

10. **Apprenticeship Program:** The next cycle of twenty (20) apprentices all in the T&D area began with orientation on January 22nd. There were 314 applicants vying for the program with 100 applicants passing the exams and were interviewed in December 2018. Twenty out of the 100 were selected to begin their apprenticeship on January 22nd.

11. **PGR Contract Deposit:** A clause in the contract provided for arbitration which was triggered thru the district court. The decision of the arbitrators was that GPA was not damaged and therefore deposit retained as liquidated damages is to be returned. GPA has return the deposit. GPA is removing similar languages from future contracts.

12. **December Tour of Power Plants in Michigan:** The tour taken by the SPORD Manager, New Power Plant Project Manager and myself was very informative. We were able to see first hand what power plants similar to what may be offered on the ongoing bid looked like. Additionally, we were able to discuss what issues we need to be cognizant of as we evaluate the bids. The following shows the combined cycle plant in Holland, Michigan and the Wartsila plant in Milwaukee, Michigan. The General Managers of both public power utilities personally took us on the tours.

13. **Net Metering (NEM) Credit Adjustment:** CCU approved GPA filing a petition to the PUC to consider changes to the existing net metering credit. GPA filed with PUC for adjustment of net metering credits from retail to avoided cost with a Grandfather phase-out approach over 5 years to the GPA avoided cost credit. PUC has engaged its consultant Daymark to review the petition and work is on-going at this time. The following summarizes Net Metering Customers as of December 2018:

Net Metering Summary Ending December 2018:

Description:	Count	Kw
Active	**1,840**	**20,053**
Pending	19	241
Totals:	1,859	20,294

Service:	Count	KW	Kw/Customer
Residential	1,741	16,077	9.2
Others	99	3,976	40.2
Total:	1,840	20,053	10.9
% Residential	**94.6%**	**80.2%**	
Estimated 12 Months Revenue Impact:	**$3,791,657**		

14. **Streetlights Conversion to LED**

- Transition to LED (about 6,000 lights changed and 10,000 more to be replaced in FY 2019 & FY 2020)
- 3,750 Units totaling about $568K being awarded for delivery in 10 weeks. Balance of about 6,000 Units for changeout in FY 2020
- LED lights changeout may include monitoring capability so that real time determination of lights out is made. Subject to economic feasibility and technology improvement.
- Transition to LED will result in cost savings which could be use to add about 2,731 additional lights at todays cost (see cost summary which follows).
- Streetlight Requirement Policy Should be Established

June 2018 Billing Data:

Counts:	Type	250 Watts	150 Watts	Totals:
	HPS	1,765	7,947	9,712
	LED	779	5,708	6,487
		2,544	13,655	16,199
Cost:	**Type**	**250 Watts**	**150 Watts**	**Totals:**
	HPS	$79,592	$235,576	$315,168
	LED	$28,511	$133,940	$162,451
	Total:	$108,103	$369,516	$477,619
$/unit	**Type**	**250 Watts**	**150 Watts**	
	HPS	$45.09	$29.64	
	LED	$36.60	$23.47	
	Savings / Unit:	$8.50	$6.18	
	Monthly Savings			$41,882
	Annual Savings			$502,586

Balance for Changeout		250 Watts	150 Watts	Totals:
Remaining HPS Units		1,765	7,947	9,712
Estimated Material Cost		$353,177	$1,107,097	$1,460,273
Estimated Additional Monthly Savings		$14,993.91	$49,097.17	$64,091.07
Estimated Additional Annual Savings				**$769,092.88**
Material Payback Period (Years)				**1.9**
Potential Additional Village Streetlights				**2,731**

GPA YUTU SUPPORT

ManPower

33 Personnel
- Rick Quidachay, Asst T&D Mgr
- 11 Linemen
- 6 Operators
- 5 Engineers
- 2 Substation Electricians
- 1 Relay Technician
- 2 Generation Mechanics
- 2 Generation Electricians
- 2 Heavy Equipment Mechanics
- 1 Safety Officer

Equipment

- 4 Bucket Trucks
- 2 Vans
- 1 Light Cart
- 1 Flatbed
- 3 Utility Trucks

Materials

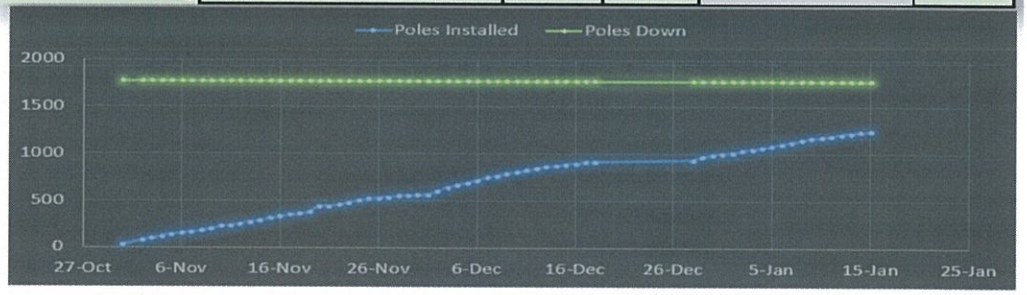
- 439 Power Poles
- 140,000 LF of Primary & Secondary Wire
- 92 Transformers
- 1,020 Crossarms
- Insulators, Connectors, Clamps, Nuts, Bolts

GPA CREWS - ENERGIZED CUSTOMERS

Date	No. of Meters	Total No. of Meters
1/8/2019	17	17
1/9/2019	62	79
1/10/2019	36	115
1/11/2019	14	129
1/12/2019	18	147
1/13/2019	40	187
1/14/2019	64	251
1/15/2019	37	288

Pole Installation Summary

	Poles (55')	Poles (45')	Poles (35')	Primary Wire (spans)	Secondary Wire (spans)	Service	Framing	XFMR
Assessment Damage	17	1544	211	5483	2353			318
Count		**1772**						
Repair Work	57	1069	114	1084	222	470	663	179
Completed		**1240**						
Remaining		**532**		**4399**	**2131**			**139**



5.1.2 Financials

Financials were not discussed.

5.1.3 Resolution 2019-01 Contract Extension with IP&E for Fuel Bulk Storage Facility

The 2-Year based period of the contract with IP&E for the Management, Operation, and Maintenance of the GPA Fuel Bulk Storage Facility under GPA-014-17 is set to expire on September 30, 2019, with three optional one-year extension.

The objective is to continue and exercise the first (1st) year extension of the contract commencing in October 01, 2019, to ensure uninterrupted, reliable operation of the facility for the supply of fuel to the GPA plants. The first (1st) year contract extension is estimated to cost about $859,329.00 for the required services under the contract (Exhibit A) commencing October 1, 2019 and expiring Sept. 30, 2020 and will be funded under the fuel budget. Other services will be funded through O&M, and some through CIP if it involves procurement of equipment, construction, modification and others.

Doc. No. 35GL-19-0185.*

It was announced that IP&E Guam LLC has been awarded the contract through a multi-step IFB process.

Comm. Limtiaco inquired how the awardees are awarded - was it mutual consent or solely GPA. GM Benavente said it was solely GPA. The Commissioner also asked about the scope of the contract and GM confirmed it is full scale maintenance. It was also clarified that GPA staff was never responsible for this type of service; it was always handled by a 3rd party.

Comm. Guthertz motioned to approve Resolution 2019-02 second by Comm. Limtiaco. There was no further discussion or objection and the motion passed 4 yes, 1 absent.

5.1.4 Resolution 2019-02 Authorizing Construction for Tumon Bay Lateral Conversion Project

The Tumon Bay Lateral Underground Conversion Project is designed to convert the existing overhead laterals along San Vitores Road to an underground system. The project will also upgrade the system to address voltage delivery issues. This project will provide an underground system that will remain intact in the event of a typhoon, consequently greatly minimizing restoration efforts for this area. The project was originally planned to install a primary and secondary underground system along 11 sites along San Vitores Road in Tumon. Based on available funding, the project will convert five sites (Fiesta Hotel Lateral, Dai Ichii Condo Site, Behind Pacific Bay Hotel, Behind DFS, and the Lotte and Nikko Hotel Areas).

The primary line will be placed underground and residential and commercial customers within the project area will be converted to an underground service through pad-mounted transformers.

Total Cost for the five sites $5,280,033

Tumon Lateral - Job Order 100114	Estimated Cost	Core Tech Bid Cost
Mobilization/Demobilization		**$ 1,106,341.00**
Permits		**$ 83,573.00**
Site 1, Fiesta Hotel	$ 371,367.00	**$ 403,149.00**
Site 2, Dai Ichii	$ 618,945.00	**$ 326,313.00**
Site 3, Cushing Zoo	$ 200,538.18	$ 553,748.00
Site 4, Behind Bank of Guam	$ 800,502.20	$ 672,179.00
Site 5, Behind San Vitores church	$ 470,398.20	$ 501,161.00
Site 6, Behind Acanta Mall	$ 264,083.20	$ 201,055.00
Site 7, Behind Pacific Bay Hotel	$ 577,682.00	**$ 341,829.00**
Site 8, Behind Tumon Sands	$ 1,171,869.20	$ 1,029,309.00
Site 9, Behind Park Arcade Building	$ 379,619.60	$ 527,479.00
Site 10, Behind DFS	$ 2,989,916.98	**$ 1,530,017.00**
Site 11, Nikko	$ 1,605,130.70	**$ 1,488,811.00**
TOTAL	**$ 9,450,052.26**	**$ 8,764,964.00**
Total Site for Sites 1,2,7,10, 11 and Mobilization and Permits ONLY	**$5,280,033.00**	

Time delivery to complete work is 12 months upon issuance of NTP and will be funded via GPA 2010 Revenue Bonds at the costs indicated here.

Doc. No. 35GL-19-0185.*

Current Budget:	$2,552,000
Reallocated Bond Funds:	$2,800,000
	$5,352,000

It was mentioned that Core Tech and Kinden were the only bidders

Comm. Guthertz motioned to approve Resolution 2019-02 second by Comm. Limtiaco. There was no further discussion or objection and the motion carried.

6. ANNOUNCEMENTS

6.1 Next CCU Meetings

The Chairman announced that the next meeting would be the GWA Work Session on February 21; GPA Work Session on February 26 and the regular monthly CCU meeting on February 26.

He called for a 5-minute recess before Executive Session; it was 6:10 p.m.

Executive Session began at 6:15 pm.

7. EXECUTIVE SESSION

7.1 Personnel Matters

This matter was discussed.

8. ADJOURNMENT

With no further business to bring before the Commission, the meeting was adjourned at 7:00 p.m.

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Attested:

JOSEPH T. DUENAS, Chairman

MICHAEL T. LIMTIACO Secretary

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

Regular Board Meeting
CCU Conference Room, Gloria B. Nelson Public Service Building
5:30 p.m., February 26, 2019

AGENDA

1. CALL TO ORDER

2. APPROVAL OF MINUTES

3. COMMUNICATIONS
   - 3.1 Public Comments (2 min. per person)

4. GPA
   - 4.1 New Business
   - 4.1.1 GM Report
   - 4.1.2 Financials
   - 4.1.3 Resolution 2019-03 Demand Side Management (DSM) Fundin g
   - 4.1.4 GPA Resolution 2019-04 / GWA Resolution 15-FY2019 Unified Holiday Personnel Management Policy fo r GPA&GWA

5. GWA
   - 5.1 New Business
   - 5.1.1 GM Report
   - 5.1.2 Financials
   - 5.1.3 Resolution 13-FY2019 Relative to New Bank Signatories for GWA
   - 5.1.4 Resolution 14-FY2019 Authorization to Re-establish Customer Refund Account with the Bank of Guam
   - 5.1.5 GWA Resolution 15-FY2019 / GPA Resolution 2019-04 Adoption and Implementation of a Unified Holiday Personnel Management Policy for GPA & GWA
   - 5.1.6 Resolution 16-FY2019 Authorizing the Ratification of Expenditures for Security Services with G4S and for the GWA to Seek the Approval of the Public Utilities Commission to Ratify Cost Exceeding One Million Dollar
   - 5.1.7 Resolution 17-FY2019 Relative to Amendment of the Assistant General Manager of Operations Classification Standards
   - 5.1.8 Resolution 18-FY2019 Approval of Policy on Timing and Issuance of Back Bills
   - 5.1.9 Resolution 19-FY2019 Approval of Funding Increase for the Baza Garden Conveyance and Pump Design

6. ANNOUNCEMENTS
   - 6.1 Next CCU Meetings: Mar 19 – GWA WS; Mar 21 – GPA WS; Mar 26 –CCU Mtg

7. EXECUTIVE SESSION
   - 7.1 Litigation Matter
   - 7.2 Personnel Matter

8. ADJOURNMENT

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

Regular Board Meeting
CCU Conference Room, Gloria B. Nelson Public Service Building
5:30 p.m., January 22, 2019

MINUTES

1. CALL TO ORDER

The Chairman called the CCU regular meeting of January 22, 2019 to order at 5:30 p.m. He said four (4) Commissioners were present; Comm. Sanchez was absent and excused. Others in attendance include:

Commissioners:

Joseph T. Duenas	CCU Chairman
Francis E. Santos	CCU Vice Chairman
Michael T. Limtiaco	CCU Secretary
Judith P. Guthertz	CCU Treasurer

Executive Mgmt.:

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

Management & Staff:

Paul Kemp	AGM Compliance & Safety / GWA
Ron Topasna	O&M Mgr, Water Treatment / GWA
Geigy Salayon	Utilities Service Mgr, Operations / GWA
Vincent Pangelinan	O&M Manager, Water Distribution / GWA
Vangie Lujan	GWA
Dave Fletcher	O&M Mgr. Wastewater Treatment / GWA
Lisa San Agustin	Utilities Services Administrator / GWA
Heidi Ballendorf	Communications / GWA
Patti Diego	Communications / GPA
Joyce Sayama	Mgmt. Analyst / GPA Ex. Office
Ann Borja-Gallarde	Mgmt. Analyst / GWA Ex. Office
Lou Sablan	Board Secretary / CCU

Guest:

Mark Miller	PUC

Sabina Perez	Senator
Angelica Perez	AM Insurance
Clynt Ridgell	Senator
Kurt Bilz	Brown & Caldwell
Jerry Johnson	Brown & Caldwell

2. APPROVAL OF MINUTES

The Minutes of November 27, 2018 and January 10, 2019 were presented for approval.

Comm. Guthertz motioned to approve the Minutes subject to verification and written correction; second by Comm. Limtiaco. There was no further discussion or objection and the motion carried.

3. COMMUNICATIONS

3.1 Public Comments - None

4. GWA

4.1 New Business

4.1.1 GM Report

GM Bordallo said there is no change on GM Report reported at the GWA work session with exception of a couple items - under operational issues, page 58-65 in particular, the summary of Typhoon Yutu recovery efforts in Saipan. He applauded GWA crew's efforts there. He updated that GWA did not send additional support and on pages 47 & 48 – he gave updates on CIP and SRF projects and changes to expenditures to the months of Nov/Dec 2018. A full copy of the GM report is available upon request.

Chairman Duenas asked - what grants are available this year and, if there was any effect from federal shutdown happening stateside. The GM responded that FY19 grants has been approved for $990k for GWA and so far all still looks good - no delays to speak of. He added that the situation is fluid and he will update the Commission as needed.

In closing the GM Bordallo distributed to the Commission hard copies of potential policy initiatives in respond to the Chairman's request via email. The Chairman added he asked both GM's to brief the Commission on initiatives / projects that are part of their respective masterplans so this Is not something new. GM Bordallo said that he may be bringing before the Commission which includes affordability initiatives for ratepayers. The chairman also mentioned broad policy issues that the Commission should be thinking about such as the one customer experience, like the holidays that we observe such as executive order holidays. The ones that are legislatively mandated are not the issue; the concern is the ones that are not planned / regularly observed such as the ones granted under executive order. The Commission wants the GM to know how to handle this via some kind of policy so we know how to handle them. There may be schedules already set on the dates that are spontaneously granted via executive order. Another one is the drug free workplace policy which includes alcohol abuse. The chairman said we need a better policy. GM Bordallo said he is also thinking of drafting a formal policy for the purchase of navy water such as a bulk water rate / purchase. It is difficult to try to negotiate any discussion relative to reduction without a formal written policy. Comm. Guthertz commented that the agencies also need to consider a policy about the use of medicinal marijuana. Comm. Limtiaco asked if heavy equipment drivers are required to go

through testing – GM Bordallo confirmed that GPA's is employee wide and GWA said it's upon entry. It was mentioned that the testing for GWA is DOA and GPA's s 3rd party testing. The Commission said that this is should be the same for GPA and GWA. Comm. Santos asked the GM's to do a timeline and not leave it open ended. He also asked the AGMA's to help work on the holiday schedule so everyone knows what to do.

4.1.2 Financials

CFO Greg Cruz said there is no addition to the financial report presented at the GWA work session and there was no further discussion relative to financials.

4.1.3 Resolution 11-FY2019 Change Order to Island Wide Well Site Rehab Project W15-004-EPA

The objective of the requested increase in funding is to have funds available to negotiate and execute a final change order that encompasses all additional work items necessary for the final project completion. Items to be addressed in the final change may include but are not limited to the following items:

- Required Changes to Programmable Logic Controller (PLC) configuration,
- Replacement and relocation for electrical handholes to comply with GPA requirements,
- Reimbursement for GPA power invoices for operation of the wells following substantial completion,
- Replacement of components determined necessary for proper operation of the chlorination system,
- Other potential issues regarding system start-up and troubleshooting

This project is located at Groundwater Wells within the villages of Dededo, and Mangilao. Construction activities will be limited to the well sites.

The original contract value for this project is Four Million Six Hundred Eighty-Nine Thousand Eight Hundred Eighty-Eight Dollars ($4,689,888.00), plus a ten percent (10%) contingency of Four Hundred Sixty-Eight Thousand Nine Hundred Eighty-Eight Dollars and Eighty Cents ($468,988.80).

With eight (8) previously approved changed orders in the amount of One Million Four Hundred Sixty-Eight Thousand Three Hundred Fifty-Three Dollars and Nineteen Cents ($1,468,353.19), the current total contract value is Six Million One Hundred Fifty-Eight Thousand Two Hundred Forty-One Dollars and Nineteen Cents ($6,158,241.19);

This additional funding request of Two Hundred Thirty Thousand Dollars ($230,000.00) will bring the total authorized funding amount to Six Million Four Hundred Six Thousand Twenty-Three Dollars and Eighty Cents ($6,406,023.80).

The project will be completed in February 2019 and funding will be from USEPA Grant and, if necessary, revenue funds and GWA Bond Funds applicable to the project.

Comm. Guthertz motioned to approve Resolution11-FY2019, second by Comm. Limtiaco; there was no further discussion or objection and the motion passed.

4.1.4 Resolution 12-FY2019 Change Orders to DesignServContr for Northern District Waste Water Treatment Plant Upgrade to Secondary Treatment

GWA management has requested additional survey and design services under Amendment 4 to the Contract for Design Services for the Upgrade to the Northern District Wastewater Treatment Plant to

Secondary Treatment. The additional work is for the design of a new waterline between the Route 3 and NDWWTP to convey potable water to meet the increased demands of both the existing plant and the new treatment processes required for the upgrade to secondary treatment. The design of the waterline is necessary, as the existing potable water supply for NDWWTP is not adequate to meet the demands of the new treatment processes. The design and construction of the waterline must be completed prior to December 31, 2021 to ensure that the NDWWTP upgrade is fully functional.

GWA management has also requested additional design services under Amendment 5 to the Contract for Design Services to prepare design plans and specifications for alternative, deductive bid items for the NDWWTP Bid Documents. If construction bids are greater than available Office of Economic Adjustment grant funds, the deductive bid method will be implemented in order to contain the construction bids within the available funding limits. The design work for the deductive bids must be completed prior to mid-March 2019.

The total cost is $122,678.39 (amendment 4 - $59,757.33) and (Amendment -: $62,921.06). GWA Management is seeking approval of an additional $300,000.00, inclusive of the $122,678.39 for amendments 4 and 5, and the balance for any change orders that may arise during the remainder of the project. The design services will be completed before December 31. 2021 and will be funded from the Office of Economic Adjustment General Assistance (OEA) Grant OCON 676-16-02

The Chairman added that the OEA Grants have a ceiling of $173.9M for all the projects.

Comm. Guthertz motioned to approve Resolution 12-FY2019 second by Comm. Limtiaco; there was no further discussion or objection and the motion carried.

5. GPA

5.1 New Business

5.1.1 GM Report

GM Benavente reported on Saipan support saying he spent the weekend there. The GPA team is good and are really working hard to finish the restoration. He is ready to send the last $500k of materials inventory that they need and said he estimates to bring the GPA team home around 2/17. He also said that CUC is asking to help them some more but that this request it is different issue and not part of the Yutu recovery. FEMA did give them funds for pole hardening. Comm. Limtiaco asked if the assets will also be returning around the same time and the GM said yes that is the plan.

He also stated relative to the policy request by CCU the GM said he will come back by Feb meeting for the holiday matter for sure and will work on a timeline for completion as recommended by Comm. Santos. Others he mentioned include renewable portfolio, new power plant, liquified natural gas, upgrading of transmission system with renewables, long term conversion underground, new revenue sources i.e. electric vehicles to include buses, human resource plan because many employees are of retirement age, customer service benchmarks and tracking. These are just some key matters and management will begin to gather the data and recommendation for presentation to the Commission.

The Chairman also mentioned the plan to bring salaries up to the 50th percentile and what this means in terms of costs. There was discussion on renewables and the utilization of land and economies of scale. He said all these policy initiatives feeds off the Integrated Resource Plan

GM Benavente proceeded to give his usual GM Report Summary.

1. **Generation System:** The following summarizes the generation forecast for February 2019:
   Projected Available Capacity: 322 MW
   Projected Demand: 220 MW
   Anticipated Reserve Margin: 102 MW
   - MEC 9 scheduled for overhaul Feb. 20th to March 5th.
   - Demand expected to be lower than February 2018
2. **New 40 MW Energy Storage Systems:** The completion of the 16 MW and 24 MW Energy Storage battery systems are now scheduled for the end of March 2019. The project will improve reliability by mitigating most of the outages due to the tripping of generators and the solar PV farm intermittency (see following pages) related outages by over 70%.
3. **Demand Side Management (DSM):** DSM Program reduces peak demand and reduces LEAC cost for all customers at a one time fixed rebate. GPA needs to add funding to DSM because the current funding of $2.9M will be exhausted by next month.

DSM PROGRAM SUMMARY

Description	FY16	FY17	FY18	FY19 thru 10/31/18*	Total to Date
Regular/OT Pay	$ 11,349	$ 22,256	$ 26,122	$ 12,379	$ 72,106
Other Contractual	$ 28,279	$ 85,550	$ 116,978	$ 3,025	$ 233,831
Bank Fees	$ 155	$ 1,032	$ 1,085	$ 65	$ 2,337
Paid Rebates-Split AC	$ 154,700	$ 557,275	$ 1,247,000	$ 161,150	$ 2,120,125
Paid Rebates- Central AC	$ 3,400	$ 8,200	$ 4,400	$ -	$ 16,000
Paid Rebates- Washer/Dryer	$ 2,800	$ 7,425	$ 48,800	$ 10,000	$ 69,025
Total Expenses	$200,682	$681,738	$1,444,384	$186,619	$2,513,424

Energy Storage Systems (ESS) Commissioning

Agana Substation ESS Project (24 MW/ 6MWH)



PCS & Transformers



Grading, trenching, conduit installation, and PCS and transformer foundation

Energy Storage Systems (ESS) Commissioning

Talofofo Substation ESS Project (16MW/16MWH)



PCS

Grading, trenching, conduit installation, and PCS and transformer foundation



4. REVISED SCHEDULE FOR NEW POWER PLANT PROCUREMENT

No.	Activity	Duration (Days)	Cumulative Duration (Days)	Expected Completion
1	IFB Issued to Potential Bidders			10/1/2018
2	Pre-Bid Meeting with Bidders	30	30	11/5/2018
3	Site Visit	1	31	11/6/2018
4	Cut-Off Date for Receipt of Questions	1	32	12/19/2018
	STEP 2 - TECHNICAL PROPOSAL EVALUATION			
5	Bid Date - Envelope I and II with exception of Fixed Cap Charge submitted to GPA.	141	141	2/19/2019
6	Complete Evaluation of Technical Proposals & Notify Bidders	45	186	4/5/2019
7	Submittal of Price Proposal Deadline Fixed Capacity Charge (Envelope III)	179	179	3/29/2019
	STEP 3 - PRICE PROPOSAL EVALUATION			
8	Conduct Envelope II & III Public Bid Opening Meeting	14	200	4/19/2019
9	Complete Evaluation of Envelope II & III; Invite the First-Ranked Bidder to Clarification Meeting	14	214	5/3/2019
10	Conduct Clarification Meeting(s) with First-Ranked Bidder and other top-ranked Bidders as required and selection of the Selected Bidder.	28	242	5/31/2019
11	Complete Negotiations of ECA with the Selected Bidder.	70	312	8/9/2019
12	***GPA Rate Impact Study***			8/9/2019
13	***CCU Worksession***			8/19 Session
14	***CCU Meeting***			8/19 Meeting
15	***PUC Meeting***			9/30/2019
16	Obtain CCU and PUC approval	52	364	9/30/2019
17	Sign the ECA with the Selected Bidder.	1	365	10/1/2019
18	IPP achieves financial close and starts construction.	180	545	3/29/2020
19	Phase 1 Commercial Operation Date	600	1145	11/19/2021
20	Phase 2 Commercial Operation Date	300	1445	9/15/2022

5. **LEAC Update:** GPA has recommended that it will not petition for a change in the LEAC factor for the period of February 1, 2019 to July 31, 2019. The LEAC rate to **remain at $0.154242/kWh** effective for the period from February 1, 2019 thru July 31, 2019. Based on this status quo approach, an under-recovery of about **$5.0M** is anticipated by the end of the LEAC period on July 31, 2019. The PUC will be establishing the rate later this month after we have provided updated information.

6. **Status of GPWA SCADA Project**: The system will improve system dispatching and day to day coordination between GPA and GWA. The commissioning of the GPWA SCADA Project will be in March 2019. The integration of the GWA Ugum Plant SCADA into the new system is expected by late February.

7. **Rating Agencies:** On December 12, 2018, CCU/GPA/GEDA updated the rating agencies, Fitch and S&P. The updates were particularly important in light of the impact on the island from tax changes and the frequent storms that we have been experiencing. I believe our investment grade ratings remain firm and stable as we continue to work on ways to achieve an upgrade. **Last week Moody's upgraded our rating to stable from negative**. Early last year, Moody's downgraded GPA to negative outlook due to GovGuam financial outlook.

8. **Phase III Renewables Bid**: The bid opening date has been issued. The bid request is for about 40MW of solar PV renewables to be constructed on Navy leased land; 30-year lease of 164 acres of Navy property for 40 MW solar PV Plant. Technical Proposals are due April 12, 2019. Award is targeted for this summer.

9. **PITI 8 & 9 (MEC Units):** This month, GPA takes ownership of the Piti 8 & 9 Units. The PUC has approved GPA Docket 18-13, Petition to extend the Piti 8 & 9 Contract with Osaka Gas for an additional 5 years. GPA is now working with Osaka gas to implement needed capital investments in order to improve the reliability of the units and extend its life for the next 10 to 20 years.

10. **Apprenticeship Program:** The next cycle of twenty (20) apprentices all in the T&D area began with orientation on January 22nd. There were 314 applicants vying for the program with 100 applicants passing the exams and were interviewed in December 2018. Twenty out of the 100 were selected to begin their apprenticeship on January 22nd.

11. **PGR Contract Deposit**: A clause in the contract provided for arbitration which was triggered thru the district court. The decision of the arbitrators was that GPA was not damaged and therefore deposit retained as liquidated damages is to be returned. GPA has return the deposit. GPA is removing similar languages from future contracts.

12. **December Tour of Power Plants in Michigan**: The tour taken by the SPORD Manager, New Power Plant Project Manager and myself was very informative. We were able to see first hand what power plants similar to what may be offered on the ongoing bid looked like. Additionally, we were able to discuss what issues we need to be cognizant of as we evaluate the bids. The following shows the combined cycle plant in Holland, Michigan and the Wartsila plant in Milwaukee, Michigan. The General Managers of both public power utilities personally took us on the tours.

13. **Net Metering (NEM) Credit Adjustment:** CCU approved GPA filing a petition to the PUC to consider changes to the existing net metering credit. GPA filed with PUC for adjustment of net metering credits from retail to avoided cost with a Grandfather phase-out approach over 5 years to the GPA avoided cost credit. PUC has engaged its consultant Daymark to review the petition and work is on-going at this time. The following summarizes Net Metering Customers as of December 2018:

Net Metering Summary Ending December 2018:

Description:	Count	Kw
Active	**1,840**	**20,053**
Pending	19	241
Totals:	1,859	20,294

Service:	Count	KW	Kw/Customer
Residential	1,741	16,077	9.2
Others	99	3,976	40.2
Total:	1,840	20,053	10.9
% Residential	**94.6%**	**80.2%**	
Estimated 12 Months Revenue Impact:	**$3,791,657**		

14. **Streetlights Conversion to LED**

- Transition to LED (about 6,000 lights changed and 10,000 more to be replaced in FY 2019 & FY 2020)
- 3,750 Units totaling about $568K being awarded for delivery in 10 weeks. Balance of about 6,000 Units for changeout in FY 2020
- LED lights changeout may include monitoring capability so that real time determination of lights out is made. Subject to economic feasibility and technology improvement.
- Transition to LED will result in cost savings which could be use to add about 2,731 additional lights at todays cost (see cost summary which follows).
- Streetlight Requirement Policy Should be Established

June 2018 Billing Data:

Counts:	**Type**	**250 Watts**	**150 Watts**	**Totals:**
	HPS	1,765	7,947	9,712
	LED	779	5,708	6,487
		2,544	13,655	16,199
Cost:	**Type**	**250 Watts**	**150 Watts**	**Totals:**
	HPS	$79,592	$235,576	$315,168
	LED	$28,511	$133,940	$162,451
	Total:	$108,103	$369,516	$477,619
$/unit	**Type**	**250 Watts**	**150 Watts**	
	HPS	$45.09	$29.64	
	LED	$36.60	$23.47	
	Savings / Unit:	$8.50	$6.18	
	Monthly Savings			$41,882
	Annual Savings			$502,586

Balance for Changeout		**250 Watts**	**150 Watts**	**Totals:**
Remaining HPS Units		1,765	7,947	9,712
Estimated Material Cost		$353,177	$1,107,097	$1,460,273
Estimated Additional Monthly Savings		$14,993.91	$49,097.17	$64,091.07
Estimated Additional Annual Savings				**$769,092.88**
Material Payback Period (Years)				**1.9**
Potential Additional Village Streetlights				**2,731**

GPA YUTU SUPPORT

ManPower

33 Personnel
- Rick Quidachay, Asst T&D Mgr
- 11 Linemen
- 6 Operators
- 5 Engineers
- 2 Substation Electricians
- 1 Relay Technician
- 2 Generation Mechanics
- 2 Generation Electricians
- 2 Heavy Equipment Mechanics
- 1 Safety Officer

Equipment

- 4 Bucket Trucks
- 2 Vans
- 1 Light Cart
- 1 Flatbed
- 3 Utility Trucks

Materials

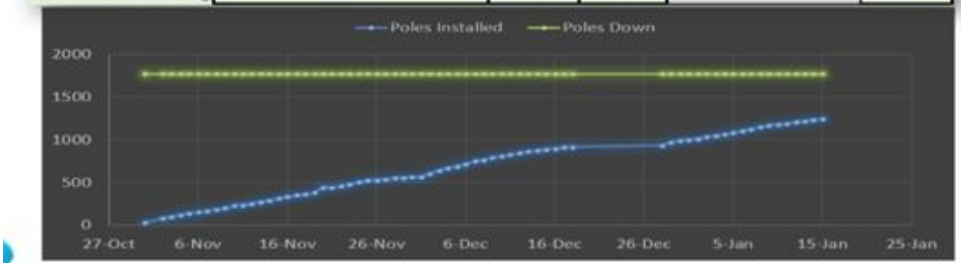
- 439 Power Poles
- 140,000 LF of Primary & Secondary Wire
- 92 Transformers
- 1,020 Crossarms
- Insulators, Connectors, Clamps, Nuts, Bolts

GPA CREWS - ENERGIZED CUSTOMERS

Date	No. of Meters	Total No. of Meters
1/8/2019	17	17
1/9/2019	62	79
1/10/2019	36	115
1/11/2019	14	129
1/12/2019	18	147
1/13/2019	40	187
1/14/2019	64	251
1/15/2019	37	288

Pole Installation Summary

	Poles (55')	Poles (45')	Poles (35')	Primary Wire (spans)	Secondary Wire (spans)	Service	Framing	XFMR
Assessment Damage Count	17	1544	211	5483	2353			318
		1772						
Repair Work Completed	57	1069	114	1084	222	470	663	179
		1240						
Remaining		**532**		**4399**	**2131**			**139**



5.1.2 Financials

Financials were not discussed.

5.1.3 Resolution 2019-01 Contract Extension with IP&E for Fuel Bulk Storage Facility

The 2-Year based period of the contract with IP&E for the Management, Operation, and Maintenance of the GPA Fuel Bulk Storage Facility under GPA-014-17 is set to expire on September 30, 2019, with three optional one-year extension.

The objective is to continue and exercise the first (1st) year extension of the contract commencing in October 01, 2019, to ensure uninterrupted, reliable operation of the facility for the supply of fuel to the GPA plants. The first (1st) year contract extension is estimated to cost about $859,329.00 for the required services under the contract (Exhibit A) commencing October 1, 2019 and expiring Sept. 30, 2020 and will be funded under the fuel budget. Other services will be funded through O&M, and some through CIP if it involves procurement of equipment, construction, modification and others.

It was announced that IP&E Guam LLC has been awarded the contract through a multi-step IFB process.

Comm. Limtiaco inquired how the awardees are awarded - was it mutual consent or solely GPA. GM Benavente said it was solely GPA. The Commissioner also asked about the scope of the contract and GM confirmed it is full scale maintenance. It was also clarified that GPA staff was never responsible for this type of service; it was always handled by a 3rd party.

Comm. Guthertz motioned to approve Resolution 2019-02 second by Comm. Limtiaco. There was no further discussion or objection and the motion passed 4 yes, 1 absent.

5.1.4 Resolution 2019-02 Authorizing Construction for Tumon Bay Lateral Conversion Project

The Tumon Bay Lateral Underground Conversion Project is designed to convert the existing overhead laterals along San Vitores Road to an underground system. The project will also upgrade the system to address voltage delivery issues. This project will provide an underground system that will remain intact in the event of a typhoon, consequently greatly minimizing restoration efforts for this area. The project was originally planned to install a primary and secondary underground system along 11 sites along San Vitores Road in Tumon. Based on available funding, the project will convert five sites (Fiesta Hotel Lateral, Dai Ichii Condo Site, Behind Pacific Bay Hotel, Behind DFS, and the Lotte and Nikko Hotel Areas).

The primary line will be placed underground and residential and commercial customers within the project area will be converted to an underground service through pad-mounted transformers.

Total Cost for the five sites $5,280,033

Tumon Lateral - Job Order 100114	Estimated Cost	Core Tech Bid Cost
Mobilization/Demobilization		**$ 1,106,341.00**
Permits		**$ 83,573.00**
Site 1, Fiesta Hotel	$ 371,367.00	**$ 403,149.00**
Site 2, Dai Ichii	$ 618,945.00	**$ 326,313.00**
Site 3, Cushing Zoo	$ 200,538.18	$ 553,748.00
Site 4, Behind Bank of Guam	$ 800,502.20	$ 672,179.00
Site 5, Behind San Vitores church	$ 470,398.20	$ 501,161.00
Site 6, Behind Acanta Mall	$ 264,083.20	$ 201,055.00
Site 7, Behind Pacific Bay Hotel	$ 577,682.00	**$ 341,829.00**
Site 8, Behind Tumon Sands	$ 1,171,869.20	$ 1,029,309.00
Site 9, Behind Park Arcade Building	$ 379,619.60	$ 527,479.00
Site 10, Behind DFS	$ 2,989,916.98	**$ 1,530,017.00**
Site 11, Nikko	$ 1,605,130.70	**$ 1,488,811.00**
TOTAL	**$ 9,450,052.26**	**$ 8,764,964.00**
Total Site for Sites 1,2,7,10, 11 and Mobilization and Permits ONLY	**$5,280,033.00**	

Time delivery to complete work is 12 months upon issuance of NTP and will be funded via GPA 2010 Revenue Bonds at the costs indicated here.

Current Budget:	$2,552,000
Reallocated Bond Funds:	$2,800,000
	$5,352,000

It was mentioned that Core Tech and Kinden were the only bidders

Comm. Guthertz motioned to approve Resolution 2019-02 second by Comm. Limtiaco. There was no further discussion or objection and the motion carried.

6. ANNOUNCEMENTS

6.1 Next CCU Meetings

The Chairman announced that the next meeting would be the GWA Work Session on February 21; GPA Work Session on February 26 and the regular monthly CCU meeting on February 26.

He called for a 5-minute recess before Executive Session; it was 6:10 p.m.

Executive Session began at 6:15 pm.

7. EXECUTIVE SESSION

7.1 Personnel Matters

This matter was discussed.

8. ADJOURNMENT

With no further business to bring before the Commission, the meeting was adjourned at 7:00 p.m.

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Attested:

_____	_____
JOSEPH T. DUENAS, Chairman	MICHAEL T. LIMTIACO Secretary

GENERAL MANAGER'S REPORT

FEBRUARY 2019

1. **Generation System:** The following summarizes the generation forecast for March 2019:
   Projected Available Capacity: 335 MW
   Projected Demand: 235 MW
   Anticipated Reserve Margin: 100 MW
   - MEC 9 scheduled for overhaul Feb. 20th to March 5th.
   - Demand expected to be lower than March 2018 (244MW)

2. **Demand Side Management (DSM)** – DSM Program reduces a customer's consumption without impacting their quality of life. Additionally, peak demand and LEAC cost are reduced for all customers. GPA needs to add funding to DSM because the current funding of $2.9M is nearly exhausted.

DSM PROGRAM SUMMARY

Description	FY16	FY17	FY18	FY19 thru 1/31/19*	Total to Date
Regular/OT Pay	$11,348.80	$22,256.00	$26,121.83	$14,397.99	$74,124.62
Other Contractual	$28,278.50	$85,550.05	$116,977.50	$3,025.00	$233,831.05
Bank Fees	$ 155.00	$ 1,032.06	$ 1,085.08	$ 80.00	$2,352.14
Paid Rebates-Split AC	$ 154,700.00	$ 557,275.00	$1,247,000.00	$ 318,900.00	$2,277,875.00
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	$ 48,800.00	$ 27,000.00	$86,025.00
Total Expenses	**$200,682.30**	**$681,738.11**	**$1,444,384.41**	**$363,402.99**	**$2,690,207.81**

3. **LEAC Update :** The Public Utilities Commission approved at its January meeting for the LEAC rate to remain at **$0.154242/kWh** effective for the period from February 1, 2019 thru July 31, 2019. The next LEAC filing is due June 15, 2019 for the period August 2019 thru January 2020.

4. **Renewables Portfolio Standard:** We will present at the March CCU meeting a summary of renewables alternatives for CCU consideration towards increasing GPA's energy mix portfolio to 50% renewable energy. A critical factor in this decision is the type and cost of the new power plant since it delineates how much more renewables the system could reliably accept and how much more investments can we make in the grid without increasing rates. We hope to have an updated draft CCU policy for your consideration this summer.

5. **10-Year Capital Improvement Plan:** The executive team is working to prepare this plan for consideration at the August 2019 CCU meeting. We need to determine what are the critical infrastructure needs over the next ten years and how could we fund them without increasing rates. This plan would at minimum address the construction of the new power plant, the rehabilitation of existing generating units as reserves, the grid upgrades necessary to achieve 50% renewable energy, and the conversion of the grid to underground.

6. **Workforce Sustainability Plan:** The following table shows the retirement eligibility demographics for GPA company wide. Fifty-Seven (57%) of the workforce are eligible for retirement within the next ten (10) years. We will provide the CCU with a summary of alternatives and potential programs we would like to implement in order to mitigate this significant issue and to achieve a sustainable workforce. We are targeting the April 2019 CCU meeting to present management findings and recommendations for a CCU policy consideration. This policy will be important as we prepare our Fiscal Year 2020 budget.

Workforce Retirement Eligibility Summary:

Sections:---------->	Finance	Customer Service	Engineering	SPORD	T&D	Generations	Others	Totals
Retirement Plans:								
Employee Count	**40**	**34**	**31**	**9**	**108**	**127**	**98**	**447**
Eligible at 30 years Service								
DB 30 Plus Years of Service	3	1	2	1	5	6	3	21
DB 25 Plus Years of Service	7	5	6	2	19	29	13	81
Sub-Total:	**10**	**6**	**8**	**3**	**24**	**35**	**16**	**102**
Eligible at 62 Years of Age								
DB1.75 60 Plus Age Group	2	3	2	0	1	20	5	33
DB1.75 55-59 Age Group	7	2	2	1	7	14	11	44
Sub-Total:	**9**	**5**	**4**	**1**	**8**	**34**	**16**	**77**
Eligible at 55 Years of Age								
DC 50 Plus Age Group	4	4	2	0	9	15	13	47
DC 45 Plus Age Group	2	2	0	4	9	12		29
Sub-Total:	**6**	**6**	**2**	**4**	**18**	**27**	**13**	**76**
Grand Total	**25**	**17**	**14**	**8**	**50**	**96**	**45**	**255**
% Eligible for Retirement within 10 years	**62.5%**	**50.0%**	**45.2%**	**88.9%**	**46.3%**	**75.6%**	**45.9%**	**57.0%**

Eligible Retirement Breakdown:	Count	%
DB Plan	102	40.0%
DB1.75	77	30.2%
DC	76	29.8%
Totals:	255	

7. **GPUC Dockets:** The petition for changes to the Net Metering Credit is currently under review. GPA has had conferences calls with and has responded to request for information by the PUC consultant.

8. **New Power Plant**: The deadline for receipt of technical proposals has been extended to March 21, 2019. Price proposals for approved proposals are due by April 29th. Price opening is now targeted for May 20, 2019.

9. **Saipan Yutu Recovery Assistance:** Saipan is now substantially recovered. GPA is now able to bring home employees and equipment. All employees will be back by this Saturday, February 23rd. A wrap-up presentation summarizing our efforts is attached. We will like to thank CNMI Governor Torres, Lt. Governor Palacios, CNMI Senate and Legislature, Mayors, CUC Board, CUC Executive Director Gary Camacho, employees of CUC and the Community of the Northern Marianas Islands for their hospitality and acknowledgement of the excellent efforts of the GPA teams. Our GPA teams worked tirelessly over the past four months assisting our brothers and sisters of the Marianas recover from the devastation of Yutu.

   We thank our GPA employees and their families for their hard work, dedication and sacrifices and our ratepayers for their patience and understanding for any inconveniences during the recovery period as we assisted in Saipan's recovery.

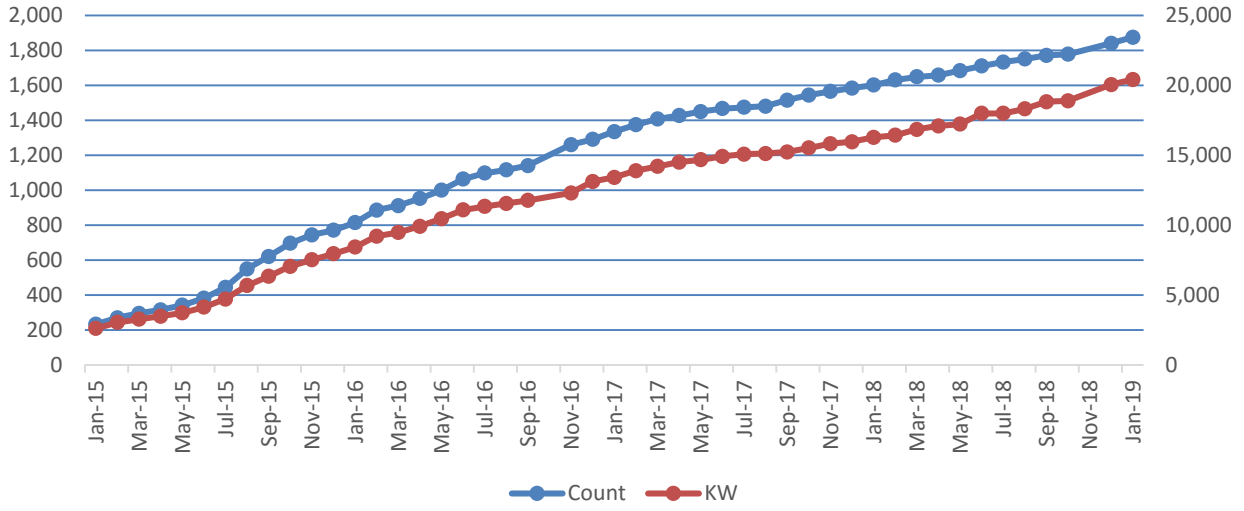
10. **Net Metering (NEM) Credit Adjustment:** CCU approved GPA filing a petition to the PUC to consider changes to the existing net metering credit. GPA filed with PUC for adjustment of net metering credits from retail to avoided cost with a Grandfather phase-out approach over 5 years to the GPA avoided cost credit. PUC has engaged its consultant Daymark to review the petition and work is on-going at this time. The following summarizes Net Metering Customers as of January 2019:

Net Metering Summary Ending January 2019:

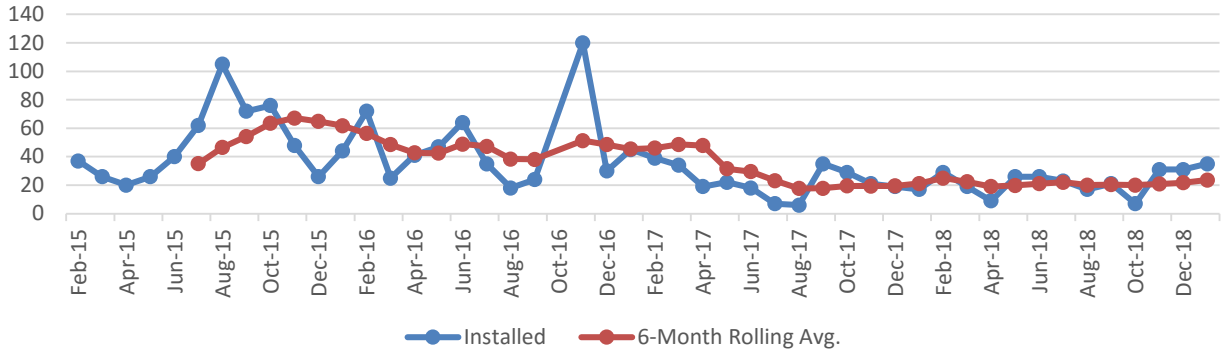
Description:	**Count**	**Kw**
Active	**1,875**	**20,415**
Pending	19	241
Totals:	1,894	20,656

Service:	**Count**	**KW**	**Kw/Customer**
Residential	1,774	16,077	9.1
Others	101	4,338	43.0
Total:	1,875	20,415	10.9
% Residential	**94.6%**	**78.8%**	
Estimated 12 Months Revenue Impact:	**$3,248,217**		

NEM Growth



NEM Installed Monthly



11. **Briefings:** A briefing on GPA was conducted for Speaker Tina Muna Barnes on Wednesday, January 30, 2019. The briefing for the Governor and Lt. Governor has been scheduled for March 15th . A briefing to the Legislative Oversight Chairman, Senator Clynt Ridgell is being scheduled with the Senator's office.

12. **GPWA Tumon Office Renovation:** The notice to proceed for design services has been issued to Architect Andy Cristobal with a completion date of July 30, 2019. We plan to budget for the renovation in FY2020 so that it could be completed by next year. The Tumon GPWA Customer Service Center has the most customer traffic of all our service centers. The following two slides consist of the preliminary schedule and the initial layout of the center.

    The Disaster Recovery Center (DRO) is not included within this scope of work. The team is rethinking the location which may instead be best to place at the Dededo T&D compound. The team has determined that there isn't adequate space in Tumon. We would have to build a new building to accommodate DRO and a SCADA remote site. We plan to engage an engineering firm to design the project this fiscal year.

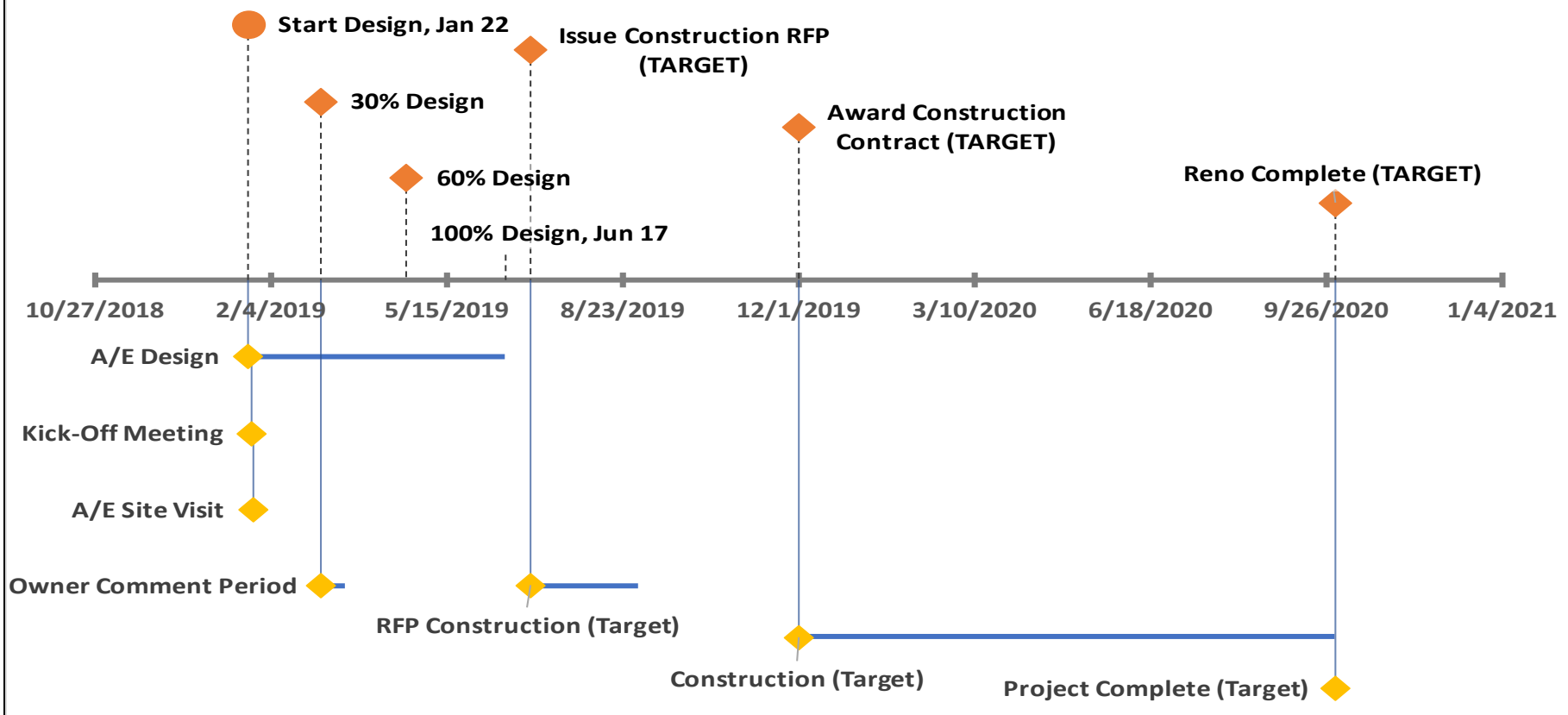
13. **GPA's Vendor Outreach**: GPA Procurement will hold its **First Annual Vendor Fair** to expand prospective vendor and supplier awareness of GPA's potential business opportunities and procurement process, and allow GPA to expand its prospective vendor/supplier listing. This event will promote transparency and accountability. The Vendor Fair will be held on Thursday & Friday, March 21 & 22 from 9 am to 4 pm at the Procurement Multi-Purpose Room.

UPPER TUMON CUSTOMER SERVICE LOBBY RENOVATION

9

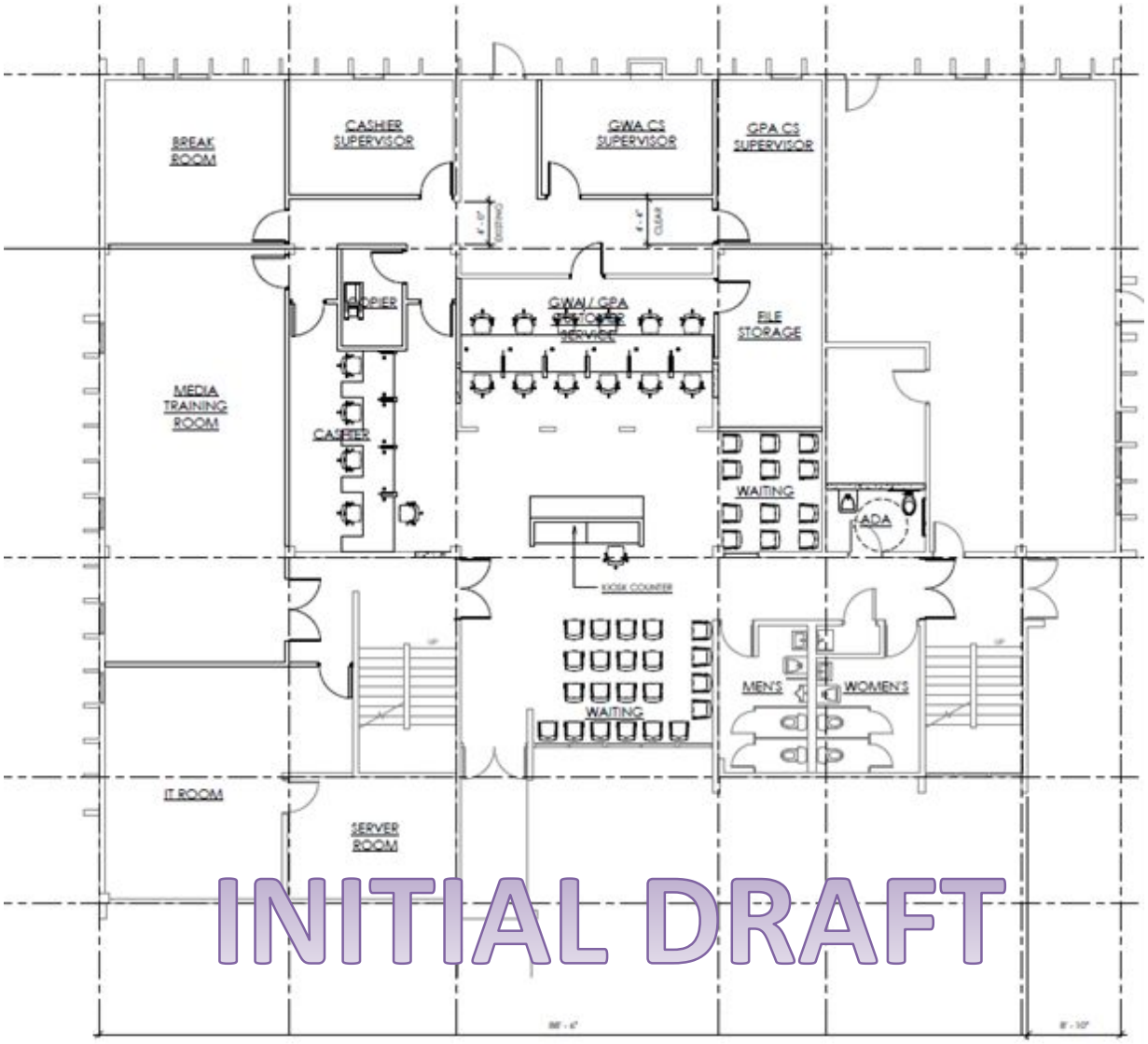
PROJECT:	Phase I: DESIGN - Upper Tumon Renovation, Customer Lobby (1st Fl)	STATUS:	STARTED/ ON SCHEDULE
OWNER:	GPA Engineering		
LEAD:	Manny Minas (GPA) & Barbara Cruz (GWA)	REPORT DATE:	2/18/2019

NOTES:
1. 2/15/19 - GPWA team reviewed as-built, demolition, and initial design with Architect Cristobal.
2. Submitted verbal comments, including relocation of Cash Mgmt (security reasons), CS expansion, & addition of nursing room.
3. Owners comments due 2/19/19.
4. Next meeting: 2/20/19.



Upper Tumon Renovation: Customer Lobby (1st Fl)

UPPER TUMON CUSTOMER SERVICE LOBBY RENOVATION



1 GROUND FLOOR PLAN - NEW

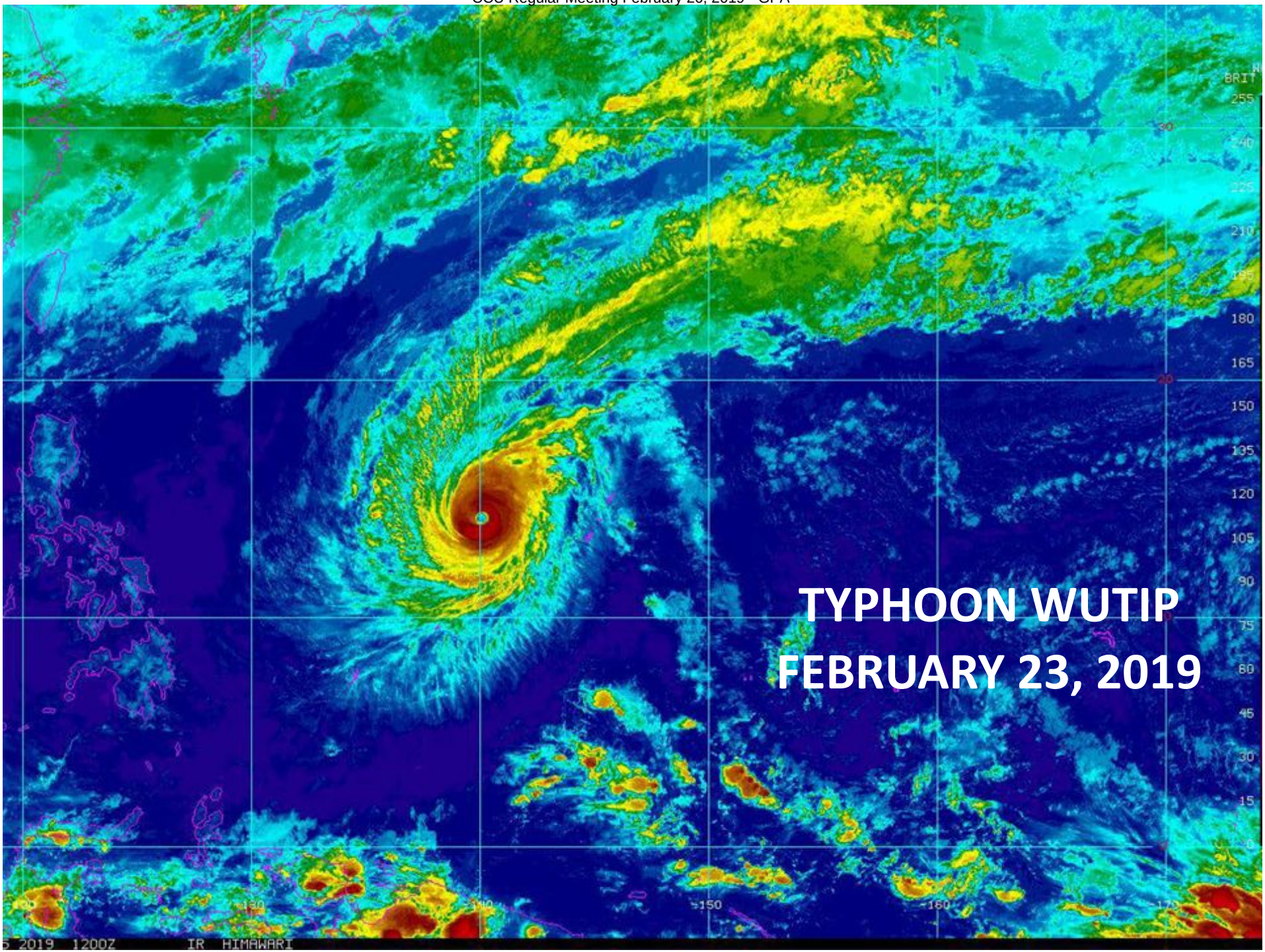
A/E SCOPE OF WORK:

- Redesigned and expanded Customer Service & Cash Management areas
- Upgraded IT area
- Expansion of restrooms
- Inclusion of training room, nursing room, etc.
- Roof repair (leak)
- As-Built Drawings

Project Leaders:
Manny Minas, GPA
Barbara Cruz, GWA

ADDITIONAL INFORMATION TYPHOON WUTIP

February 23, 2019


TYPHOON WUTIP
FEBRUARY 23, 2019
IR HIMAWARI

TYPHOON WUTIP

19-FEB 2019 Tuesday

1:00 p.m. Tropical Disturbance expected to pass near the Marianas, south of Guam

Begin pre- & post-storm preparations

20-FEB 2019 Wednesday

5:30 a.m. Now Tropical Depression 02W

8:30 a.m. Now Tropical Storm Wutip

21-FEB 2019 Thursday

8:00 a.m. COR 3 declared. Damaging winds expected. CPA late Sat / early Sun

5:00 p.m. Now Typhoon

Storm Prep Work Order Issued

Internal Pre-Storm Meeting

22-FEB 2019 Friday

1:00 p.m. Regular GovGuam operations cease

4:00 p.m. COR 2 declared

Business services continue through 4 p.m.

Assets secured

GWA sites transferred to generator power

23-FEB 2019 Saturday

12:00 p.m. COR 1 declared. CPA 7-11 p.m.

4:30 p.m. Onset of 39+ mph winds CPA 6 a.m.

8:00 p.m. Actual CPA

24-FEB 2019 Sunday

12:00 a.m. Damaging winds persist (40-45 mph; <70 mph gusts)

5:45 a.m. Now Super Typhoon

1:00 p.m. COR 4 declared

Damage assessments completed

GWA sites transferred to IWPS

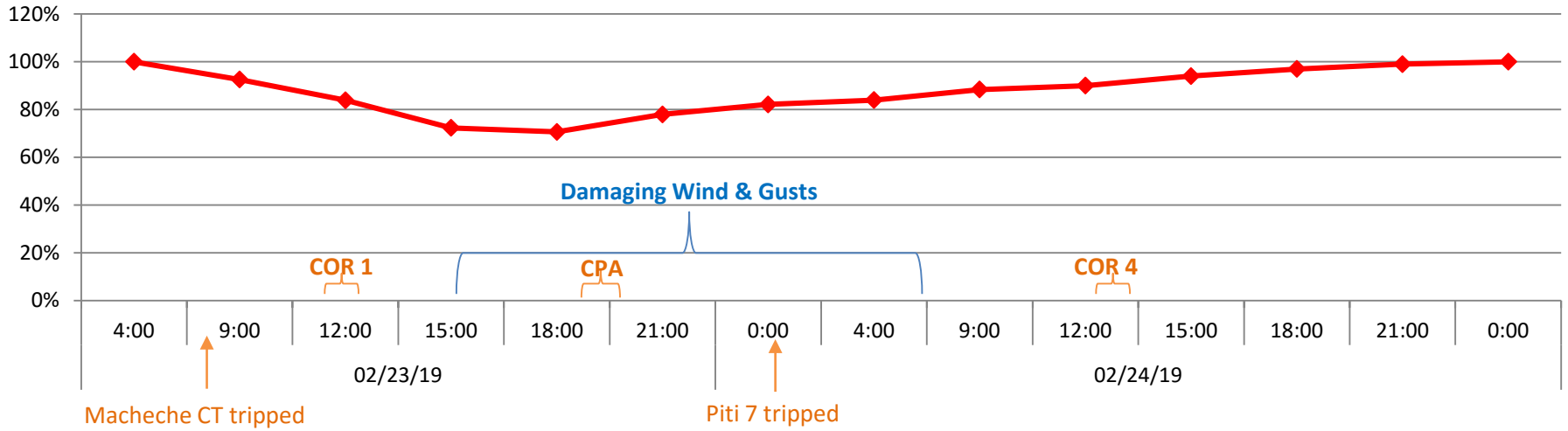
Crews responded through storm

Intensive line clearing, especially southern sector

GUAM CCU

TYPHOON WUTIP

System Loading (%)



Station Summary

	N	C	S	TOTAL	Wutip Rentals	WSD Portable	Generator Avail	Generator UNAVAIL	Prestorm Availability
Booster Pumps	5	6	19	30		1	16	14	53%
Waterwells	71	34	0	105	4		102	3	97%
Wastewater	19	30	31	80	2	4	73	7	91%
Portable	4			4			4	0	100%
Laboratory	1			1			1	0	100%
TOTAL	**100**	**70**	**50**	**220**	**6**	**5**	**196**	**24**	**89%**

TYPHOON WUTIP



TYPHOON WUTIP

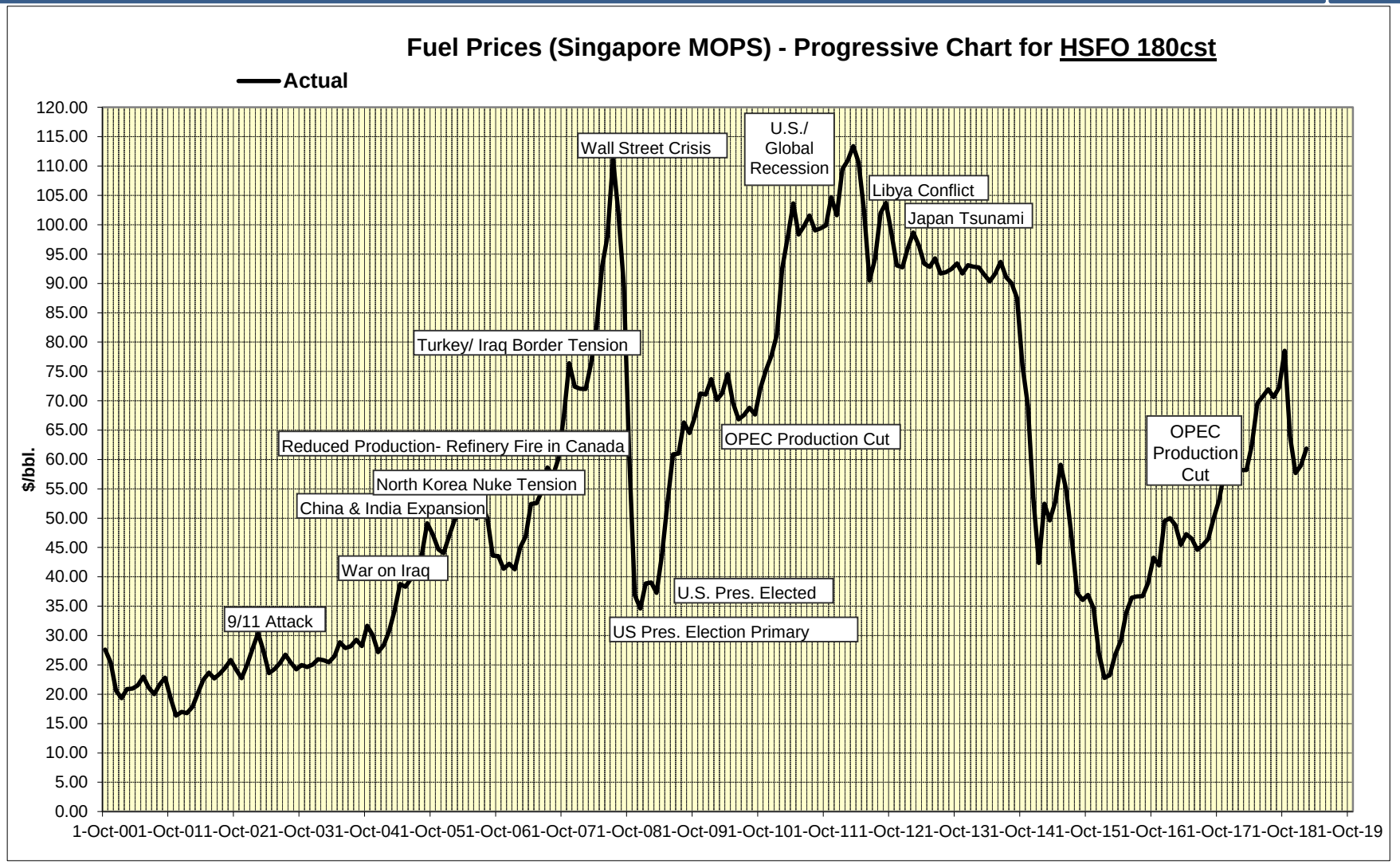


TYPHOON WUTIP

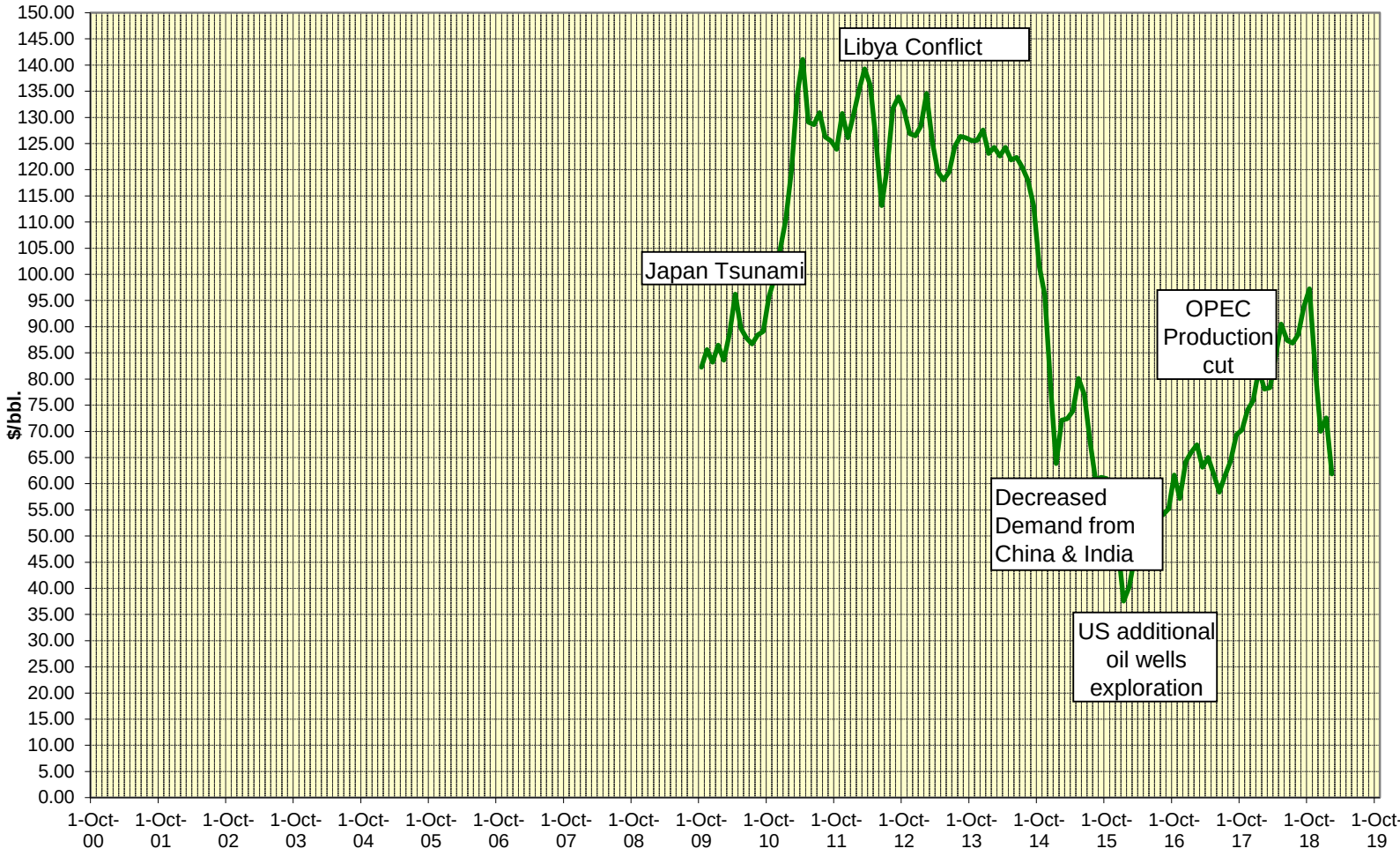




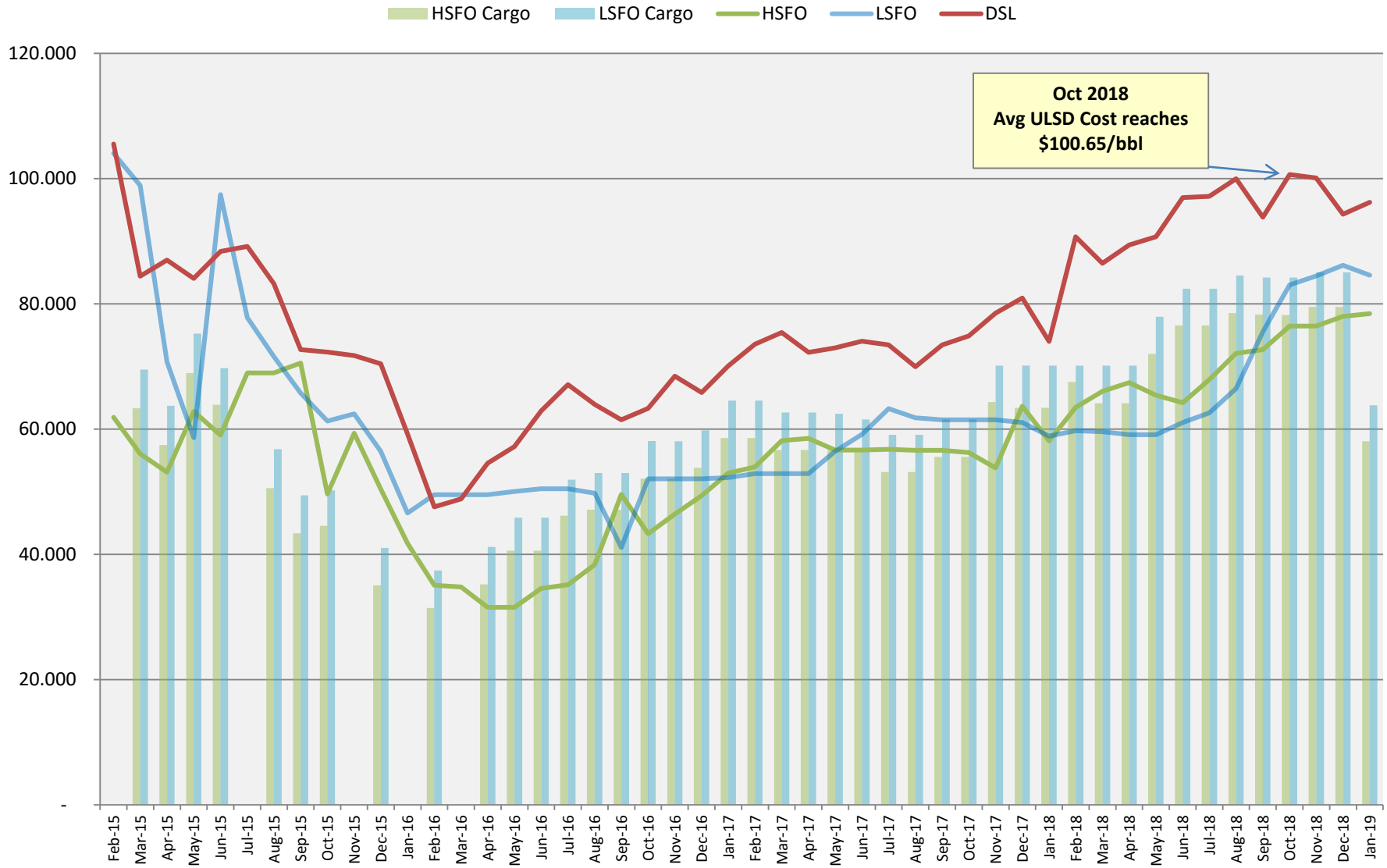
January 2019 Data


Fuel Prices (Singapore MOPS) - Progressive Chart for HSFO 180cst
Actual
$/bbl.
120.00
115.00
110.00
105.00
100.00
95.00
90.00
85.00
80.00
75.00
70.00
65.00
60.00
55.00
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
1-Oct-00 1-Oct-01 1-Oct-02 1-Oct-03 1-Oct-04 1-Oct-05 1-Oct-06 1-Oct-07 1-Oct-08 1-Oct-09 1-Oct-10 1-Oct-11 1-Oct-12 1-Oct-13 1-Oct-14 1-Oct-15 1-Oct-16 1-Oct-17 1-Oct-18 1-Oct-19
9/11 Attack
War on Iraq
China & India Expansion
North Korea Nuke Tension
Reduced Production- Refinery Fire in Canada
Turkey/ Iraq Border Tension
Wall Street Crisis
US Pres. Election Primary
U.S. Pres. Elected
OPEC Production Cut
U.S./ Global Recession
Libya Conflict
Japan Tsunami
OPEC Production Cut

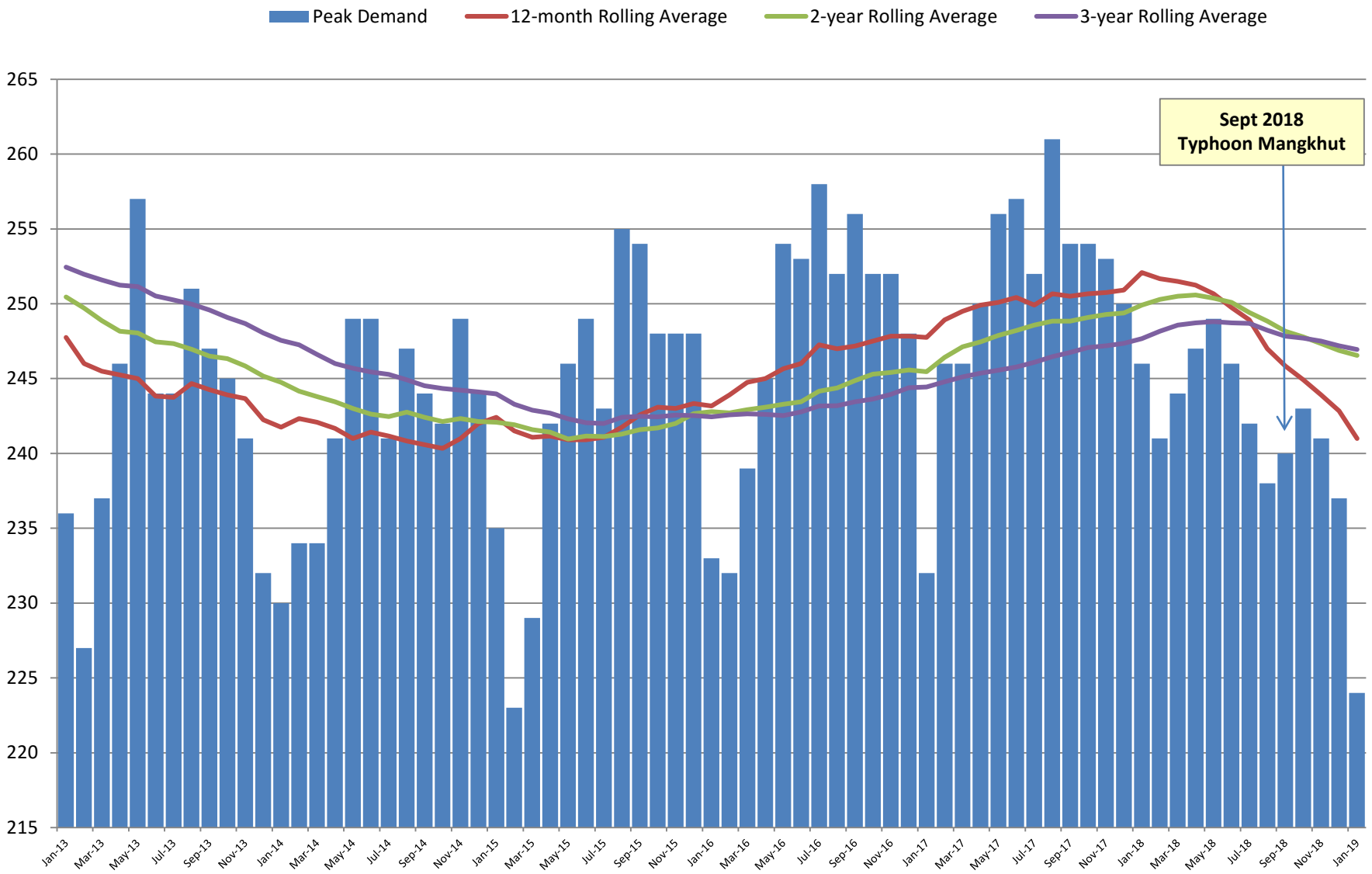
Fuel Prices (Singapore MOPS) - Progressive Chart for ULSD 15ppm



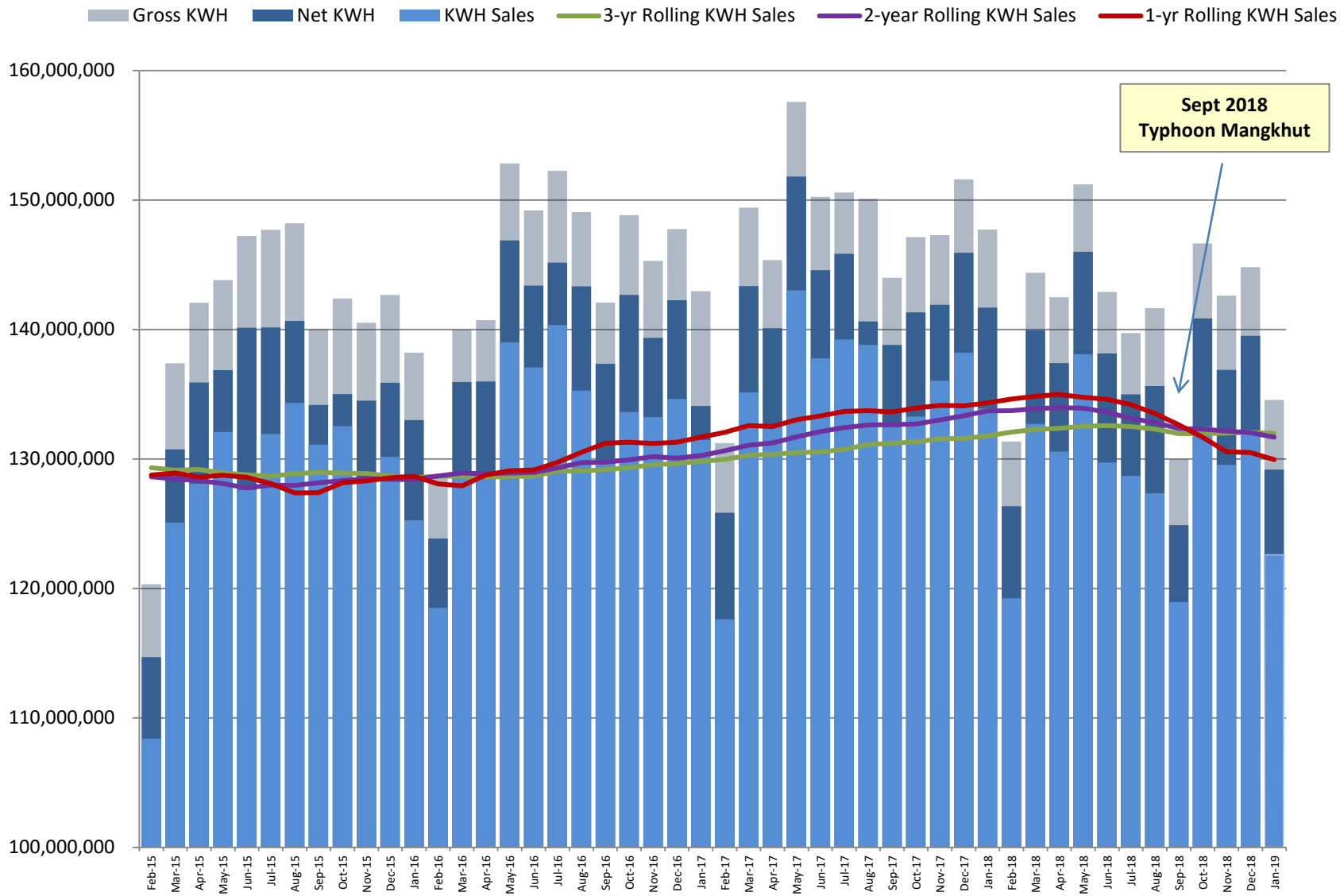
Fuel Cargo and Fuel Consumption Costs ($/bbl)
Feb 2015 - Jan 2019



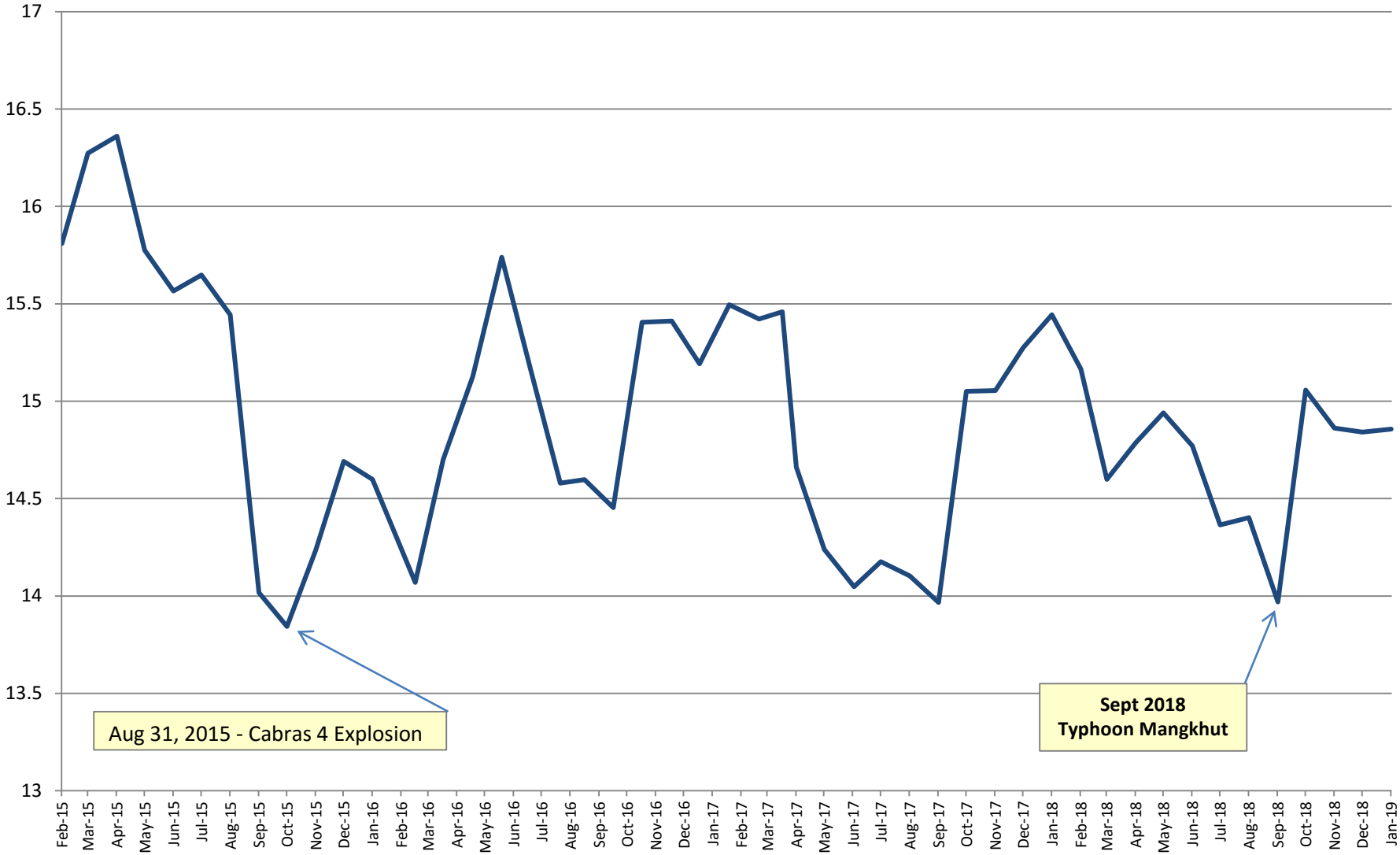
Historical Monthly Peak Demand
Jan 2013 - Jan 2019



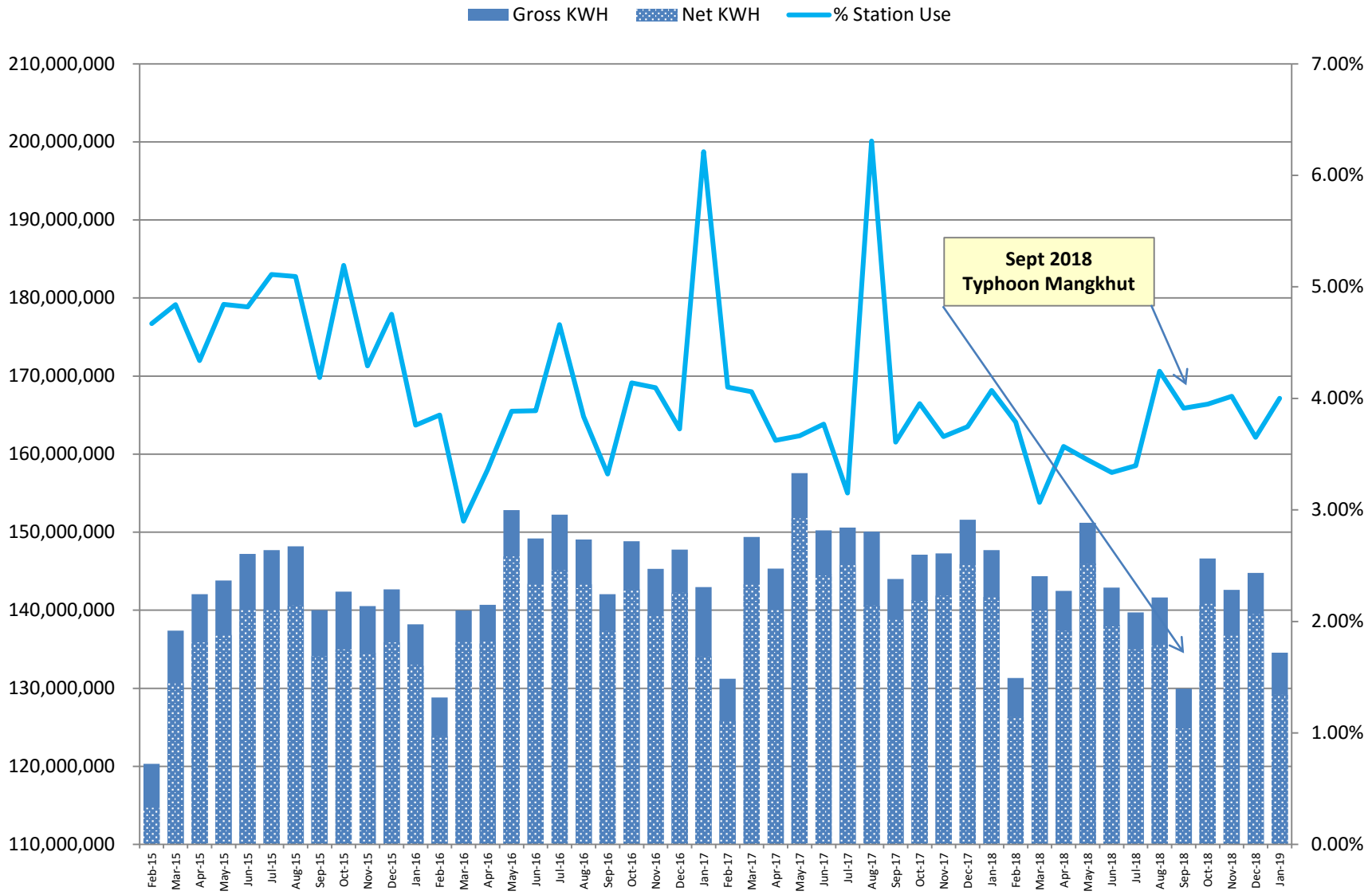
Historical KWH Sales
Feb 2015 - Jan 2019



SYSTEM GROSS HEAT RATE
(KWH/Gal)
Feb 2015 - Jan 2019



Gross and Net Generation (KWH)
Feb 2015 - Jan 2019



GPA Saipan Recovery Efforts

Typhoon Yutu Deployment







Sunday, Oct 28th

7 member Forward Team departed for Saipan via USCG C-130 out of AAFB

Tuesday, Oct 30th

John "Kadi" Manibusan and Rick Quidachay began pole installations

Tuesday, Oct 30th

Bucket trucks, flatbed, and utility trucks and vans are loaded on to the Russian Antonov and arrived in Saipan early evening

Typhoon Yutu Deployment





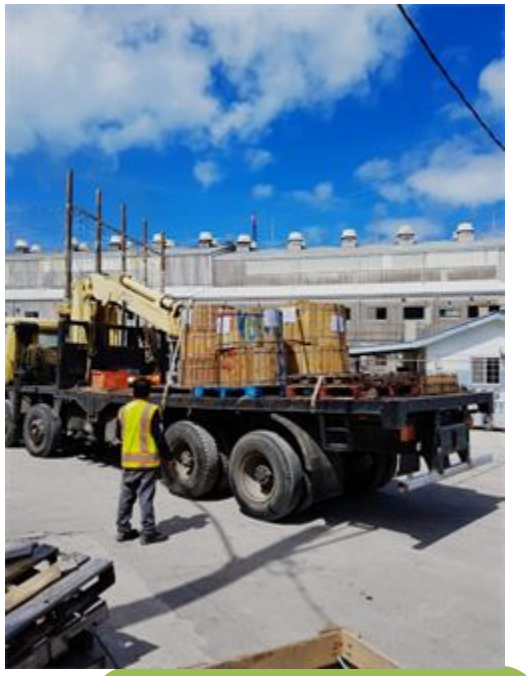


Thursday, Nov 2nd
1st Wave of employees, 26 member team departed for Saipan to join Forward Team

Tuesday, Nov 6th – GPA materials delivered to AAFB for delivery to Saipan and Tinian

Saturday, Nov 10th
Feeder Kiya 1 energized by GPA crews for the first time since the storm

Typhoon Yutu Deployment



Thursday, Dec 27
2nd Wave of employees, 32 member team departed for Saipan to continue typhoon recovery

Friday, January 25th
Critical materials arrived on Saipan for the completion of Kiya 2 & 4

Monday, Feb 17th
GPA Crews will de-mobilize, preparation and coordination of the return of equipment, tools and the safe return of all of GPA personnel

GPA YUTU SUPPORT

Man Power

Total Personnel: 64

- T&D Manager
- T&D Assistant Manger
- 26 Linemen
- 10 Operators
- 10 Engineers
- 04 Substation Electricians
- 02 Relay Technician
- 02 Generation Mechanics
- 02 Generation Electricians
- 04 Heavy Equipment Mechanics
- 02 Safety Officers

Equipment

- 6 Bucket Trucks
- 2 Vans
- 1 Light Cart
- 1 Flatbed
- 3 Utility Trucks

Materials

- 439 Power Poles
- 350,000 LF of Primary & Secondary Wire
- 92 Transformers
- 1,020 Crossarms
- Insulators, Connectors, Clamps, Nuts, Bolts

GPA Restoration Team

Forward Team and 1st Wave



GPA Restoration Team

2nd Wave



Restoration Progress

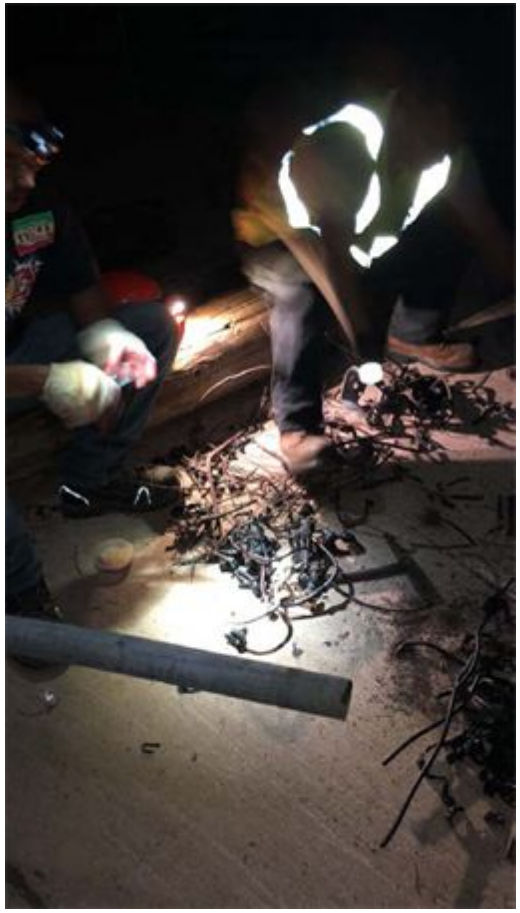
Operators



Restoration Progress

Material Recovery







Restoration Progress

Line Crews











Restoration Progress

Line Crews







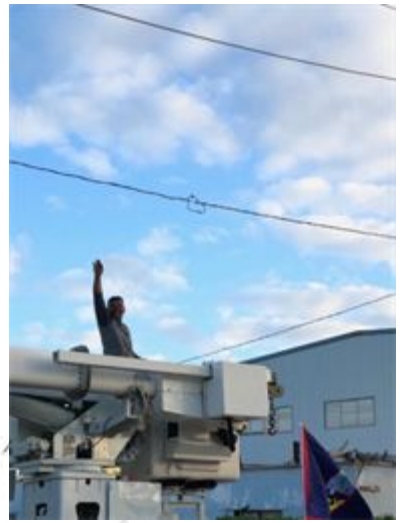


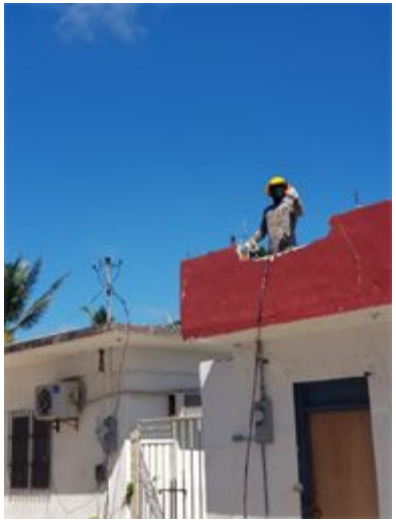


Restoration Progress

Line Crews













STATUS OF RECOVERY

POLES

Down and Damaged = 1,772

Installed = 1,374

FEEDERS

Total = 9

Energized = 9

METERS (since 1/8/19)

Damaged = 2,700

Energized = 988

GENERATION

Available = 59.4 MW

Recoverable = 33.0 MW

Gross Demand = 27.5 MW

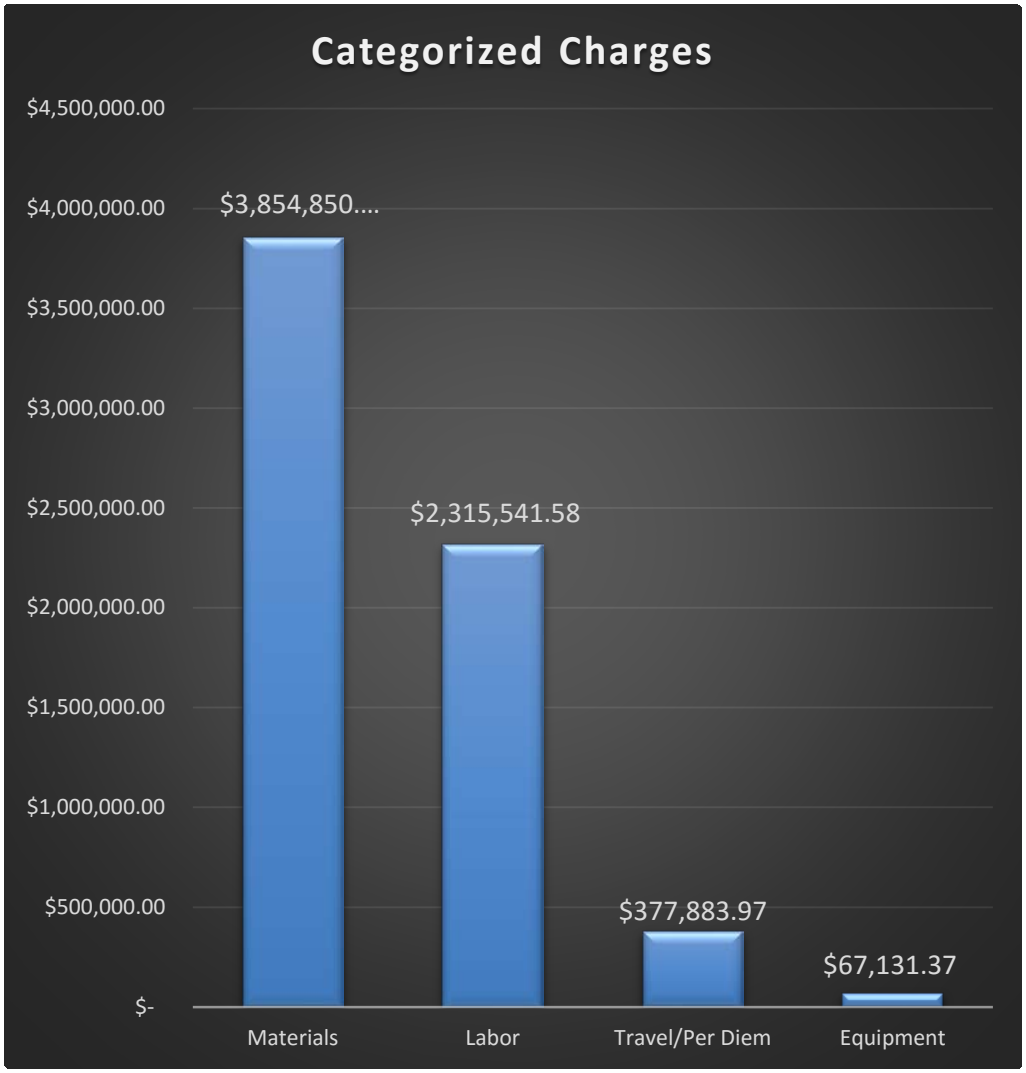
TRANSFORMERS ASSESSED (since 1/8/19)

Total Qty. = 295

Failed = 115

Passed = 180

INVOICE SUMMARY



Materials	$ 3,854,850.51
Labor	$ 1,839,922.16
Travel/Per Diem	$ 177,499.97
Equipment	$ 67,131.37
Estimated Labor	$ 475,619.42
Estimated Travel/Per Diem	$ 200,384.00
Total	**$ 6,615,407.43**
Payments	$(4,010,480.58)
	$ 2,604,926.85

SUMMARY

- GPA has made a significant contribution to Saipan recovery efforts.
- The GPA Saipan team continues to work hard and has contributed to the restoration of critical services and businesses.
- The team on Guam at T&D, Generation, Engineering, Transportation, & Safety have had to multi-task and pick up extra duties to ensure continuity of services on Guam.
- GPA Executive Management has continuously worked in coordination with the CUC to ensure smooth operations.
- The 2nd wave demobilized on February 17th and began preparation for return.
- All personnel will be home by February 23rd.
- GPA will continue to invoice CUC for labor, equipment, materials, and expenses.

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
December 2018

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

Summary
The increase in net assets for the month ended was $1.6 million as compared to the anticipated net increase of $1.0 million projected at the beginning of the year. The total kWh sales for the month were 1.87% less than projected and non-fuel revenues were $0.4million less than the estimated amount. O & M expenses for the month were $4.7 million which was $1.4 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 $4.7 million, which was $1.2 more 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	1.60	1.72	2
Days in Receivables	43	42	52
Days in Payables	49	33	30
LEAC (Over)/Under Recovery Balance -YTD	$11,367,941	$12,374,890	$12,296,414
T&D Losses	5.25%	5.33%	<7.00%
Debt Service Coverage	1.34	1.38	1.75
Long-term equity ratio	18%	18%	30 – 40%
Days in Cash	187	171	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 $93 million and approximately $159 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
December 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:	Reviewed by:	Approved by:
Lenora M. Sanz Controller	John J.E. Kim Chief Financial Officer	John M. Benavente, P.E. General Manager

GUAM POWER AUTHORITY
(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM)
Statements of Net Position
December 31, 2018 and September 30, 2018

	Unaudited December 2018	Unaudited September 2018	Change from Sept 30 2018
ASSETS AND DEFERRED OUTFLOWS OF RESOURCES			
Current assets:			
Cash and cash equivalents:			
Held by trustee for restricted purposes:			
Interest and principal funds	13,357,281	17,997,927	(4,640,646)
Bond indenture funds	45,574,892	49,970,719	(4,395,827)
Held by Guam Power Authority:			
Bond indenture funds	114,425,104	142,583,470	(28,158,366)
Self insurance fund-restricted	19,260,114	19,258,353	1,761
Energy sense fund	745,616	1,085,472	(339,856)
Total cash and cash equivalents	193,363,007	230,895,941	(37,532,934)
Accounts receivable, net	46,528,964	37,746,060	8,782,904
Total current receivables	46,528,964	37,746,060	8,782,904
Materials and supplies inventory	11,403,971	12,695,441	(1,291,470)
Fuel inventory	62,090,855	67,993,103	(5,902,248)
Prepaid expenses	6,107,573	979,828	5,127,745
Total current assets	319,494,370	350,310,373	(30,816,003)
Utility plant, at cost:			
Electric plant in service	1,064,536,587	1,063,192,955	1,343,632
Construction work in progress	41,903,316	28,495,325	13,407,991
Total	1,106,439,903	1,091,688,280	14,751,623
Less: Accumulated depreciation	(608,362,500)	(598,792,653)	(9,569,847)
Total utility plant	498,077,403	492,895,627	5,181,776
Other non-current assets:			
Investment - bond reserve funds held by trustee	48,530,722	48,600,660	(69,938)
Unamortized debt issuance costs	2,432,876	2,503,448	(70,572)
Total other non-current assets	50,963,598	51,104,108	(140,510)
Total assets	868,535,371	894,310,108	(25,774,737)
Deferred outflow of resources:			
Deferred fuel revenue	12,374,890	8,370,542	4,004,348
Unamortized loss on debt refunding	26,503,503	27,093,636	(590,133)
Pension	8,698,853	8,698,853	0
Unamortized forward delivery contract costs	438,158	477,998	(39,840)
Total deferred outflows of resources	48,015,404	44,641,029	3,374,375
	916,550,775	938,951,137	(22,400,362)

GUAM POWER AUTHORITY
(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM)
Statement of Net Position, Continued
December 31, 2018 and September 30, 2018

	Unaudited December 2018	Unaudited September 2018	Change from Sept 30 2018
LIABILITIES, DEFERRED INFLOWS OF RESOURCES AND NET POSITION			
Current liabilities:			
Current maturities of long-term debt	16,130,000	1,630,000	14,500,000
Current obligations under capital leases	18,126,544	18,126,544	0
Accounts payable			
Operations	38,736,532	47,870,908	(9,134,375)
Others	310,096	259,708	50,387
Accrued payroll and employees' benefits	1,193,035	1,949,080	(756,045)
Current portion of employees' annual leave	2,253,483	2,101,168	152,315
Interest payable	7,595,454	14,660,598	(7,065,144)
Customer deposits	8,207,394	8,142,519	64,875
Total current liabilities	92,552,538	94,740,525	(2,187,987)
Regulatory liabilities:			
Provision for self insurance	19,345,291	19,345,291	0
Total regulatory liabilities	19,345,291	19,345,291	0
Long term debt, net of current maturities	587,787,823	604,881,434	(17,093,611)
Obligations under capital leases, net of current portion	283,368	6,571,815	(6,288,447)
Net Pension liability	80,578,499	81,468,099	(889,600)
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	388,419	385,293	3,126
Total liabilities	786,030,791	812,487,310	(26,456,519)
Deferred inflows of resources:			
Unearned forward delivery contract revenue	1,606,049	1,752,053	(146,004)
Pension	788,894	788,894	0
Total deferred inflows of resources	2,394,943	2,540,947	(146,004)
Commitments and contigencies			
Net Position:			
Net investment in capital assets	(30,533,137)	(40,128,079)	9,594,942
Restricted	25,119,252	47,856,103	(22,736,851)
Unrestricted	133,538,925	116,194,856	17,344,069
Total net position	128,125,040	123,922,880	4,202,160
	916,550,775	938,951,137	(22,400,362)

GUAM POWER AUTHORITY
(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM
Statement of Revenues, Expenses and Changes in Net Assets

	December 31			Three Months Ended December 31		
	Unaudited 2018	Audited 2017	% of change Inc (dec)	Unaudited 2018	Audited 2017	% of change Inc (dec)
Revenues						
Sales of electricity	33,436,004	29,975,334	12	101,464,636	88,763,807	14
Miscellaneous	124,046	122,242	1	764,470	407,052	88
Total	33,560,050	30,097,576	12	102,229,106	89,170,859	15
Bad debt expense	(91,500)	(83,583)	9	(274,500)	(250,749)	9
Total revenues	33,468,550	30,013,993	12	101,954,606	88,920,110	15
Operating and maintenance expenses						
Production fuel	19,968,778	16,007,336	25	61,229,809	47,343,365	29
Other production	1,250,738	936,410	34	3,660,815	3,525,714	4
	21,219,516	16,943,746	25	64,890,624	50,869,079	28
Depreciation	2,549,294	3,567,508	(29)	9,884,395	10,740,759	(8)
Energy conversion cost	1,472,122	1,432,452	3	4,220,973	4,941,972	(15)
Transmission & distribution	817,614	1,108,137	(26)	2,533,312	2,959,860	(14)
Customer accounting	422,021	435,690	(3)	1,209,983	1,276,215	(5)
Administrative & general	2,179,650	2,129,750	2	7,509,572	6,861,300	9
Total operating and maintenance expenses	28,660,217	25,617,283	12	90,248,859	77,649,185	16
Operating income	4,808,333	4,396,710	9	11,705,747	11,270,925	4
Other income (expenses)						
Interest income	368,160	741,024	(50)	885,203	1,751,460	(49)
Interest expense and amortization	(2,394,985)	(2,729,985)	(12)	(7,178,289)	(8,168,390)	(12)
Bond issuance costs	88,022	(2,487,564)	(104)	263,066	(2,333,910)	(111)
Bid bond forfeiture	(1,245,000)	0	0	(1,245,000)	0	
Allowance for funds used during construction	0	273,336	(100)	0	819,921	(100)
Other expense	(4,291)	(82,834)	0	(228,564)	(205,135)	11
Total other income (expenses)	(3,188,094)	(4,286,023)	(26)	(7,503,584)	(8,136,054)	(8)
Income (loss) before capital contributions	1,620,239	110,687	1,364	4,202,163	3,134,871	34
Capital contributions	0	0	0	0	4,795	0
Increase (decrease) in net assets	1,620,239	110,687	1,364	4,202,163	3,139,666	34
Total net assets at beginning of period (restated)	126,504,804	113,205,536	0	123,922,880	110,176,557	12
Total net assets at end of period	128,125,043	113,316,223	13	128,125,043	113,316,223	13

GUAM POWER AUTHORITY
(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM)
Statements of Cash Flows
Period Ended December 31, 2018

	Month Ended 12/31/2018	YTD Ended 12/31/2018
Increase(decrease) in cash and cash equivalents		
Cash flows from operating activities:		
Cash received from customers	$32,638,700	$ 93,188,005
Cash payments to suppliers and employees for goods and services	39,260,131	93,144,560
Net cash provided by operating activities	($6,621,431)	43,445
Cash flows from investing activities:		
Interest and dividends on investments and bank accounts	368,160	885,203
Net cash provided by investing activities	368,160	885,203
Cash flows from non-capital financing activities		
Interest paid on short term debt	(6,283)	(19,570)
Provision for self insurance funds	(1,761)	(1,761)
Net cash provided by noncapital financing activities	(8,044)	(21,331)
Cash flows from capital and related financing activities		
Acquisition of utility plant	(4,675,581)	(15,066,173)
Principal paid on bonds and other long-term debt	-	(1,630,000)
Interest paid on bonds(net of capitalized interest)	-	(14,052,875)
Interest paid on capital lease obligations	(59,318)	(170,988)
Interest & principal funds held by trustee	(3,680,378)	4,640,646
Reserve funds held by trustee	(36,633)	69,938
Bond funds held by trustee	8,195	4,395,827
Principal payment on capital lease obligations	(2,111,923)	(6,288,447)
Debt issuance costs/loss on defeasance	(321,537)	(963,611)
Net cash provided by (used in) capital and related financing activities	(10,877,175)	(29,065,683)
Net (decrease) increase in cash and cash equivalents	(17,138,490.26)	(28,158,366)
Cash and cash equivalents, beginning	131,563,594	142,583,470
Cash and cash equivalents-Funds held by GPA, December 31, 2018	**$ 114,425,104**	**$ 114,425,104**

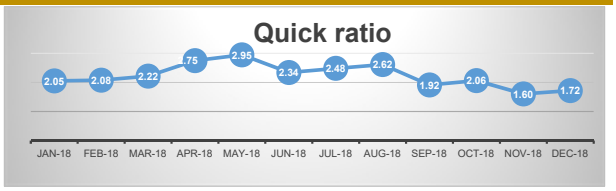
GUAM POWER AUTHORITY
(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM)
Statements of Cash Flows, continued
Period Ended December 31, 2018

	Month Ended 12/31/2018	YTD Ended 12/31/2018
Reconciliation of operating earnings to net cash provided by operating activities:		
Operating earnings net of depreciation expense and excluding interest income	$4,808,333	$11,705,747
Adjustments to reconcile operating earnings to net cash provided by operating activities:		
Depreciation and amortization	2,549,294	9,884,395
Other expense	(1,161,269)	(1,210,498)
(Increase) decrease in assets:		
Accounts receivable	(832,510)	(8,782,904)
Materials and inventory	1,623,515	1,291,470
Fuel inventory	6,876,859	5,902,248
Prepaid expenses	761,682	(5,127,745)
Unamortized debt issuance cost	23,524	70,572
Deferred fuel revenue	(1,006,949)	(4,004,348)
Unamortized loss on debt refunding	196,711	590,133
Unamortized forward delivery contract costs	13,280	39,840
Increase (decrease) in liabilities:		
Accounts payable-operations	(14,280,872)	(9,134,375)
Accounts payable-others	(6,383,019)	390,243
Accrued payroll and employees' benefits	308,808	(756,045)
Net pension liability	(301,561)	(889,600)
Employees' annual leave	(27,365)	152,315
Customers deposits	258,776	64,875
Customer advances for construction	-	3,126
Unearned forward delivery contract revenue	(48,668)	(146,004)
Net cash provided by operating activities	**($6,621,431)**	**$ 43,445**

Guam Power Authority
Financial Analysis
12/31/18

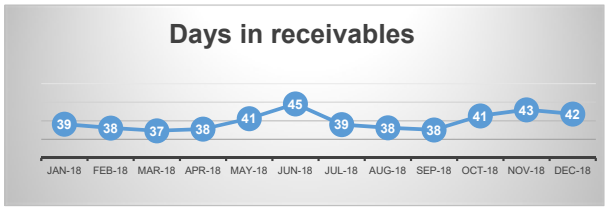
Quick Ratio

A	Reserve Funds Held by GPA	114,425,104
B	Current Accounts Receivable	44,845,056
C	Total Cash and A/R (A+B)	159,270,160
D	Total Current Liabilities	92,552,538
E	**Quick Ratio (F/G)**	**1.72**



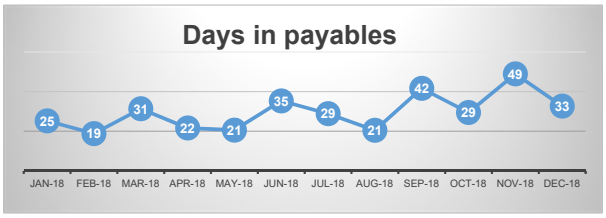
Days in Receivables

A	FY 18 Moving 12 Mos.-Actual	391,029,701
B	No. of Days	365
C	Average Revenues per day (A/B)	1,071,314
D	Current Accounts Receivable	44,845,056
E	**Days in Receivables (D/C)**	**42**



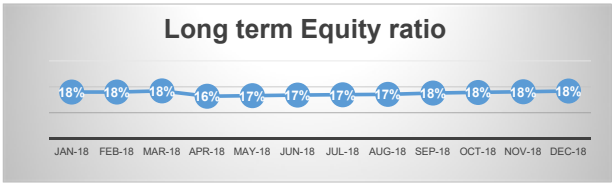
Days in Payables

A	FY 18 Moving 12 Months-Actual	436,537,966
B	No. of Days	365
C	Average Payables per day (A/B)	1,195,994
D	Current Accounts Payables	39,046,626
E	**Days in Payables (D/C)**	**33**



Long term equity ratio

A	Equity	$	128,125,040.00
B	Total Long term Liability	$	568,035,186.00
C	Total Equity and liability	$	696,160,226.00
D	**Long term equity ratio (A/C)**		**18%**

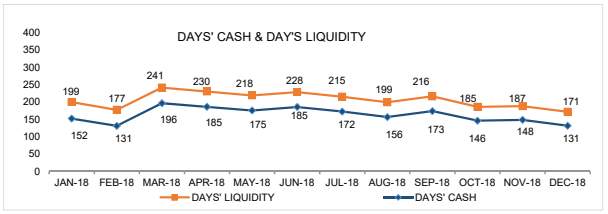


Days cash on hand

A	Unresctricted cash & cash equivalents	114,425
B	No. of Days -YTD	92
C	A x B	10,527,110
D	Total Operating expenses excluding depreciation	80,364
E	**Days cash on hand**	**131**

Days' Liquidity

A	Unresctricted cash , cash equivalents & revolving Cre	149,425
B	No. of Days -YTD	92
C	A x B	13,747,110
D	Total Operating expenses excluding depreciation	80,364
E	**Days liquidity**	**171**



GPA 302
19-Jan-19

GUAM POWER AUTHORITY
ACCRUED REVENUE
DECEMBER 2018

	FOR THE MONTH ENDED DECEMBER		THREE MONTHS ENDED DECEMBER	
	2018	**2017**	**2018**	**2017**
KWH SALES:				
Residential	41,291,151	43,307,944	124,634,320	128,376,797
Small Gen. Non Demand	6,871,789	6,956,278	20,371,824	21,083,461
Small Gen. Demand	15,425,672	15,848,505	46,112,669	47,430,029
Large General	25,790,483	27,485,887	76,803,303	80,336,690
Independent Power Producer	28,494	40,140	94,886	226,207
Private St. Lights	33,401	35,129	100,916	104,022
Sub-total	89,440,990	93,673,883	268,117,917	277,557,205
Government Service:				
Small Non Demand	1,218,540	1,272,026	3,547,334	3,778,769
Small Demand	8,107,721	8,063,549	23,951,997	24,445,741
Large	6,098,140	6,812,255	18,443,774	19,781,131
Street Lighting	805,684	697,921	2,163,324	2,179,335
Sub-total	16,230,084	16,845,750	48,106,430	50,184,976
Total	105,671,074	110,519,633	316,224,347	327,742,181
U. S. Navy	26,518,827	28,067,673	77,991,690	80,150,976
GRAND TOTAL	132,189,902	138,587,306	394,216,037	407,893,157
REVENUE:				
Residential	$ 10,347,514	$ 9,238,911	$ 31,231,747	$ 27,421,418
Small Gen. Non Demand	$ 2,002,603	$ 1,765,223	$ 5,937,256	$ 5,347,367
Small Gen. Demand	$ 4,234,344	$ 3,769,415	$ 12,627,628	$ 11,226,738
Large General	$ 6,618,506	$ 6,067,740	$ 19,700,887	$ 17,662,933
Independent Power Producer	$ 7,355	$ 9,249	$ 26,561	$ 49,046
Private St. Lights	$ 25,860	$ 25,553	$ 78,082	$ 76,274
Sub-total	$ 23,236,182	$ 20,876,091	$ 69,602,160	$ 61,783,776
Government Service:				
Small Non Demand	$ 373,332	$ 341,017	$ 1,076,914	$ 1,009,458
Small Demand	$ 2,372,119	$ 2,046,340	$ 6,872,204	$ 6,157,492
Large	$ 1,688,786	$ 1,652,805	$ 5,069,721	$ 4,783,239
Street Lighting	$ 498,967	$ 416,951	$ 1,473,186	$ 1,281,753
Sub-total	$ 4,933,204	$ 4,457,113	$ 14,492,025	$ 13,231,943
Total	$ 28,169,387	$ 25,333,204	$ 84,094,185	$ 75,015,719
U. S. Navy	$ 5,266,617	$ 4,642,130	$ 17,370,451	$ 13,748,089
GRAND TOTAL	$ 33,436,004	$ 29,975,334	$ 101,464,636	$ 88,763,807
NUMBER OF CUSTOMERS:				
Residential	43,920	43,898	43,969	43,948
Small Gen. Non Demand	4,166	4,129	4,175	4,131
Small Gen. Demand	987	981	984	982
Large General	118	118	118	118
Independent Power Producer	2	3	2	3
Private St. Lights	523	530	525	529
Sub-total	49,716	49,659	49,773	49,711
Government Service:				
Small Non Demand	683	679	679	678
Small Demand	360	350	346	352
Large	47	47	44	47
Street Lighting	628	378	628	378
Sub-total	1,718	1,454	1,697	1,454
Total	51,434	51,113	51,470	51,165
US Navy	1	1	1	1
	51,435	51,114	51,471	51,166

GPA403
19-Jan-19

GUAM POWER AUTHORITY
ACCRUED REVENUE

	TWELVE MONTHS ENDING	DECEMBER 2018	NOVEMBER 2018	OCTOBER 2018	SEPTEMBER 2018	AUGUST 2018	JULY 2018	JUNE 2018	MAY 2018	APRIL 2018	MARCH 2018	FEBRUARY 2018	JANUARY 2018
KWH SALES:													
Residential	491,604,272	41,291,151	41,148,899	42,194,270	37,207,511	39,748,314	41,361,122	42,056,621	44,782,019	41,394,961	41,541,824	36,809,815	42,067,765
Small General Non Demand	80,707,967	6,871,789	6,712,433	6,787,602	6,128,698	6,737,467	6,743,157	6,840,318	7,216,684	6,694,385	6,976,607	6,154,115	6,844,713
Small General Demand	183,287,793	15,425,672	15,054,686	15,632,311	14,018,162	15,283,605	15,161,689	15,360,000	16,316,998	15,390,268	15,917,309	14,164,319	15,562,774
Large General	303,834,861	25,790,483	26,074,017	24,938,803	23,573,240	24,724,982	25,339,577	25,263,128	26,377,222	25,681,619	26,155,199	23,674,407	26,242,185
Private Outdoor Lighting	399,951	33,401	33,984	33,531	34,933	33,511	34,288	37,088	34,126	27,531	32,791	32,408	32,358
Independent Power Producer	348,394	28,494	35,867	30,526	29,708	30,251	30,088	25,238	26,295	27,405	28,536	28,976	27,011
Sub-Total	1,060,183,238	89,440,990	89,059,886	89,617,042	80,992,253	86,558,130	88,669,920	89,582,394	94,753,344	89,216,169	90,652,265	80,864,040	90,776,805
Government Service:													
Small Non Demand	14,095,550	1,218,540	1,096,422	1,232,371	1,089,787	1,205,730	1,128,046	1,157,839	1,224,286	1,180,911	1,193,794	1,119,571	1,248,251
Small Demand	92,452,193	8,107,721	7,758,614	8,085,662	7,082,161	7,641,330	7,182,975	7,404,715	8,098,401	7,720,850	7,889,205	7,377,578	8,102,981
Large	73,312,950	6,098,140	5,989,384	6,356,251	5,873,776	6,179,381	5,707,305	5,896,149	6,622,597	6,142,309	6,226,210	5,905,830	6,315,619
Street Lighting (Agencies)	9,030,208	805,684	744,605	613,035	734,966	842,364	903,135	795,661	761,901	699,601	743,499	669,689	716,067
Sub-Total	188,890,900	16,230,084	15,589,026	16,287,319	14,780,690	15,868,805	14,921,461	15,254,364	16,707,185	15,743,671	16,052,709	15,072,669	16,382,918
Total	1,249,074,138	105,671,074	104,648,912	105,904,361	95,772,942	102,426,935	103,591,381	104,836,757	111,460,529	104,959,840	106,704,974	95,936,708	107,159,724
U.S. Navy	304,300,887	26,518,827	24,888,490	26,584,373	23,161,867	24,921,140	25,089,942	24,891,007	26,624,376	25,605,624	25,988,485	23,304,608	26,722,147
Grand Total	1,553,375,025	132,189,902	129,537,402	132,488,734	118,934,809	127,348,076	128,681,323	129,727,764	138,084,906	130,565,464	132,693,459	119,241,316	133,881,870
REVENUE:													
Residential	$ 121,633,760	$ 10,347,514	$ 10,286,420	$ 10,597,812	$ 9,335,975	$ 9,971,178	$ 10,379,963	$ 10,487,819	$ 11,371,498	$ 10,082,308	$ 10,154,660	$ 9,633,432	$ 8,985,179
Small General Non Demand	$ 23,268,728	$ 2,002,603	$ 1,938,660	$ 1,995,993	$ 1,793,407	$ 1,962,561	$ 1,975,429	$ 1,969,294	$ 2,127,563	$ 1,903,541	$ 1,988,097	$ 1,869,658	$ 1,741,922
Small General Demand	$ 49,654,838	$ 4,234,344	$ 4,091,967	$ 4,301,317	$ 3,892,588	$ 4,192,538	$ 4,181,623	$ 4,150,658	$ 4,513,787	$ 4,108,079	$ 4,266,730	$ 4,006,949	$ 3,714,258
Large General	$ 76,957,015	$ 6,618,506	$ 6,715,109	$ 6,367,272	$ 6,170,948	$ 6,427,049	$ 6,510,707	$ 6,533,909	$ 6,798,955	$ 6,399,879	$ 6,565,683	$ 6,086,686	$ 5,762,313
Private Outdoor Lighting	$ 310,848	$ 25,860	$ 26,021	$ 26,201	$ 26,392	$ 26,189	$ 26,302	$ 27,542	$ 26,776	$ 22,912	$ 25,785	$ 25,733	$ 25,133
Independent Power Producer	$ 94,626	$ 7,355	$ 10,699	$ 8,507	$ 8,392	$ 7,924	$ 9,619	$ 6,601	$ 7,068	$ 7,057	$ 7,406	$ 7,969	$ 6,029
Sub-Total	$ 271,919,815	$ 23,236,182	$ 23,068,875	$ 23,297,103	$ 21,227,703	$ 22,587,439	$ 23,083,643	$ 23,175,823	$ 24,845,648	$ 22,523,776	$ 23,008,362	$ 21,630,428	$ 20,234,834
Government Service:													
Small Non Demand	$ 4,225,345	$ 373,332	$ 335,403	$ 368,179	$ 335,723	$ 366,623	$ 343,795	$ 354,533	$ 372,707	$ 350,949	$ 356,541	$ 335,126	$ 332,434
Small Demand	$ 26,254,971	$ 2,372,119	$ 2,230,742	$ 2,269,343	$ 2,104,471	$ 2,213,718	$ 2,081,391	$ 2,159,463	$ 2,323,025	$ 2,164,585	$ 2,224,973	$ 2,094,220	$ 2,016,922
Large	$ 20,139,092	$ 1,688,786	$ 1,646,650	$ 1,734,285	$ 1,680,530	$ 1,733,549	$ 1,609,173	$ 1,667,786	$ 1,840,797	$ 1,676,200	$ 1,707,269	$ 1,628,297	$ 1,525,771
Street Lighting (Agencies)	$ 5,748,916	$ 498,967	$ 479,197	$ 495,021	$ 477,638	$ 499,032	$ 568,447	$ 477,183	$ 477,272	$ 452,952	$ 455,729	$ 439,995	$ 427,482
Sub-Total	$ 56,368,325	$ 4,933,204	$ 4,691,993	$ 4,866,827	$ 4,598,362	$ 4,812,921	$ 4,602,806	$ 4,658,965	$ 5,013,801	$ 4,644,687	$ 4,744,512	$ 4,497,638	$ 4,302,609
Total	$ 328,288,140	$ 28,169,387	$ 27,760,868	$ 28,163,930	$ 25,826,065	$ 27,400,361	$ 27,686,449	$ 27,834,788	$ 29,859,448	$ 27,168,463	$ 27,752,874	$ 26,128,065	$ 24,537,443
U.S. Navy	$ 62,741,561	$ 5,266,617	$ 6,152,798	$ 5,951,036	$ 5,271,574	$ 5,243,314	$ 5,217,194	$ 4,618,042	$ 5,005,555	$ 5,623,411	$ 5,202,943	$ 4,155,974	$ 5,033,103
Grand Total	$ 391,029,701	$ 33,436,004	$ 33,913,666	$ 34,114,966	$ 31,097,639	$ 32,643,674	$ 32,903,643	$ 32,452,830	$ 34,865,003	$ 32,791,874	$ 32,955,817	$ 30,284,040	$ 29,570,546
NUMBER OF CUSTOMERS:													
Residential	44,011	43,920	43,876	44,112	43,887	44,005	44,003	44,074	44,086	43,991	44,065	43,995	44,119
Small General Non Demand	4,169	4,166	4,176	4,183	4,159	4,185	4,183	4,173	4,172	4,183	4,154	4,153	4,142
Small General Demand	985	987	981	984	982	984	982	984	988	988	987	991	981
Large General	119	118	119	117	118	118	119	119	119	119	119	118	119
Private Outdoor Lighting	528	523	524	527	525	525	531	532	533	536	526	527	527
Independent Power Producer	2	2	3	2	2	3	3	3	2	2	2	2	2
Sub-Total	49,814	49,716	49,679	49,925	49,673	49,820	49,821	49,885	49,900	49,819	49,853	49,786	49,890
Government Service:													
Small Non Demand	685	683	667	686	677	683	690	694	691	692	689	684	686
Small Demand	350	360	327	352	353	354	351	351	350	350	350	351	350
Large	46	47	38	47	47	47	47	47	47	47	47	47	47
Street Lighting (Agencies)	552	628	628	629	627	614	612	559	526	513	479	421	389
Sub-Total	1,633	1,718	1,660	1,714	1,704	1,698	1,700	1,651	1,614	1,602	1,565	1,503	1,472
Total	51,447	51,434	51,339	51,639	51,377	51,518	51,521	51,536	51,514	51,421	51,418	51,289	51,362
U.S. Navy	1	1	1	1	1	1	1	1	1	1	1	1	1
Grand Total	51,448	51,435	51,340	51,640	51,378	51,519	51,522	51,537	51,515	51,422	51,419	51,290	51,363

GPA303
1/19/2019

GUAM POWER AUTHORITY
ACCRUED REVENUE
DECEMBER 2018

RATE	NUMBER OF CUSTOMERS	KWH SALES	TOTAL REVENUE AMOUNT	TOTAL REVENUE C/KWH	BASE RATE REVENUE C/KWH	BASE RATE REVENUE AMOUNT	AVERAGE PER CUSTOMER KWH	AVERAGE PER CUSTOMER REVENUE	NON-FUEL C/KWH	NON-FUEL AMOUNT	0.154242 FUEL C/KWH	FUEL AMOUNT
Month												
R Residential	43,920	41,291,151	$ 10,347,514	$ 25.06	$ 25.06	$ 10,347,514	940	$ 236	$ 9.64	$ 3,978,685	$ 15.42	$ 6,368,830
G Small Gen. Non Demand	4,166	6,871,789	$ 2,002,603	$ 29.14	$ 29.14	$ 2,002,603	1,649	$ 481	$ 13.72	$ 942,684	$ 15.42	$ 1,059,918
J Small Gen. Demand	987	15,425,672	$ 4,234,344	$ 27.45	$ 27.45	$ 4,234,344	15,629	$ 4,290	$ 12.03	$ 1,856,059	$ 15.42	$ 2,378,284
P Large General	118	25,790,483	$ 6,618,506	$ 25.66	$ 25.66	$ 6,618,506	218,563	$ 56,089	$ 10.31	$ 2,659,398	$ 15.35	$ 3,959,108
I Independent Power Producer	2	28,494	$ 7,355	$ 25.81	$ 25.81	$ 7,355	9,498	$ 2,452	$ 10.90	$ 3,106	$ 14.91	$ 4,249
H Private St. Lights	523	33,401	$ 25,860	$ 77.42	$ 77.42	$ 25,860	64	$ 49	$ 62.00	$ 20,709	$ 15.42	$ 5,152
Sub-Total	49,716	89,440,990	$ 23,236,182	$ 25.98	$ 25.98	$ 23,236,182	1,799	$ 467	$ 10.58	$ 9,460,641	$ 15.40	$ 13,775,542
Government Service:												
S Small Non Demand	683	1,218,540	$ 373,332	$ 30.64	$ 30.64	$ 373,332	1,784	$ 547	$ 15.21	$ 185,382	$ 15.42	$ 187,950
K Small Demand	360	8,107,721	$ 2,372,119	$ 29.26	$ 29.26	$ 2,372,119	22,521	$ 6,589	$ 13.83	$ 1,121,568	$ 15.42	$ 1,250,551
L Large	47	6,098,140	$ 1,688,786	$ 27.69	$ 27.69	$ 1,688,786	129,748	$ 35,932	$ 12.46	$ 759,757	$ 15.23	$ 929,029
F Street Lighting (Agencies)	628	805,684	$ 498,967	$ 61.93	$ 61.93	$ 498,967	1,283	$ 795	$ 46.51	$ 374,697	$ 15.42	$ 124,270
Sub-Total	1,718	16,230,084	$ 4,933,204	$ 30.40	$ 30.40	$ 4,933,204	9,447	$ 2,871	$ 15.04	$ 2,441,404	$ 15.35	$ 2,491,801
	51,434	105,671,074	$ 28,169,387	$ 56.37	$ 56.37	$ 28,169,387	2,054	$ 548	$ 40.98	$ 11,902,044	$ 15.39	$ 16,267,342
U.S. Navy	1	26,518,827	$ 5,266,617	$ 19.86	$ 19.86	$ 5,266,617			$ 5.90	$ 1,565,181	$ 13.96	$ 3,701,436
TOTAL	51,435	132,189,902	$ 33,436,004	$ 25.29	$ 25.29	$ 33,436,004	2,570	$ 650	$ 10.19	$ 13,467,226	$ 15.11	$ 19,968,778
Three Months Ended December 2018												
R Residential	43,969	124,634,320	$ 31,231,747	$ 25.06	$ 25.06	$ 31,231,747	2,835	$ 710	$ 9.63	$ 12,007,900	$ 15.42	$ 19,223,847
G Small Gen. Non Demand	4,175	20,371,824	$ 5,937,256	$ 29.14	$ 29.14	$ 5,937,256	4,879	$ 1,422	$ 13.72	$ 2,795,065	$ 15.42	$ 3,142,191
J Small Gen. Demand	984	46,112,669	$ 12,627,628	$ 27.38	$ 27.38	$ 12,627,628	46,862	$ 12,833	$ 11.97	$ 5,518,113	$ 15.42	$ 7,109,515
P Large General	118	76,803,303	$ 19,700,887	$ 25.65	$ 25.65	$ 19,700,887	650,875	$ 166,957	$ 10.30	$ 7,910,631	$ 15.35	$ 11,790,256
I Independent Power Producer	2	94,886	$ 26,561	$ 27.99	$ 27.99	$ 26,561	181	$ 51	$ 12.44	$ 29,498	$ 15.55	$ 14,758
H Private St. Lights	525	100,916	$ 78,082	$ 77.37	$ 77.37	$ 78,082	37,843	$ 29,281	$ 62.58	$ 45,461	$ 14.79	$ 14,927
Sub-Total	49,773	268,117,917	$ 69,602,160	$ 25.96	$ 25.96	$ 69,602,160	5,387	$ 1,398	$ 10.56	$ 28,306,667	$ 15.40	$ 41,295,493
Government Service:												
S Small Non Demand	679	3,547,334	$ 1,076,914	$ 30.36	$ 30.36	$ 1,076,914	5,227	$ 1,587	$ 14.93	$ 529,766	$ 15.42	$ 547,148
K Small Demand	346	23,951,997	$ 6,872,204	$ 28.69	$ 28.69	$ 6,872,204	69,159	$ 19,843	$ 13.27	$ 3,177,800	$ 15.42	$ 3,694,404
L Large	44	18,443,774	$ 5,069,721	$ 27.49	$ 27.49	$ 5,069,721	419,177	$ 115,221	$ 12.25	$ 2,259,069	$ 15.24	$ 2,810,652
F Street Lighting (Agencies)	628	2,163,324	$ 1,473,186	$ 68.10	$ 68.10	$ 1,473,186	3,443	$ 2,345	$ 52.67	$ 1,139,511	$ 15.42	$ 333,675
Sub-Total	1,697	48,106,430	$ 14,492,025	$ 30.12	$ 30.12	$ 14,492,025	28,342	$ 8,538	$ 14.77	$ 7,106,146	$ 15.35	$ 7,385,879
U.S. Navy	1	77,991,690	$ 17,370,451	$ 22.27	$ 22.27	$ 17,370,451			$ 6.18	$ 4,822,013	$ 16.09	$ 12,548,437
TOTAL	51,472	394,216,037	$ 101,464,636	$ 25.74	$ 25.74	$ 101,464,636	7,659	$ 1,971	$ 10.21	$ 40,234,826	$ 15.53	$ 61,229,810
Twelve Months Ended December 2018												
R Residential	44,011	491,604,272	$ 121,633,760	$ 24.74	$ 24.74	$ 121,633,760	11,170	$ 2,764	$ 9.64	$ 47,383,042	$ 15.10	$ 74,250,718
G Small Gen. Non Demand	4,169	80,707,967	$ 23,268,728	$ 28.83	$ 28.83	$ 23,268,728	19,359	$ 5,581	$ 13.72	$ 11,074,042	$ 15.11	$ 12,194,686
J Small Gen. Demand	985	183,287,793	$ 49,654,838	$ 27.09	$ 27.09	$ 49,654,838	186,095	$ 50,415	$ 12.02	$ 22,035,400	$ 15.07	$ 27,619,438
P Large General	119	303,834,861	$ 76,957,015	$ 25.33	$ 25.33	$ 76,957,015	2,564,007	$ 649,426	$ 10.43	$ 31,687,566	$ 14.90	$ 45,269,450
I Independent Power Producer	2	348,394	$ 94,626	$ 27.16	$ 27.16	$ 94,626	144,163	$ 39,155	$ 12.52	$ 43,633	$ 14.64	$ 50,993
H Private St. Lights	528	399,951	$ 310,848	$ 77.72	$ 77.72	$ 310,848	757	$ 589	$ 62.91	$ 251,626	$ 14.81	$ 59,222
Sub-Total	49,814	1,060,183,238	$ 271,919,815	$ 25.65	$ 25.65	$ 271,919,815	21,283	$ 5,459	$ 10.61	$ 112,475,309	$ 15.04	$ 159,444,507
Government Service:												
S Small Non Demand	685	14,095,550	$ 4,225,345	$ 29.98	$ 29.98	$ 4,225,345	20,572	$ 6,167	$ 15.05	$ 2,121,143	$ 14.93	$ 2,104,203
K Small Demand	350	92,452,193	$ 26,254,971	$ 28.40	$ 28.40	$ 26,254,971	264,212	$ 75,032	$ 13.47	$ 12,451,275	$ 14.93	$ 13,803,696
L Large	46	73,312,950	$ 20,139,092	$ 27.47	$ 27.47	$ 20,139,092	1,585,145	$ 435,440	$ 12.71	$ 9,320,891	$ 14.76	$ 10,818,202
F Street Lighting (Agencies)	552	9,030,208	$ 5,748,916	$ 63.66	$ 63.66	$ 5,748,916	16,357	$ 10,413	$ 48.69	$ 4,396,971	$ 14.97	$ 1,351,945
Sub-Total	1,633	188,890,900	$ 56,368,325	$ 29.84	$ 29.84	$ 56,368,325	115,642	$ 34,509	$ 14.98	$ 28,290,280	$ 14.86	$ 28,078,045
	51,447	1,249,074,138	$ 328,288,140	$ 26.28	$ 26.28	$ 328,288,140	24,279	$ 39,968	$ 11.27	$ 140,765,588	$ 15.01	$ 187,522,552
U.S. Navy	1	304,300,887	$ 62,741,561	$ 20.62	$ 20.62	$ 62,741,561			$ 6.27	$ 19,066,233	$ 14.35	$ 43,675,328
TOTAL	51,448	1,553,375,025	$ 391,029,701	$ 25.17	$ 25.17	$ 391,029,701	30,193	$ 7,600	$ 10.29	$ 159,831,822	$ 14.88	$ 231,197,879

GPA-318 **ENERGY ACCOUNT** **FOR INTERNAL USE ONLY**

318Dec18 **FY 2019 Versus FY 2018**

	December 2018		December 2017		Y T D 2019		Y T D 2018		MOVING TWELVE MONTHS	
Gross Generation										
Number of days in Period	**31**		**31**		**92**		**61**		**365**	
Peak demand	**237**		**250**		**243**		**254**		**261**	
Date	**12/06/18**		**12/11/17**		**10/12/18**		**10/30/17**		**08/01/17**	
	KWH	**% change**	**KWH**	**% change**	**KWH**	**% change**	**KWH**	**% change**	**KWH**	**% change**
Energy Account:										
Kilowatt hours GPA:										
Cabras 1 & 2	50,479,000		64,178,000		176,435,000		183,204,000		644,466,000	
Cabras No. 3	0		0		0		0		0	
Cabras No. 4	0		0		0		0		0	
MEC (ENRON) Piti 8 (IPP)	29,539,700		27,889,800		72,707,300		78,809,700		312,271,500	
MEC (ENRON) Piti 9 (IPP)	29,349,600		29,520,800		76,795,000		87,270,400		313,360,500	
TEMES Piti 7 (IPP)	6,281,944		666,966		24,003,522		5,310,865		59,006,154	
Tanguisson 2	0		0		0		0		0	
Tanguisson 1	0		0		0		0		0	
Diesels/CT's & Others:							0			
MDI 10MW	0		0		68,932		21,414		1,347,776	
NRG Solar Dandan	3,380,595		3,677,204		11,492,083		10,596,596		47,196,833	
Dededo CT #1	159,100		22,510		2,644,980		384,400		14,066,650	
Dededo CT #2	319,680		26,690		3,409,930		77,300		15,559,100	
Macheche CT	4,244,186		3,097,673		14,450,134		12,928,470		49,876,405	
Yigo CT (Leased)	4,774,403		3,215,066		15,290,941		9,487,126		54,716,981	
Tenjo	129,320		3,664,320		7,893,740		10,604,530		38,787,340	
Talofofo 10 MW	1,609,120		1,575,840		1,609,120		2,443,230		12,477,790	
Aggreko	15,653,538		14,059,832		28,929,141		45,451,269		144,205,962	
Wind Turbine*	0		64,423		10,431		102,802		219,933	
Orote	0		0		0		0		0	
Marbo	0		0		0		0		0	
	145,920,185		**151,659,124**		**435,740,254**		**446,692,102**		**1,707,558,924**	
Ratio to last year		96.22		102.90		97.55		**101.19**		**96.56**
Station use	5,241,350		5,691,120		16,551,681		16,855,339		62,412,283	
Ratio to Gross generation		3.59		3.75		3.80		3.77		**3.66**
Net send out	140,678,836		145,968,003		419,188,573		429,836,763		1,645,146,641	
Ratio to last year		96.38		102.88		97.52		**101.42**		**96.59**
KWH deliveries:										
Sales to Navy (@34.5kv)	**26,518,827**		**28,067,673**		**77,991,690**		**80,150,976**		**304,300,886**	
Ratio to last year		94.48		102.18		97.31		**101.10**		**95.26**
GPA-metered	**114,160,009**		**117,900,330**		**341,196,883**		**349,685,787**		**1,340,845,755**	
Ratio to last year		96.83		103.04		97.57		**101.49**		**96.90**
Power factor adj.	0		0		0		0		0	
Adjusted	114,160,009		117,900,330		341,196,883		349,685,787		1,340,845,755	
GPA KWH Accountability:										
Sales to civilian customers-										
accrual basis	**105,671,074**		**110,519,633**		**316,224,347**		**327,742,180**		**1,249,074,137**	
Ratio to last year		95.61		103.13		96.49		**101.72**		**96.30**
GPA use-KWH	338,948		323,091		1,012,809		864,992		4,035,386	
Unaccounted For	8,149,987		7,057,606		23,959,726		21,078,614		87,736,232	
Ratio to deliveries		7.14		5.99		7.02		6.03		6.54
Ratio to Gross Generation		5.59		4.65		5.50		4.72		5.14
Ratio to Net Send Out		5.79		4.84		5.72		4.90		5.33

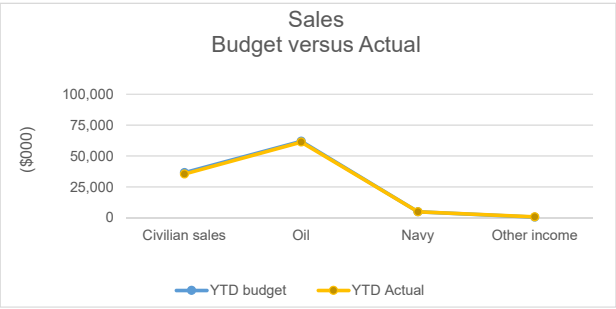
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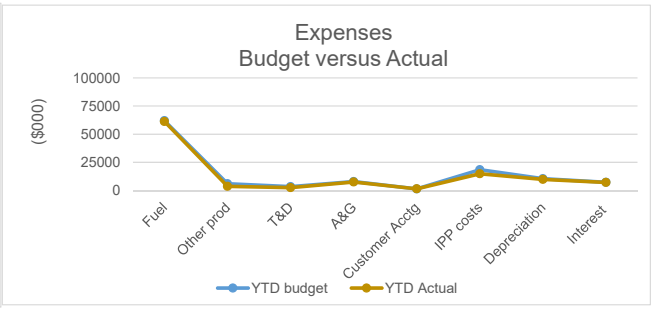
Guam Power Authority
Fuel Consumption
FY 2019

Description	December 2018 BARRELS	December 2018 AMOUNT	YEAR-TO-DATE BARRELS	YEAR-TO-DATE AMOUNT	MOVING 12 MONTHS BARREL S	MOVING 12 MONTHS 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	77,173	$6,018,877	225,931	$ 17,390,456	1,322,892	$ 90,176,581
Diesel	68,785	$6,487,097	211,311	$ 20,807,612	818,343	$ 76,876,826
Low Sulfur	85,102	$7,333,047	270,882	$ 22,901,681	600,178	$ 44,315,895
Deferred Fuel Costs	0	-$1,006,948	0	$ (4,004,348)	0	$ 4,422,522
Fuel Adjustments	0	$0		$ 6,453	0	$ (220,100)
Fuel Handling Costs	0	$1,136,706	0	$ 4,127,955	0	$ 16,418,525
	231,059	**$19,968,778**	**708,123**	**$ 61,229,809**	**2,741,413**	**$ 231,990,250**
IWPS:						
GPA RFO	77,173	$6,018,877	225,931	$ 17,390,456	1,322,892	$ 90,176,581
Diesel	68,785	$6,487,097	211,311	$ 20,807,612	818,343	$ 76,876,826
Low Sulfur	85,102	$7,333,047	270,882	$ 22,901,681	600,178	$ 44,315,895
Deferred Fuel Costs	0	-$1,006,948	0	$ (4,004,348)	0	$ 4,422,522
Fuel Variance	0	$0	0	$ 6,453		$ (220,100)
Fuel Handling Costs	0	$1,136,706	0	$ 4,127,955	0	$ 16,418,525
	231,059	**$19,968,778**	**708,123**	**$ 61,229,809**	**2,741,413**	**$ 231,990,250**
AVERAGE COST/Bbl.						
GPA RFO		**$77.99**		**$76.97**		**$68.17**
Diesel		**$94.31**		**$98.47**		**$93.94**
Low Sulfur		**$86.17**		**$84.54**		**$73.84**
AS BURNED						
Cabras 1 & 2						
RFO	77,173	$ 6,018,877	215,498	$ 16,592,964	811,495	$ 56,117,115
Low Sulfur	7,107	$ 598,482	85,397	$ 7,147,947	278,957	$ 19,766,613
Diesel	391	$ 38,387	405	$ 39,879	2,489	$ 216,326
	84,671	$ 6,655,745	301,300	$ 23,780,790	1,092,941	$ 76,100,054
Cabras 3 & 4						
RFO	0	$ -	0	$ -	0	$ -
Low Sulfur	0	$ -	0	$ -	0	$ -
Diesel	0	$ -	0	$ -	0	$ -
	0	$ -	0	$ -	0	$ -
MEC (Piti Units 8&9)						
RFO	0	$ -	10,432	$ 797,492	511,396	$ 34,059,466
Low Sulfur	77,995	$ 6,734,565	185,485	$ 15,753,734	321,221	$ 24,549,282
Diesel	0	$ -	8	$ 583	75	$ 4,775
	77,995	$ 6,734,565	195,925	$ 16,551,808	832,692	$ 58,613,522
Diesel & CT's - GPA:						
MDI Dsl	0	$ -	108	$ 8,132	2,237	$ 159,342
Macheche CT	8,946	$ 845,167	30,788	$ 3,035,231	106,804	$ 9,928,653
Yigo CT	9,793	$ 923,894	32,377	$ 3,178,551	115,800	$ 10,916,177
Talofofo 10 MW	2,806	$ 261,649	2,806	$ 261,649	21,084	$ 1,914,145
Aggreko	28,950	$ 2,697,769	53,112	$ 5,097,351	265,720	$ 24,840,803
Tenjo	242	$ 26,702	14,152	$ 1,498,177	67,115	$ 6,541,346
TEMES (IPP)	16,116	$ 1,543,308	59,369	$ 5,964,183	148,248	$ 14,206,679
GWA Generators	3	$ 348	197	$ 25,416	1,640	$ 195,043
	68,394	$ 6,448,710	210,898	$ 20,767,150	815,779	$ 76,655,725
Deferred Fuel Costs	0	$ (1,006,948)		$ (4,004,348)		$ 4,422,522
Adjustment		$ -		$ 6,453		$ (220,100)
Fuel Handling Costs	0	$ 1,136,706		$ 4,127,955		$ 16,418,525
TOTAL	**231,060**	**$ 19,968,778**	**708,123**	**$ 61,229,809**	**2,741,413**	**$ 231,990,250**

Statement of operations
Comparison-Budget versus Actual
For the month and year to date ended December 31, 2018

	Budget	Actual December-18	Variance	YTD Budget	YTD Actual	Variance
KwH Sales-Civilian	108,038	104,671	3,367	324,865	316,224	8,641
Non-fuel yield	$ 0.105613	$ 0.113709	$ (0.008096)	$ 0.105613	$ 0.111987	$ (0.006374)
KwH Sales-Navy	26,676	26,519	157	76,992	77,991	-999
Non-fuel yield	$ 0.062350	$ 0.059014	$ 0.003336	$ 0.062350	$ 0.061828	$ 0.000522
Operating revenue						
Civilian sales	$ 12,169	$ 11,902	$ 267	$ 36,566	$ 35,413	$ 1,153
Oil	20,779	19,969	810	61,983	61,230	753
Navy	1,663	1,565	98	4,800	4,822	(22)
Other income	168	124	44	505	764	(259)
	34,780	33,560	1,220	103,854	102,229	1,625
Bad debts expense	92	92	-	275	275	-
Total operating revenues	$ 34,688	$ 33,469	$ 1,220	$ 103,580	$ 101,955	$ 1,625
Operating expenses:						
Production fuel	$ 20,779	$ 19,969	$ 810	$ 61,983	$ 61,230	$ 754
O & M expenses:						
Other production	1,850	1,251	600	5,967	3,661	2,306
Transmission distribution	1,230	818	412	3,452	2,533	918
Administrative expense	2,661	2,180	481	7,940	7,510	431
Customer accounting	378	422	(44)	1,166	1,210	(44)
	6,119	4,670	1,449	18,525	14,914	3,611
IPP costs	1,347	1,472	(125)	4,042	4,221	(179)
Depreciation	3,501	2,549	952	10,504	9,884	620
	$ 31,747	$ 28,660	$ 3,086	$ 95,054	$ 90,249	$ 4,805
Operating income	$ 2,941	$ 4,808	$ (1,867)	$ 8,526	$ 11,706	$ (3,180)
Other revenue (expenses):						
Investment income	177	368	(191)	531	885	(354)
Interest expense	(2,454)	(2,395)	(59)	(7,361)	(7,178)	(183)
AFUDC	202	-	202	605	-	605
Bond issuance costs/Other expenses	142	(1,161)	1,304	427	(1,210)	1,637
Net income before capital contribution	1,009	1,620	(613)	2,728	4,203	(1,476)
Grants from the U.S. Government	-	-	-	-	-	-
Increase (decrease) in net assets	$ 1,009	$ 1,620	$ (613)	$ 2,728	$ 4,203	$ (1,476)





Guam Power Authority
Debt service coverage
December 31, 2018

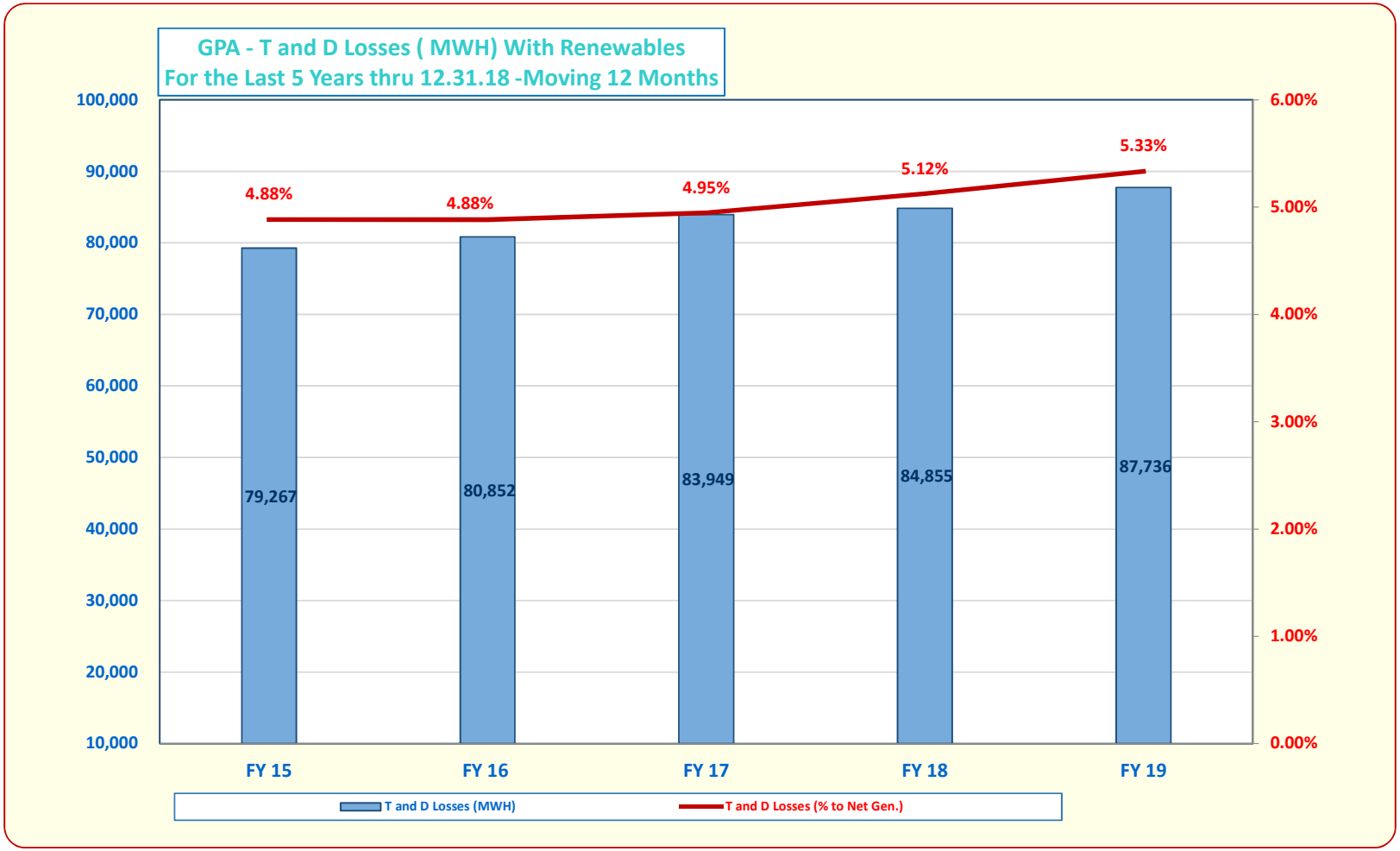
	2015	2016	Restated 2017	Unaudited 2018	YTD Unaudited 2019
Funds Available for Debt Service					
Earnings from Operations	$48,758	$37,981	$36,522	$40,725	$11,706
Interest Income	$368	$1,227	($32)	$1,254	294
Depreciation Expense	41,766	44,240	44,292	38,550	9,884
Balance Available for Debt Service	$90,892	$83,448	$80,782	$80,529	$21,884
IPP - Capital Costs					
Principal	$18,144	$14,819	$21,263	$23,210	$6,306
Interest	8,478	5,970	5,137	3,159	372
Total IPP Payments	$26,622	$20,789	$26,400	$26,369	$6,678
Bond Debt Service					
Principal (1993 & 1999 Revenue Bond)	$0	$0	$0	$0	$0
Interest (1993 & 1999 Revenue Bond)	0	0	0	0	0
Principal and Interest (2010 Subordinate Bond)	9,605	0	0	0	0
Principal and Interest (2010 Senior TE Bond)	7,999	7,999	7,999	2,000	0
Principal and Interest (2012 Senior TE Bond)	17,096	17,098	17,449	17,086	7,867
Principal and Interest (2014 Senior TE Bond)	0	10	5,084	5,083	1,271
Principal and Interest (2017 Senior TE Bond)				5916	1,902
Total	$34,700	$25,107	$30,532	$30,086	$11,040
Debt Service Coverage (DSC) Calculation					
Existing DSC Methodology (Senior)	2.56 x	2.50 x	1.78 x	1.80 x	1.38 x
Existing DSC Methodology (Senior+Subordinate)	1.85 x	2.50 x	1.78 x	1.80 x	1.38 x
Bond Covenant DSC	2.62 x	3.32 x	2.65 x	2.68 x	1.98 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

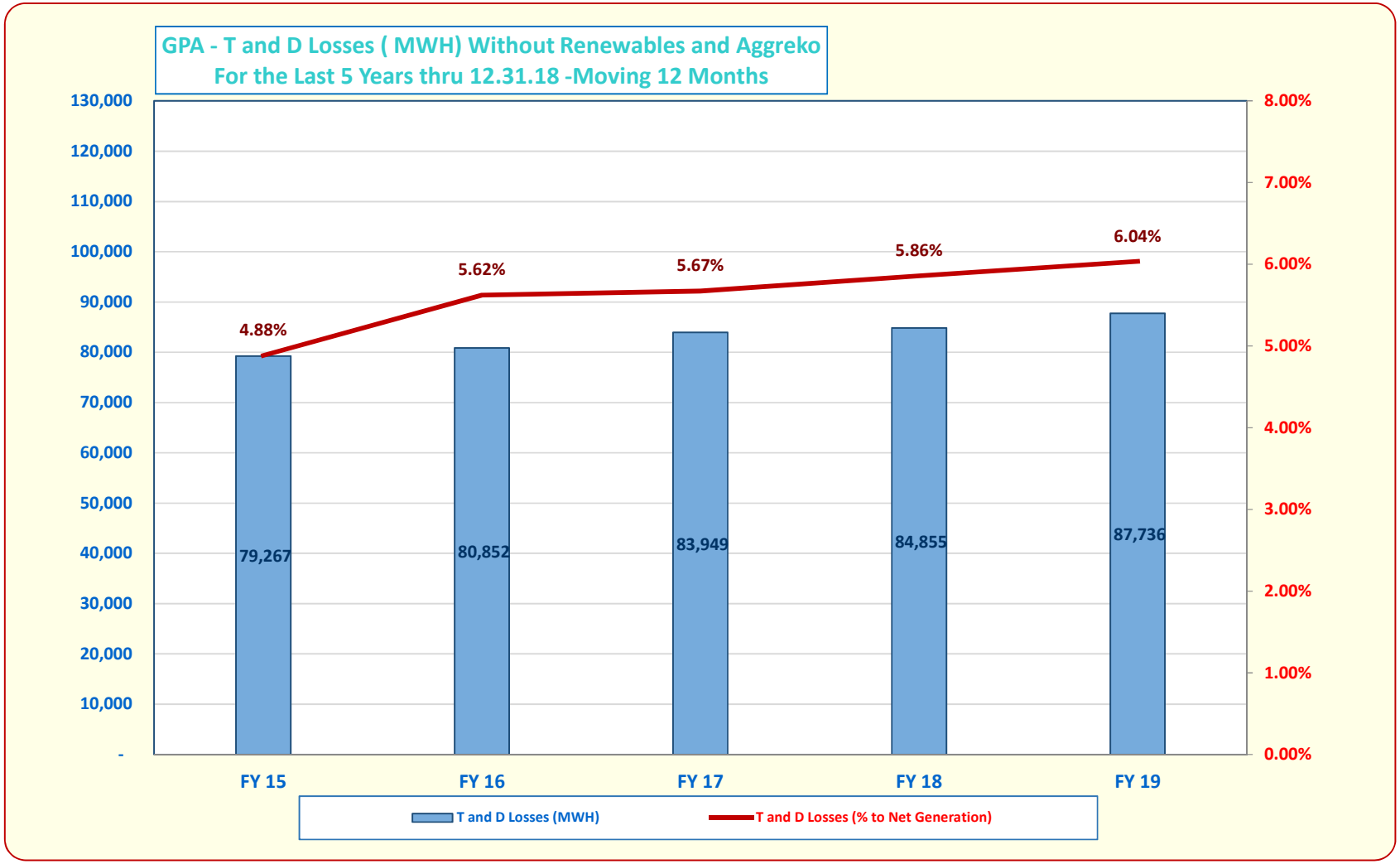
Notes:
(1) Source: Guam Power Authority, 2014 - 2017 Audited Financial Statements
(2) Interest income is net of interest earnings in the Construction Fund and the amortization of deferred credit.
(3) Existing DSC Methodology (Rating Agency Method):
(Operating Earnings + Depreciation Expense - IPP Principal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

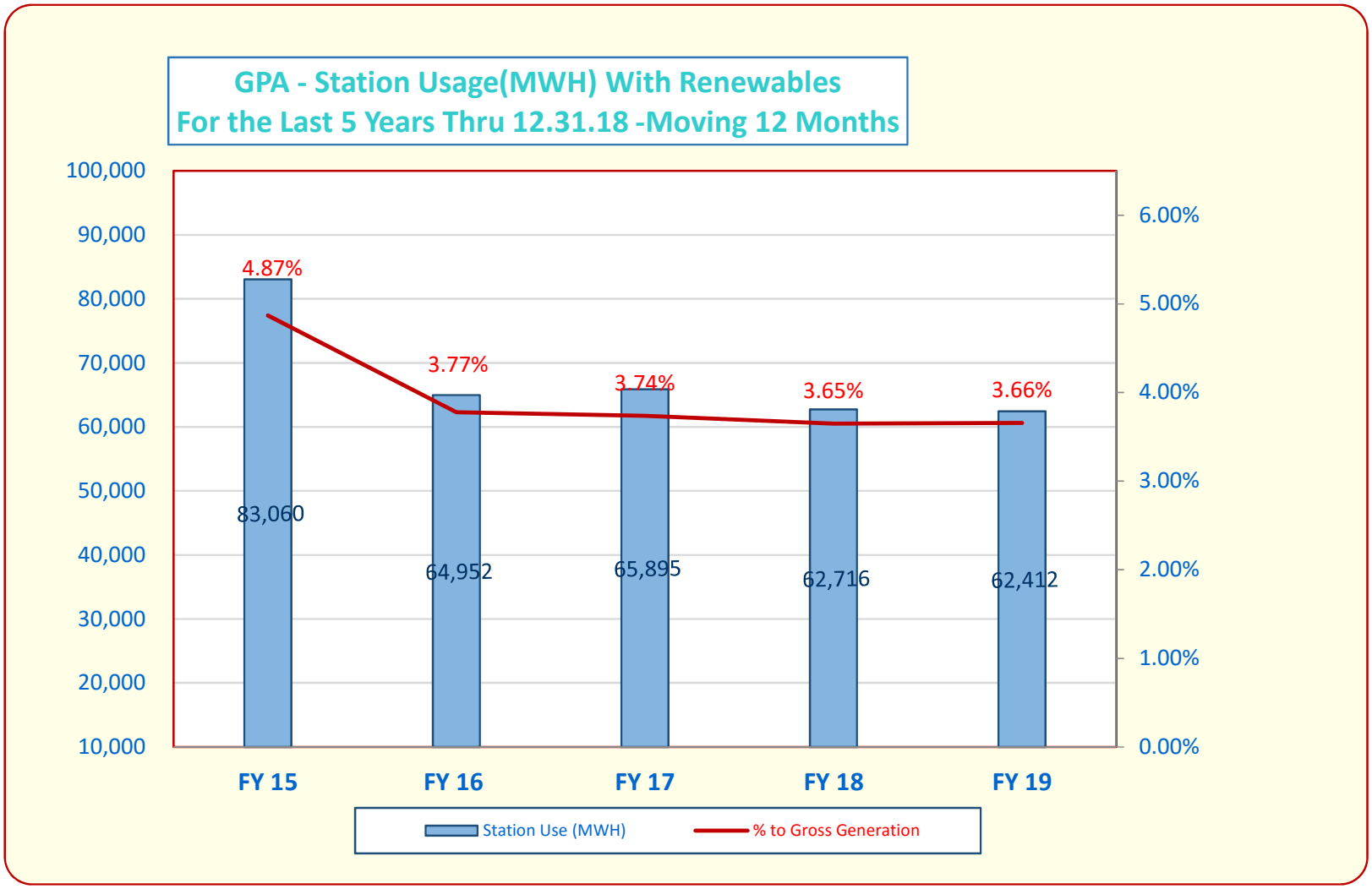
REVENUES-ACTUAL VS PROJECTIONS

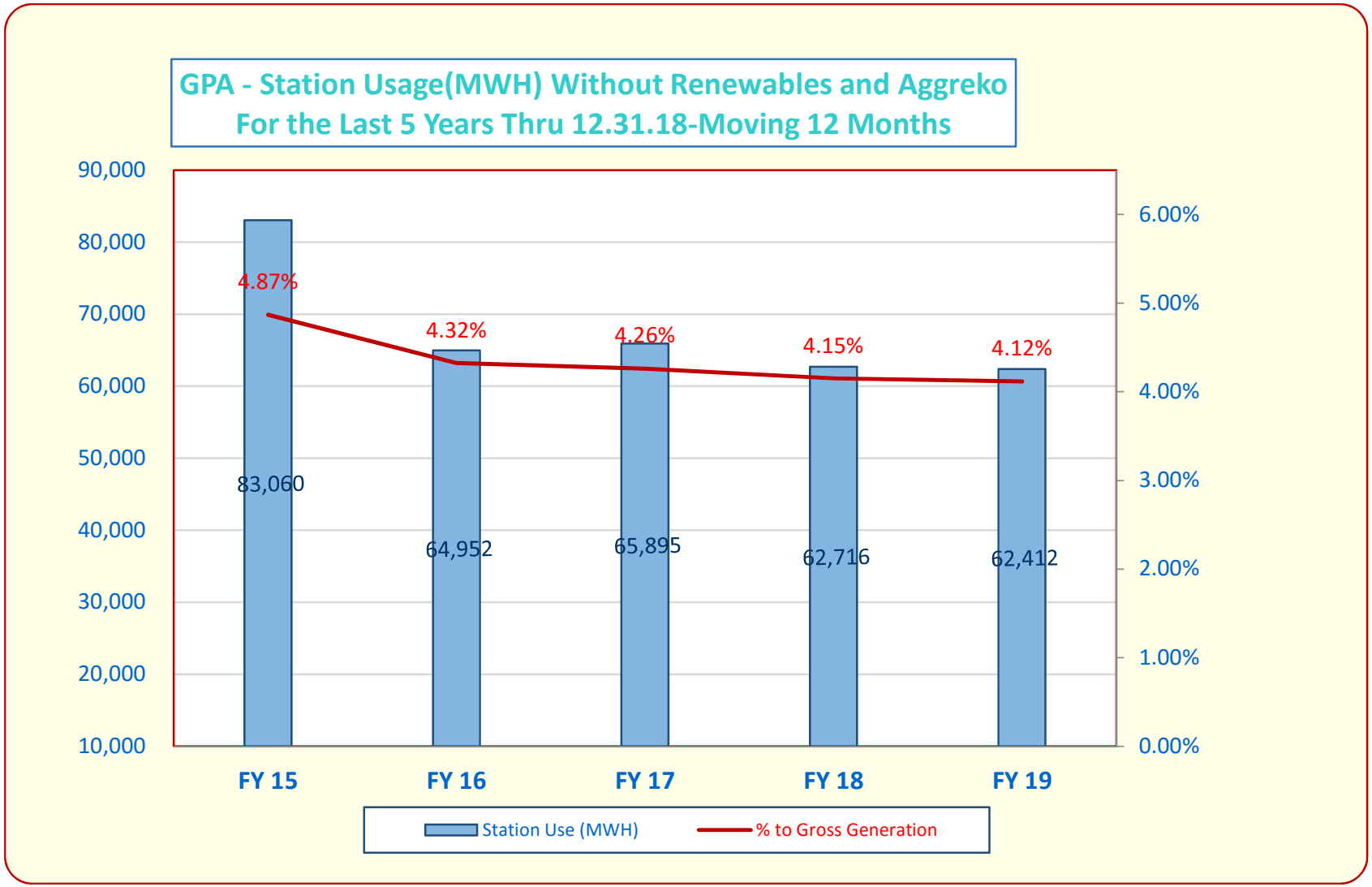
	MONTHLY - DECEMBER 2018				YTD THRU 12/31/2018			
	PROJECTIONS	ACTUAL	VARIANCE	% VARIANCE	PROJECTIONS	ACTUAL	VARIANCE	% VARIANCE
KWH								
Residential	41,871,849	41,291,151	(580,697)	-1.39%	126,615,792	124,634,320	(1,981,472)	-1.56%
Small General-Non-Demand	7,128,941	6,871,789	(257,152)	-3.61%	21,101,141	20,371,824	(729,318)	-3.46%
Small General-Demand	15,711,032	15,425,672	(285,359)	-1.82%	46,621,160	46,112,669	(508,490)	-1.09%
Large	26,804,548	25,790,483	(1,014,065)	-3.78%	80,127,168	76,803,303	(3,323,865)	-4.15%
Independent Power Producers	46,836	28,494	(18,342)	-39.16%	140,006	94,886	(45,120)	-32.23%
Private St. Lites	33,705	33,401	(304)	-0.90%	119,285	100,916	(18,369)	-15.40%
Sub-total	**91,596,910**	**89,440,990**	**(2,155,920)**	**-2.35%**	**274,724,551**	**268,117,917**	**(6,606,634)**	**-2.40%**
Government								
Small_Non Demand	1,168,545	1,218,540	49,995	4.28%	3,585,988	3,547,334	(38,654)	-1.08%
Small-Demand	8,000,971	8,107,721	106,749	1.33%	24,803,907	23,951,997	(851,910)	-3.43%
Large	6,362,036	6,098,140	(263,896)	-4.15%	19,105,957	18,443,774	(662,182)	-3.47%
Public St. Lites	910,007	805,684	(104,323)	-11.46%	2,644,678	2,163,324	(481,354)	-18.20%
Sub-total	**16,441,559**	**16,230,084**	**(211,475)**	**-1.29%**	**50,140,530**	**48,106,430**	**(2,034,100)**	**-4.06%**
Total-Civilian	**108,038,469**	**105,671,074**	**(2,367,395)**	**-2.19%**	**324,865,081**	**316,224,347**	**(8,640,734)**	**-2.66%**
USN	26,676,224	26,518,827	(157,397)	-0.59%	76,992,465	77,991,690	999,226	1.30%
Grand Total	**134,714,694**	**132,189,902**	**(2,524,792)**	**-1.87%**	**401,857,545**	**394,216,037**	**(7,641,508)**	**-1.90%**
					-	-		
Non-Oil Yield								
Residential	0.096102	0.096357	0.000255	0.27%	0.096102	0.096345	0.000243	0.25%
Small General-Non-Demand	0.136352	0.137182	0.000830	0.61%	0.136352	0.137202	0.000850	0.62%
Small General-Demand	0.119289	0.120323	0.001034	0.87%	0.119289	0.119666	0.000377	0.32%
Large	0.103671	0.103115	(0.000556)	-0.54%	0.103671	0.102999	(0.000672)	-0.65%
Independent Power Producers	0.120485	0.109002	(0.011483)	0.00%	0.120485	0.131125	0.010640	0.00%
Private St. Lites	0.568458	0.620002	0.051544	9.07%	0.568458	0.619492	0.051034	8.98%
Sub-total	**0.105613**	**0.105775**	**0.000162**	**0.15%**	**0.105554**	**0.105575**	**0.000022**	**0.02%**
Government					-			
Small_Non Demand	0.150024	0.152134	0.002110	1.41%	0.150024	0.149342	(0.000682)	-0.45%
Small-Demand	0.134359	0.138333	0.003974	2.96%	0.134359	0.132674	(0.001685)	-1.25%
Large	0.126658	0.124588	(0.002070)	-1.63%	0.126658	0.122484	(0.004174)	-3.30%
Public St. Lites	0.482817	0.465067	(0.017750)	-3.68%	0.482817	0.526741	0.043924	9.10%
Sub-total	**0.151779**	**0.150425**	**(0.001354)**	**-0.89%**	**0.150924**	**0.147717**	**(0.003207)**	**-2.13%**
Total-Civilian	**0.154242**	**0.112633**	**(0.041609)**	**-26.98%**	**0.154242**	**0.111986**	**(0.042256)**	**-27.40%**
USN	0.062350	0.059022	(0.003328)	-5.34%	0.062350	0.061827	(0.000523)	-0.84%
Grand Total	**0.102680**	**0.101878**	**(0.000803)**	**-0.78%**	**0.102937**	**0.102063**	**(0.000874)**	**-0.85%**
Non-Oil Revenues								
Residential	4,023,968	3,978,685	(45,284)	-1.13%	12,168,031	12,007,900	(160,130)	-1.32%
Small General-Non-Demand	972,045	942,684	(29,361)	-3.02%	2,877,183	2,795,065	(82,118)	-2.85%
Small General-Demand	1,874,153	1,856,059	(18,094)	-0.97%	5,561,392	5,518,113	(43,279)	-0.78%
Large	2,778,854	2,659,398	(119,456)	-4.30%	8,306,864	7,910,631	(396,233)	-4.77%
Independent Power Producers	5,643	3,106	(2,537)	-44.96%	16,869	12,442	(4,427)	-26.24%
Private St. Lites	19,160	20,709	1,549	8.08%	67,808	62,517	(5,292)	-7.80%
Sub-total	**9,673,824**	**9,460,641**	**(213,184)**	**-2.20%**	**28,998,146**	**28,306,667**	**(691,479)**	**-2.38%**
Government								
Small_Non Demand	175,310	185,382	10,072	5.75%	537,984	529,766	(8,218)	-1.53%
Small-Demand	1,075,002	1,121,568	46,566	4.33%	3,332,628	3,177,800	(154,828)	-4.65%
Large	805,803	759,757	(46,046)	-5.71%	2,419,922	2,259,069	(160,853)	-6.65%
Public St. Lites	439,367	374,697	(64,670)	-14.72%	1,276,896	1,139,511	(137,385)	-10.76%
Sub-total	**2,495,482**	**2,441,404**	**(54,078)**	**-2.17%**	**7,567,430**	**7,106,146**	**(461,285)**	**-6.10%**
Total-Civilian	**12,169,306**	**11,902,044**	**(267,262)**	**-2.20%**	**36,565,576**	**35,412,813**	**(1,152,764)**	**-3.15%**
USN	1,663,263	1,565,181	(98,082)	-5.90%	4,800,480	4,822,013	21,533	0.45%
Grand Total	**13,832,569**	**13,467,226**	**(365,343)**	**-2.64%**	**41,366,056**	**40,234,826**	**(1,131,230)**	**-2.73%**
% of Total Revenues	39.97%	40.28%			40.03%	39.65%		
Oil Revenues								
Residential	6,458,398	6,368,830	(89,568)	-1.39%	19,529,473	19,223,847	(305,626)	-1.56%
Small General-Non-Demand	1,099,582	1,059,918	(39,664)	-3.61%	3,254,682	3,142,191	(112,491)	-3.46%
Small General-Demand	2,423,301	2,378,284	(45,017)	-1.86%	7,190,941	7,109,515	(81,426)	-1.13%
Large	4,134,387	3,959,108	(175,279)	-4.24%	12,358,975	11,790,256	(568,719)	-4.60%
Independent Power Producers	7,224	4,249	(2,975)	-41.18%	21,595	14,119	(7,475)	-34.62%
Private St. Lites	5,199	5,152	(47)	-0.90%	18,399	15,565	(2,833)	-15.40%
Sub-total	**14,128,091**	**13,775,542**	**(352,549)**	**-2.50%**	**42,374,064**	**41,295,493**	**(1,078,571)**	**-2.55%**
Government								
Small_Non Demand	180,239	187,950	7,711	4.28%	553,110	547,148	(5,962)	-1.08%
Small-Demand	1,234,086	1,250,551	16,465	1.33%	3,825,804	3,694,404	(131,400)	-3.43%
Large	981,293	929,029	(52,264)	-5.33%	2,946,941	2,810,652	(136,289)	-4.62%
Public St. Lites	140,361	124,270	(16,091)	-11.46%	407,920	333,675	(74,245)	-18.20%
Sub-total	**2,535,979**	**2,491,801**	**(44,178)**	**-1.74%**	**7,733,776**	**7,385,879**	**(347,897)**	**-4.50%**
Total-Civilian	**16,664,070**	**16,267,342**	**(396,727)**	**-2.38%**	**50,107,840**	**48,681,372**	**(1,426,468)**	**-2.85%**
USN	4,114,594	3,701,436	(413,158)	-10.04%	11,875,472	12,548,437	672,966	5.67%
Grand Total	**20,778,664**	**19,968,778**	**(809,886)**	**-3.90%**	**61,983,311**	**61,229,810**	**(753,502)**	**-1.22%**
% of Total Revenues	60.03%	59.72%			59.97%	60.35%		
Grand Total								
Residential	10,482,366	10,347,514	(134,852)	-1.29%	31,697,504	31,231,747	(465,757)	-1.47%
Small General-Non-Demand	2,071,627	2,002,603	(69,025)	-3.33%	6,131,865	5,937,256	(194,610)	-3.17%
Small General-Demand	4,297,454	4,234,344	(63,111)	-1.47%	12,752,332	12,627,628	(124,705)	-0.98%
Large	6,913,241	6,618,506	(294,735)	-4.26%	20,665,838	19,700,887	(964,952)	-4.67%
Independent Power Producers	12,867	7,355	(5,512)	-42.84%	38,463	26,561	(11,902)	-30.94%
Private St. Lites	24,359	25,860	1,502	6.17%	86,207	78,082	(8,125)	-9.43%
Sub-total	**23,801,915**	**23,236,182**	**(565,733)**	**-2.38%**	**71,372,210**	**69,602,160**	**(1,770,050)**	**-2.48%**
Government					-			
Small_Non Demand	355,549	373,332	17,783	5.00%	1,091,094	1,076,914	(14,180)	-1.30%
Small-Demand	2,309,088	2,372,119	63,031	2.73%	7,158,432	6,872,204	(286,228)	-4.00%
Large	1,787,096	1,688,786	(98,310)	-5.50%	5,366,863	5,069,721	(297,143)	-5.54%
Public St. Lites	579,728	498,967	(80,761)	-13.93%	1,684,816	1,473,186	(211,630)	-12.56%
Sub-total	**5,031,461**	**4,933,204**	**(98,256)**	**-1.95%**	**15,301,206**	**14,492,024**	**(809,181)**	**-5.29%**
Total-Civilian	**28,833,376**	**28,169,387**	**(663,989)**	**-2.30%**	**86,673,416**	**84,094,185**	**(2,579,231)**	**-2.98%**
USN	5,777,857	5,266,617	(511,240)	-8.85%	16,675,952	17,370,451	694,499	4.16%
Grand Total	**34,611,232**	**33,436,004**	**(1,175,229)**	**-3.40%**	**103,349,368**	**101,464,636**	**(1,884,732)**	**-1.82%**
	-	-	-					

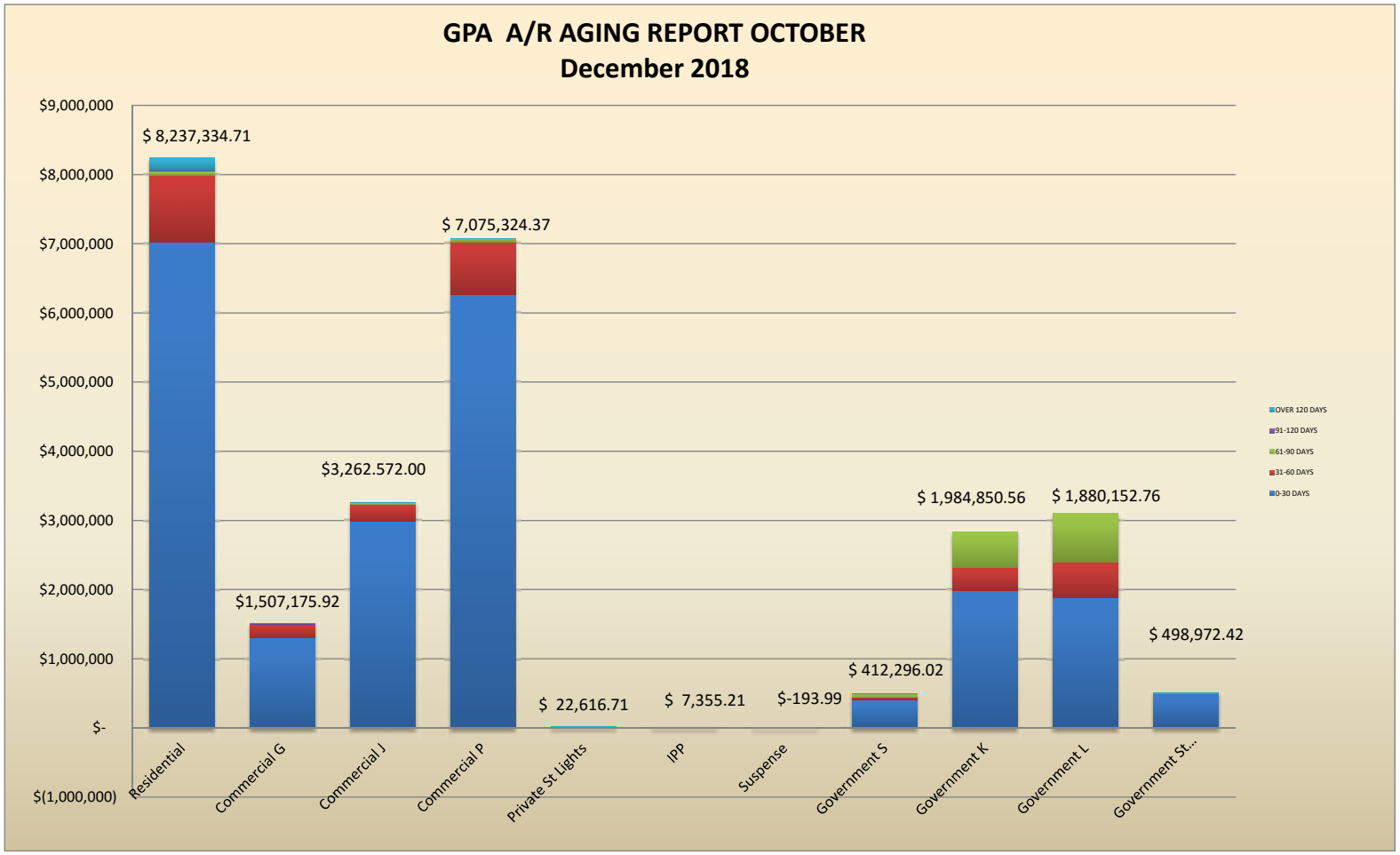
	YTD REVENUES - CURRENT YEAR VS PRIOR YEAR				MTD REVENUES - CURRENT YEAR VS PRIOR YEAR			
	ACTUALS - 3 MONTHS ENDED DECEMBER 31				ACTUALS - MONTH ENDED DECEMBER 31			
	2018	2017	VARIANCE	% VARIANCE	2018	2017	VARIANCE	% VARIANCE
KWH								
Residential	124,634,320	128,376,797	(3,742,477)	-2.92%	41,291,151	43,307,944	(2,016,793)	-4.66%
Small General-Non-Demand	20,371,824	21,083,461	(711,637)	-3.38%	6,871,789	6,956,278	(84,489)	-1.21%
Small General-Demand	46,112,669	47,430,029	(1,317,359)	-2.78%	15,425,672	15,848,505	(422,833)	-2.67%
Large	76,803,303	80,336,690	(3,533,387)	-4.40%	25,790,483	27,485,887	(1,695,404)	-6.17%
Independent Power Producers	94,886	226,207	(131,321)	-58.05%	28,494	40,140	(11,646)	-29.01%
Private St. Lites	100,916	104,022	(3,106)	-2.99%	33,401	35,129	(1,728)	-4.92%
Sub-total	**268,117,917**	**277,557,205**	**(9,439,287)**	**-3.40%**	**89,440,990**	**93,673,883**	**(4,232,893)**	**-4.52%**
Government								
Small_Non Demand	3,547,334	3,778,769	(231,435)	-6.12%	1,218,540	1,272,026	(53,485)	-4.20%
Small-Demand	23,951,997	24,445,741	(493,744)	-2.02%	8,107,721	8,063,549	44,172	0.55%
Large	18,443,774	19,781,131	(1,337,357)	-6.76%	6,098,140	6,812,255	(714,115)	-10.48%
Public St. Lites	2,163,324	2,179,335	(16,011)	-0.73%	805,684	697,921	107,762	15.44%
Sub-total	**48,106,430**	**50,184,976**	**(2,078,547)**	**-4.14%**	**16,230,084**	**16,845,750**	**(615,666)**	**-3.65%**
Total-Civilian	**316,224,347**	**327,742,181**	**(11,517,834)**	**-3.51%**	**105,671,074**	**110,519,633**	**(4,848,559)**	**-4.39%**
USN	77,991,690	80,150,976	(2,159,286)	-2.69%	26,518,827	28,067,673	(1,548,846)	-5.52%
Grand Total	**394,216,037**	**407,893,157**	**(13,677,119)**	**-3.35%**	**132,189,902**	**138,587,306**	**(6,397,405)**	**-4.62%**
Non-Oil Yield								
Residential	0.096345	0.095883	0.000462	0.48%	0.096357	0.095613	0.000744	0.78%
Small General-Non-Demand	0.137202	0.135911	0.001292	0.95%	0.137182	0.136042	0.001140	0.84%
Small General-Demand	0.119666	0.119022	0.000644	0.54%	0.120323	0.120159	0.000164	0.14%
Large	0.102999	0.102733	0.000265	0.26%	0.103115	0.103598	-0.000483	-0.47%
Independent Power Producers	0.131125	0.103021	0.028104	27.28%	0.109002	0.116410	-0.007407	-6.36%
Private St. Lites	0.619492	0.615532	0.003960	0.64%	0.620002	0.609688	0.010314	1.69%
Sub-total	**0.105575**	**0.105061**	**0.000514**	**0.49%**	**0.105775**	**0.105313**	**0.000462**	**0.44%**
Government								
Small_Non Demand	0.149342	0.149421	-0.000079	-0.05%	0.152134	0.150372	0.001762	1.17%
Small-Demand	0.132674	0.134166	-0.001492	-1.11%	0.138333	0.136059	0.002275	1.67%
Large	0.122484	0.125503	-0.003019	-2.41%	0.124588	0.126298	-0.001709	-1.35%
Public St. Lites	0.526741	0.470422	0.056319	11.97%	0.465067	0.479701	-0.014633	-3.05%
Sub-total	**0.147717**	**0.146502**	**0.001215**	**0.83%**	**0.150425**	**0.147429**	**0.002995**	**2.03%**
Total-Civilian	**0.111986**	**0.111407**	**0.000580**	**0.52%**	**0.112633**	**0.111732**	**0.000901**	**0.81%**
USN	0.061827	0.061069	0.000759	1.24%	0.059022	0.057230	0.001792	3.13%
Grand Total	**0.102063**	**0.101515**	**0.000548**	**0.54%**	**0.101878**	**0.100694**	**0.001184**	**1.18%**
Non-Oil Revenues								
Residential	12,007,900	12,309,158	(301,258)	-2.45%	3,978,685	4,140,786	(162,102)	-3.91%
Small General-Non-Demand	2,795,065	2,865,464	(70,400)	-2.46%	942,684	946,344	(3,660)	-0.39%
Small General-Demand	5,518,113	5,645,216	(127,103)	-2.25%	1,856,059	1,904,339	(48,280)	-2.54%
Large	7,910,631	8,253,260	(342,629)	-4.15%	2,659,398	2,847,494	(188,096)	-6.61%
Independent Power Producers	12,442	23,304	(10,862)	-46.61%	3,106	4,673	(1,567)	-33.53%
Private St. Lites	62,517	64,029	(1,512)	-2.36%	20,709	21,417	(709)	-3.31%
Sub-total	**28,306,667**	**29,160,431**	**(853,764)**	**-2.93%**	**9,460,641**	**9,865,054**	**(404,414)**	**-4.10%**
Government								
Small_Non Demand	529,766	564,629	(34,863)	-6.17%	185,382	191,277	(5,895)	-3.08%
Small-Demand	3,177,800	3,279,789	(101,988)	-3.11%	1,121,568	1,097,115	24,454	2.23%
Large	2,259,069	2,482,592	(223,523)	-9.00%	759,757	860,372	(100,615)	-11.69%
Public St. Lites	1,139,511	1,025,206	114,304	11.15%	374,697	334,793	39,904	11.92%
Sub-total	**7,106,146**	**7,352,215**	**(246,070)**	**-3.35%**	**2,441,404**	**2,483,557**	**(42,153)**	**-1.70%**
Total-Civilian	**35,412,813**	**36,512,647**	**(1,099,834)**	**-3.01%**	**11,902,044**	**12,348,611**	**(446,567)**	**-3.62%**
USN	4,822,013	4,894,717	(72,703)	-1.49%	1,565,181	1,606,307	(41,126)	-2.56%
Grand Total	**40,234,826**	**41,407,364**	**(1,172,538)**	**-2.83%**	**13,467,226**	**13,954,918**	**(487,693)**	**-3.49%**
% of Total Revenues								
Oil Revenues								
Residential	19,223,847	15,112,260	4,111,587	27.21%	6,368,830	5,098,125	1,270,705	24.92%
Small General-Non-Demand	3,142,191	2,481,903	660,288	26.60%	1,059,918	818,879	241,039	29.44%
Small General-Demand	7,109,515	5,581,522	1,527,993	27.38%	2,378,284	1,865,075	513,209	27.52%
Large	11,790,256	9,409,673	2,380,583	25.30%	3,959,108	3,220,246	738,862	22.94%
Independent Power Producers	14,119	25,742	(11,623)	-45.15%	4,249	4,576	(327)	-7.14%
Private St. Lites	15,565	12,245	3,320	27.11%	5,152	4,135	1,017	24.58%
Sub-total	**41,295,493**	**32,623,345**	**8,672,148**	**26.58%**	**13,775,542**	**11,011,036**	**2,764,505**	**25.11%**
Government								
Small_Non Demand	547,148	444,829	102,319	23.00%	187,950	149,740	38,210	25.52%
Small-Demand	3,694,404	2,877,704	816,700	28.38%	1,250,551	949,225	301,326	31.74%
Large	2,810,652	2,300,647	510,004	22.17%	929,029	792,433	136,596	17.24%
Public St. Lites	333,675	256,547	77,129	30.06%	124,270	82,158	42,112	51.26%
Sub-total	**7,385,879**	**5,879,727**	**1,506,152**	**25.62%**	**2,491,801**	**1,973,556**	**518,244**	**26.26%**
Total-Civilian	**48,681,372**	**38,503,072**	**10,178,300**	**26.44%**	**16,267,342**	**12,984,593**	**3,282,749**	**25.28%**
USN	12,548,437	8,853,372	3,695,066	41.74%	3,701,436	3,035,823	665,613	21.93%
Grand Total	**61,229,810**	**47,356,444**	**13,873,366**	**29.30%**	**19,968,778**	**16,020,416**	**3,948,363**	**24.65%**
% of Total Revenues								
Grand Total								
Residential	31,231,747	27,421,418	3,810,329	13.90%	10,347,514	9,238,911	1,108,603	12.00%
Small General-Non-Demand	5,937,256	5,347,367	589,888	11.03%	2,002,603	1,765,223	237,379	13.45%
Small General-Demand	12,627,628	11,226,738	1,400,889	12.48%	4,234,344	3,769,415	464,929	12.33%
Large	19,700,887	17,662,933	2,037,954	11.54%	6,618,506	6,067,740	550,766	9.08%
Independent Power Producers	26,561	49,046	(22,485)	-45.84%	7,355	9,249	(1,894)	-20.48%
Private St. Lites	78,082	76,274	1,808	2.37%	25,860	25,553	308	1.20%
Sub-total	**69,602,160**	**61,783,776**	**7,818,384**	**12.65%**	**23,236,182**	**20,876,091**	**2,360,092**	**11.31%**
Government								
Small_Non Demand	1,076,914	1,009,458	67,456	6.68%	373,332	341,017	32,315	9.48%
Small-Demand	6,872,204	6,157,492	714,712	11.61%	2,372,119	2,046,340	325,780	15.92%
Large	5,069,721	4,783,239	286,481	5.99%	1,688,786	1,652,805	35,981	2.18%
Public St. Lites	1,473,186	1,281,753	191,433	14.94%	498,967	416,951	82,016	19.67%
Sub-total	**14,492,024**	**13,231,943**	**1,260,082**	**9.52%**	**4,933,204**	**4,457,113**	**476,091**	**10.68%**
Total-Civilian	**84,094,185**	**75,015,719**	**9,078,466**	**12.10%**	**28,169,387**	**25,333,204**	**2,836,183**	**11.20%**
USN	17,370,451	13,748,089	3,622,362	26.35%	5,266,617	4,642,130	624,487	13.45%
Grand Total	**101,464,636**	**88,763,807**	**12,700,828**	**14.31%**	**33,436,004**	**29,975,334**	**3,460,670**	**11.55%**


GPA - T and D Losses (MWH) With Renewables
For the Last 5 Years thru 12.31.18 -Moving 12 Months
100,000
90,000
80,000
70,000
60,000
50,000
40,000
30,000
20,000
10,000
6.00%
5.00%
4.00%
3.00%
2.00%
1.00%
0.00%
4.88%
4.88%
4.95%
5.12%
5.33%
79,267
80,852
83,949
84,855
87,736
FY 15
FY 16
FY 17
FY 18
FY 19
T and D Losses (MWH)
T and D Losses (% to Net Gen.)


GPA - T and D Losses (MWH) Without Renewables and Aggreko
For the Last 5 Years thru 12.31.18 -Moving 12 Months
130,000
120,000
110,000
100,000
90,000
80,000
70,000
60,000
50,000
40,000
30,000
20,000
10,000
-
8.00%
7.00%
6.00%
5.00%
4.00%
3.00%
2.00%
1.00%
0.00%
4.88%
5.62%
5.67%
5.86%
6.04%
79,267
80,852
83,949
84,855
87,736
FY 15
FY 16
FY 17
FY 18
FY 19
T and D Losses (MWH)
T and D Losses (% to Net Generation)


GPA - Station Usage(MWH) With Renewables
For the Last 5 Years Thru 12.31.18 -Moving 12 Months
100,000
90,000
80,000
70,000
60,000
50,000
40,000
30,000
20,000
10,000
6.00%
5.00%
4.00%
3.00%
2.00%
1.00%
0.00%
4.87%
3.77%
3.74%
3.65%
3.66%
83,060
64,952
65,895
62,716
62,412
FY 15
FY 16
FY 17
FY 18
FY 19
Station Use (MWH)
% to Gross Generation


GPA - Station Usage(MWH) Without Renewables and Aggreko
For the Last 5 Years Thru 12.31.18-Moving 12 Months
90,000
80,000
70,000
60,000
50,000
40,000
30,000
20,000
10,000
6.00%
5.00%
4.00%
3.00%
2.00%
1.00%
0.00%
4.87%
4.32%
4.26%
4.15%
4.12%
83,060
64,952
65,895
62,716
62,412
FY 15
FY 16
FY 17
FY 18
FY 19
Station Use (MWH)
% to Gross Generation


GPA A/R AGING REPORT OCTOBER
December 2018
$9,000,000
$8,000,000
$7,000,000
$6,000,000
$5,000,000
$4,000,000
$3,000,000
$2,000,000
$1,000,000
$-
$(1,000,000)
$ 8,237,334.71
$1,507,175.92
$3,262.572.00
$ 7,075,324.37
$ 22,616.71
$ 7,355.21
$-193.99
$ 412,296.02
$ 1,984,850.56
$ 1,880,152.76
$ 498,972.42
Residential
Commercial G
Commercial J
Commercial P
Private St Lights
IPP
Suspense
Government S
Government K
Government L
Government St...
OVER 120 DAYS
91-120 DAYS
61-90 DAYS
31-60 DAYS
0-30 DAYS

GUAM POWER AUTHORITY
ATURIDÅT ILEKTRESEDÅT GUAHAN
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Issues for Decision

Resolution No. 2019-03:

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 great pressure on GPA base rate funding affecting GPA Debt Service Coverage requirements. At that point, GPA would have to severely 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.**

- **Managing consumer growth in its energy consumption and demand is critical until 2022 upon the commissioning of the new power plant.**

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 (LEAC)

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

RESOLUTION NO. 2019-03

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 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 GPA's Demand Side Management (DSM) Program rebates and other related 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's consultant, Leidos, submitted GPA's Energy Sense Program Plan proposing an additional 18 programs that GPA could consider as DSM initiatives; and,

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

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

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

WHEREAS, Exhibit A Figures A-1 and A-2 illustrate the exponential growth year over year in the amount DSM Program rebate payments since FY 2016; and,

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

WHEREAS, GPA has budgeted $400,000 for DSM Program related expenses for FY 2019 and for FY 2019 GPA has identified an additional $1 million from insurance property premium savings as the additional funding sources for the DSM program; and,

WHEREAS, the current available funding will eventually run out and does not support the rollout of any additional programs; and,

WHEREAS, DSM Program exponential growth is volatile: subject or characterized by rapid change; and,

Resolution No.: 2019-03
EXHIBIT A

WHEREAS, the Levelized Energy Adjustment Clause (LEAC) is expenses like fuel that have a volatile nature from base rates; and,

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

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

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

WHEREAS, to date, annual energy savings from the program is approximately 3,185 MWh; and,

WHEREAS, to date, demand savings from the program is approximately 0.72MW; and,

WHEREAS, an evaluation of a 5 MW reduction in demand shows and $800 - $1800 per day fuel savings due primarily to efficient use of units during GPA peak period; and,

WHEREAS, GPA has paid nearly $2.4 million to its customers for over 7400 rebate applications, yielding an average customer rebate amount per application of $320; and,

WHEREAS, in addition to initial appliance savings for the customer, customers could be saving $250 - $400 a year based on a 2 SEER improvement on appliance equipment for 9000 BTU and 12000 BTU sized split air conditioners as projected in Table A-2 of Exhibit A; and,

WHEREAS, the GPA system peak demand continues to climb as illustrated on Figure A-3 in Exhibit A; and,

WHEREAS, as GPA progresses on the procurement for the New Power Plant, managing consumer energy use and demand is critical through 2022 upon commissioning of the new power plant.

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

1. The General Manager is authorized to petition DSM Program Funding Recommendations which places DSM funding under LEAC to the Guam Public Utilities Commission.
2. The General Manager is authorized to conduct an information campaign supporting these recommendations.

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

Resolution No.: 2019-03
EXHIBIT A

DULY and REGULARY ADOPTED this 26th day of February 2019.

Certified by: **Attested by:**

JOSEPH T. DUENAS	**MICHAEL T. LIMTIACO**
CHAIRMAN	**SECRETARY**

SECRETARY'S CERTIFICATE

I, Michael T. Limtiaco, 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.: 2019-03

EXHIBIT A

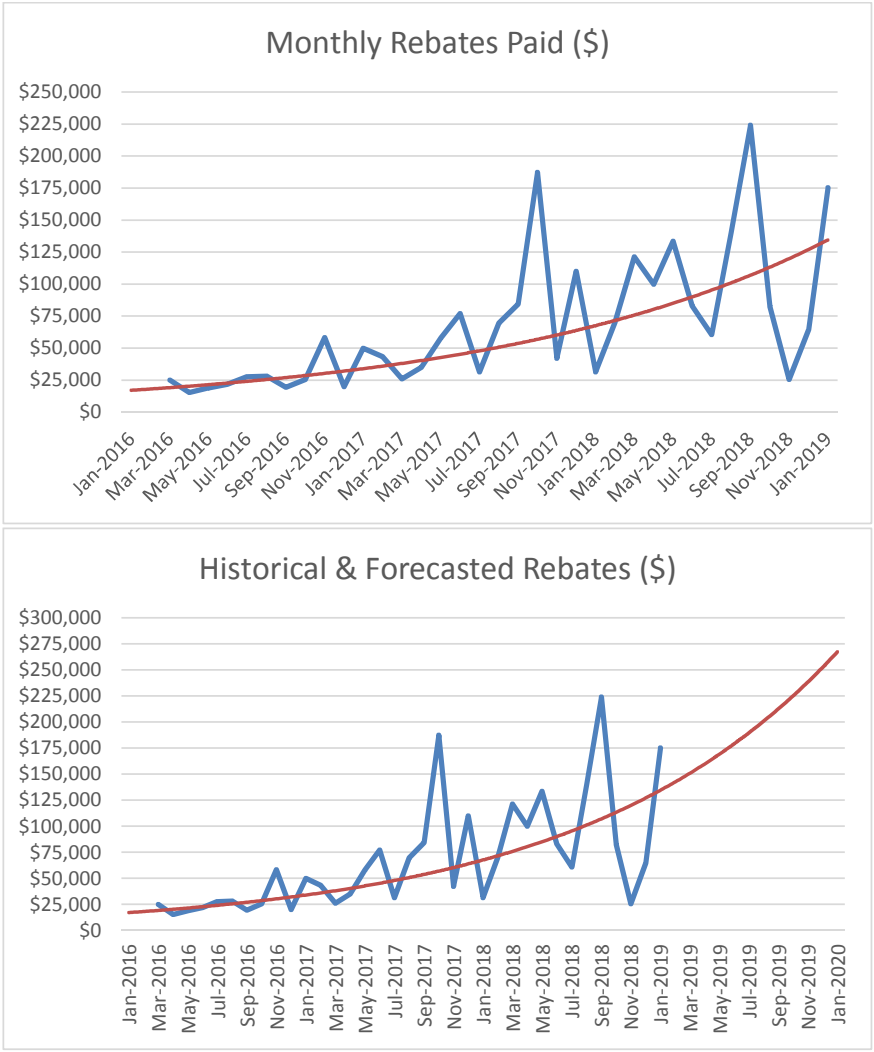


Figure A-1. Historical and Forecast Monthly DSM Rebate Expenses

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

Resolution No.: 2019-03
EXHIBIT A

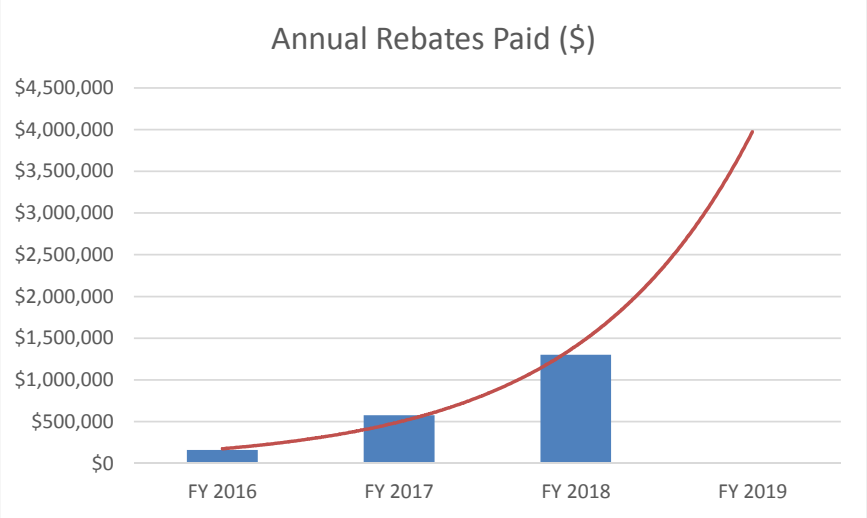


Figure A-2. Historical and Forecasted Annual DSM Rebate Expenses

Table A-1. Annual Rebate Summary

Description	Year Paid	Total Rebate Amount	Count of Applications	Avg. Rebate per Application
Rebates-Split A/Cs	2016	$ 253,500	693	$ 366
	2017	$ 798,426	2519	$ 317
	2018	$ 1,073,575	3385	$ 317
	2019	$ 158,150	463	$ 342
Rebates-Split A/Cs Total		**$ 2,283,652**	**7060**	**$ 323**
Rebates- Washer/Dryers	2016	$ 4,700	36	$ 131
	2017	$ 7,325	29	$ 253
	2018	$ 57,400	212	$ 271
	2019	$ 17,000	65	$ 262
Rebates- Washer/Dryers Total		**$ 86,425**	**342**	**$ 253**
Rebates-Central A/Cs	2016	$ 7,200	8	$ 900
	2017	$ 5,800	8	$ 725
	2018	$ 3,600	6	$ 600
	2019	$ -	0	$ -
Rebates-Central A/Cs Total		**$ 16,600**	**22**	**$ 755**
Grand Total		**$ 2,386,677**	**7424**	**$ 321**

Resolution No.: 2019-03
EXHIBIT A

Table A-2. Customer Savings Projections for 2 SEER Improvement

AC Size	New SEER	Annual KWH Savings	Annual Cost Savings 2017	2018	2019	Reduction in Demand (KW)	Reduction in Demand x 1000 (MW)	Reduction in Demand x 2000 (MW)
9000	22	1579	$ 175.83	$ 237.98	$ 243.49	0.36	0.36	0.72
12000	18	2486	$ 276.87	$ 374.72	$ 383.39	0.57	0.57	1.14
18000	22	3157	$ 351.66	$ 475.96	$ 486.97	0.72	0.72	1.44
24000	20	4561	$ 508.03	$ 687.60	$ 703.50	1.04	1.04	2.08
36000	20	6842	$ 762.05	$ 1,031.40	$ 1,055.26	1.56	1.56	3.12

1. Assumes 12 hours cooling period per day.
2. Annual Average LEAC charges ($/KWH):

FY 2017	$ 0.11139
FY 2018	$ 0.15076
FY 2019	$ 0.15424

Table A-3. Fuel Savings Projections for 5 MW Demand Reduction

Scenario	Reference Date	Peak	Fuel Costs Savings for 5 MW Demand Reduction Daily	Annual
No Baseload Outages, High Peak	8/1/2017	261	$ 800	$ 292,000
1 Baseload Unit offline, Avg. Peak	10/15/2018	234	$ 1,800	$ 657,000

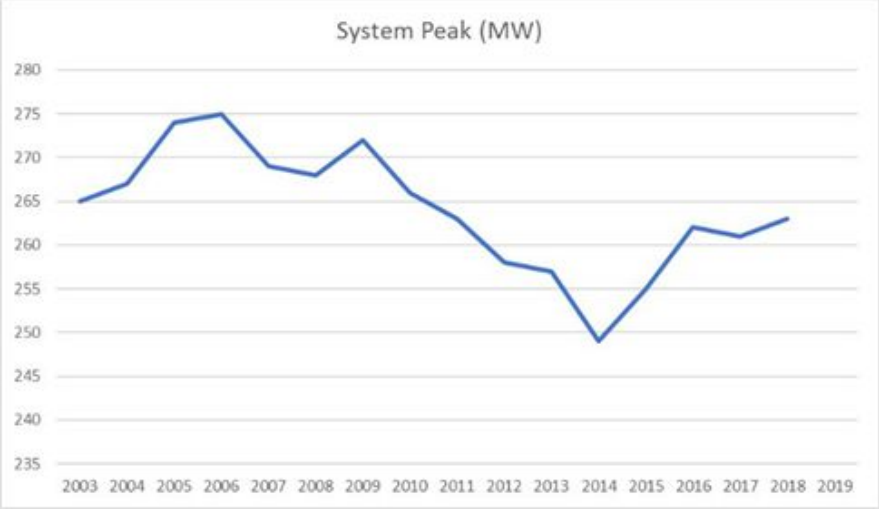


Figure A-3. System Peak (MW)

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

Issues for Decision

Resolution Nos. GPA 2019-04 & GWA 15-FY2019

Relative to Adoption and Implementation of a Unified Holiday Personnel Management Policy for the Guam Power Authority

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

The CCU has directed GPA and GWA ("GPWA") to review their existing policies regarding personnel management, wage obligations and official recognition of holidays set by statute and those set by executive order. GPWA management has determined that a unified policy for both utilities should be in place to set forth how the various holidays shall affect GPWA's management, employees and customers. The CCU has solicited comments from GPA & GWA General Managers, General Counsels and Assistant General Managers regarding the proposed UNIFIED HOLIDAY PERSONNEL MANAGEMENT POLICY. Management of GPA and GWA request the Consolidated Commission on Utilities to adopt the proposed UNIFIED HOLIDAY PERSONNEL MANAGEMENT POLICY.

GPWA's holidays shall follow the holiday schedule listed at **1 GCA §1000 (a)** as it may be amended from time to time and shall be posted on each agency's website at the beginning of the calendar year. In the event a non-permanent holiday is declared by Executive Order of the Governor of Guam as allowed by **1 GCA §1000 (c)**, GPWA shall recognize said declaration and observe the holiday accordingly. Although GPWA will be observing the holiday, the policy of the utilities will be to provide customer service and GPWA's General Managers shall determine each agency's business needs for holidays declared by Executive Order, and ensure that employees and ratepayers are duly notified. GPWA Management is requesting the CCU to delegate to the General Managers the power to determine each agency's business needs on permanent and non-permanent Government of Guam holidays.

Where is the location?

Guam Power Authority and Guam Waterworks Authority

REFERENCE:

1 GCA §1000. HOLIDAYS

(a) The holidays of Guam are:
(1) New Year's Day;
(2) Martin Luther King, Jr. Day, the third Monday in January;
(3) Guam History and Chamorro Heritage Day, the first Monday in March;
(4) Memorial Day, the last Monday in May;
(5) Independence Day, July 4th;
(6) Liberation Day, July 21st;
(7) Labor Day, the first Monday in September;
(8) All Souls' Day, November 2;
(9) Veterans' Day, November 11;
(10) Thanksgiving, the fourth Thursday in November;
(11) Our Lady of Camarin Day, December 8; and
(12) Christmas, December 25th.

(b) Whenever a holiday listed in Subsection (a) of this Section falls on a Saturday or Sunday, the government of Guam shall follow the Federal government's practice for that holiday.

(c) In addition to the holidays specified in Subsection (a) of this Section, I Maga'lahen Guåhan may declare by Executive Order additional non-permanent holidays for special purposes. No holiday declared by Executive Order shall be continued beyond the year in which the Executive Order is issued.

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

GPA RESOLUTION NO. 2019-04
GWA RESOLUTION NO. 15-FY2019

ADOPTION AND IMPLEMENTATION OF A UNIFIED HOLIDAY PERSONNEL MANAGEMENT POLICY FOR THE GUAM POWER AUTHORITY AND THE GUAM WATERWORKS AUTHORITY

WHEREAS, the CCU has directed GPA and GWA ("GPWA") to review their existing policies regarding personnel management, wage obligations and official recognition of holidays set by statute and those set by executive order; and

WHEREAS, GPWA management has determined that a unified policy for both utilities should be in place to set forth how the various holidays shall affect GPWA's management, employees and customers; and

WHEREAS, the CCU has solicited comments from GPA & GWA General Managers, General Counsels and Assistant General Managers regarding the proposed UNIFIED HOLIDAY PERSONNEL MANAGEMENT POLICY; and

WHEREAS, management of GPA and GWA request the Consolidated Commission on Utilities to adopt the proposed UNIFIED HOLIDAY PERSONNEL MANAGEMENT POLICY.

NOW, THEREFORE, BE IT RESOLVED, by the CONSOLIDATED COMMISSION ON UTILITIES as follows:

(1) GPWA's holidays shall follow the holiday schedule listed at 1 GCA §1000 (a) as it may be amended from time to time and shall be posted on each agency's website at the beginning of the calendar year;

(2) In the event a non-permanent holiday is declared by Executive Order of the Governor of Guam as allowed by 1 GCA §1000 (c), GPWA shall recognize said declaration and observe the holiday accordingly;

(3) Although GPWA will be observing the holiday, the policy of the utilities will be to provide customer service and GPWA's General Managers shall determine each agency's business needs for holidays declared by Executive Order, and ensure that employees and ratepayers are duly notified;

(4) The CCU hereby delegates to the General Managers the power to determine each agency's business needs on permanent and non-permanent Government of Guam holidays.

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

DULY and REGULARLY ADOPTED AND APPROVED THIS 26th day of February, 2019.

Certified By:	**Attested By:**
_____	_____
Joseph T. Duenas	**Michael T. Limtiaco**
Chairperson	Secretary
Consolidated Commission on Utilities	Consolidated Commission on Utilities

SECRETARY'S CERTIFICATE

I, Michael T. Limtiaco, 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 a 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: _____

Presentation To:

Consolidated Commission on Utilities

February 26, 2019

Issues for Resolution

GWA Signatories for Financial Transactions

Relative to New Signatories That May Authorize Payments on Behalf of Guam Waterworks Authority

GWA Resolution No. 13-FY2019

What are the project's objectives of the proposed changes and are they necessary and urgent?

- To update signatories based on recent changes in management.

Where is the location?

- Various financial institutions including but not limited to the Bank of Guam, Bank of Hawaii, First Hawaiian Bank, Community First, Coast360, ANZ Guam, Bank Pacific, etc.

How much will it cost?

- No cost.

When will it be completed?

- Immediately upon adoption of this resolution.

Re-Establishment of Customer Refund Account

Relative to the Authorization for the Guam Waterworks Authority to Close and Reestablish its Customer Refund Account with the Bank of Guam

GWA Resolution No. 14-FY2019

What are the project's objectives of the proposed changes and are they necessary and urgent?

- To close and establish a new Customer Refund Account, as recommended by the bank, due to recent fraudulent activities detected in the account.

Where is the location?

- Bank of Guam

How much will it cost?

- Incidental costs for ordering new checks.

When will it be completed?

- Immediately upon adoption of this resolution.

GPWA Holiday Personnel Management Policy

Relative to Adoption and Implementation of a Unified Holiday Personnel Management Policy for the Guam Power Authority

Resolution No. 15-FY2019

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

- The CCU has directed GPA and GWA ("GPWA") to review their existing policies regarding personnel management, wage obligations and official recognition of holidays set by statute and those set by executive order. GPWA management has determined that a unified policy for both utilities should be in place to set forth how the various holidays shall affect GPWA's management, employees and customers. The CCU has solicited comments from GPA & GWA General Managers, General Counsels and Assistant General Managers regarding the proposed UNIFIED HOLIDAY PERSONNEL MANAGEMENT POLICY. Management of GPA and GWA request the Consolidated Commission on Utilities to adopt the proposed UNIFIED HOLIDAY PERSONNEL MANAGEMENT POLICY.
- GPWA's holidays shall follow the holiday schedule listed at 1 GCA §1000 (a) as it may be amended from time to time and shall be posted on each agency's website at the beginning of the calendar year. In the event a non-permanent holiday is declared by Executive Order of the Governor of Guam as allowed by 1 GCA §1000 (c), GPWA shall recognize said declaration and observe the holiday accordingly. Although GPWA will be observing the holiday, the policy of the utilities will be to provide customer service and GPWA's General Managers shall determine each agency's business needs for holidays declared by Executive Order, and ensure that employees and ratepayers are duly notified. GPWA Management is requesting the CCU to delegate to the General Managers the power to determine each agency's business needs on permanent and non-permanent Government of Guam holidays.

(continued on next page)

GPWA Holiday Personnel Management Policy (cont'd)

Relative to Adoption and Implementation of a Unified Holiday Personnel Management Policy for the Guam Power Authority and Guam Waterworks Authority

Resolution No. 15-FY2019

Where is the location?

- Guam Power Authority and Guam Waterworks Authority.

REFERENCE:

1 GCA §1000. HOLIDAYS

(a) The holidays of Guam are:

(1) New Year's Day;
(2) Martin Luther King, Jr. Day, the third Monday in January;
(3) Guam History and Chamorro Heritage Day, the first Monday in March;
(4) Memorial Day, the last Monday in May;
(5) Independence Day, July 4th;
(6) Liberation Day, July 21st;
(7) Labor Day, the first Monday in September;
(8) All Souls' Day, November 2;
(9) Veterans' Day, November 11;
(10) Thanksgiving, the fourth Thursday in November;
(11) Our Lady of Camarin Day, December 8; and
(12) Christmas, December 25th.

(b) Whenever a holiday listed in Subsection (a) of this Section falls on a Saturday or Sunday, the government of Guam shall follow the Federal government's practice for that holiday.

(c) In addition to the holidays specified in Subsection (a) of this Section, I Maga'lahen Guåhan may declare by Executive Order additional non-permanent holidays for special purposes. No holiday declared by Executive Order shall be continued beyond the year in which the Executive Order is issued.

Ratification of Security Services

Relative to Ratification for Security Services (IFB 2015-01) in Excess of the General Manager's Authority

Resolution No. 16-FY2019

What are the project's objectives of the proposed changes and are they necessary and urgent?

- There is an ongoing need to maintain the existing security services at several GWA facilities.

Where is the location?

- GWA Upper Tumon Facility to include the main building and inside the customer service area, the laboratory, customer parking lot, warehouse, and FMES area.

How much will it cost?

- Fifteen Thousand Three Hundred Fifty-Six Dollars and Nine Cents ($15,356.09) (Ratification amount).

When will it be completed?

- This contract ended on January 2019.

What is the funding source?

- Revenue funded.

Job Standard - Assistant General Manager of Operations

Relative to the Amendment of the Assistant General Manager of Operations (AGMO) Classification Standards

Resolution No. 17-FY2019

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

- To amend the Assistant General Manager of Operations job standards and salary range based on the 10th market percentile, 2017 market data; to facilitate the recruitment of the AGM position to support the Authority's daily operations of its Water and Wastewater Divisions, and construction and maintenance functions thereby providing effective and efficient delivery of safe drinking water and services to the community.
- The CCU has mandated the recruitment of additional senior management support. The Authority currently employs one Assistant General Manager for Compliance & Safety and one Assistant General Manager – Administration & Support. The AGM of Operations position remains unfilled, while the operational divisions function remains under the supervision of the General Manager, affecting the efficiency and responsiveness of operations among Superintendents or Managers, who are addressing the water/wastewater needs of our community.

Where is the location?

- The Assistant General Manager of Operations will be under the direct supervision and management of the General Manager while overseeing and ensuring optimal performance of our Water and Wastewater Divisions.

(continued on next page)

Job Standard - Assistant General Manager of Operations (cont'd)

Relative to the Amendment of the Assistant General Manager of Operations (AGMO) Classifications Standards

Resolution No. 17-FY2019

When will it be completed?

- Public Law 34-131, §(e) as added and 4 GCA §6303 (d) & (2C), 5GCA, Chapter 10, Article 1 (Sunshine Law) requires GPA and GWA to post a petition on their websites for ten (10) days (not including Saturdays, Sundays and government of Guam holidays). After the 10 days posting, the petition can then be forwarded to the CCU for their disposition at any regularly scheduled meeting. GWA has met the posting requirements.
- Additionally, Guam law requires notice of such posting to each newspaper of general circulation and broadcasting station, which airs regular news programs within Guam.

What is the funding source?

- The position will be revenue funded.

Policy on Time Standard for Issuance of Back Bills

Relative to Establishing a Policy for Time Standards for Issuing Back Bills for Faulty Water Meters

Resolution No. 18-FY2019

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

- To clarify areas within GWA rules and regulations which are silent about timing and issuance of back bills, and to recommend policy based on recent discussions by Commission Members about this topic. GWA Management proposes the Commission adopt the recommended policy on acceptable timeframes for these activities. The proposed policy is based on the following activities required within the involved GWA divisions:

- **Customer Service (Water Meter Exchange)**

1. Work order created.
2. Water meter replaced and sent to testing facility.
3. Work order information submitted to customer service for recording into customer billing system.
4. Work order and new water meter information entered and posted into customer billing system.
5. Notice of meter replacement is automatically generated and sent to customer.
6. Meter exchange process takes up to 10 working days or 2 weeks to complete.

- **Meter Test Facility**

1. Water meter received from field team and tested.
2. Testing results transmitted to Customer Service.
3. Testing results entered and posted into Customer Billing system.
4. If testing indicates a faulty water meter, then notice is automatically generated and sent to customer's that a back-bill may be forthcoming.
5. Process takes up to 30 working days or 2.5 months to complete.

(continued on next page)

Policy on Time Standard for Issuance of Back Bills (cont'd)

Relative to Establishing a Policy for Time Standards for Issuing Back Bills for Faulty Water Meters

Resolution No. 18-FY2019

- **Finance (Issuing Back Bill)**

1. For customers determined to have faulty water meters:
2. Print water meter exchange and testing documentation, review, calculate back-billing amount, submit to supervisor for sign off.
3. Notice to customer manually generated with billing adjustment details and sent to customer.
4. Billing adjustments are entered and posted into Customer Billing system.
5. Documents generated by finance scanned and shared with customer service to support future customer inquiries.
6. Process runs concurrently with water meter testing process and takes up to 70 working days or 3.5 months to complete.

Where is the location?

- The time standards affect the following departments: Customer Service (water meter exchange task force), Meter Test Facility, IT and Finance. Each department is responsible to refine its processes to ensure time standards are met for issuing back bills.

When will it be completed?

- Time Standards will be effective upon adoption of the policy resolution

What is the funding source?

- No additional funding is required

Baza Gardens Wastewater Cross-Island Pumping/Conveyance Design

Relative to Approval of Funding Increase to the Baza Gardens Wastewater Cross-Island Pumping and Conveyance System Design Contract

Resolution No. 19-FY2019

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

- During the course of the on-going Baza Gardens Wastewater Cross-Island Pumping and Conveyance System construction project, in which the construction completion period had been extended a couple of times, the need for additional design services during construction for responses to RFI's, as-built survey work of completed structures, archeological monitoring of excavations near Agat, and the re-design of the final surface grading at the Baza Gardens treatment plant site have emerged.
- This authorization will fund the additional services as noted above and is necessary for the completion of the $30M Baza Gardens Wastewater Cross-Island Pumping and Conveyance System construction projects.

Where is the location?

Former Baza Gardens WWTP, as well as along Routes 17 and 2A in Yona, Santa Rita and Agat.

How much will it cost?

The additional funding authorization per this resolution is One Hundred Thousand Dollars and Zero Cents ($100,000.00) which will increase the total funding for design services to a maximum of Three Million Three Hundred Fifty-Eight Thousand Nine Hundred Four Dollars and Eighty Cents ($3,358,914.80).

When will it be completed?

GWA estimated the overall project will be completed by April 2019.

What is the funding source?

Funding for the additional services will be from Bond Funds under the line items CIP WW 09-08 and WW 11-03, Internally Funded CIP fund or SDC, as applicable

GUAM CCU

GUAM WATERWORKS AUTHORITY

Management Report
January 19, 2019
GWA Work Session

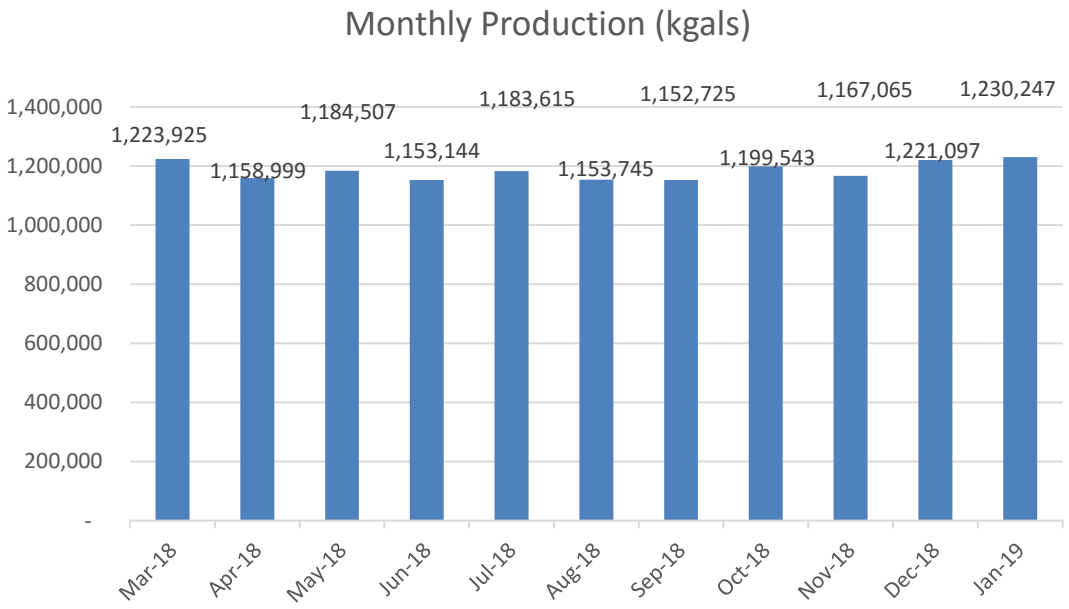
GUAM WATERWORKS AUTHORITY

Operations Update

Production:

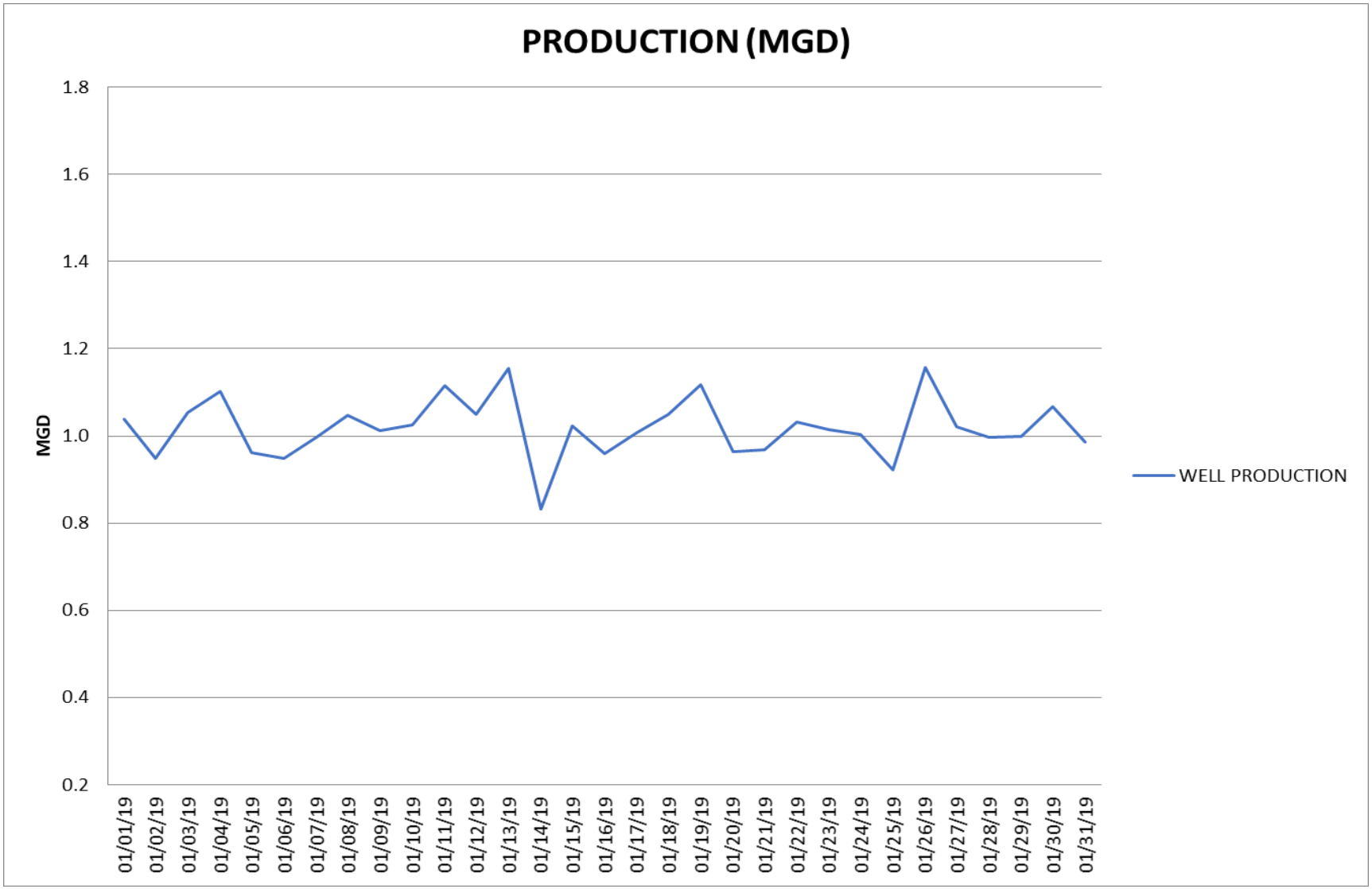
Monthly Production Summary - January 2019					
Deep Wells				36.7	MGD
	Active wells =	100	of 120		
	Avg days in operation =	31	days		
	Total Production =	1,136,301	Kgals		
Springs				0.00	MGD
	Avg days in operation =	0	days	*placed on standby	
	Total Production =	0	Kgals		
Ugum Surface Water Plant				2.0	MGD
	Avg days in operation =	31	days		
	Total Production =	60,545	Kgals		
Tumon Maui Well				1.08	MGD
	Avg days in operation =	31	days		
	Total Production =	33,401	Kgals		
		1,230,247	Kgals	39.7	MGD

DW Status as of 1/31/2019	
Active	100
Grounded motor or Pump Failure	4
Out of commission	9
Secured, PFOs	2
Standby	5
TOTAL	120



GUAM WATERWORKS AUTHORITY

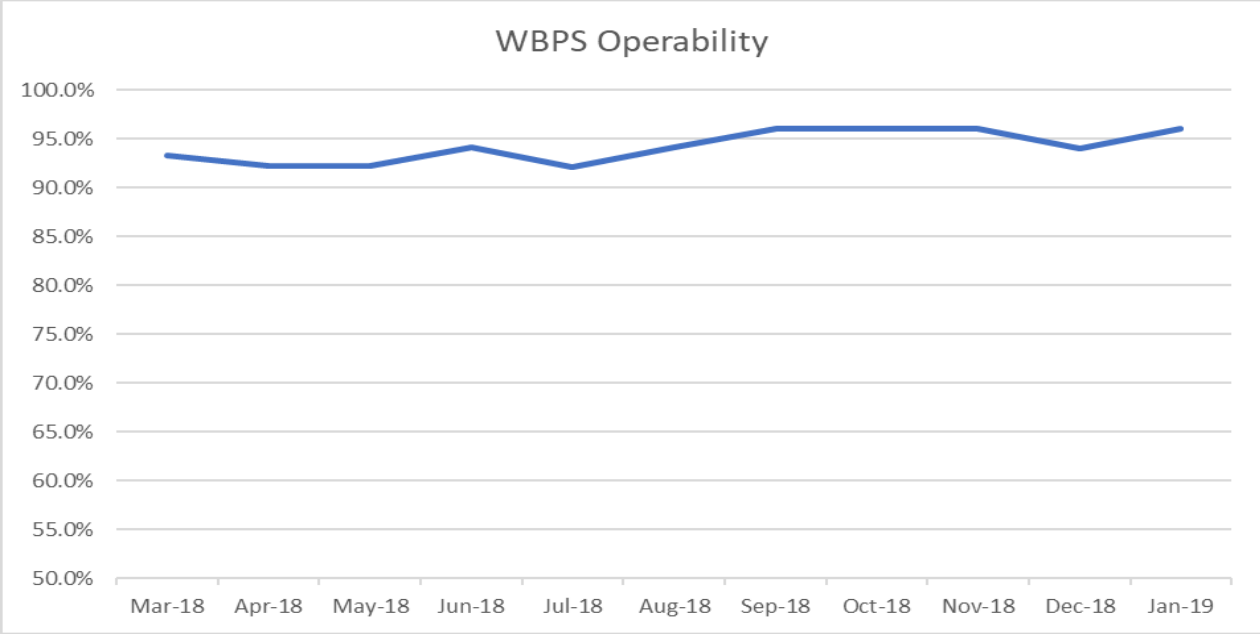
Tumon Maui Well Production for January 2019



GUAM WATERWORKS AUTHORITY

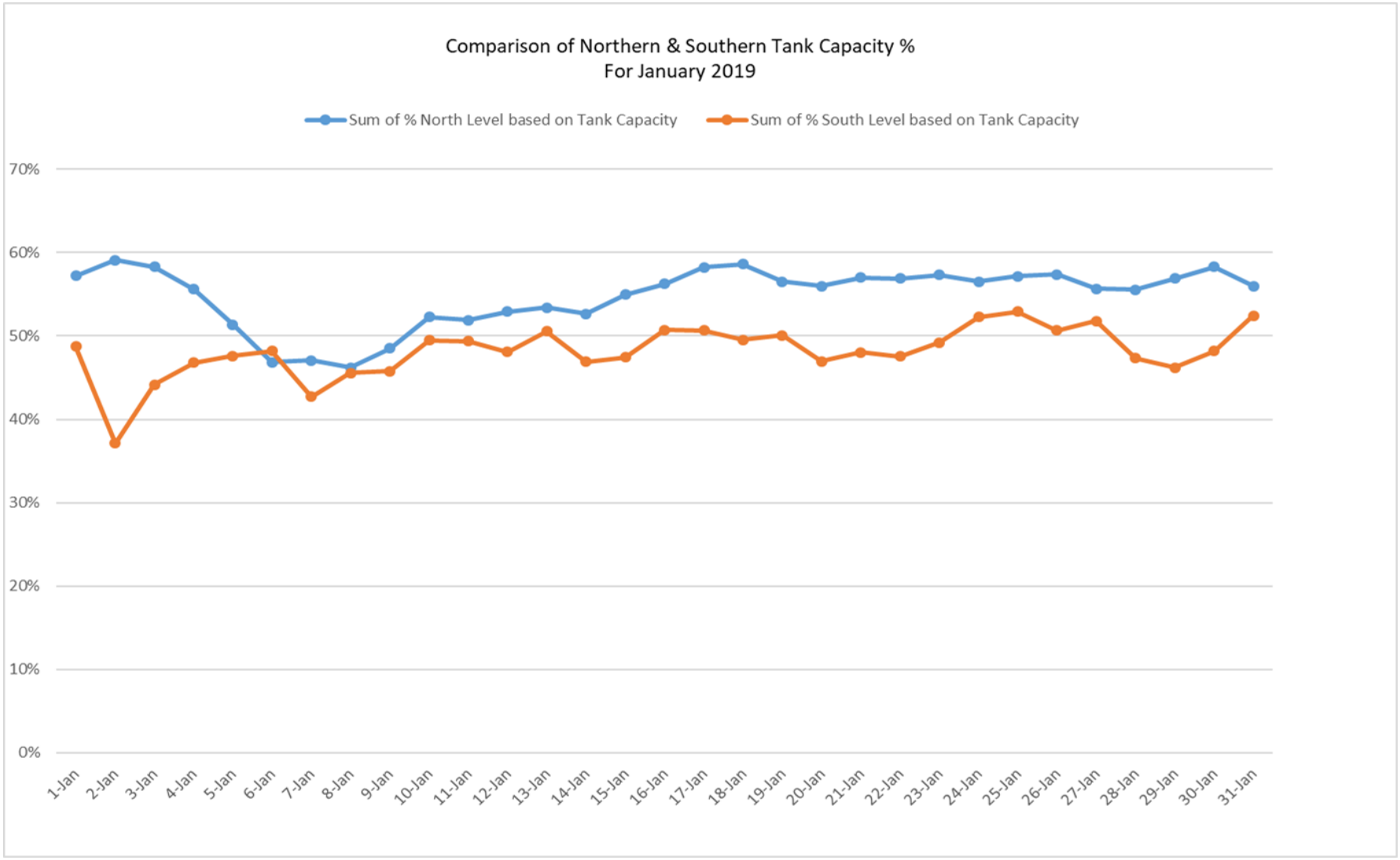
Distribution

Monthly Distribution Summary - January 2019					
Water Booster Pump Stations					
	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	11	20	19	95.0%
	Central	7	15	15	100.0%
	Southern	7	15	14	93.3%
		25	50	48	96.0%



GUAM WATERWORKS AUTHORITY

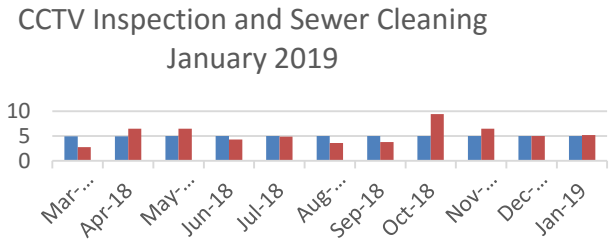
Distribution – Tank Levels (January 2019)



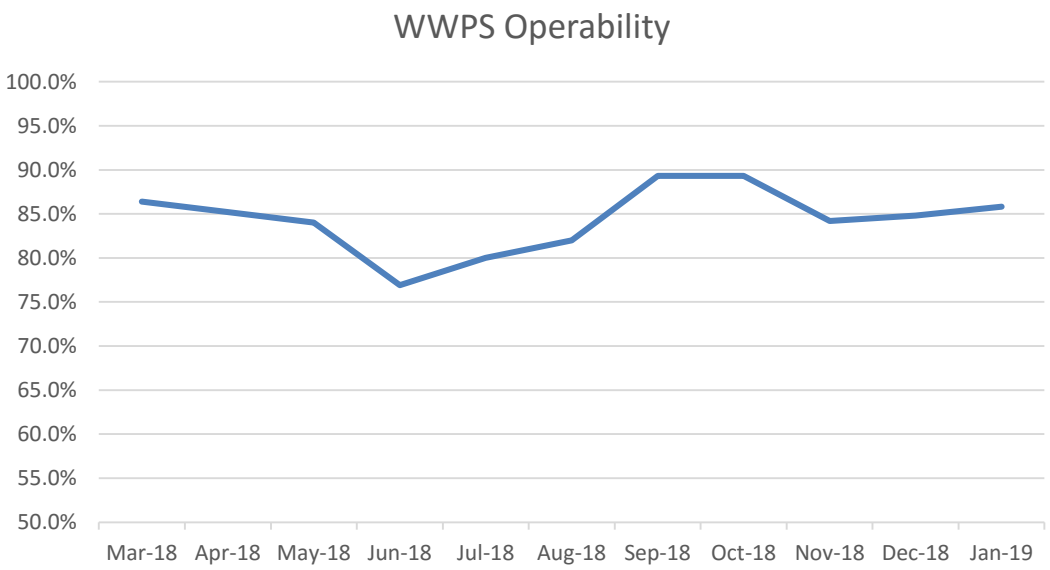
GUAM WATERWORKS AUTHORITY

Wastewater Collections

Monthly Collections Summary - January 2019					
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	42	80.8%
		76	169	145	85.8%



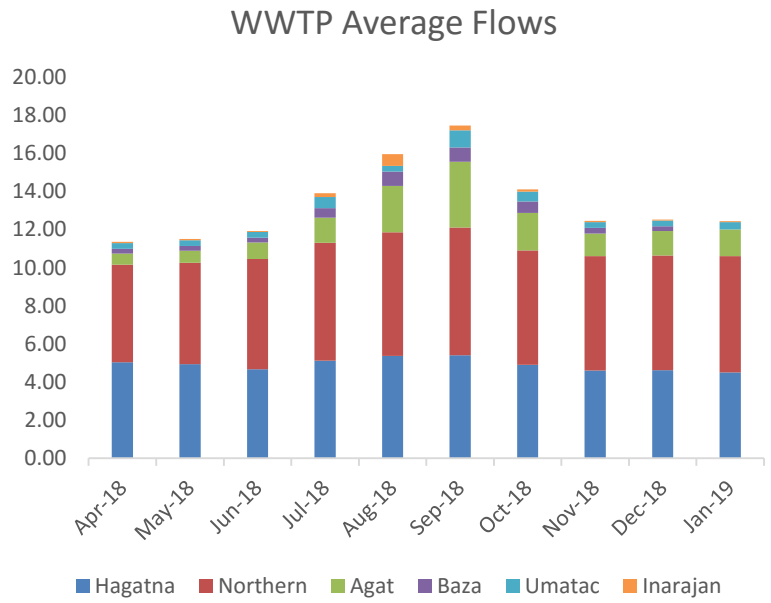
	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19
Target	4.95	4.95	5	5	5	5	5	5	5	5	5
Total Actual Miles	2.8	6.5	6.5	4.3	4.9	3.62	3.81	9.4	6.5	5	5.2



GUAM WATERWORKS AUTHORITY

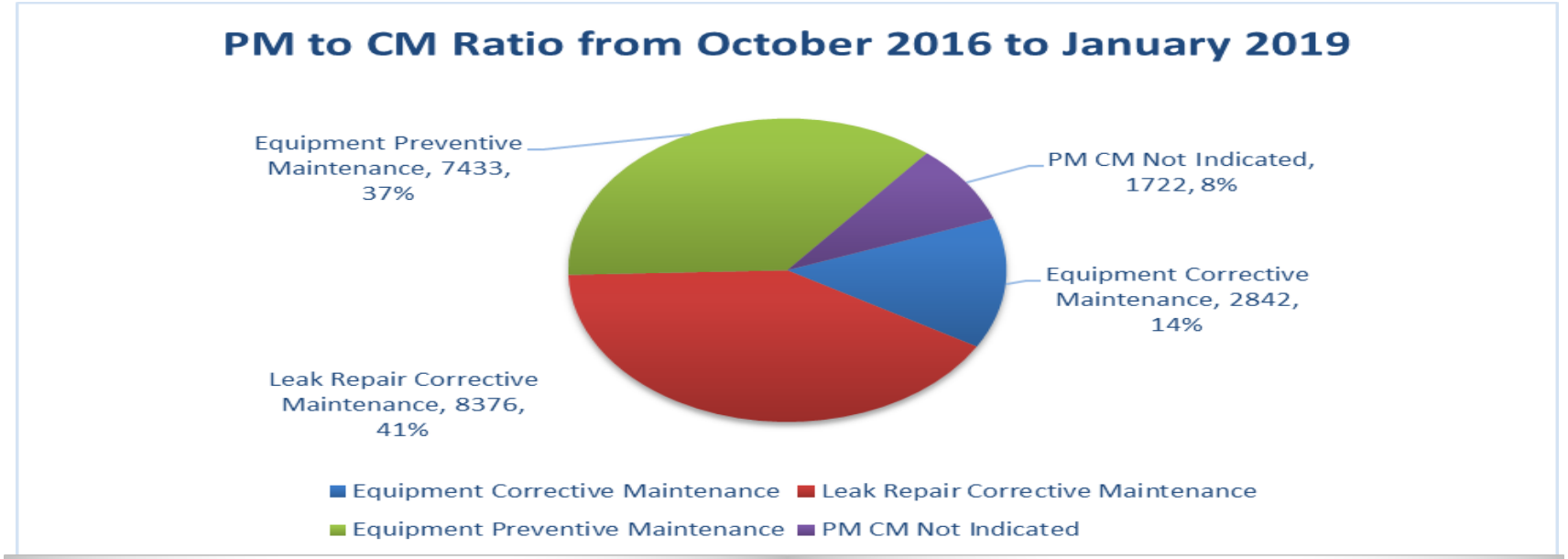
Wastewater Treatment

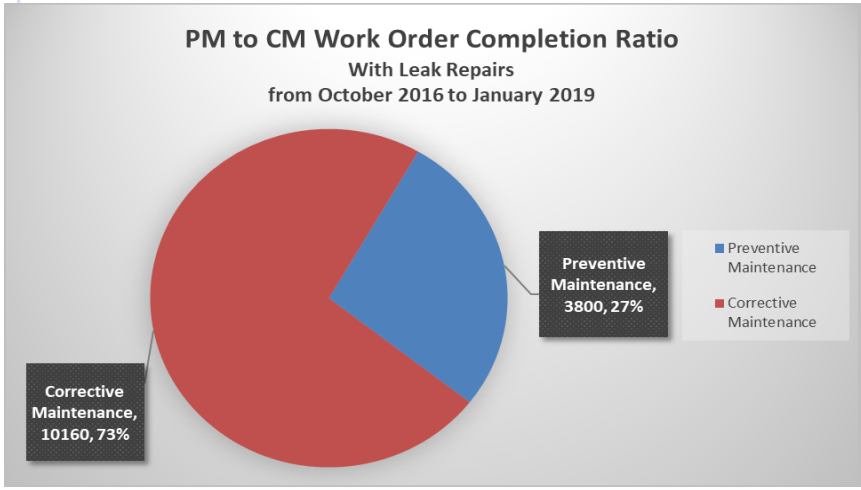
Monthly Wastewater Treatment Summary - November 2018				
WW Treatment Plants - Flows				
	Facility	**Avg. Daily Flows**	**Sludge (lbs)**	**Sludge Disp. ($)**
	Hagatna	4.50	307,380	$ 27,664
	Northern	6.1	830,460	$ 74,741
	Agat	1.4		
	Baza	0.00		
	Umatac	0.39		
	Inarajan	0.05		
		12.44	1,137,840	$ 102,406

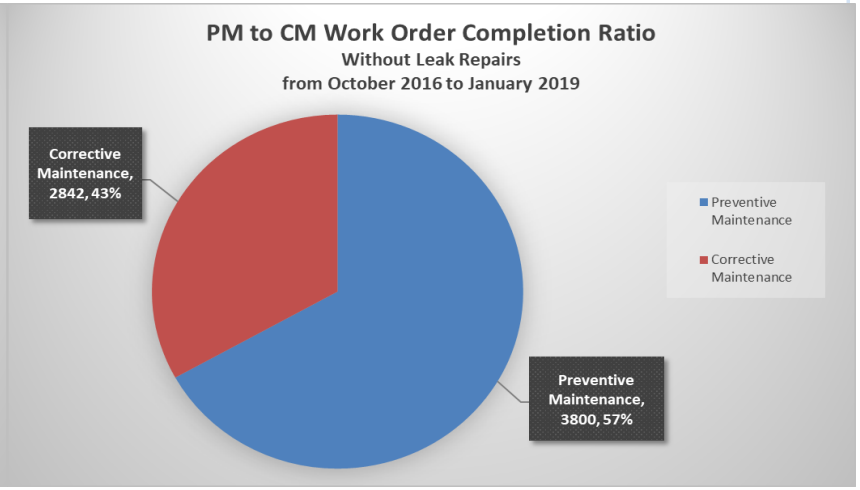


GUAM WATERWORKS AUTHORITY

Asset Management for January 2019







GUAM WATERWORKS AUTHORITY

Operational Issues

Production & Distribution

- Leak repair/detection
  - Crews maintaining performance - Currently, there are 11 pending repairs
  - Five Main Breaks yesterday – restoration complete in all areas
  - Remote leak detection services contract underway – Images received; field work tentatively scheduled for February
    - 194 Points of Interest
    - 6% highlighted out of 627 miles of pipe
    - Harmon and Tiyan area
- WSCC/Dispatch –
  - SCADA preparation pending room modifications (GPA)
  - Call Center training and certification completed in January – 5 of 6 attendees are now certified
- Production
  - Currently 6 wells down
  - Working on production and distribution issues affecting Yigo and Chaot reservoirs
  - New PFOS/PFAS Action Plan released by US EPA

Wastewater Collection & Treatment

- CCTV & Collections System:
  - Two of three combination trucks returned to service
  - CCTV target met for November 2018, short for December 2018, but okay for the year.
- Pump stations
  - Still working to address pump operability issues
  - Critical spares and replacements procurement – orders pending

GUAM WATERWORKS AUTHORITY

Meters from January 2017 through January 2019

COMPLETED FIELD ACTIVITY JAN 2017 THRU JAN 2019 (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	Oct-18	Nov-18	Dec-18	Jan-19	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	1366	950	1206	1330	18727	598
GWA - Meter Exchange	393	179	220	276	482	353	501	807	1526	1039	452	259	239	1086	2120	121	121	1056	1248	1125	767	744	1620	3106	158	19998	0
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	6	7	10	8	2912	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	2	5	40	27	5968	0
TOTAL:	453	312	343	743	1360	878	1351	2237	3733	2337	1095	1418	2203	3283	4505	2082	237	2362	2050	2621	1417	2118	2582	4362	1523	47605	598

# OF METERS TESTED AS PER METER TEST FACILITY REPORTS:	345	350	144	252	305	210	302	397	1013	1130	927	704	721	1041	1347	815	671	544	1159	1216	1013	1179	1345	1208	937	19275	
# 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	500	1209	1412	1188	6206	$ 2,499,902.66

# 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	25	25	25	1	
# 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	5	5	5	0	
# 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	2	2	2	0	
# 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	2	2	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	N/A	5	5	5	
TOTAL:	30	18	22	22	38	37	31	45	58	50	48	48	20	32	11	10	7	47	31	34	34	34	39	39	8	

*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 occuring 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

Project on hold pending new shipment of meters effective 12/22/18

REMAINING ACTIVE BADGER LP MODELS AS OF JAN 31, 2019: 11676

GUAM WATERWORKS AUTHORITY

Meters for January 2019

ACTIVE LP MODELS - PURCHASE MO & YEAR	COUNT	
2012	6501	10785 WARRANTY EXPIRED
2013	4284	
Feb-14	38	891 ACTIVE WARRANTY
Mar-14	1	
Apr-14	648	
Jun-14	9	
Aug-14	195	
TOTAL :	11676	

METER INVENTORY AMR Meters

Stock #	Size	Meter Description	New Meters	Passed Field Meters	MMP	Meters Available	Meters at MTF	Total Count	Remarks
60484	3/4"	METER, Badger AMR 5/8" X 3/4" RCDL Model M25 Disc Meter	95	50	0	145	17	162	
74131	3/4"	METER, Badger AMR 5/8" x 3/4" **WARRANTY** RCDL Model M25	0	0		0	4	4	1EA. @ KEN A
65293	3/4"	METER,Badger 5/8"x3/4" NSF61-G RCDL M25LL Disc Meter Integral	0	3	0	3	0	3	
74131	3/4"	METER, Badger AMR 5/8" x 3/4" RCDL Model M25 ***RMI***	0			0	13	13	

*NOTE :95 ea.Reserved for New Install only.(NEW METERS)

GUAM WATERWORKS AUTHORITY

One Guam Update – February 14, 2019

- Santa Rosa Tank:
  - Still waiting for response from Andersen CES regarding the MOU for the Santa Rosa Tank project.
- OEA Projects
  - NGLA Observation Wells –Andersen safety was concerned about one of the proposed wells. WERI provided an alternative location for the well. It new location is outside the safety ARC. The site is being resubmitted for approval.
  - Sewer Interceptor – base access for the contractor and GWA staff is being processed.
- Property Transfers
  - Transfer of BPM-1 monitoring well
    - § USGS is drafting the letter regarding their interest in the property. If USGS is not interested in the he property, DOD will be prioritized it for transfer to GWA.
  - Cabras Island Water Lines – GWA is interested in the property but determining if the fire protection line is on GovGuam or DoD property.
    - Old Naval Air Station Cliff line (Tiyan) - No change. Maria Lewis will follow up with DOD.
- Intertie at Barrigada – DOD and GWA are working on another intertie in Barrigada along Route 16. This intertie will assist DOD during the road construction project along Route 16 to start in 2021.
  - DOD will determine the easement along Route 16.

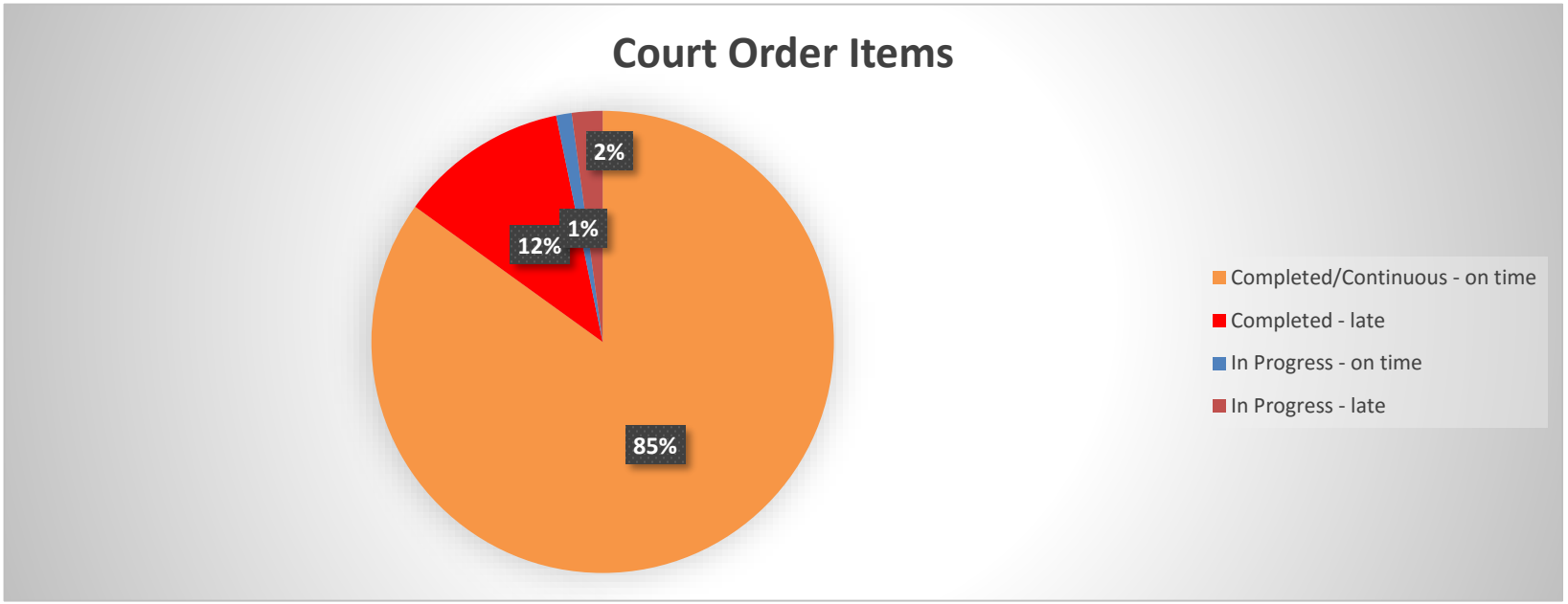
Other

- In addition to the Bulk Water Rates, the Navy is also looking at water exchange: gallon for gallon.

GUAM WATERWORKS AUTHORITY

Court Order

	Items	On-time Items Completed/Continuous	Items Delayed	Completed Late	Items on Schedule	Performance %
Court order total	93	79	2	11	1	97.8%



GUAM WATERWORKS AUTHORITY

Court Order

Status Information

- 2 items delayed
  - Water Reservoir Repair. Replacement or Relocation program, CO II C 29(b)(6)(i) – (10 additional tanks by 7th CO anniversary) [CO 28 (Formal letter being drafted.]
  - Umatac-Merizo Wastewater Treatment Plant – July 2019
- Final Date to complete all Court Order items is December 31, 2020.
- Overflow or Bypass events reported to USEPA:
- Umatac WWTP, Bypass 01/02/2019 to 02/03/2019 (ended February 2, 2019 at 11:00 am) (Weather)
- 02/05/2019, Ch. Chiliguian Talofofo, sewer overflow, FOG
- 02/10/2019, Yigo Pump Station, Air-locked pumps
- 02/11/2019, Artero Drive, Dededo - FOG

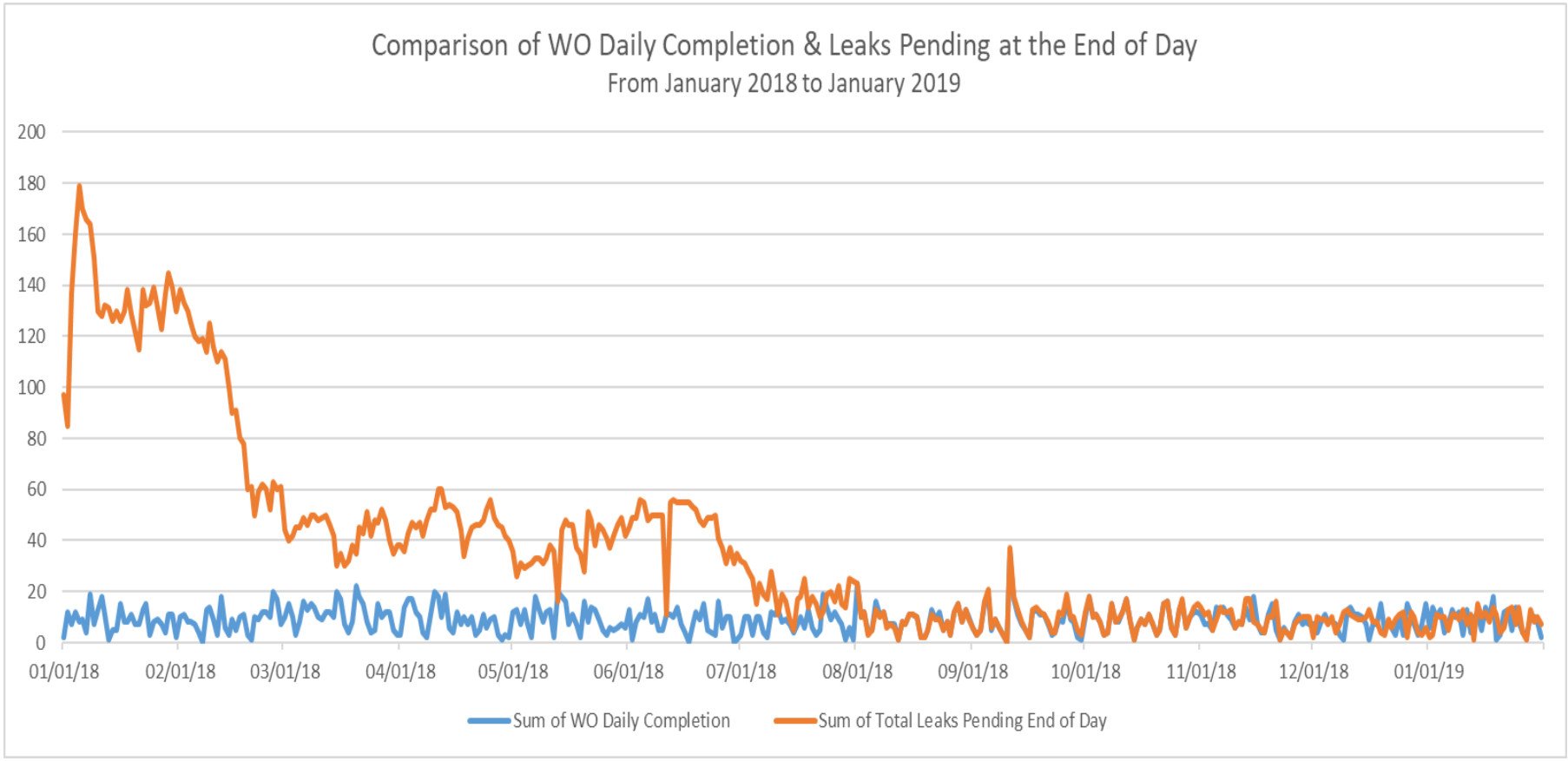
GUAM WATERWORKS AUTHORITY

Land Acquisition Summary

GWA Facility	Location	Gov. or Private Property	Land Acquisition Status
Tanks	Ugum	Private	Escrow open with Security Title on 01/31/19 - Escrow Documents mailed out to property owners 02/05/19
	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	Right of Entry Agreement sent to Dept of AG for signature 05/24/18. 2nd follow up sent on 09/12/18. Decree of Land Registration recorded under Instrument No. 925872 08/23/18. Retracement Survey Property Map with DCA for revisions as per DLM comments 1/2/19.
	Y-8	Gov't. - CLTC	Property ownership under Guam Waterworks Authority per Grant Deed No. 928090
Booster Pump Station	Agfayan	Private	Authorization Form to perform appraisal and investigative services for L28, B19, T3734, Inarajan signed by CLTC 10/29/2018
Sewer Pump Stations	2nd Adjacent Property to Southern Link	Private	Realtor Agent transmitted to GWA Amended LPSA of new land purchase amount for review and approval 01/31/19
Asan Springs	Asan	Federal	License Agreement for Asan Springs facility that fall on Dept. of Park Services property currently under DOI review

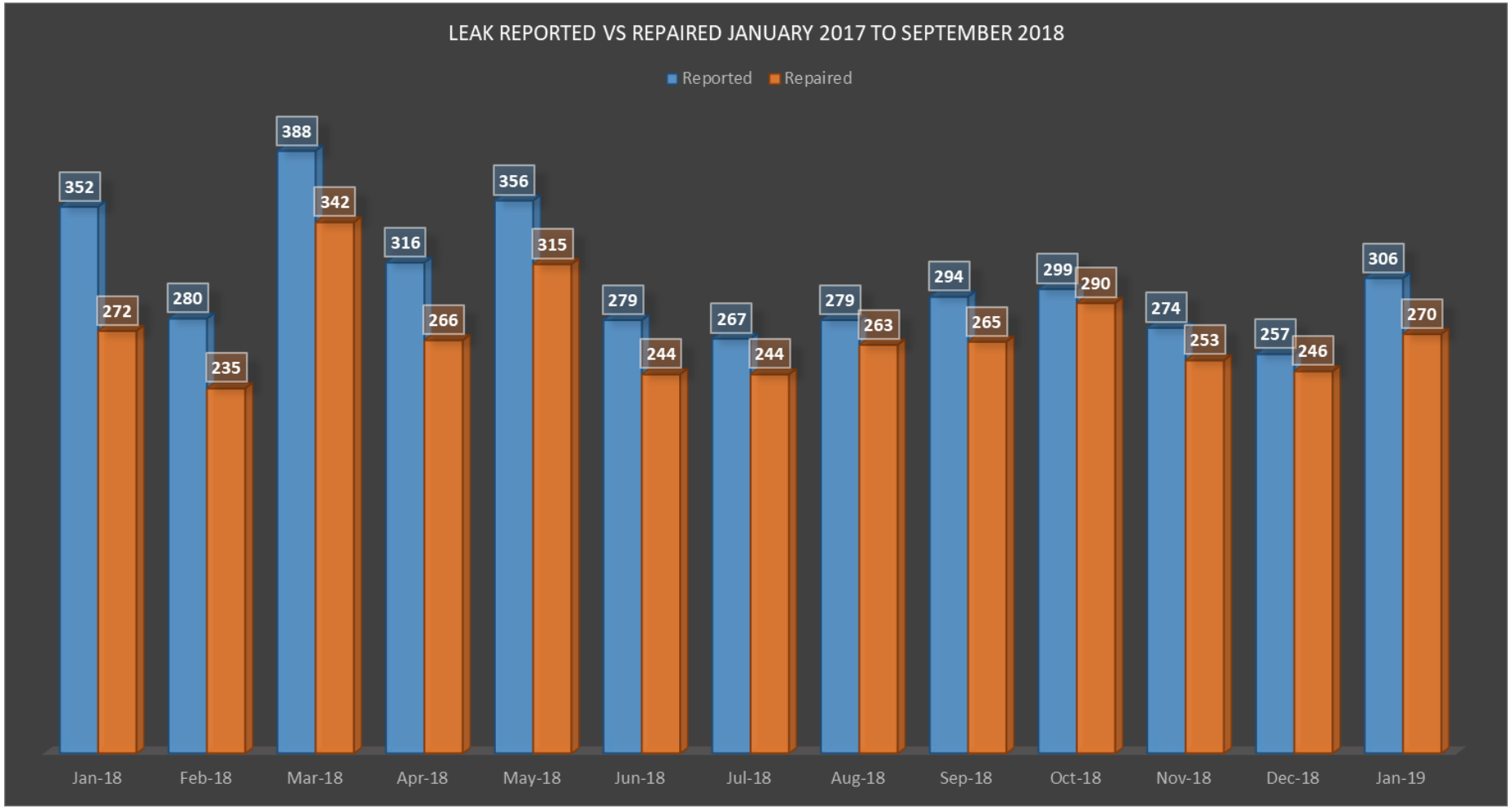
GUAM WATERWORKS AUTHORITY

Leak Repair Summary for January 2019



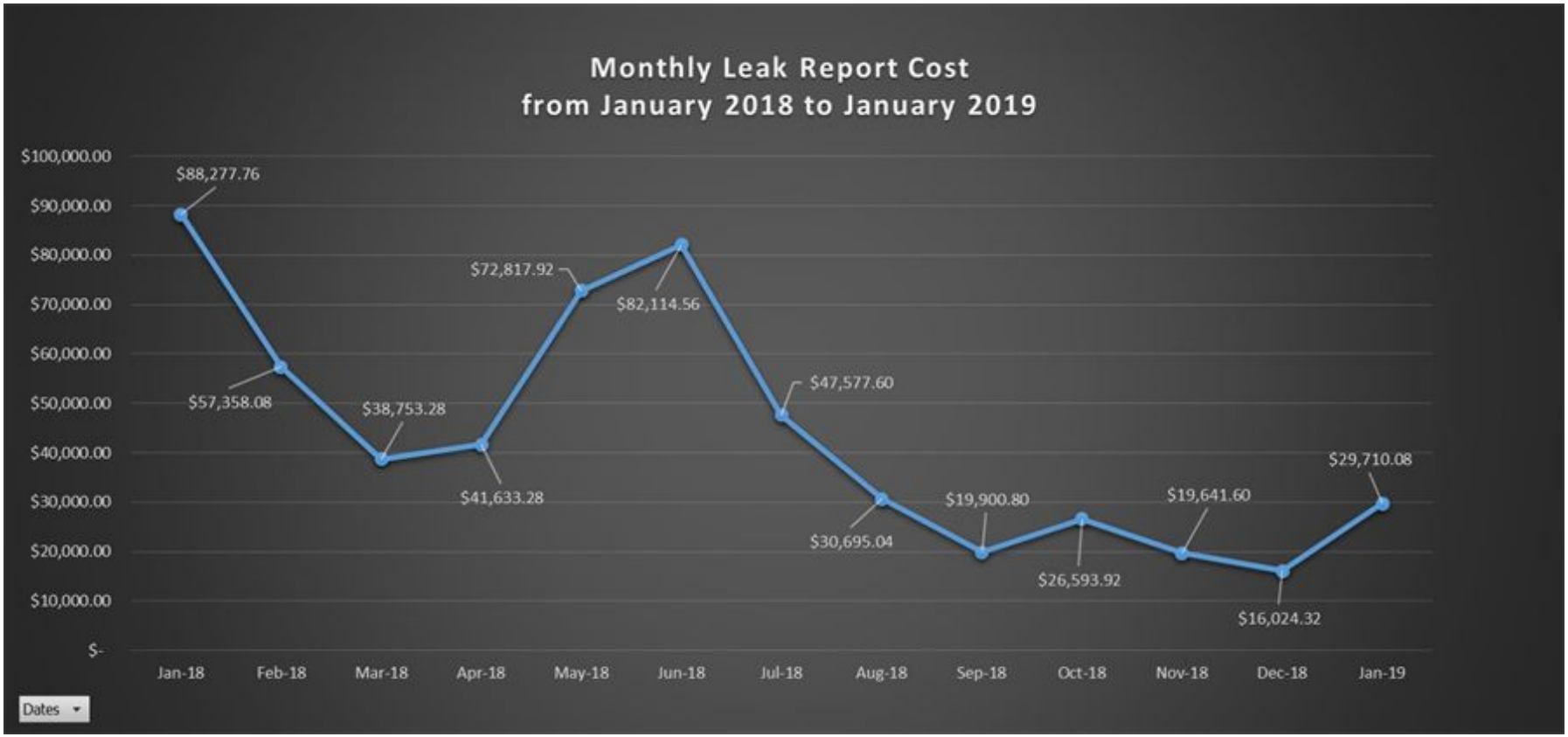
GUAM WATERWORKS AUTHORITY

Comparison of Leaks Reported vs. Leaks Repaired – January 2019



GUAM WATERWORKS AUTHORITY

Monthly Leak Report Cost – January 2019



Assumptions:

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

GUAM WATERWORKS AUTHORITY
JANUARY 31, 2019
FINANCIAL AND RELATED REPORTS
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GUAM WATERWORKS AUTHORITY
Balance Sheet
January 31, 2019

SCHEDULE A

ASSETS AND DEFERRED OUTFLOWS OF RESOURCES	Unaudited January 31, 2019	Audited September 30, 2018	Increase (Decrease)
Current Assets			
Cash			
Unrestricted (Schedule G)	6,730,880	3,094,379	3,636,501
Restricted Funds (Schedule G)	65,704,012	66,805,781	(1,101,769)
Accounts Receivable Trade, Net of Allowance for Doubtful Receivables of $6,245,621 at Jan 31, 2019 and $5,516,077 at Sep 30, 2018	15,390,979	16,610,663	(1,219,684)
Other Receivable	1,970,499	5,167,946	(3,197,447)
Materials & Supplies Inventory, Net of Allowance for Obsolescence of $64,131 at Jan 31, 2019 and $64,131 at Sep 30, 2018	2,384,333	3,342,557	(958,224)
Total Current Assets	92,180,702	95,021,326	(2,840,624)
Property, Plant and Equipment			
Utility plant in service			
Water system	350,293,261	348,812,303	1,480,958
Wastewater system	304,724,490	304,531,954	192,536
Non-utility property	17,426,836	17,241,496	185,340
Total property	672,444,587	670,585,753	1,858,834
Less Accumulated Depreciation	(310,055,707)	(303,019,447)	(7,036,260)
Land	3,681,120	3,681,120	-
Construction Work in Progress	200,480,973	178,443,926	22,037,047
Property, Plant and Equipment, net	566,550,974	549,691,353	16,859,621
Other noncurrent assets			
Restricted cash (Schedule G)	158,282,837	177,176,880	(18,894,043)
Investments (Schedule G)	40,983,403	43,097,913	(2,114,509)
Other Prepaid Expenses	1,116,919	677,828	439,092
Total other noncurrent assets	200,383,159	220,952,621	(20,569,461)
Total Assets	859,114,835	865,665,299	(6,550,464)
Deferred outflows of resources			
Debt defeasance due to bond refunding	12,532,652	12,810,787	(278,136)
Deferred outflows from pension	4,197,853	4,233,025	(35,172)
Deferred outflows from OPEB	9,070,814	9,070,814	-
Total Assets and Deferred Outflows of Resources	**884,916,154**	**891,779,926**	**(6,863,772)**
LIABILITIES, DEFERRED INFLOWS OF RESOURCES AND NET ASSETS			
Current Liabilities			
Current maturities of long-term debt			
Series 2010 Bond	1,800,000	1,800,000	-
Series 2014 Refunding	3,620,000	3,620,000	-
Series 2017 Refunding	295,000	295,000	-
Notes Payable	3,259,729	3,203,870	55,859
Accounts Payable -Trade	3,986,356	4,238,823	(252,468)
Interest Payable	2,137,785	6,427,669	(4,289,884)
Accrued Payroll and Employee Benefits	1,069,758	1,608,219	(538,461)
Accrued Annual Leave	1,059,161	1,059,161	-
Current portion of employee annual leave	604,009	607,382	(3,373)
Contractors' Payable	15,016,696	25,680,792	(10,664,096)
Customer and Other Deposits	2,144,696	2,238,239	(93,543)
Other Liabilities	1,313,726	1,203,177	110,549
Total Current Liabilities	36,306,916	51,982,332	(15,675,416)
Long Term Debt, less current maturities			
Series 2010 Revenue Bond	1,895,000	1,895,000	-
Series 2013 Revenue Bond	172,630,000	172,630,000	-
Series 2014 Refunding Bond	68,900,000	68,900,000	-
Series 2016 Revenue Bond	143,310,000	143,310,000	-
Series 2017 Refunding Bond	107,365,000	107,365,000	-
Unamortized Bond Premium/Discount	32,821,783	33,300,619	(478,836)
Notes Payable	1,217,575	2,325,154	(1,107,579)
Unfunded Ret Liability (GASB 67/68)	45,451,352	45,451,352	-
Net OPEB obligation (GASB 75)	88,950,661	88,950,661	-
Employee Annual Leave, Less Current Portion	826,194	822,821	3,373
Total Liabilities	699,674,481	716,932,939	(17,258,458)
Deferred inflows of resources:			
Deferred inflows from pension	1,870,114	1,870,114	-
Deferred inflows from OPEB	8,741,900	8,741,900	-
Total Liabilities and Deferred Inflows of Resources	710,286,495	727,544,953	(17,258,458)
Net Assets	**174,629,659**	**164,234,973**	**10,394,686**
Total Liabilities, Deferred Inflows of Resources and Net Assets	**884,916,154**	**891,779,926**	**(6,863,772)**

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings **SCHEDULE B**
Comparative Budget vs. Actual for the period ending January 31, 2019

	Month to Date		Variance
	Budget January-19	Actual (Unaudited) January-19	Favorable / (Unfavorable)
OPERATING REVENUES			
Water Revenues	5,813,246	5,566,664	(246,583)
Wastewater Revenues	3,247,265	2,825,660	(421,605)
Legislative Surcharge	294,667	301,610	6,944
Other Revenues	38,254	48,922	10,668
System Development Charge	97,773	26,652	(71,121)
Total Operating Revenues	9,491,205	8,769,508	(721,697)
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	687,577	519,364	168,213
Power Purchases	1,231,315	1,231,315	0
Total Utility Costs	1,918,892	1,750,679	168,213
Salaries and Wages	1,782,365	1,549,552	232,814
Pension and Benefits	562,238	487,383	74,855
Total Salaries and Benefits	2,344,603	2,036,934	307,669
Capitalized Labor and Benefits	(308,333)	(308,333)	(0)
Net Salaries and Benefits	2,036,269	1,728,601	307,668
Administrative and General Expenses			
Sludge removal	103,771	72,446	31,326
Chemicals	125,801	105,280	20,522
Materials & Supplies	188,606	152,143	36,462
Transportation	68,648	66,517	2,131
Communications	15,054	12,460	2,594
Claims	28,417	28,240	176
Insurance	79,461	75,172	4,289
Training & Travel	30,417	29,764	653
Advertising	12,500	7,635	4,865
Miscellaneous	92,632	91,795	837
Regulatory Expense	25,029	20,330	4,699
Bad Debts Provision	144,148	114,625	29,523
Total Administrative and General Expense	914,483	776,407	138,076
Depreciation Expense	1,759,065	1,759,065	(0)
Contractual Expense			
Audit & Computer Maint.	58,783	47,012	11,771
Building rental	38,361	35,211	3,150
Equipment rental	139,980	139,716	264
Legal	512	-	512
Laboratory	34,862	34,440	422
Other	213,458	212,923	534
Total Contractual Expense	485,956	469,302	16,654
Retiree Supp. Annuities and health care costs	249,871	234,857	15,014
Contribution to Government of Guam	51,975	50,000	1,975
Total Retiree Benefits	301,846	284,857	16,989
Total Operating Expenses	7,416,512	6,768,911	647,601
Earnings (Loss) from Operations	2,074,693	2,000,597	(74,096)
Interest Income-2010/13/14/16/17 Series Bond	84,943	376,950	292,007
Interest Income-Other Funds	13,856	77,874	64,017
Interest Income-SDC	2,072	16,188	14,116
Interest Expense- 2010/13/14/16/17 Series Bond	(2,387,785)	(2,137,785)	250,000
Interest Expense- ST BOG	(19,762)	(23,855)	(4,093)
Federal Expenditures	-	-	-
Loss on Asset Disposal	-	-	-
AFUDC	1,157,306	1,157,306	0
Amortization of Discount, Premium and Issuance Costs	(17,798)	119,709	137,507
Defeasance due to bond refunding	(16,201)	(69,534)	(53,333)
Deferred outflows from pension	-	(8,931)	(8,931)
Prior Year Adjustment	-	(4,746)	(4,746)
Total non-operating revenues (expenses)	(1,183,369)	(496,823)	686,546
Net Income (Loss) before capital contributions	891,324	1,503,774	612,450
Capital Contributions			
Grants from US Government	5,533,205	635,266	(4,897,939)
Grants from GovGuam & Others	-	-	-
Total Capital Contributions	5,533,205	635,266	(4,897,939)
Change in Net Assets	6,424,529	2,139,040	(4,285,489)
Debt Service Calculation			
Earnings From Operations	2,074,693	2,000,597	
System Development Charge	(97,773)	(26,652)	
Retiree COLA	51,975	50,000	
Interest/Investment Income	13,856	77,874	
Depreciation	1,759,065	1,759,065	
Balance Available for Debt Service per Section 6.12	3,801,817	3,860,884	
Working Capital Reserve Available for Debt Service	934,811	950,860	
Transfer to Working Capital- Debt Service Reserve	-	-	
Transfer to Working Capital- O&M Reserve	-	-	
Balance Available for Debt Service inclusive of reserves	4,736,628	4,811,744	
Debt Service			
Principal	476,250	476,250	
Interest	2,137,785	2,137,785	
Total	2,614,035	2,614,035	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.45	1.48	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.81	1.84	

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings
Comparative for the period ending January 31, 2019 and 2018

SCHEDULE C

	Month to Date		Variance
	Actual (Unaudited) January-19	Actual (Audited) January-18	Favorable / (Unfavorable)
OPERATING REVENUES			
Water Revenues	5,566,664	5,531,297	35,367
Wastewater Revenues	2,825,660	3,191,784	(366,124)
Legislative Surcharge	301,610	289,209	12,401
Other Revenues	48,922	43,294	5,627
System Development Charge	26,652	89,249	(62,597)
Total Operating Revenues	8,769,508	9,144,833	(375,325)
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	519,364	723,748	204,384
Power Purchases	1,231,315	1,223,874	(7,441)
Total Utility Costs	1,750,679	1,947,622	196,943
Salaries and Wages	1,549,552	1,464,423	(85,128)
Pension and Benefits	487,383	376,266	(111,117)
Total Salaries and Benefits	2,036,934	1,840,689	(196,245)
Capitalized Labor and Benefits	(308,333)	(296,147)	12,186
Net Salaries and Benefits	1,728,601	1,544,542	(184,059)
Administrative and General Expenses			
Sludge removal	72,446	125,638	53,192
Chemicals	105,280	182,625	77,346
Materials & Supplies	152,143	180,995	28,852
Transportation	66,517	64,001	(2,516)
Communications	12,460	14,756	2,295
Claims	28,240	10,803	(17,437)
Insurance	75,172	76,005	833
Training & Travel	29,764	22,652	(7,112)
Advertising	7,635	14,226	6,590
Miscellaneous	91,795	84,564	(7,231)
Regulatory Expense	20,330	22,121	1,791
Bad Debts Provision	114,625	180,246	65,621
Total Administrative and General Expense	776,407	978,632	202,225
Depreciation Expense	1,759,065	1,606,687	(152,378)
Contractual Expense			
Audit & Computer Maint.	47,012	58,815	11,803
Building rental	35,211	36,603	1,392
Equipment rental	139,716	89,207	(50,509)
Legal	-	-	-
Laboratory	34,440	34,529	89
Other	212,923	200,567	(12,356)
Total Contractual Expense	469,302	419,721	(49,581)
Retiree Supp. Annuities and health care costs	234,857	662,581	427,724
Contribution to Government of Guam	50,000	49,833	(167)
Total Retiree Benefits	284,857	712,414	427,557
Total Operating Expenses	6,768,911	7,209,618	440,707
Earnings (Loss) from Operations	2,000,597	1,935,215	65,382
Interest Income-2010/13/14/16/17 Series Bond	376,950	255,374	121,576
Interest Income-Other Funds	77,874	45,645	32,229
Interest Income-SDC	16,188	13,852	2,336
Interest Expense- 2010/13/14/16/17 Series Bond	(2,137,785)	(2,177,468)	39,683
Interest Expense- ST BOG	(23,855)	(30,702)	6,848
Federal Expenditures	-	(62,220)	62,220
Loss on Asset Disposal	-	(162,136)	162,136
AFUDC	1,157,306	1,041,766	115,540
Amortization of Discount, Premium and Issuance Costs	119,709	(42,691)	162,400
Defeasance due to bond refunding	(69,534)	(62,043)	(7,490)
Deferred outflows from pension	(8,931)	32,592	(41,523)
Prior Year Adjustment	(4,746)	13,219	(17,965)
Total non-operating revenues (expenses)	(496,823)	(1,134,813)	637,990
Net Income (Loss) before capital contributions	1,503,774	800,402	703,372
Capital Contributions			
Grants from US Government	635,266	1,244,712	(609,445)
Grants from GovGuam & Others	-	22,681	(22,681)
Total Capital Contributions	635,266	1,267,392	(632,126)
Change in Net Assets	2,139,040	2,067,794	71,246
Debt Service Calculation			
Earnings From Operations	2,000,597	1,935,215	
System Development Charge	(26,652)	(89,249)	
Retiree COLA	50,000	49,833	
Interest/Investment Income	77,874	45,645	
Depreciation	1,759,065	1,606,687	
Balance Available for Debt Service per Section 6.12	3,860,884	3,548,131	
Working Capital Reserve Available for Debt Service	950,860	945,164	
Transfer to Working Capital- Debt Service Reserve	-	-	
Transfer to Working Capital- O&M Reserve	-	-	
Balance Available for Debt Service inclusive of reserves	4,811,744	4,493,295	
Debt Service			
Principal	476,250	433,333	
Interest	2,137,785	1,794,910	
Total	2,614,035	2,228,243	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.48	1.59	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.84	2.02	

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings **SCHEDULE D**
Comparative Budget vs. Actual for the period ending January 31, 2019

	Year to Date		Variance
	Budget January-19	Actual (Unaudited) January-19	Favorable / (Unfavorable)
OPERATING REVENUES			
Water Revenues	23,252,986	22,559,475	(693,511)
Wastewater Revenues	12,989,060	12,709,841	(279,219)
Legislative Surcharge	1,178,667	1,205,894	27,226
Other Revenues	153,015	158,560	5,545
System Development Charge	391,090	189,967	(201,123)
Total Operating Revenues	37,964,818	36,823,737	(1,141,081)
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	2,750,309	1,922,541	827,767
Power Purchases	4,925,260	4,823,924	101,337
Total Utility Costs	7,675,569	6,746,465	929,104
Salaries and Wages	7,129,460	6,427,403	702,057
Pension and Benefits	2,248,951	2,052,369	196,582
Total Salaries and Benefits	9,378,411	8,479,772	898,639
Capitalized Labor and Benefits	(1,233,333)	(1,233,332)	(1)
Net Salaries and Benefits	8,145,078	7,246,440	898,638
Administrative and General Expenses			
Sludge removal	515,085	504,385	10,700
Chemicals	703,206	634,305	68,900
Materials & Supplies	654,422	632,667	21,755
Transportation	274,590	177,143	97,447
Communications	60,217	40,904	19,312
Claims	113,667	35,426	78,241
Insurance	317,843	300,687	17,156
Training & Travel	121,667	69,097	52,569
Advertising	50,000	24,684	25,316
Miscellaneous	370,527	355,217	15,310
Regulatory Expense	100,116	52,108	48,008
Bad Debts Provision	576,593	729,504	(152,911)
Total Administrative and General Expense	3,857,932	3,556,129	301,804
Depreciation Expense	7,036,260	7,036,260	(0)
Contractual Expense			
Audit & Computer Maint.	235,133	175,440	59,694
Building rental	153,444	140,843	12,601
Equipment rental	359,918	339,887	20,031
Legal	2,048	-	2,048
Laboratory	139,450	111,797	27,652
Other	853,830	840,355	13,475
Total Contractual Expense	1,743,824	1,608,322	135,501
Retiree Supp. Annuities and health care costs	999,483	949,799	49,684
Contribution to Government of Guam	207,900	200,000	7,900
Total Retiree Benefits	1,207,383	1,149,799	57,584
Total Operating Expenses	29,666,046	27,343,415	2,322,631
Earnings (Loss) from Operations	8,298,772	9,480,322	1,181,550
Interest Income-2010/13/14/16/17 Series Bond	339,772	1,382,676	1,042,904
Interest Income-Other Funds	55,425	261,256	205,831
Interest Income-SDC	8,287	55,852	47,565
Interest Expense- 2010/13/14/16/17 Series Bond	(9,551,138)	(8,551,138)	1,000,000
Interest Expense- ST BOG	(79,048)	(73,965)	5,083
Federal Expenditures	-	-	-
Loss on Asset Disposal	-	-	-
AFUDC	4,629,222	4,629,224	2
Amortization of Discount, Premium and Issuance Costs	(71,192)	478,836	550,027
Defeasance due to bond refunding	(64,804)	(278,136)	(213,332)
Deferred outflows from pension	-	(35,723)	(35,723)
Prior Year Adjustment	-	(25,896)	(25,896)
Total non-operating revenues (expenses)	(4,733,476)	(2,157,015)	2,576,461
Net Income (Loss) before capital contributions	3,565,296	7,323,307	3,758,011
Capital Contributions			
Grants from US Government	22,132,820	3,071,379	(19,061,441)
Grants from GovGuam & Others	-	-	-
Total Capital Contributions	22,132,820	3,071,379	(19,061,441)
Change in Net Assets	25,698,117	10,394,686	(15,303,431)
Debt Service Calculation			
Earnings From Operations	8,298,772	9,480,322	
System Development Charge	(391,090)	(189,967)	
Retiree COLA	207,900	200,000	
Interest/Investment Income	55,425	261,256	
Depreciation	7,036,260	7,036,260	
Balance Available for Debt Service per Section 6.12	15,207,267	16,787,871	
Working Capital Reserve Available for Debt Service	3,739,244	3,803,441	
Transfer to Working Capital- Debt Service Reserve	-	-	
Transfer to Working Capital- O&M Reserve	-	-	
Balance Available for Debt Service inclusive of reserves	18,946,511	20,591,311	
Debt Service			
Principal	1,905,000	1,905,000	
Interest	8,551,138	8,551,138	
Total	10,456,138	10,456,138	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.45	1.61	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.81	1.97	

GUAM WATERWORKS AUTHORITY
Statement of Operations and Retained Earnings
Comparative for the period ending January 31, 2019 and 2018 **SCHEDULE E**

	Year to Date Actual (Unaudited) January-19	Actual (Audited) January-18	Variance Favorable / (Unfavorable)
OPERATING REVENUES			
Water Revenues	22,559,475	22,125,188	434,287
Wastewater Revenues	12,709,841	12,767,135	(57,294)
Legislative Surcharge	1,205,894	1,156,836	49,058
Other Revenues	158,560	173,176	(14,616)
System Development Charge	189,967	356,995	(167,028)
Total Operating Revenues	36,823,737	36,579,331	244,406
OPERATING AND MAINTENANCE EXPENSES			
Water Purchases	1,922,541	2,894,991	972,450
Power Purchases	4,823,924	4,895,495	71,572
Total Utility Costs	6,746,465	7,790,487	1,044,022
Salaries and Wages	6,427,403	5,857,693	(569,710)
Pension and Benefits	2,052,369	1,505,064	(547,305)
Total Salaries and Benefits	8,479,772	7,362,757	(1,117,015)
Capitalized Labor and Benefits	(1,233,332)	(1,184,588)	48,744
Net Salaries and Benefits	7,246,440	6,178,169	(1,068,271)
Administrative and General Expenses			
Sludge removal	504,385	502,551	(1,834)
Chemicals	634,305	730,502	96,196
Materials & Supplies	632,667	723,979	91,312
Transportation	177,143	256,003	78,861
Communications	40,904	59,022	18,118
Claims	35,426	43,214	7,788
Insurance	300,687	304,020	3,333
Training & Travel	69,097	90,608	21,511
Advertising	24,684	56,903	32,219
Miscellaneous	355,217	338,256	(16,961)
Regulatory Expense	52,108	88,485	36,376
Bad Debts Provision	729,504	720,983	(8,520)
Total Administrative and General Expense	3,556,129	3,914,528	358,399
Depreciation Expense	7,036,260	6,426,750	(609,510)
Contractual Expense			
Audit & Computer Maint.	175,440	235,260	59,820
Building rental	140,843	146,412	5,569
Equipment rental	339,887	356,827	16,940
Legal	-	-	-
Laboratory	111,797	138,115	26,318
Other	840,355	802,269	(38,086)
Total Contractual Expense	1,608,322	1,678,884	70,561
Retiree Supp. Annuities and health care costs	949,799	2,650,322	1,700,523
Contribution to Government of Guam	200,000	199,333	(667)
Total Retiree Benefits	1,149,799	2,849,656	1,699,857
Total Operating Expenses	27,343,415	28,838,473	1,495,057
Earnings (Loss) from Operations	9,480,322	7,740,858	1,739,464
Interest Income-2010/13/14/16/17 Series Bond	1,382,676	1,021,497	361,179
Interest Income-Other Funds	261,256	182,579	78,676
Interest Income-SDC	55,852	55,407	445
Interest Expense- 2010/13/14/16/17 Series Bond	(8,551,138)	(8,709,871)	158,733
Interest Expense- ST BOG	(73,965)	(122,809)	48,844
Federal Expenditures	-	(248,881)	248,881
Loss on Asset Disposal	-	(648,543)	648,543
AFUDC	4,629,224	4,167,065	462,159
Amortization of Discount, Premium and Issuance Costs	478,836	(170,765)	649,601
Defeasance due to bond refunding	(278,136)	(248,174)	(29,962)
Deferred outflows from pension	(35,723)	130,368	(166,091)
Prior Year Adjustment	(25,896)	52,876	(78,772)
Total non-operating revenues (expenses)	(2,157,015)	(4,539,251)	2,382,236
Net Income (Loss) before capital contributions	7,323,307	3,201,607	4,121,700
Capital Contributions			
Grants from US Government	3,071,379	4,978,847	(1,907,468)
Grants from GovGuam & Others	-	90,722	(90,722)
Total Capital Contributions	3,071,379	5,069,569	(1,998,190)
Change in Net Assets	10,394,686	8,271,176	2,123,510
Debt Service Calculation			
Earnings From Operations	9,480,322	7,740,858	
System Development Charge	(189,967)	(356,995)	
Retiree COLA	200,000	199,333	
Interest/Investment Income	261,256	182,579	
Depreciation	7,036,260	6,426,750	
Balance Available for Debt Service per Section 6.12	16,787,871	14,192,525	
Working Capital Reserve Available for Debt Service	3,803,441	3,780,656	
Transfer to Working Capital- Debt Service Reserve	-	-	
Transfer to Working Capital- O&M Reserve	-	-	
Balance Available for Debt Service inclusive of reserves	20,591,311	17,973,181	
Debt Service			
Principal	1,905,000	1,733,333	
Interest	8,551,138	7,179,640	
Total	10,456,138	8,912,973	
Debt Service Coverage (1.25X)- per Section 6.12 (Indenture)	1.61	1.59	
Debt Service Coverage (1.75X) inclusive of reserves (PUC)	1.97	2.02	

SCHEDULE F
As of 01/31/19

Bond Compliance		**($$$)** **Per Indenture**	**($$$)** **Bond 2010/2013/2014/2016/2017**
Operation and Maintenance Fund-BOG	*Equivalent to 55 days of the annual O&M budget less depreciation*	$9.7M	$9.7M
Bond Reserve Fund - US Bank	*Fully funded- Principal and Interest (Bond Series 2010, 2013, 2014 Refunding, 2016 and 2017 Refunding)*	$35.2M	$35.2M
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	$33.9K

GUAM WATERWORKS AUTHORITY
Restricted and Unrestricted Cash Summary
FY2019

SCHEDULE G

Description	Unaudited January 31, 2019	Audited September 30, 2018	Increase (Decrease)
UNRESTRICTED			
Change Fund	2,000	2,000	-
Petty Cash	5,000	5,000	-
BOG - Deposit Accounts	6,723,880	3,087,379	3,636,501
Sub-total Unrestricted	**6,730,880**	**3,094,379**	**3,636,501**
RESTRICTED			
Collection Accounts	848,187	588,075	260,112
BOG Deposit Accounts	5,873,459	5,874,563	(1,105)
BP Deposit Accounts	1,309,601	959,151	350,450
BOG Revenue Trust Fund	8,184,752	6,535,779	1,648,973
BOG Capital Improvement Revenue Fund	2,471,386	1,582,278	889,107
BOG O & M Reserve	13,748,473	13,666,109	82,363
BOG Debt Service Reserve	11,410,323	11,341,967	68,356
BOG CAPEX Fund	11,446,189	16,073,011	(4,626,822)
	55,292,369	**56,620,933**	**(1,328,564)**
	-		
BOG - SDC Deposit	2,661,643	2,934,848	(273,205)
BOG - SDC CDs	7,750,000	7,250,000	500,000
Total Restricted	**65,704,012**	**66,805,781**	**(1,101,769)**
Reserve Funds			
BOG Series 05 OMRRRF Fund	17,423,213	17,423,213	-
BOG Series 13 Construction Fund	28,588,917	36,222,062	(7,633,145)
BOG Series 14 Refunding Construction Fund	746,367	741,895	4,471
BOG Series 16 Construction Fund	104,776,767	116,036,000	(11,259,233)
BOG Series 17 Refunding Construction Fund	6,747,573	6,753,709	(6,136)
Total Restricted - Held by Trustee	**158,282,837**	**177,176,880**	**(18,894,043)**
USB Series 2013 Debt Service Fund	824,216	2,360,451	(1,536,235)
USB Series 2013 Debt Service Reserve Fund	12,031,688	12,031,688	-
USB Series 2014 Refunding Debt Service Fund	2,456,589	1,833,235	623,354
USB Series 2014 Refunding Debt Service Reserve Fund	8,164,273	7,972,243	192,030
USB Series 2016 Debt Service Fund	625,893	1,805,556	(1,179,663)
USB Series 2016 Debt Service Reserve Fund	7,594,617	7,594,603	14
USB Series 2010 Debt Service Fund	1,077,020	503,751	573,269
USB Series 2017 Refunding Debt Service Reserve Fund	7,566,460	7,566,460	-
USB Series 2017 Debt Service Fund	642,648	1,429,927	(787,279)
Total Investments	**40,983,403**	**43,097,913**	**(2,114,509)**
Total Restricted and Unrestricted Cash	**271,701,132**	**290,174,953**	**(18,473,820)**

SCHEDULE H

Guam Waterworks Authority **Statement of Cash Flows (Unaudited)** **FY2019**	**YTD** **Jan-19**
Increase (decrease) in cash	
Cash flows from operating activities:	
Cash received from trade and others	36,838,857
Cash payments to suppliers/contractors for goods and services	(11,052,636)
Cash payments to employees for services	(8,898,976)
Net cash provided by operating activities	16,887,245
Cash flows from capital and related financing activities:	
Contributed capital received (grants)	6,727,288
Acquisition of utility plant	(29,930,753)
Repayment of Long Term Debt	(1,530,556)
Interest expense	(12,775,906)
Net cash provided by (used in) capital and related financing activities	(37,509,926)
Cash flows from investing activities:	
Transfers from (to) restricted fund	22,615,251
Interest income received	1,643,932
Net cash provided by investing activities	24,259,182
Net increase (decrease) in cash	3,636,501
Unrestricted cash at beginning of the period	3,094,379
Unrestricted cash at end of period	6,730,879
Reconciliation of operating loss to net cash provided by operating activities:	
Operating Income (loss)	9,290,356
Adjustments to reconcile to net cash provided by operating activities:	
Depreciation expense	7,036,260
Other Expense/income	765,226
(Increase) decrease in assets:	
Accounts receivable	191,634
Materials and supplies inventory	958,224
Other Assets	(439,092)
Increase (decrease) in liabilities:	
Accounts payable, Contractors, Retention & Escrow Deposit	(365,771)
Accrued payroll	(538,461)
Customer deposits, Other liabilities	(11,132)
Net cash provided by operating activities	16,887,245

Guam Waterworks Authority
Accounts Receivable - Government
As of January 31, 2019

SCHEDULE I

		AGING				
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	10	$ 30,122	$ 31,534	$ 32,130	$ 33,192	$ 197,673	$ 324,651
GUAM MEMORIAL HOSPITAL AUTHORITY	5	40,374	34,117	39,527	30,577	-	144,595
GUAM POWER AUTHORITY	26	43,315	12,273	-	-	6,705	62,294
GUAM COMMUNITY COLLEGE	4	11,199	1,806	-	-	-	13,006
UNIVERSITY OF GUAM	46	5,922	-	-	-	-	5,922
GUAM HOUSING & URBAN RENEWAL AUTHORITY	10	1,462	280	-	-	1,067	2,809
PORT AUTHORITY OF GUAM	5	1,609	-	-	-	-	1,609
GHURA-AGAFU GUMAS PARK	1	-	-	-	-	1,117	1,117
GUAM HOUSING CORPORATION	1	29	-	-	-	-	29
	108	**$ 134,032**	**$ 80,011**	**$ 71,657**	**$ 63,769**	**$ 206,563**	**$ 556,032**
DEPT OF PARKS & RECREATION	23	113,154	136,665	164,633	158,517	452,908	1,025,877
DEPT OF EDUCATION	54	261,441	199,916	113,997	27,766	1,376	604,496
DEPT OF PUBLIC HEALTH & SOCIAL SERVICES	8	2,140	929	732	3,461	100,689	107,951
DEPT OF CORRECTIONS	8	61,164	-	-	-	-	61,164
MAYORS COUNCIL OF GUAM	63	23,403	12,837	14,993	312	81	51,626
DEPT OF CHAMORRO AFFAIRS	9	10,960	-	-	-	-	10,960
GUAM FIRE DEPARTMENT	11	8,176	1,933	-	-	-	10,109
DEPT OF PUBLIC WORKS	12	2,346	80	-	-	7,220	9,646
OFFICE OF THE GOVERNOR	2	7,847	-	-	-	-	7,847
GUAM ECONOMIC DEVELOPMENT AUTHORITY	1	-	-	-	-	4,860	4,860
DEPT OF YOUTH AFFAIRS	4	1,014	313	-	13	1,092	2,433
DEPT OF AGRICULTURE	6	1,734	-	-	-	-	1,734
OFFICE OF CIVIL DEFENSE	2	614	517	492	-	-	1,623
GUAM POLICE DEPARTMENT	7	1,332	-	-	-	-	1,332
SANCTUARY INC	1	1,300	-	-	-	-	1,300
DIVISION OF SENIOR CITIZENS, DPH&SS	2	610	150	161	40	-	960
THE OFFICE OF THE DEDEDO MAYOR	1	148	171	206	-	-	526
DEPT OF ADMINISTRATION	2	482	-	-	-	-	482
DEPT OF MENTAL HEALTH	2	337	-	-	-	-	337
GUAM PUBLIC LIBRARY	6	173	-	-	-	-	173
GUAM ENERGY OFFICE	1	117	-	-	-	-	117
GUAM VETERANS AFFAIRS OFFICE	2	91	-	-	-	-	91
MERIZO MAYOR	1	41	35	-	-	-	75
	228	**$ 498,624**	**$ 353,546**	**$ 295,215**	**$ 190,109**	**$ 568,225**	**$ 1,905,719**
TOTAL January 31, 2019	**336**	**$ 632,656**	**$ 433,557**	**$ 366,872**	**$ 253,878**	**$ 774,788**	**$ 2,461,751**
TOTAL September 30, 2018	**326**	**$ 793,948**	**$ 424,797**	**$ 324,413**	**$ 190,444**	**$ 975,977**	**$ 2,709,580**
	3%	**-20%**	**2%**	**13%**	**33%**	**-21%**	**-9%**

GUAM WATERWORKS AUTHORITY
2013 Series Bond Project Status
As of January 31, 2019

SCHEDULE J

PROJECT NAME	ORIGINAL APPROVED PROJECT COST	Adjusted Project Cost	Adjusted Project Cost	EXPENDITURES AS OF 01/31/19	OUTSTANDING ENCUMBRANCES	TOTAL EXPENDITURES AND ENCUMBRANCES	UNOBLIGATED PROJECT COST	Construction fund balance AS OF 01/31/19
Santa Rita Springs Booster Pump Rehab Phase II	$ 100,000	$ 100,000.00	$ 100,000	100,000	-	$ 100,000	$ -	$ -
"A" Series Well Transmission Line	$ 400,000	$ 400,000.00	$ 369,846	369,846	(0)	$ 369,846	$ 0	$ 0
Water Booster Pump Station	$ 6,000,000	$ 6,000,000.00	$ 1,679,964	1,656,428	23,536	$ 1,679,964	$ 0	$ 23,536
Meter Replacement Program		$ 1,500,000.00	$ 996,532	996,532	-	$ 996,532	$ (0)	$ (0)
Barrigada Tank Repair/Replacement	$ 6,000,000	$ 6,000,000.00	$ 4,987,000	4,924,959	61,652	$ 4,986,611	$ 389	$ 62,041
Leak Detection	$ 100,000	$ 100,000.00	$ 16,916	16,916	(0)	$ 16,916	$ 0	$ (0)
Potable Water System Planning	$ 800,000	$ 1,200,000.00	$ 624,000	603,390	20,610	$ 624,000	$ -	$ 20,610
Implement Ground Water Rule	$ 1,000,000	$ 1,000,000.00	$ 1,000,000	1,000,000	-	$ 1,000,000	$ -	$ -
Deep Well Rehabilitation	$ 800,000	$ 800,000.00	$ 200,000	189,930	10,071	$ 200,000	$ (0)	$ 10,070
New Deep Wells at Down Hard	$ 2,000,000	$ 2,000,000.00	$ -	-	-	$ -	$ -	$ -
Master Meters	$ 4,000,000	$ 4,000,000.00	$ 712,060	531,188	180,872	$ 712,060	$ (0)	$ 180,872
Ugum Water Treatment Plant Intake	$ 1,000,000	$ 1,000,000.00	$ 859,801	424,202	435,599	$ 859,801	$ (0)	$ 435,599
Water Wells	$ 4,200,000	$ 4,200,000.00	$ 3,030,029	2,304,794	31,324	$ 2,336,118	$ 693,911	$ 725,236
Water Distribution System	$ 12,000,000	$ 14,000,000.00	$ 10,912,453	9,216,004	1,393,880	$ 10,609,884	$ 302,569	$ 1,696,449
Pressure Zone Realignment /	$ 1,000,000	$ 1,000,000.00	$ 337,110	336,036	1,074	$ 337,110	$ 0	$ 1,074
Mechanical/Electrical Equipment	$ 430,000	$ 430,000.00	$ 426,799	261,981	164,818	$ 426,799	$ -	$ 164,818
Water Reservoir Internal/External	$ 800,000	$ 800,000.00	$ -	-	-	$ -	$ -	$ -
Water System Reservoirs 2005 Improvements	$ 21,000,000	$ 18,000,000.00	$ 13,878,000	12,373,723	1,504,277	$ 13,878,000	$ -	$ 1,504,277
Ugum Water Treatment Plant Reservoir	$ 7,000,000	$ 7,000,000.00	$ -	-	-	$ -	$ -	$ -
Agana Heights & Chaot Tanks	$ 4,500,000	$ 4,500,000.00	$ 1,330,287	727,527	602,761	$ 1,330,287	$ (0)	$ 602,760
Tank Major Repair Yigo#1 Mangilao#2 Agat#2	$ 13,500,000	$ 13,500,000.00	$ 11,605,000	10,204,026	1,400,599	$ 11,604,625	$ 375	$ 1,400,974
Tank Major Repair Yigo#1 Mangilao#2 Agat#2	$ 8,000,000	$ 8,000,000.00	$ -	-	-	$ -	$ -	$ -
Assessment of malojloj Elevetad & Yigo Elevated	$ 500,000	$ 500,000.00	$ 485,117	461,813	23,304	$ 485,117	$ -	$ 23,304
Fire Hydrant Replacement Program	$ -	$ 1,000,000.00	$ -	-	-	$ -	$ -	$ -
Wastewater System Planning	$ 800,000	$ 800,000.00	$ 650,901	566,364	84,537	$ 650,901	$ 0	$ 84,537
Lift Station Upgrades	$ 5,000,000	$ 2,000,000.00	$ 563,148	563,148	-	$ 563,148	$ 0	$ 0
Wastewater Collection System Repl/Rehab	$ 6,500,000	$ 3,800,000.00	$ 660,313	579,275	81,038	$ 660,313	$ -	$ 81,038
Baza Gardens STP Replacement		$ 1,000,000.00	$ 9,656,874	3,374,080	6,252,599	$ 9,626,679	$ 30,195	$ 6,282,794
Facilities Plan/Design for Umatac-Merizo WWTP		$ 1,000,000.00	$ 371,699	364,527	7,172	$ 371,699	$ 0	$ 7,172
Agat/Santa Rita STP Replacement	$ 19,000,000	$ 19,000,000.00	$ 67,200,000	54,663,912	12,516,881	$ 67,180,793	$ 19,207	$ 12,536,088
Agana WWTP Interim Measures		$ 1,500,000.00	$ 673,000	667,693	5,307	$ 673,000	$ 0	$ 5,307
Umatac Merizo Replacement	$ 2,000,000	$ 1,000,000.00	$ -	-	-	$ -	$ -	$ -
Wastewater Pump Station Electrical Upgrade	$ 620,000	$ 620,000.00	$ 99,861	94,964	4,897	$ 99,861	$ -	$ 4,897
Electrical Upgrade - Water Wells	$ 1,500,000	$ 1,500,000.00	$ 1,500,000	1,487,413	12,587	$ 1,500,000	$ 0	$ 12,587
Electrical Upgrade - Water Booster	$ 325,000	$ 325,000.00	$ -	-	-	$ -	$ -	$ -
Electrical Upgrade -Water Booster	$ 350,000	$ 350,000.00	$ 977	977	-	$ 977	$ -	$ -
Electrical Upgrade - Other Water	$ 250,000	$ 250,000.00	$ 60,700	60,700	-	$ 60,700	$ -	$ -
SCADA Improvements – Phase 3	$ 1,850,000	$ 1,850,000.00	$ 722,359	460,592	261,767	$ 722,359	$ -	$ 261,767
SCADA Improvements – Phase 4	$ 500,000	$ 1,200,000.00	$ -	-	-	$ -	$ -	$ -
Laboratory Modernization	$ 1,500,000	$ 1,500,000.00	$ 1,171,465	1,163,037	7,785	$ 1,170,822	$ 643	$ 8,428
Land Survey	$ 2,000,000	$ 2,000,000.00	$ 1,052	1,038	15	$ 1,053	$ (1)	$ 15
General Plant Improvements / Water	$ 2,000,000	$ 2,600,000.00	$ 2,441,737	1,350,918	1,090,820	$ 2,441,737	$ (0)	$ 1,090,819
Allowance for COI								$ 275,005
Interest Earned							$ 1,086,841	$ 1,086,841
Total Construction Fund (2013 Series Revenue	**$ 139,325,000**	**$ 139,325,000**	**$ 139,325,000**	**$ 112,097,929**	**$ 26,179,783**	**$ 138,277,712**	**$ 2,134,129**	**$ 28,588,917**

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

GUAM WATERWORKS AUTHORITY
2014 Series Refunded Bond Project Status
As of January 31, 2019

SCHEDULE K

PROJECT NAME	ORIGINAL APPROVED PROJECT	ADJUSTED PROJECT COST	EXPENDITURES AS OF 01/31/19	OUTSTANDING ENCUMBRANCES	TOTAL EXPENDITURES AND ENCUMBRANCES	UNOBLIGATED PROJECT COST	20% PUC AS OF 01/31/19	Construction fund balance AS OF 01/31/19
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 U	$ 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 Reductior	$ 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 WTPlant 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
Total Construction Fund (2014 Series Refun	$ 82,930,086	$ 89,711,698	$ 88,981,263	$ 669,600	$ 89,711,543	$ 1	$ 13,990,813	$ 731,063
Interest Earned	$ 6,781,612	$ (0)				$ 15,304		$ 15,304
Total Project Cost Funding	**$ 89,711,698**	**$ 89,711,698**	**$ 88,981,263**	**$ 669,600**	**$ 89,711,543**	**$ 15,305**	**$ 13,990,813**	**$ 746,367**

GUAM WATERWORKS AUTHORITY
2016 Series Bond Project Status
As of January 31, 2019

SCHEDULE L

PROJECT NAME	ORIGINAL APPROVED PROJECT COST	Adjusted Project Cost	EXPENDITURES AS OF 01/31/19	OUTSTANDING ENCUMBRANCES	TOTAL EXPENDITURES AND ENCUMBRANCES	UNOBLIGATED PROJECT COST	Construction fund balance AS OF 01/31/19
Water Booster Pump Station	$ 4,139,000	$ -			$ -	$ -	$ -
Meter Replacement Program	$ 4,501,000	$ 1,400,000	149,970	30	$ 150,000	$ 1,250,000	$ 1,250,030
Barrigada 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	753,389	122,905	$ 876,294	$ -	$ 122,905
Deep Well Rehabilitation	$ 250,000	$ 250,000	203	109,810	$ 110,013	$ 139,987	$ 249,797
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
Ugum Water Treatment Plant Intake	$ 18,000	$ -			$ -	$ -	$ -
Water Wells	$ 2,500,000	$ 2,500,000		170,000	$ 170,000	$ 2,330,000	$ 2,500,000
Water Distribution System	$ 2,049,000	$ -			$ -	$ -	$ -
Pressure Zone Realignment /	$ 1,141,000	$ 1,141,000	674,165	66,836	$ 741,000	$ 400,000	$ 466,835
Mechanical/Electrical Equipment	$ 100,000	$ -			$ -	$ -	$ -
Water Reservoir Internal/External	$ 800,000	$ 800,000	23,710	776,290	$ 800,000	$ -	$ 776,290
Water System Reservoirs 2005 Improvements	$ 42,350,000	$ 58,830,170	3,343,423	18,693,127	$ 22,036,550	$ 36,793,620	$ 55,486,747
Ugum Water Treatment Plant Reservoir	$ 6,410,000	$ -			$ -	$ -	$ -
Water Audit Program & Water Loss Control Plan	$ 1,000,000	$ 550,000		389,562	$ 389,562	$ 160,438	$ 550,000
Agana Heights & Chaot Tanks	$ 1,220,000	$ 1,220,000		500,000	$ 500,000	$ 720,000	$ 1,220,000
Tank Major Repair Yigo#1 Mangilao#2 Agat#2	$ 1,895,000	$ 1,822,133	348,952	1,473,181	$ 1,822,133	$ 0	$ 1,473,181
Tank Major Repair Yigo#1 Mangilao#2 Agat#2	$ 10,500,000	$ 7,300,000		7,300,000	$ 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	311,040	1,943	$ 312,983	$ -	$ 1,943
Lift Station Upgrades	$ 2,404,000	$ 1,714,755	309,856	154,899	$ 464,755	$ 1,250,000	$ 1,404,899
Wastewater Collection System Repl/Rehab	$ 2,920,000	$ 1,055,478	26,346.18	529,132	$ 555,478	$ 500,000	$ 1,029,132
Baza Gardens STP Replacement	$ 16,700,000	$ 22,663,776	18,574,171	4,089,504	$ 22,663,675	$ 101	$ 4,089,605
Facilities Plan/Design for Umatac-Merizo WWTP	$ 527,000	$ 252,105	239,065	13,040	$ 252,105	$ -	$ 13,040
Agat/Santa Rita STP Replacement	$ 3,000,000	$ 2,002,331	1,803,754	198,577	$ 2,002,331	$ -	$ 198,577
Agana WWTP Interim Measures	$ 827,000	$ -			$ -	$ -	$ -
Umatac Merizo Replacement	$ 8,000,000	$ 20,800,000	7,711,545	13,005,430	$ 20,716,975	$ 83,025	$ 13,088,455
		$ -				$ -	
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	409,675	392,328	$ 802,003	$ 275,494	$ 667,822
SCADA Improvements – Phase 4	$ 6,500,000	$ 4,378,118	217,433	3,726,316	$ 3,943,749	$ 434,369	$ 4,160,685
		$ -				$ -	
Laboratory Modernization	$ 1,127,000	$ 1,127,000	1,127,000	-	$ 1,127,000	$ -	$ -
Land Survey	$ 1,998,000	$ 1,260,524	519,841	740,682	$ 1,260,524	$ 0	$ 740,683
General Plant Improvements / Water	$ 2,769,463	$ 1,543,760	716,554	780,392	$ 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		$ -				$ 2,413,002	$ 2,413,002
Total Construction Fund (2016 Series Revenue B	**$ 140,019,463**	**$ 140,019,463**	**$ 37,655,699**	**$ 53,233,984**	**$ 90,889,683**	**$ 51,542,782**	**$ 104,776,766**

GUAM WATERWORKS AUTHORITY
2010 Series Bond Project Status
As of January 31, 2019

SCHEDULE M

PROJECT NAME	ORIGINAL APPROVED PROJECT COST	Adjusted Project Cost	EXPENDITURES AS OF 01/31/19	OUTSTANDING ENCUMBRANCES	TOTAL EXPENDITURES AND ENCUMBRANCES	UNOBLIGATED PROJECT COST	Construction fund balance AS OF 01/31/19
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	$ 298,050	$ 34,188	$ 332,238	$ 1,567,762	$ 1,601,950
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	$ 429,866	$ 1,513,683	$ 636,317	$ 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 Asessment 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 malojloj Elevetad & 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	$ 723,591	$ 187,564	$ 911,155	$ 90,168	$ 277,732
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	$ 1,151,947	$ 314	$ 1,152,261	$ 336,117	$ 336,431
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	$ (1)	$ 386
Northern District WWTP Primary Treatment Upgrades	$ -	$ 11,743,514	$ 11,532,253	$ 25,059	$ 11,557,313	$ 186,201	$ 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	$ 45,076	$ 11,300,000	$ (0)	$ 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	$ -	$ 948,250	$ 51,750	$ 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						$ 192,616	$ 192,616
Total Construction Fund (2010 Series Revenue Bond)	**$ 87,402,000**	**$ 87,402,000**	**$ 80,847,043**	**$ 2,751,108**	**$ 83,598,151**	**$ 3,996,465**	**$ 6,747,573**

1.) PUC's Docket 11-01 $29,000,000.00 dated
09/19/11authorized GWA for reallocation
2) PUC's Docket 11-01 Reallocation of $23,246,000.00 dated 07/30/12
3) PUC's Dockect Reallocation dated February 2013

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

GWA RESOLUTION NO. 13-FY2019

RELATIVE TO NEW SIGNATORIES THAT MAY AUTHORIZE PAYMENTS ON BEHALF OF GUAM WATERWORKS AUTHORITY

WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities ("CCU") has plenary authority over financial, contractual, and policy matters relative to the Guam Waterworks Authority ("GWA" and/or "Authority"); and

WHEREAS, the Guam Waterworks Authority is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, GWA maintains a variety of bank accounts, letter of credit facilities and other financial instruments and accounts at institutions including but not limited to the Bank of Guam, Bank of Hawaii, First Hawaiian Bank, Community First, Coast360, ANZ Guam, Bank Pacific, etc.; and

WHEREAS, GWA has designated certain employees to sign checks and financial instruments including, but not limited to, letters of credit as well as for the authorization of electronic transactions on behalf of the Authority; and

WHEREAS it has been determined that recent changes in management has necessitated an update of signatories for the GWA financial instruments; and

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NOW BE IT THEREFORE RESOLVED, the Consolidated Commission on Utilities does hereby approve the following:

1. The recitals set forth above hereby constitute the findings of the CCU.

2. The following GWA personnel are authorized to sign financial instruments including checks, letters of credit, bank transfers and other transaction documents and to authorize other types of payments on behalf of GWA.

   MIGUEL C. BORDALLO, P.E., General Manager
   GILDA M. MAFNAS, Assistant Chief Financial Officer
   CHRISTOPHER M. BUDASI, Assistant General Manager – Administration & Support
   THOMAS F. CRUZ, P.E., Chief Engineer
   SANDRA J. SANTOS, Controller

3. Transaction amounts of $10,000 or less will require a single signatory. All other transactions will require two signatories.

4. Transaction amounts in excess of $250,000 will require the General Manager's signature or his designee.

5. The Chairman and Secretary of the CCU are authorized to sign resolutions which are considered consistent with the authorizations granted in this resolution as may be required from time to time by specific financial institutions with which GWA conducts financial transactions.

6. All transactions must be in accordance with delegations of contracting authority approved by the CCU and the GWA General Manager.

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

DULY AND REGULARLY ADOPTED, this 26th day of February, 2019.

Certified by:

_____
JOSEPH T. DUENAS
Chairperson

Attested by:

_____
MICHAEL T. LIMTIACO
Secretary

//

SECRETARY'S CERTIFICATE

I, Michael T. Limtiaco, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:

The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular meeting by the members of the 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: _____

ABSTENTIONS: _____

ABSENT: _____

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GUAM WATERWORKS AUTHORITY
"Better Water, Better Lives."
Gloria B. Nelson Public Service Building| 688 Route 15 | Mangilao, Guam 96913
Tel: (671) 300-6846

Issues for Decision

Resolution No. 14-FY2019
Relative to the Authorization for the Guam Waterworks Authority to Close and Reestablish its Customer Refund Account with the Bank of Guam

What is the project's objective and is it necessary and urgent?
To close and establish a new Customer Refund Account, as recommended by the bank, due to recent fraudulent activities detected in the account.

Where is the location?
Bank of Guam.

How much will it cost?
Incidental costs for ordering new checks.

When will it be completed?
Immediately upon adoption of this resolution.

What is the funding source?
N/A

The RFP/BID responses (if applicable):
N/A

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

GWA RESOLUTION NO. 14-FY2019

RELATIVE TO THE AUTHORIZATION FOR THE GUAM WATERWORKS AUTHORITY TO REESTABLISH ITS CUSTOMER REFUND ACCOUNT WITH THE BANK OF GUAM.

WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities ("CCU") has plenary authority over financial, contractual, and policy matters relative to the Guam Waterworks Authority ("GWA"); and

WHEREAS, the Guam Waterworks Authority ("GWA") is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, GWA has an existing bank account with the Bank of Guam for Customer Refunds; and

WHEREAS, the Bank of Guam fraud monitoring program detected suspicious third-party activity in the account and took swift and immediate action to prevent fraud by restricting the account and placing the account under close watch; and

WHEREAS, the Bank of Guam strongly recommends to close the existing account and reestablish a new account; and

WHEREAS, GWA has taken precautionary measures by closing the account and will take steps to reestablish a new account to protect the interest of its ratepayers.

NOW BE IT THEREFORE RESOLVED, the Consolidated Commission on Utilities does hereby approve the following:

1. The recitals set forth above hereby constitute the findings of the CCU.
2. The CCU ratifies and approves Management's previous action taken to suspend the account activity for the protection of ratepayer funds.
3. The General Manager of GWA is authorized to reestablish the Customer Refund checking account with the Bank of Guam.

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

DULY AND REGULARLY ADOPTED, this 26th day of February, 2019.

Certified by: Attested by:

_____ _____

JOSEPH T. DUENAS **MICHAEL T. LIMTIACO**
Chairperson Secretary

SECRETARY'S CERTIFICATE

I, Michael T. Limtiaco, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:

The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular meeting by the members of the 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: _____

ABSTENTIONS: _____

ABSENT: _____

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GUAM WATERWORKS AUTHORITY
"Better Water, Better Lives."
Gloria B. Nelson Public Service Building| 688 Route 15 | Mangilao, Guam 96913
Tel: (671) 300-6846

Issues for Decision

Resolution Nos. GPA 2019-04 & GWA 15-FY2019

Relative to Adoption and Implementation of a Unified Holiday Personnel Management Policy for the Guam Power Authority

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

The CCU has directed GPA and GWA ("GPWA") to review their existing policies regarding personnel management, wage obligations and official recognition of holidays set by statute and those set by executive order. GPWA management has determined that a unified policy for both utilities should be in place to set forth how the various holidays shall affect GPWA's management, employees and customers. The CCU has solicited comments from GPA & GWA General Managers, General Counsels and Assistant General Managers regarding the proposed UNIFIED HOLIDAY PERSONNEL MANAGEMENT POLICY. Management of GPA and GWA request the Consolidated Commission on Utilities to adopt the proposed UNIFIED HOLIDAY PERSONNEL MANAGEMENT POLICY.

GPWA's holidays shall follow the holiday schedule listed at 1 GCA §1000 (a) as it may be amended from time to time and shall be posted on each agency's website at the beginning of the calendar year. In the event a non-permanent holiday is declared by Executive Order of the Governor of Guam as allowed by 1 GCA §1000 (c), GPWA shall recognize said declaration and observe the holiday accordingly. Although GPWA will be observing the holiday, the policy of the utilities will be to provide customer service and GPWA's General Managers shall determine each agency's business needs for holidays declared by Executive Order, and ensure that employees and ratepayers are duly notified. GPWA Management is requesting the CCU to delegate to the General Managers the power to determine each agency's business needs on permanent and non-permanent Government of Guam holidays.

Where is the location?
Guam Power Authority and Guam Waterworks Authority

REFERENCE:

1 GCA §1000. HOLIDAYS

(a) The holidays of Guam are:

(1) New Year's Day;

(2) Martin Luther King, Jr. Day, the third Monday in January;

(3) Guam History and Chamorro Heritage Day, the first Monday in March;

(4) Memorial Day, the last Monday in May;

(5) Independence Day, July 4th;

(6) Liberation Day, July 21st;

(7) Labor Day, the first Monday in September;

(8) All Souls' Day, November 2;

(9) Veterans' Day, November 11;

(10) Thanksgiving, the fourth Thursday in November;

(11) Our Lady of Camarin Day, December 8; and

(12) Christmas, December 25th.

(b) Whenever a holiday listed in Subsection (a) of this Section falls on a Saturday or Sunday, the government of Guam shall follow the Federal government's practice for that holiday.

(c) In addition to the holidays specified in Subsection (a) of this Section, I Maga'lahen Guåhan may declare by Executive Order additional non-permanent holidays for special purposes. No holiday declared by Executive Order shall be continued beyond the year in which the Executive Order is issued.

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

GPA RESOLUTION NO. 2019-04
GWA RESOLUTION NO. 15-FY2019

ADOPTION AND IMPLEMENTATION OF A UNIFIED HOLIDAY PERSONNEL MANAGEMENT POLICY FOR THE GUAM POWER AUTHORITY AND THE GUAM WATERWORKS AUTHORITY

WHEREAS, the CCU has directed GPA and GWA ("GPWA") to review their existing policies regarding personnel management, wage obligations and official recognition of holidays set by statute and those set by executive order; and

WHEREAS, GPWA management has determined that a unified policy for both utilities should be in place to set forth how the various holidays shall affect GPWA's management, employees and customers; and

WHEREAS, the CCU has solicited comments from GPA & GWA General Managers, General Counsels and Assistant General Managers regarding the proposed UNIFIED HOLIDAY PERSONNEL MANAGEMENT POLICY; and

WHEREAS, management of GPA and GWA request the Consolidated Commission on Utilities to adopt the proposed UNIFIED HOLIDAY PERSONNEL MANAGEMENT POLICY.

NOW, THEREFORE, BE IT RESOLVED, by the CONSOLIDATED COMMISSION ON UTILITIES as follows:

(1) GPWA's holidays shall follow the holiday schedule listed at 1 GCA §1000 (a) as it may be amended from time to time and shall be posted on each agency's website at the beginning of the calendar year;

(2) In the event a non-permanent holiday is declared by Executive Order of the Governor of Guam as allowed by 1 GCA §1000 (c), GPWA shall recognize said declaration and observe the holiday accordingly;

(3) Although GPWA will be observing the holiday, the policy of the utilities will be to provide customer service and GPWA's General Managers shall determine each agency's business needs for holidays declared by Executive Order, and ensure that employees and ratepayers are duly notified;

(4) The CCU hereby delegates to the General Managers the power to determine each agency's business needs on permanent and non-permanent Government of Guam holidays.

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

DULY and REGULARLY ADOPTED AND APPROVED THIS 26th day of February, 2019.

Certified By:	**Attested By:**
_____	_____
Joseph T. Duenas	**Michael T. Limtiaco**
Chairperson	Secretary
Consolidated Commission on Utilities	Consolidated Commission on Utilities

SECRETARY'S CERTIFICATE

I, Michael T. Limtiaco, 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 a 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: _____

GUAM WATERWORKS AUTHORITY
"Better Water, Better Lives."
Gloria B. Nelson Public Service Building| 688 Route 15 | Mangilao, Guam 96913
Tel: (671) 300-6846

Issues for Decision

Resolution No. 16-FY2019
Relative to the Ratification for Security Services (IFB 2015-01) in Excess of the General Manager's Authority

What is the project's objective and is it necessary and urgent?
There is an ongoing need to maintain the existing security services at several GWA facilities.

Where is the location?
GWA Upper Tumon Facility to include the main building and inside the customer service area, the laboratory, customer parking lot, warehouse and FMES areas.

How much will it cost?
$15,356.09 (Ratification amount)

When will it be completed?
This contract ended on January 2019.

What is the funding source?
Revenue funded.

The RFP/BID responses (if applicable):
N/A.

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

RESOLUTION NO. 16 -FY2019

RELATIVE TO AUTHORIZING THE RATIFICATION OF EXPENDITURES FOR SECURITY SERVICES WITH G4S AND GWA TO SEEK THE APPROVAL OF THE PUBLIC UTILITIES COMMISSION TO RATIFY COST EXCEEDING $1 MILLION DOLLARS

WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities ("CCU") has plenary authority over financial, contractual and policy matters relative to the Guam Waterworks Authority ("GWA"); and

WHEREAS, the Guam Waterworks Authority ("GWA") is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, the Consolidated Commission on Utilities under Section 5452 of Title 5 of the Guam Code Annotated has the authority to ratify the procurement of goods and services if there is no indication that the company who was awarded the procurement acted in bad faith and there is a finding that the procurement is for GWA's use and is in the best interest of the Territory of Guam; and

WHEREAS, in April of 2015, GWA entered into a 4-year agreement with G4S Secure Solutions "G4S" as a result of a formal procurement titled GWA IFB 2015-01; and

WHEREAS, the second, third and fourth annual renewals on the agreement were exercised by GWA; and

WHEREAS, throughout the course of the last two renewal terms, additional security guards were needed due to the recent policy change to opening GWA customer service locations on Saturdays; and

WHEREAS, as a result of the additional security guards, payments made to the vendor exceeded the General Manager's authority by approximately Seventy-Five Thousand Dollars ($75,000.00) (See Res. 37-FY2018 at Ex A); and

WHEREAS, GWA Management sought and received approval by the CCU in Resolution 37-FY2018 for the ratification of the payments made to the vendor up to April 2018 and going forward up to the estimated total expended amount under $1,000,000.00; and

WHEREAS, as of January 2019, the total amount of payments made to the vendor is Nine Hundred Forty-Three Thousand Eight Hundred One Dollars and Sixty-Six Cents ($943,801.66), plus the total amount of Seventy-One Thousand Five Hundred Fifty-Four Dollars and Forty-Three Cents ($71,554.43) for pending invoices from October 2018 through January 2019. This brings the total amount under IFB 2015-01 to One Million Fifteen Thousand Three Hundred Fifty-Six Dollars and Nine Cents ($1,015,356.09), which exceeds the $1M amount by Fifteen Thousand Three Hundred Fifty-Six Dollars and Nine Cents ($15,356.09) (See Exhibit A); and

WHEREAS, GWA Management is requesting approval from the CCU for ratification of expenditures for security services in the amount of Fifteen Thousand Three Hundred Fifty-Six Dollars and Nine Cents ($15,356.09) and authorization to file a petition with the PUC to approve the costs exceeding the $1M Contract Review Protocol threshold.

NOW BE IT THEREFORE RESOLVED, the Consolidated Commission on Utilities does hereby approve the following:

Section 1. The foregoing recitals hereto are hereby ratified, confirmed, and incorporated herein by reference.

Section 2. The Consolidated Commission on Utilities hereby ratifies spending under the existing contract for the total amount of Fifteen Thousand Three Hundred Fifty-Six Dollars and Nine Cents ($15,356.09) for security services on the following grounds:

a. There was no indication of bad faith or fraud in any of the procurements contained herein.

b. According to GWA management, the services is required to ensure for the ongoing need to maintain the existing security services at several GWA facilities. The recitals set forth above hereby constitute the findings of the CCU.

c. All of the procurements herein are in the best interest of the Territory of Guam and the Guam Waterworks Authority.

d. Only a reasonable profit was given in those instances where the profit was given.

Section 3. This Resolution is hereby determined to be a declaration of official intent of the Consolidated Commission on Utilities

Section 4. All actions heretofore taken by the GWA or the officers thereof or on their behalf not inconsistent herewith related to these purchases are hereby ratified, approved and confirmed.

Section 5. Based on the foregoing, the CCU authorizes GWA management to pay the amount owed between GWA and Eurofin Eaton Analytical Inc. for the security services in the amount of Fifteen Thousand Three Hundred Fifty-Six Dollars and Nine Cents ($15,356.09).

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

DULY AND REGULARLY ADOPTED, this 26th day of February, 2019.

Certified by:	Attested by:
_____	_____
JOSEPH T. DUENAS	**MICHAEL T. LIMTIACO**
Chairperson	Secretary

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SECRETARY'S CERTIFICATE

I, Michael T. Limtiaco, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:

The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular meeting by the members of the 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: _____

ABSTENTIONS: _____

ABSENT: _____

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Exhibit A

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

GWA RESOLUTION NO. 37-FY2018

RELATIVE TO APRROVING EXPENDITURES FOR SECURITY SERVICES CONTRACT IN EXCESS OF THE GENERAL MANAGER'S AUTHORITY

WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities ("CCU") has plenary authority over financial, contractual and policy matters relative to the Guam Waterworks Authority ("GWA"); and

WHEREAS, the Guam Waterworks Authority ("GWA") is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, in April of 2015, GWA entered into a 4-year agreement with G4S Secure Solutions "G4S" as a result of a formal procurement titled GWA IFB 2015-01; and

WHEREAS, the G4S agreement provided for an initial 1-year term with the second through fourth year renewable annually; and

WHEREAS, the second, third and fourth annual renewals on the agreement were exercised by GWA; and

WHEREAS, during the course of the last two renewal terms, additional security guards were needed due to the recent policy change to opening GWA customer service locations on Saturdays, and;

WHEREAS, as of the close of April invoicing this year, payments to the vendor exceeded the General Manager's authority by approximately Seventy-Five Thousand Dollars ($75,000.00) (See EXHIBIT A), and;

WHEREAS, the expenditures anticipated under the current contract period will bring the total amount expended to under $1,000,000.00; and

WHEREAS, GWA procurement will initiate a new procurement for security services in July of this year which will provide ample time to get a new services contract in place prior to the expiration of the current contract.

NOW BE IT THEREFORE RESOLVED, the Consolidated Commission on Utilities does hereby approve the following:

1. The recitals set forth above hereby constitute the findings of the CCU.
2. The CCU finds that payment for Security Services currently provided on contract by G4S is reasonable, prudent and necessary (EXHIBIT A).
3. The payments to the vendor to date and going forward up to the amount of $1,000,000.00 are hereby ratified and approved.

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

DULY AND REGULARLY ADOPTED, this 5th day of June, 2018.

Certified by:

JOSEPH T. DUENAS
Chairperson

Attested by:

J. GEORGE BAMBA
Secretary

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SECRETARY'S CERTIFICATE

I, J. George Bamba, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:

The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular meeting by the members of the 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: 5

NAYS: 0

ABSTENTIONS: 0

ABSENT: 0



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Exhibit A

Guam Waterworks Authority
Summary of Security Service Expenditures (G4S Secure Solutions) on IFB 2015-01
Contract Period: March 01, 2015 - February 29, 2019
Report Period: March 01, 2015 - May 31, 2018

FY	Dates	Purchase Order	Amount Expended
2015	03/01/15 - 09/30/15	298185	132,096.82
2016	10/01/15 - 09/30/16	298876	246,012.71
2017	10/01/16 - 09/30/17	300001 / 300638	281,354.44
2018	10/01/17 - 04/30/18	301466	165,816.03
			$ 825,280.01

GUAM WATERWORKS AUTHORITY
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ISSUES FOR DECISION

Resolution No. 17-FY2019
Relative to the Amendment of the Assistant General Manager of Operations (AGMO) Classification Standards

What is the project's objective and is it necessary and urgent?
To amend the Assistant General Manager of Operations job standards and salary range based on the 10th market percentile, 2017 market data; to facilitate the recruitment of the AGM position to support the Authority's daily operations of its Water and Wastewater Divisions, and construction and maintenance functions thereby providing effective and efficient delivery of safe drinking water and services to the community.

The CCU has mandated the recruitment of additional senior management support. The Authority currently employs one Assistant General Manager for Compliance & Safety and one Assistant General Manager – Administration & Support. The AGM of Operations position remains unfilled, while the operational divisions function remains under the supervision of the General Manager, affecting the efficiency and responsiveness of operations among Superintendents or Managers, who are addressing the water/wastewater needs of our community.

Where is the location?
The Assistant General Manager of Operations will be under the direct supervision and management of the General Manager while overseeing and ensuring optimal performance of our Water and Wastewater Divisions.

When will it be completed?
Public Law 34-131, §(e) as added and 4 GCA §6303 (d) & (2C), 5GCA, Chapter 10, Article 1 (Sunshine Law) requires GPA and GWA to post a petition on their websites for ten (10) days (not including Saturdays, Sundays and government of Guam holidays). After the 10 days posting, the petition can then be forwarded to the CCU for their disposition at any regularly scheduled meeting. GWA has met the posting requirements.

Additionally, Guam law requires notice of such posting to each newspaper of general circulation and broadcasting station, which airs regular news programs within Guam.

What is the funding source?
The position will be revenue funded.

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

RESOLUTION NO. 17-FY2019

RELATIVE TO THE APPROVAL OF THE AMENDMENT OF THE ASSISTANT GENERAL MANAGER – OPERATIONS (AGMO) (UNCLASSIFIED) JOB CLASSIFICATION STANDARD

WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities ("CCU") has plenary authority over financial, contractual and policy matters relative to the Guam Waterworks Authority ("GWA"); and

WHEREAS, the Guam Waterworks Authority ("GWA") is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, the GWA General Manager requests the CCU to approve the amendment of the Assistant General Manager – Operations (AGMO) (Exhibit A); and

WHEREAS, the GWA General Manager requests the CCU to approve the job classification standards of the Assistant General Manager – Operations (AGMO) position in the unclassified status; and

WHEREAS, Public Law 34-131, §(e) as added and 4 GCA §6303 (d) & (2C) authorizes the creation of positions in Autonomous Agencies and Public Corporations; and

WHEREAS, GWA Personnel Rules and Regulations as amended by Public Law 28-159 Section 3 (C) authorizes the CCU to amend, modify or add a position to the list of certified, technical and professional positions;

NOW BE IT THEREFORE RESOLVED, the Consolidated Commission on Utilities, as the Governing Body of the Guam Waterworks Authority, does hereby approve and authorize the following:

1. The recitals set forth above hereby constitute the findings of the CCU.
2. The amendment of the job classification standard for the Assistant General Manager – Operations (AGMO) position in the unclassified status is hereby approved and attached herein as Exhibit A.
3. The Assistant General Manager – Operations (AGMO) is hereby added to the certified, technical and professional list of positions at GWA.

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

DULY AND REGULARLY ADOPTED, this 26th day of February 2019.

Certified by: Attested by:

_____ _____

JOSEPH T. DUENAS **MICHAEL T. LIMTIACO**
Chairperson Secretary

SECRETARY'S CERTIFICATE

I, Michael T. Limtiaco, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:

The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular meeting by the members of the 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: _____

ABSTENTIONS: _____

ABSENT: _____

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ASSISTANT GENERAL MANAGER OF OPERATIONS (AGMO)
(Unclassified)

MINIMUM EXPERIENCE AND TRAINING:

A) Master's Degree in Engineering, Business, Public Administration or other related field; with major course of work in utility infrastructure and operations, organization, analysis and evaluation, and financial management plus 6 years of demonstrated experience and progressive responsibility in the management of operations in utilities, construction or technically related field; or

B) Bachelor's Degree in Engineering, Business, Public Administration or other related field; with major course of work in utility infrastructure and operations, organization, analysis and evaluation, and financial management plus 7 years of demonstrated experience and progressive responsibility in the management of operations in utilities, construction or technically related field.

PREFERRED SPECIAL QUALIFICATION:

- ♦ Professional Engineer (PE) License; or
- ♦ Possession of a valid Guam Environmental Protection Agency Operator Certification Level IV in Water Treatment, Water Distribution, Wastewater Collection, and Wastewater Treatment.

NECESSARY SPECIAL QUALIFICATIONS:

Experience in and knowledgeable of the water production, treatment and distribution facilities life cycles or wastewater collection and treatment facilities life cycles; cost analysis; asset management; regulatory compliance and permitting processes and experience in the system control and data acquisition (SCADA) systems and hydraulic modeling.

NATURE OF WORK IN THIS CLASS:

This is a complex work involving the planning, organizing and coordinating of all the Authority's production, distribution, collection, treatment, and operational control activities for the water and wastewater systems, including the preventive and corrective maintenance and repair of facilities to ensure systems meet high level compliance with water and wastewater standards.

The Assistant General Manager of Operations (AGMO) is responsible and accountable to the Guam Waterworks Authority's General Manager for the effective conduct of its operations to meet the established levels of service for all customers, in accordance with the Guam Safe Drinking Water Act and the Clean Water Act, associated regulations, and applicable permit requirements. The AGMO is also responsible and accountable for the managing and organizing efficient business operations in the divisions assigned. The AGMO shall also be responsible for assisting with the formulation of recommendations on policies, goals and objectives to, and implementation of plans, policies and procedures adopted by the CCU.

EXHIBIT A

The AGMO serves under the direction of the General Manager. AGMO directs and manages the development of short-term and long-term goals and objectives of GWA and ensures their effective execution; makes sure all assigned operations and functions are sustainable and effectively serve the needs of GWA's ratepayers, while complying with applicable laws and regulations; and performs related duties as assigned.

ILLUSTRATIVE EXAMPLES OF WORK: (These examples do not list all the duties which may be assigned; any one position may not include all the duties listed)

- The AGMO's primary responsibilities will be to manage, coordinate, and report on the six (6) operational divisions/functions of the water and wastewater systems: Water Production and Treatment; Water Distribution; Wastewater Collection; and Wastewater Treatment; Construction & Maintenance; and the W/WW System Control Center/Asset Management.

- The AGMO shall be responsible for the proper operation of the W/WW Systems Control Center (WSCC), using the appropriate staff of certified operators, technicians, trades professionals, along with hydraulic modelling and analytical tools, to effectively manage an integrate W/WW systems.

- The AGMO shall plan, organize, staff, and direct the operation of the Authority's water/wastewater systems, including the setting of operation objectives, standards, training of employees and evaluation of system operational performance.

- The AGMO shall assure compliance with the minimum Levels of Service (LOS) established by the Authority in the operation of the water and wastewater systems, and shall work with other Assistant General Managers, The Chief Financial Officer, Legal Counsel and under the direction of the General Manager, to achieve the utility wide LOS compliance at the lowest possible cost.

- The AGMO shall analyze systems operations and control performance, costs and effectiveness, and develops strategies and recommendations to increase efficiency, reliability, sustainability, compliance and security of water and wastewater services, while maintaining the lowest cost possible.

- The AGMO shall work with the General Manager in continuing, and advancing where feasible and desirable, the interoperation of and integration with military water and wastewater utility systems, in accordance with policy guidelines established by the CCU.

- The AGMO shall be responsible for the preparation of annual budget estimates for the operations divisions under his supervision.

EXHIBIT A

- The AGMO shall be responsible for the preparation of capital improvement project recommendations for each operational division under his authority; and shall, work with other Assistant General Managers, the Chief Financial Officer, Legal Counsel and under the direction of the General Manager, implement approved CIP's in accordance with Authority's approved Capital Improvements Program.

- The AGMO shall be responsible for the development and implementation of the Authority's Asset Management Program, and shall insure that all water and wastewater system assets are properly documented, maintained, repaired and otherwise managed, and that all cost elements are properly captured to provide meaningful cost reporting to support budgets, rate cases and financial decision-making for system operation and maintenance.

- The AGMO shall provide complete and timely reports on the operations of the water and wastewater systems to the General Manager and the CCU.

- The AGMO may be appointed to serve as Acting General Manager for the Authority from time to time.

- The AGMO shall perform such other duties assigned by the General Manager.

MINIMUM KNOWLEDGE, SKILLS AND ABILITIES:

- Knowledge of the principles and practices of water treatment and production, and wastewater treatment, as well as the regulations which govern them.

- Knowledge of the designs and operating characteristics of all facilities and equipment used for the processing and distribution of water, and the collection, treatment and disposal of wastewater.

- Knowledge of the computer-based hydraulic modelling for water/wastewater systems, as well as principles, practices and procedures for the supervisory control and data acquisition in the monitoring and operation of those systems.

- Knowledge of the principles and practices of asset management, including the use of computerized maintenance management systems.

- Knowledge of the standard methods, materials, practices and equipment used in the construction, operations, repair and maintenance of potable water and wastewater systems, including ancillary infrastructure, such as roadways, drainage and other improvements.

EXHIBIT A

- Knowledge of management techniques, principles and procedures to assign work, schedule, supervise, train, and evaluate the work of assigned staff.
- Ability to analyze and evaluate engineering, statistical and financial data, conduct and direct research and develop alternatives and recommendations.
- Ability to effectively communicate with management and subordinates to convey logic and rationale, ideas, objectives and consequences.
- Ability to establish and implement effective operational programs and procedures. Established priorities for the completion of work in accordance with sound time-management methodology.
- Ability to perform a broad range of managerial responsibilities over others.
- Ability to handle a variety of issues with tact and diplomacy and in a confidential manner.
- Ability to induce effective employee performance to maintain high level performance, training and safety.
- Ability to manage the water and wastewater systems repair and maintenance programs.
- Ability to understand, interpret and work from engineering drawings and technical specifications.
- Ability to recommend and implement changes in policies, procedures, materials and equipment to enhance program effectiveness.

ESTABLISHED: February 1997
AMENDED: January 2017
AMENDED: February 2019

JOB EVALUATION POINTS: 1514
PAYGRADE: MINIMUM: R3-D $137,745.00 PER ANNUM
MAXIMUM: R4-D 4143,339.00 PER ANNUM

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JOSEPH T. DUENAS, CHAIRMAN
CONSOLIDATED COMMISSION ON UTILITIES

EXHIBIT A

GUAM WATERWORKS AUTHORITY
"Better Water, Better Lives."
Gloria B. Nelson Public Service Building| 688 Route 15 | Mangilao, Guam 96913
Tel: (671) 300-6846

ISSUES FOR DECISION

Resolution No. 18-FY2019
Relative to Establishing a Policy for Time Standards for Issuing Back Bills for Faulty Water Meters.

What is the project's objective and is it necessary and urgent?
To clarify areas within GWA rules and regulations which are silent about timing and issuance of back bills, and to recommend policy based on recent discussions by Commission Members about this topic. GWA Management proposes the Commission adopt the recommended policy on acceptable timeframes for these activities. The proposed policy is based on the following activities required within the involved GWA divisions:

Customer Service (Water Meter Exchange)

1) Work order created.
2) Water meter replaced and sent to testing facility.
3) Work order information submitted to customer service for recording into customer billing system.
4) Work order and new water meter information entered and posted into customer billing system.
5) Notice of meter replacement is automatically generated and sent to customer.
6) Meter exchange process takes up to 10 working days or 2 weeks to complete.

Meter Test Facility

1) Water meter received from field team and tested.
2) Testing results transmitted to Customer Service.
3) Testing results entered and posted into Customer Billing system.
4) If testing indicates a faulty water meter, then notice is automatically generated and sent to customer's that a back-bill may be forthcoming.
5) Process takes up to 30 working days or 2.5 months to complete.

Finance (Issuing Back Bill)

For customers determined to have faulty water meters:

1) Print water meter exchange and testing documentation, review, calculate back-billing amount, submit to supervisor for sign off.
2) Notice to customer manually generated with billing adjustment details and sent to customer.
3) Billing adjustments are entered and posted into Customer Billing system.
4) Documents generated by finance scanned and shared with customer service to support future customer inquiries.
5) Process runs concurrently with water meter testing process and takes up to 70 working days or 3.5 months to complete.

Where is the location?
The time standards affect the following departments: Customer Service (water meter exchange task force), Meter Test Facility, IT and Finance. Each department is responsible to refine its processes to ensure time standards are met for issuing back bills.

When will it be completed?
Time standards will be effective upon adoption of the policy resolution.

What is the funding source?
No additional funding is required.

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

GWA RESOLUTION NO. 18-FY2019

RELATIVE TO ESTABLISHING A POLICY ON TIME STANDARDS FOR ISSUING BACK BILLS FOR FAULTY WATER METERS

WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities ("CCU") has plenary authority over financial, contractual, and policy matters relative to the Guam Waterworks Authority ("GWA"); and

WHEREAS, the Guam Waterworks Authority ("GWA") is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, 12 GCA § 12128 allows for back billing of additional consumption due to faulty water meters or previous billing errors; and

WHEREAS, back bills are limited to four months, or four 30-day billing cycles immediately preceding confirmation of the faulty meter and charges are determined by using actual average daily consumption from the two month or 60-day period following the installation of properly functioning meter; and

WHEREAS, delayed back bill notifications lacking clear explanations and supporting calculations are creating confusion and dissatisfaction for Customers; and

WHEREAS, GWA is required to provide clear and convincing evidence to support back billing customers for consumption due to faulty meters; and

WHEREAS, good business practice requires timely issuance of clear and easy to understand back bills; and

WHEREAS, management of GWA request the Consolidated Commission on Utilities to adopt the proposed POLICY ON TIME STANDARDS FOR BACK BILLING FAULTY WATER METERS, including the Time Standard included as Attachment A.

NOW BE IT THEREFORE RESOLVED, the Consolidated Commission on Utilities does hereby approve the following:

1. GWA shall send customer a letter indicating water meter has been replaced within two weeks of meter exchange date.
2. For failed water meters, GWA shall send customer a letter indicating meter was tested and account is under review for potential back billing within two and one-half months of meter exchange date.
3. If a back bill is required, GWA shall issue the bill and send customer a letter with easily understandable calculations explaining charges for prior period water consumption within four months of the meter exchange date.

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

DULY AND REGULARLY ADOPTED, this 26th day of February, 2019.

Certified by:	Attested by:
_____	_____
JOSEPH T. DUENAS	**MICHAEL T. LIMTIACO**
Chairperson	Secretary
Consolidated Commission on Utilities	Consolidated Commission on Utilities

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SECRETARY'S CERTIFICATE

I, **Michael T. Limtiaco**, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:

The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular meeting by the members of the 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: _____

ABSTENTIONS: _____

ABSENT: _____

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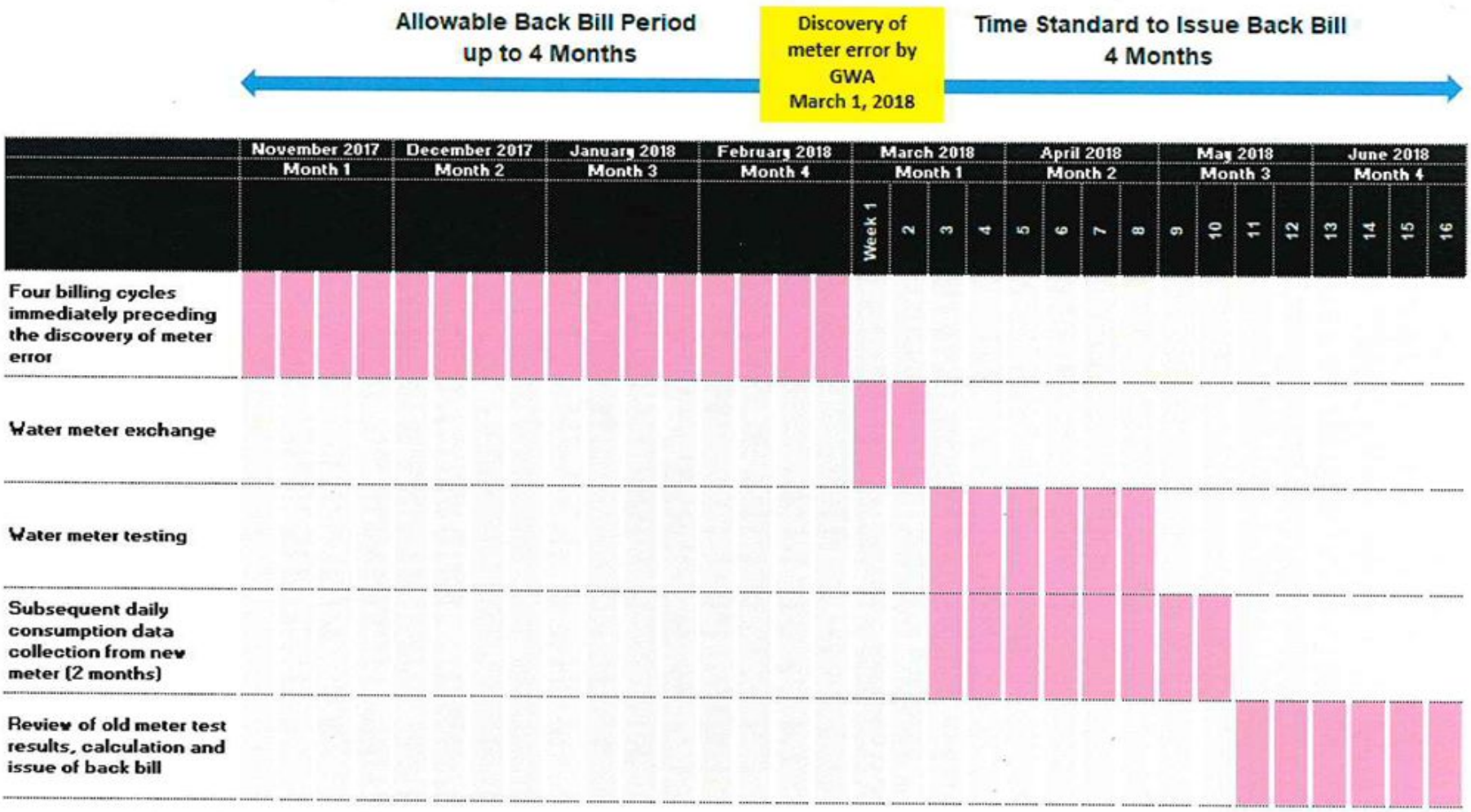
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Exhibit A

Proposed Time Standard
Back Billing for Water Meter Errors



Note: one week = 5 working days; one month=20 working days

Policy recommendation:
1) Send customer a letter indicating meter has been replaced within 2 weeks of meter exchange date.
2) For failed meters, send customer a letter indicating meter was tested and account is under review for potential back billing within 2.5 months of meter exchange date.
3) If back bill required, send customer a letter with easily understandable calculations explaining charges for prior period water consumption.

GUAM WATERWORKS AUTHORITY
"Better Water, Better Lives."
Gloria B. Nelson Public Service Building| 688 Route 15 | Mangilao, Guam 96913
Tel: (671) 300-6846

Issues for Decision

Resolution No. 19- FY2019
Relative to Approval of Funding Increase to the Baza Gardens Wastewater Cross-Island Pumping and Conveyance System Design Contract

What is the project's objective and is it necessary and urgent?
During the course of the on-going Baza Gardens Wastewater Cross-Island Pumping and Conveyance System construction project, in which the construction completion period had been extended a couple of times, the need for additional design services during construction for responses to RFI's, as-built survey work of completed structures, archeological monitoring of excavations near Agat, and the re-design of the final surface grading at the Baza Gardens treatment plant site have emerged.

This authorization will fund the additional services as noted above and is necessary for the completion of the $30M Baza Gardens Wastewater Cross-Island Pumping and Conveyance System construction projects.

Where is the location?
Former Baza Gardens WWTP, as well as along Routes 17 and 2A in Yona, Santa Rita and Agat.

How much will it cost?
The additional funding authorization per this resolution is One Hundred Thousand Dollars ($100,000.00) which will increase the total funding for design services to a maximum of Three Million Three Hundred Fifty-Eight Thousand Nine Hundred Fourteen Dollars and Eighty Cents ($3,358,914.80)

When will it be completed?
GWA estimated the overall project will be completed by April 2019.

What is the funding source?
Funding for the additional services will be from Bond Funds under the line items CIP WW 09-08 and WW 11-03, Internally Funded CIP fund or SDC, as applicable.

The RFP/BID responses (if applicable):
N/A

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

GWA RESOLUTION NO. 19-FY2019

RELATIVE TO APPROVAL OF FUNDING INCREASE TO THE BAZA GARDENS WASTEWATER CROSS-ISLAND PUMPING AND CONVEYANCE SYSTEM DESIGN CONTRACT

WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities ("CCU") has plenary authority over financial, contractual, and policy matters relative to the Guam Waterworks Authority ("GWA"); and

WHEREAS, the Guam Waterworks Authority ("GWA") is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, GWA currently has a number of critical Court Order ("CO") projects including a complete evaluation of the Baza Gardens WWTP to determine what improvements are necessary at the plant to achieve compliance with the WWTP's NDPES permit, as stated in Paragraph 13 of the 2011 Court Order; and

WHEREAS, GWA advertised for design services via RFP-13-ENG-2015 for an engineering firm to design the Baza Gardens Wastewater Cross-Island Pumping and Conveyance System; and

WHEREAS, the CCU approved via resolution 06-FY2016 that GWA enter into a contract with the most qualified design firm for an amount not to exceed Three Million Dollars ($3,000,000); and

WHEREAS, GWA subsequently executed a contract on February 5, 2016, for design services with the most qualified firm, Duenas Camacho and Associates (DCA), in the amount of Two Million Nine Hundred Ninety-Seven Thousand Eight Hundred Seventy-Five Dollars and Five Cents ($2,997,875.05); and

WHEREAS, the CCU approved additional design services for a waterline, communications conduits, and private property acquisitions via Resolution 45-FY2016 in the amount of One Hundred Forty-Nine Thousand Eight Hundred Ninety-Three Dollars and Seventy-Five Cents ($149,893.75), to bring the total funding to Three Million Two Hundred Fifty-Eight Thousand Nine Hundred Fourteen Dollars and Eighty Cents ($3,258,914.80); and

WHEREAS, during the course of the currently on-going Baza Gardens Wastewater Cross-Island Pumping and Conveyance System construction project, for which the construction completion period has been extended, the need for additional design services during construction have arisen, specifically for responses to RFI's, as-built survey work of completed structures, archeological monitoring of excavations near Agat, and the re-design of the final surface grading at the Baza Gardens treatment plant site; and

WHEREAS, the additional work noted above has been a discussion point between GWA and DCA through the course of the construction period when the issue arose, however GWA only recently negotiated with DCA a fee proposal (Exhibit A) to perform these additional services in the amount of Sixty-Eight Thousand Fourteen Dollars and Sixty-Eight Cents ($68,014.68), which GWA considers reasonable; and

WHEREAS, GWA seeks CCU approval of a funding increase authorization in the amount not to exceed One Hundred Thousand Dollars ($100,000.00) to fund the work noted above as well as any unforeseen design requirements GWA Management may deem necessary; and

WHEREAS, the approval of the funding increase will bring the total authorized funding for the design services to be a maximum of Three Million Three Hundred Fifty-Eight Thousand Nine Hundred Fourteen Dollars and Eighty Cents ($3,358,914.80); and

WHEREAS, funding for these additional services will be from Bond Funds under the line items CIP WW 09-08 and WW 11-03, Internally Funded CIP fund or SDC, as applicable; and

NOW BE IT THEREFORE RESOLVED, the Consolidated Commission on Utilities does hereby approve the following:

1. The recitals set forth above hereby constitute the findings of the CCU.
2. The CCU finds that the terms of the conditions set by GWA relative to commencement of work activities are fair and reasonable and serve as a measure of Quality Assurance/Quality Control (QA/QC).
3. The CCU hereby authorizes GWA to execute a Change Order with DCA in the amount of Sixty-Eight Thousand Three Hundred Ninety Dollars ($68,390.00, Exhibit A).
4. The CCU hereby further authorizes the total funding amount for this project to a maximum of Three Million Three Hundred Fifty-Eight Thousand Nine Hundred Fourteen Dollars and Eighty Cents ($3,358,914.80), which is the sum of the authorization amount not to exceed One Hundred Thousand Dollars ($100,000.00) and prior authorization (Res. 45-FY2016) of Three Million Two Hundred Fifty-Eight Thousand Nine Hundred Fourteen Dollars and Eighty Cents ($3,258,914.80);
5. The CCU hereby further authorizes the funding to be from Bond Funds under the line items CIP WW 09-08 and WW 11-03, Internally Funded CIP fund or SDC, as applicable.

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

DULY AND REGULARLY ADOPTED, this 26th day of February, 2019.

Certified by:

JOSEPH T. DUENAS
Chairperson

Attested by:

MICHAEL T. LIMTIACO
Secretary

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SECRETARY'S CERTIFICATE

I, Michael T. Limtiaco, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:

The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular meeting by the members of the 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: _____

ABSTENTIONS: _____

ABSENT: _____

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DUEÑAS · CAMACHO & Associates, Inc.

Website: www.dcaguam.com
Email: dca@dcaguam.com

EXHIBIT "A"

February 15, 2019

Attn: John Davis, PE

Ref: **Baza Gardens Wastewater Cross-Island Pumping and Conveyance System. GWA project number: S05-008-BND**

Subject: **Design Change Order 4. As-built survey, Archeological Monitoring and Baza Gardens Grading Revision**

Hafa Adai,

The following letter provides the fee the services as outlined below.

As-built Survey

At GWA's request, the DCA survey crew has performed an as-built survey of the newly installed gravity sewer-lines along the entire project length. A break down of this survey effort is provide in the attached fee breakdown.

Archeological Survey Services.

Archeological monitoring is required as part of the project construction permit. DCA has provided this monitoring through our sub-contractor SEARCH. Extended monitoring was required along the Route 2A portion of the project site. A copy of SEARCH's invoice and hourly breakdown is attached to this request. A copy of correspondence from SEACH indicating this this is the final request needed to close out the required archeological monitoring services is also attached to this request.

Baza Gardens Revised Grading Plan

The second EQ tank at the Baza Gardens Site has been removed from the project. A revision to the final grade is needed to accommodate this revision. A breakdown of DCA's effort to provide a revised final grading plan is attached to this request.

February 15, 2019

The following is our proposed revised fee for the services listed above:

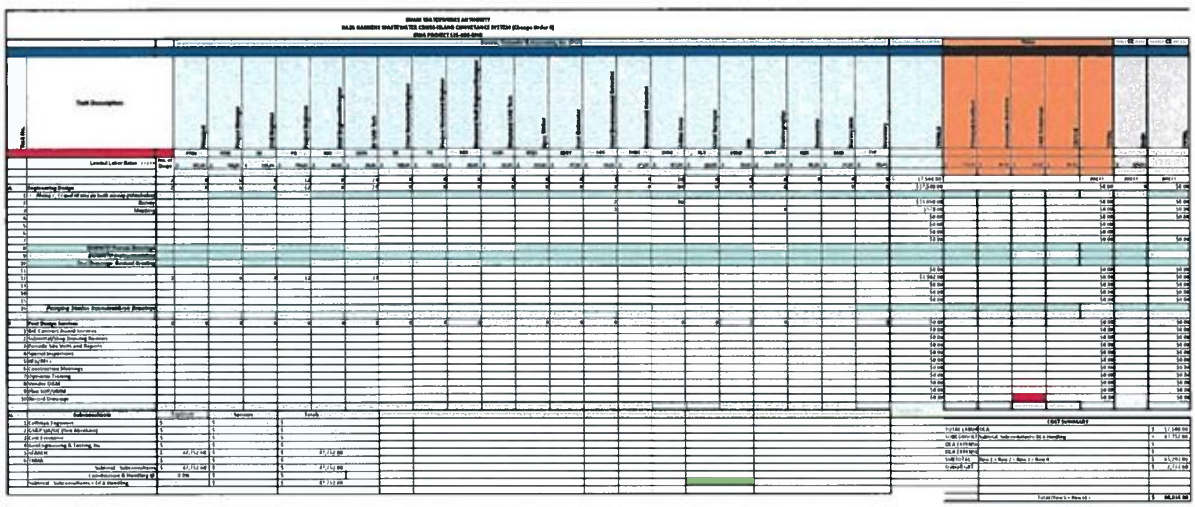
CO #4	
SEARCH Monitoring and Post monitoring Plan	$47,752.00
DCA asbuilt Survey	$13,638.00
Revised Baza Phase III Grading Plan	$3,902.00
GRT	$2,722.68
Total	**$68,014.68**

Thank you,

Kenneth M. Rekdahl, PE
Vice- President and Project Manager
Duenas, Camacho & Associates
671-477-7991

Att
DCA spreadsheet /SEARCH Invoice

ENGINEERING * PLANNING * SURVEYING * ENVIRONMENTAL SERVICES * GEOGRAPHIC INFORMATION SYSTEM * CONSTRUCTION MANAGEMENT
GUAM P.O. Box 8900, Tamuning, Guam 96931 / 238 E. Marine Corps Drive, Suite 201 Diamond Plaza, Hagatña, GU 96910 / Tel: (671) 477-7991 / Fax: (671) 479-6315
SAIPAN Caller Box PPP, Suite 164, Saipan, MP 96950 / Chalan Pale Arnold, Ada's Building South Garapan, Saipan 96950 / Tel: (670) 234-9017 / Fax: (670) 234-3842



SEARCH

BILL TO:
Duenas, Camacho & Associates, Inc.
238 E. Marine Corps Drive
Suite 201 Diamond Plaza
Hagatna, Guam 96910

via email: kmrekdahl@dcaguam.com

REMIT TO:
Southeastern Archaeological Research, Inc.
315 NW 138th Terrace
Newberry, FL 32669
(352) 333-0049
TIN 59-3215370

Invoice Date: 11/19/18
Invoice Number: 3865-05

SEARCH Project No.: 3865-17009P
Terms: Net 14 Days

Period of Performance: 11/25/17 - 11/6/2018

Providing Professional Archaeological Monitoring Services in Conjunction with GWA Basa Gardens Wastewater Cross-Island Conveyance System Guam

Contract Base Fee	Contract Value	Percent Complete	Fee Earned	Prior Billing	Current Fee
Project Award	$5,977.50	100%	$5,977.50	$5,977.50	$0.00
Draft Final Report Submittal	$5,977.50	0%	$0.00	$0.00	$0.00
	$11,955.00		$5,977.50	$5,977.50	
Total Base Fee:					**$0.00**

Archaeological Monitoring	Hours	Rate	Amount
Archaeological Monitoring	334.2	$125.00	$41,775.00
Total Archaeological Monitoring:			**$41,775.00**

TOTAL AMOUNT BILLED THIS INVOICE: $41,775.00

TOTAL AMOUNT DUE: $41,775.00

Thank you. We appreciate your business.

SEARCH

BILL TO:
Duenas, Camacho & Associates, Inc.
238 E. Marine Corps Drive
Suite 201 Diamond Plaza
Hagatna, Guam 96910

via email: kmrekdahl@dcaguam.com

REMIT TO:
Southeastern Archaeological Research, Inc.
3117 Edgewater Drive
Orlando, FL 32804
(407) 236-7711
TIN 59-3215370

Invoice Date: 02/13/19
Invoice Number: 3865-06

SEARCH Project No.: 3865-17009P
Terms: Net 14 Days

Period of Performance: 11/7/18-02/12/19

Providing Professional Archaeological Monitoring Services in Conjunction with GWA Basa Gardens Wastewater Cross-Island Conveyance System Guam

Contract Base Fee	Contract Value	Percent Complete	Fee Earned	Prior Billing	Current Fee
Project Award	$5,977.50	100%	$5,977.50	$5,977.50	$0.00
Draft Final Report Submittal	$5,977.50	100%	$5,977.50	$0.00	$5,977.50
	$11,955.00		$11,955.00	$5,977.50	
Total Base Fee:					**$5,977.50**

Archaeological Monitoring	Hours	Rate	Cumulative
Archaeological Monitoring	334.2	$125.00	$41,775.00
Total Archaeological Monitoring:			**$0.00**

TOTAL AMOUNT BILLED THIS INVOICE: $5,977.50

TOTAL AMOUNT DUE: $5,977.50

Thank you. We appreciate your business.

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

GWA RESOLUTION NO. 13-FY2019

RELATIVE TO NEW SIGNATORIES THAT MAY AUTHORIZE PAYMENTS ON BEHALF OF GUAM WATERWORKS AUTHORITY

WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities ("CCU") has plenary authority over financial, contractual, and policy matters relative to the Guam Waterworks Authority ("GWA" and/or "Authority"); and

WHEREAS, the Guam Waterworks Authority is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, GWA maintains a variety of bank accounts, letter of credit facilities and other financial instruments and accounts at institutions including but not limited to the Bank of Guam, Bank of Hawaii, First Hawaiian Bank, Community First, Coast360, ANZ Guam, Bank Pacific, etc.; and

WHEREAS, GWA has designated certain employees to sign checks and financial instruments including, but not limited to, letters of credit as well as for the authorization of electronic transactions on behalf of the Authority; and

WHEREAS it has been determined that recent changes in management has necessitated an update of signatories for the GWA financial instruments; and

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NOW BE IT THEREFORE RESOLVED, the Consolidated Commission on Utilities does hereby approve the following:

1. The recitals set forth above hereby constitute the findings of the CCU.

2. The following GWA personnel are authorized to sign financial instruments including checks, letters of credit, bank transfers and other transaction documents and to authorize other types of payments on behalf of GWA.

   MIGUEL C. BORDALLO, P.E., General Manager
   GILDA M. MAFNAS, Assistant Chief Financial Officer
   CHRISTOPHER M. BUDASI, Assistant General Manager – Administration & Support
   THOMAS F. CRUZ, P.E., Chief Engineer
   SANDRA J. SANTOS, Controller

3. Transaction amounts of $10,000 or less will require a single signatory. All other transactions will require two signatories.

4. Transaction amounts in excess of $250,000 will require the General Manager's signature or his designee.

5. The Chairman and Secretary of the CCU are authorized to sign resolutions which are considered consistent with the authorizations granted in this resolution as may be required from time to time by specific financial institutions with which GWA conducts financial transactions.

6. All transactions must be in accordance with delegations of contracting authority approved by the CCU and the GWA General Manager.

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

DULY AND REGULARLY ADOPTED, this 26th day of February, 2019.

Certified by:

JOSEPH T. DUENAS
Chairperson

Attested by:

MICHAEL T. LIMTIACO
Secretary

//

SECRETARY'S CERTIFICATE

I, Michael T. Limtiaco, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:

The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular meeting by the members of the 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: 4

NAYS: 0

ABSTENTIONS: 0

ABSENT: 1

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

GWA RESOLUTION NO. 14-FY2019

RELATIVE TO THE AUTHORIZATION FOR THE GUAM WATERWORKS AUTHORITY TO REESTABLISH ITS CUSTOMER REFUND ACCOUNT WITH THE BANK OF GUAM.

WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities ("CCU") has plenary authority over financial, contractual, and policy matters relative to the Guam Waterworks Authority ("GWA"); and

WHEREAS, the Guam Waterworks Authority ("GWA") is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, GWA has an existing bank account with the Bank of Guam for Customer Refunds; and

WHEREAS, the Bank of Guam fraud monitoring program detected suspicious third-party activity in the account and took swift and immediate action to prevent fraud by restricting the account and placing the account under close watch; and

WHEREAS, the Bank of Guam strongly recommends to close the existing account and reestablish a new account; and

WHEREAS, GWA has taken precautionary measures by closing the account and will take steps to reestablish a new account to protect the interest of its ratepayers.

NOW BE IT THEREFORE RESOLVED, the Consolidated Commission on Utilities does hereby approve the following:

1. The recitals set forth above hereby constitute the findings of the CCU.
2. The CCU ratifies and approves Management's previous action taken to suspend the account activity for the protection of ratepayer funds.
3. The General Manager of GWA is authorized to reestablish the Customer Refund checking account with the Bank of Guam.

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

DULY AND REGULARLY ADOPTED, this 26th day of February, 2019.

Certified by:

JOSEPH T. DUENAS
Chairperson

Attested by:

MICHAEL T. LIMTIACO
Secretary

SECRETARY'S CERTIFICATE

I, Michael T. Limtiaco, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:

The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular meeting by the members of the 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: 4

NAYS: 0

ABSTENTIONS: 0

ABSENT: 1

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

GPA RESOLUTION NO. 2019-04
GWA RESOLUTION NO. 15-FY2019

ADOPTION AND IMPLEMENTATION OF A UNIFIED HOLIDAY PERSONNEL MANAGEMENT POLICY FOR THE GUAM POWER AUTHORITY AND THE GUAM WATERWORKS AUTHORITY

WHEREAS, the CCU has directed GPA and GWA ("GPWA") to review their existing policies regarding personnel management, wage obligations and official recognition of holidays set by statute and those set by executive order; and

WHEREAS, GPWA management has determined that a unified policy for both utilities should be in place to set forth how the various holidays shall affect GPWA's management, employees and customers; and

WHEREAS, the CCU has solicited comments from GPA & GWA General Managers, General Counsels and Assistant General Managers regarding the proposed UNIFIED HOLIDAY PERSONNEL MANAGEMENT POLICY; and

WHEREAS, management of GPA and GWA request the Consolidated Commission on Utilities to adopt the proposed UNIFIED HOLIDAY PERSONNEL MANAGEMENT POLICY.

NOW, THEREFORE, BE IT RESOLVED, by the CONSOLIDATED COMMISSION ON UTILITIES as follows:

(1) GPWA's holidays shall follow the holiday schedule listed at 1 GCA §1000 (a) as it may be amended from time to time and shall be posted on each agency's website at the beginning of the calendar year;

(2) In the event a non-permanent holiday is declared by Executive Order of the Governor of Guam as allowed by 1 GCA §1000 (c), GPWA shall recognize said declaration and observe the holiday accordingly;

(3) Although GPWA will be observing the holiday, the policy of the utilities will be to provide customer service and GPWA's General Managers shall determine each agency's business needs for holidays declared by Executive Order, and ensure that employees and ratepayers are duly notified;

(4) The CCU hereby delegates to the General Managers the power to determine each agency's business needs on permanent and non-permanent Government of Guam holidays.

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

DULY and REGULARLY ADOPTED AND APPROVED THIS 26th day of February, 2019.

Certified By:

Joseph T. Duenas
Chairperson
Consolidated Commission on Utilities

Attested By:

Michael T. Limtiaco
Secretary
Consolidated Commission on Utilities

SECRETARY'S CERTIFICATE

I, Michael T. Limtiaco, 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 a 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: 4

NAYS: 0

ABSENT: 1

ABSTAIN: 0



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

RESOLUTION NO. 17-FY2019

RELATIVE TO THE APPROVAL OF THE AMENDMENT OF THE ASSISTANT GENERAL MANAGER – OPERATIONS (AGMO) (UNCLASSIFIED) JOB CLASSIFICATION STANDARD

WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities ("CCU") has plenary authority over financial, contractual and policy matters relative to the Guam Waterworks Authority ("GWA"); and

WHEREAS, the Guam Waterworks Authority ("GWA") is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, the GWA General Manager requests the CCU to approve the amendment of the Assistant General Manager – Operations (AGMO) (Exhibit A); and

WHEREAS, the GWA General Manager requests the CCU to approve the job classification standards of the Assistant General Manager – Operations (AGMO) position in the unclassified status; and

WHEREAS, Public Law 34-131, §(e) as added and 4 GCA §6303 (d) & (2C) authorizes the creation of positions in Autonomous Agencies and Public Corporations; and

WHEREAS, GWA Personnel Rules and Regulations as amended by Public Law 28-159 Section 3 (C) authorizes the CCU to amend, modify or add a position to the list of certified, technical and professional positions;

NOW BE IT THEREFORE RESOLVED, the Consolidated Commission on Utilities, as the Governing Body of the Guam Waterworks Authority, does hereby approve and authorize the following:

1. The recitals set forth above hereby constitute the findings of the CCU.
2. The amendment of the job classification standard for the Assistant General Manager – Operations (AGMO) position in the unclassified status is hereby approved and attached herein as Exhibit A.
3. The Assistant General Manager – Operations (AGMO) is hereby added to the certified, technical and professional list of positions at GWA.

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

DULY AND REGULARLY ADOPTED, this 26th day of February 2019.

Certified by:

JOSEPH T. DUENAS
Chairperson

Attested by:

MICHAEL T. LIMTIACO
Secretary

SECRETARY'S CERTIFICATE

I, Michael T. Limtiaco, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:

The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular meeting by the members of the 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: 4

NAYS: 0

ABSTENTIONS: 0

ABSENT: 1

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ASSISTANT GENERAL MANAGER OF OPERATIONS (AGMO)
(Unclassified)

MINIMUM EXPERIENCE AND TRAINING:

A) Master's Degree in Engineering, Business, Public Administration or other related field; with major course of work in utility infrastructure and operations, organization, analysis and evaluation, and financial management plus 6 years of demonstrated experience and progressive responsibility in the management of operations in utilities, construction or technically related field; or

B) Bachelor's Degree in Engineering, Business, Public Administration or other related field; with major course of work in utility infrastructure and operations, organization, analysis and evaluation, and financial management plus 7 years of demonstrated experience and progressive responsibility in the management of operations in utilities, construction or technically related field.

PREFERRED SPECIAL QUALIFICATION:

- Professional Engineer (PE) License; or
- Possession of a valid Guam Environmental Protection Agency Operator Certification Level IV in Water Treatment, Water Distribution, Wastewater Collection, and Wastewater Treatment.

NECESSARY SPECIAL QUALIFICATIONS:

Experience in and knowledgeable of the water production, treatment and distribution facilities life cycles or wastewater collection and treatment facilities life cycles; cost analysis; asset management; regulatory compliance and permitting processes and experience in the system control and data acquisition (SCADA) systems and hydraulic modeling.

NATURE OF WORK IN THIS CLASS:

This is a complex work involving the planning, organizing and coordinating of all the Authority's production, distribution, collection, treatment, and operational control activities for the water and wastewater systems, including the preventive and corrective maintenance and repair of facilities to ensure systems meet high level compliance with water and wastewater standards.

The Assistant General Manager of Operations (AGMO) is responsible and accountable to the Guam Waterworks Authority's General Manager for the effective conduct of its operations to meet the established levels of service for all customers, in accordance with the Guam Safe Drinking Water Act and the Clean Water Act, associated regulations, and applicable permit requirements. The AGMO is also responsible and accountable for the managing and organizing efficient business operations in the divisions assigned. The AGMO shall also be responsible for assisting with the formulation of recommendations on policies, goals and objectives to, and implementation of plans, policies and procedures adopted by the CCU.

EXHIBIT A

The AGMO serves under the direction of the General Manager. AGMO directs and manages the development of short-term and long-term goals and objectives of GWA and ensures their effective execution; makes sure all assigned operations and functions are sustainable and effectively serve the needs of GWA's ratepayers, while complying with applicable laws and regulations; and performs related duties as assigned.

ILLUSTRATIVE EXAMPLES OF WORK: (These examples do not list all the duties which may be assigned; any one position may not include all the duties listed)

- The AGMO's primary responsibilities will be to manage, coordinate, and report on the six (6) operational divisions/functions of the water and wastewater systems: Water Production and Treatment; Water Distribution; Wastewater Collection; and Wastewater Treatment; Construction & Maintenance; and the W/WW System Control Center/Asset Management.

- The AGMO shall be responsible for the proper operation of the W/WW Systems Control Center (WSCC), using the appropriate staff of certified operators, technicians, trades professionals, along with hydraulic modelling and analytical tools, to effectively manage an integrate W/WW systems.

- The AGMO shall plan, organize, staff, and direct the operation of the Authority's water/wastewater systems, including the setting of operation objectives, standards, training of employees and evaluation of system operational performance.

- The AGMO shall assure compliance with the minimum Levels of Service (LOS) established by the Authority in the operation of the water and wastewater systems, and shall work with other Assistant General Managers, The Chief Financial Officer, Legal Counsel and under the direction of the General Manager, to achieve the utility wide LOS compliance at the lowest possible cost.

- The AGMO shall analyze systems operations and control performance, costs and effectiveness, and develops strategies and recommendations to increase efficiency, reliability, sustainability, compliance and security of water and wastewater services, while maintaining the lowest cost possible.

- The AGMO shall work with the General Manager in continuing, and advancing where feasible and desirable, the interoperation of and integration with military water and wastewater utility systems, in accordance with policy guidelines established by the CCU.

- The AGMO shall be responsible for the preparation of annual budget estimates for the operations divisions under his supervision.

EXHIBIT A

- The AGMO shall be responsible for the preparation of capital improvement project recommendations for each operational division under his authority; and shall, work with other Assistant General Managers, the Chief Financial Officer, Legal Counsel and under the direction of the General Manager, implement approved CIP's in accordance with Authority's approved Capital Improvements Program.

- The AGMO shall be responsible for the development and implementation of the Authority's Asset Management Program, and shall insure that all water and wastewater system assets are properly documented, maintained, repaired and otherwise managed, and that all cost elements are properly captured to provide meaningful cost reporting to support budgets, rate cases and financial decision-making for system operation and maintenance.

- The AGMO shall provide complete and timely reports on the operations of the water and wastewater systems to the General Manager and the CCU.

- The AGMO may be appointed to serve as Acting General Manager for the Authority from time to time.

- The AGMO shall perform such other duties assigned by the General Manager.

MINIMUM KNOWLEDGE, SKILLS AND ABILITIES:

- Knowledge of the principles and practices of water treatment and production, and wastewater treatment, as well as the regulations which govern them.

- Knowledge of the designs and operating characteristics of all facilities and equipment used for the processing and distribution of water, and the collection, treatment and disposal of wastewater.

- Knowledge of the computer-based hydraulic modelling for water/wastewater systems, as well as principles, practices and procedures for the supervisory control and data acquisition in the monitoring and operation of those systems.

- Knowledge of the principles and practices of asset management, including the use of computerized maintenance management systems.

- Knowledge of the standard methods, materials, practices and equipment used in the construction, operations, repair and maintenance of potable water and wastewater systems, including ancillary infrastructure, such as roadways, drainage and other improvements.

EXHIBIT A

- Knowledge of management techniques, principles and procedures to assign work, schedule, supervise, train, and evaluate the work of assigned staff.
- Ability to analyze and evaluate engineering, statistical and financial data, conduct and direct research and develop alternatives and recommendations.
- Ability to effectively communicate with management and subordinates to convey logic and rationale, ideas, objectives and consequences.
- Ability to establish and implement effective operational programs and procedures. Established priorities for the completion of work in accordance with sound time-management methodology.
- Ability to perform a broad range of managerial responsibilities over others.
- Ability to handle a variety of issues with tact and diplomacy and in a confidential manner.
- Ability to induce effective employee performance to maintain high level performance, training and safety.
- Ability to manage the water and wastewater systems repair and maintenance programs.
- Ability to understand, interpret and work from engineering drawings and technical specifications.
- Ability to recommend and implement changes in policies, procedures, materials and equipment to enhance program effectiveness.

ESTABLISHED:	February 1997		
AMENDED:	January 2017		
AMENDED:	February 2019		
JOB EVALUATION POINTS:	1514		
PAYGRADE:	MINIMUM:	R3-D	$137,745.00 PER ANNUM
	MAXIMUM:	R4-D	$143,339.00 PER ANNUM

JOSEPH T. DUENAS, CHAIRMAN
CONSOLIDATED COMMISSION ON UTILITIES

EXHIBIT A

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

GWA RESOLUTION NO. 18-FY2019

RELATIVE TO ESTABLISHING A POLICY ON TIME STANDARDS FOR ISSUING BACK BILLS FOR FAULTY WATER METERS

WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities ("CCU") has plenary authority over financial, contractual, and policy matters relative to the Guam Waterworks Authority ("GWA"); and

WHEREAS, the Guam Waterworks Authority ("GWA") is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, 12 GCA § 12128 allows for back billing of additional consumption due to faulty water meters or previous billing errors; and

WHEREAS, back bills are limited to four months, or four 30-day billing cycles immediately preceding confirmation of the faulty meter and charges are determined by using actual average daily consumption from the two month or 60-day period following the installation of properly functioning meter; and

WHEREAS, delayed back bill notifications lacking clear explanations and supporting calculations are creating confusion and dissatisfaction for Customers; and

WHEREAS, GWA is required to provide clear and convincing evidence to support back billing customers for consumption due to faulty meters; and

WHEREAS, good business practice requires timely issuance of clear and easy to understand back bills; and

WHEREAS, management of GWA request the Consolidated Commission on Utilities to adopt the proposed POLICY ON TIME STANDARDS FOR BACK BILLING FAULTY WATER METERS, including the Time Standard included as Attachment A.

NOW BE IT THEREFORE RESOLVED, the Consolidated Commission on Utilities does hereby approve the following:

1. GWA shall send customer a letter indicating water meter has been replaced within two weeks of meter exchange date.
2. For failed water meters, GWA shall send customer a letter indicating meter was tested and account is under review for potential back billing within two and one-half months of meter exchange date.
3. If a back bill is required, GWA shall issue the bill and send customer a letter with easily understandable calculations explaining charges for prior period water consumption within four months of the meter exchange date.

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

DULY AND REGULARLY ADOPTED, this 26th day of February, 2019.

Certified by:

JOSEPH T. DUENAS
Chairperson
Consolidated Commission on Utilities

Attested by:

MICHAEL T. LIMTIACO
Secretary
Consolidated Commission on Utilities

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SECRETARY'S CERTIFICATE

I, **Michael T. Limtiaco**, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:

The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular meeting by the members of the 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: 4

NAYS: 0

ABSTENTIONS: 0

ABSENT: 1

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

GWA RESOLUTION NO. 19-FY2019

RELATIVE TO APPROVAL OF FUNDING INCREASE TO THE BAZA GARDENS WASTEWATER CROSS-ISLAND PUMPING AND CONVEYANCE SYSTEM DESIGN CONTRACT

WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities ("CCU") has plenary authority over financial, contractual, and policy matters relative to the Guam Waterworks Authority ("GWA"); and

WHEREAS, the Guam Waterworks Authority ("GWA") is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, GWA currently has a number of critical Court Order ("CO") projects including a complete evaluation of the Baza Gardens WWTP to determine what improvements are necessary at the plant to achieve compliance with the WWTP's NDPES permit, as stated in Paragraph 13 of the 2011 Court Order; and

WHEREAS, GWA advertised for design services via RFP-13-ENG-2015 for an engineering firm to design the Baza Gardens Wastewater Cross-Island Pumping and Conveyance System; and

WHEREAS, the CCU approved via resolution 06-FY2016 that GWA enter into a contract with the most qualified design firm for an amount not to exceed Three Million Dollars ($3,000,000); and

WHEREAS, GWA subsequently executed a contract on February 5, 2016, for design services with the most qualified firm, Duenas Camacho and Associates (DCA), in the amount of Two Million Nine Hundred Ninety-Seven Thousand Eight Hundred Seventy-Five Dollars and Five Cents ($2,997,875.05); and

WHEREAS, the CCU approved additional design services for a waterline, communications conduits, and private property acquisitions via Resolution 45-FY2016 in the amount of One Hundred Forty-Nine Thousand Eight Hundred Ninety-Three Dollars and Seventy-Five Cents ($149,893.75), to bring the total funding to Three Million Two Hundred Fifty-Eight Thousand Nine Hundred Fourteen Dollars and Eighty Cents ($3,258,914.80); and

WHEREAS, during the course of the currently on-going Baza Gardens Wastewater Cross-Island Pumping and Conveyance System construction project, for which the construction completion period has been extended, the need for additional design services during construction have arisen, specifically for responses to RFI's, as-built survey work of completed structures, archeological monitoring of excavations near Agat, and the re-design of the final surface grading at the Baza Gardens treatment plant site; and

WHEREAS, the additional work noted above has been a discussion point between GWA and DCA through the course of the construction period when the issue arose, however GWA only recently negotiated with DCA a fee proposal (Exhibit A) to perform these additional services in the amount of Sixty-Eight Thousand Fourteen Dollars and Sixty-Eight Cents ($68,014.68), which GWA considers reasonable; and

WHEREAS, GWA seeks CCU approval of a funding increase authorization in the amount not to exceed One Hundred Thousand Dollars ($100,000.00) to fund the work noted above as well as any unforeseen design requirements GWA Management may deem necessary; and

WHEREAS, the approval of the funding increase will bring the total authorized funding for the design services to be a maximum of Three Million Three Hundred Fifty-Eight Thousand Nine Hundred Fourteen Dollars and Eighty Cents ($3,358,914.80); and

WHEREAS, funding for these additional services will be from Bond Funds under the line items CIP WW 09-08 and WW 11-03, Internally Funded CIP fund or SDC, as applicable; and

NOW BE IT THEREFORE RESOLVED, the Consolidated Commission on Utilities does hereby approve the following:

1. The recitals set forth above hereby constitute the findings of the CCU.
2. The CCU finds that the terms of the conditions set by GWA relative to commencement of work activities are fair and reasonable and serve as a measure of Quality Assurance/Quality Control (QA/QC).
3. The CCU hereby authorizes GWA to execute a Change Order with DCA in the amount of Sixty-Eight Thousand Three Hundred Ninety Dollars ($68,390.00, Exhibit A).
4. The CCU hereby further authorizes the total funding amount for this project to a maximum of Three Million Three Hundred Fifty-Eight Thousand Nine Hundred Fourteen Dollars and Eighty Cents ($3,358,914.80), which is the sum of the authorization amount not to exceed One Hundred Thousand Dollars ($100,000.00) and prior authorization (Res. 45-FY2016) of Three Million Two Hundred Fifty-Eight Thousand Nine Hundred Fourteen Dollars and Eighty Cents ($3,258,914.80);
5. The CCU hereby further authorizes the funding to be from Bond Funds under the line items CIP WW 09-08 and WW 11-03, Internally Funded CIP fund or SDC, as applicable.

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

DULY AND REGULARLY ADOPTED, this 26th day of February, 2019.

Certified by:

JOSEPH T. DUENAS
Chairperson

Attested by:

MICHAEL T. LIMTIACO
Secretary

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SECRETARY'S CERTIFICATE

I, Michael T. Limtiaco, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:

The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular meeting by the members of the 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: 4

NAYS: 0

ABSTENTIONS: 0

ABSENT: 1

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DUEÑAS · CAMACHO & ASSOCIATES, INC.

Website: www.dcaguam.com
Email: dca@dcaguam.com

EXHIBIT "A"

February 15, 2019

Attn: John Davis, PE

Ref: **Baza Gardens Wastewater Cross-Island Pumping and Conveyance System. GWA project number: S05-008-BND**

Subject: **Design Change Order 4. As-built survey, Archeological Monitoring and Baza Gardens Grading Revision**

Hafa Adai,

The following letter provides the fee the services as outlined below.

As-built Survey

At GWA's request, the DCA survey crew has performed an as-built survey of the newly installed gravity sewer-lines along the entire project length. A break down of this survey effort is provide in the attached fee breakdown.

Archeological Survey Services.

Archeological monitoring is required as part of the project construction permit. DCA has provided this monitoring through our sub-contractor SEARCH. Extended monitoring was required along the Route 2A portion of the project site. A copy of SEARCH's invoice and hourly breakdown is attached to this request. A copy of correspondence from SEACH indicating this this is the final request needed to close out the required archeological monitoring services is also attached to this request.

Baza Gardens Revised Grading Plan

The second EQ tank at the Baza Gardens Site has been removed from the project. A revision to the final grade is needed to accommodate this revision. A breakdown of DCA's effort to provide a revised final grading plan is attached to this request.

February 15, 2019

The following is our proposed revised fee for the services listed above:

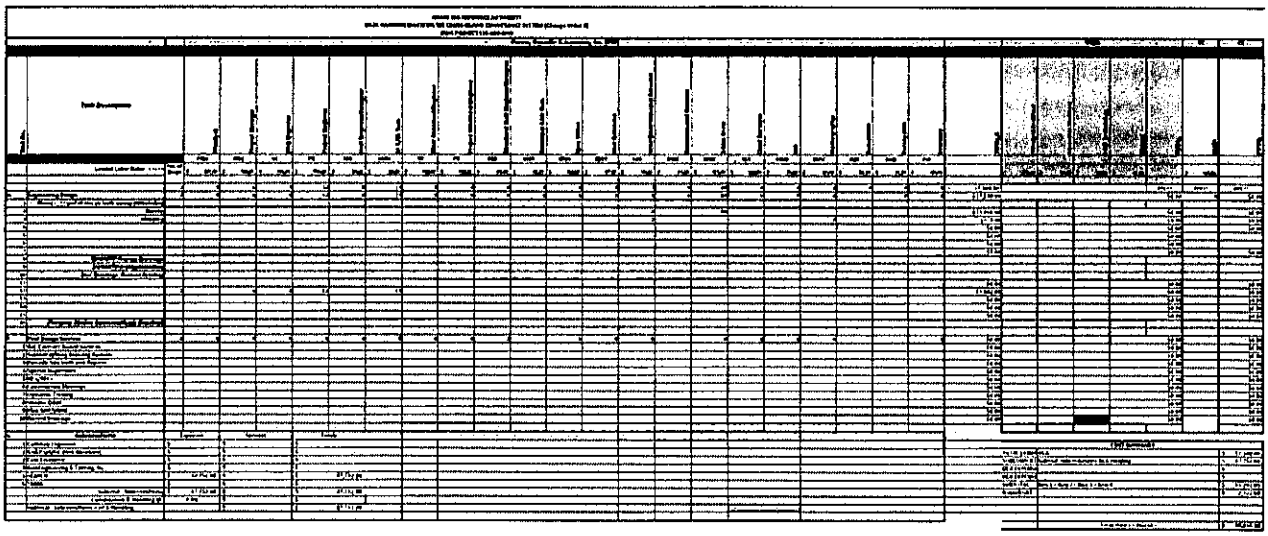
CO #4	
SEARCH Monitoring and Post monitoring Plan	$47,752.00
DCA asbuilt Survey	$13,638.00
Revised Baza Phase III Grading Plan	$3,902.00
GRT	$2,722.68
Total	**$68,014.68**

Thank you,

Kenneth M. Rekdahl, PE
Vice- President and Project Manager
Duenas, Camacho & Associates
671-477-7991

Att
DCA spreadsheet /SEARCH Invoice

ENGINEERING * PLANNING * SURVEYING * ENVIRONMENTAL SERVICES * GEOGRAPHIC INFORMATION SYSTEM * CONSTRUCTION MANAGEMENT
GUAM P.O. Box 8900, Tamuning, Guam 96931 / 238 E. Marine Corps Drive, Suite 201 Diamond Plaza, Hagatña, GU 96910 / Tel: (671) 477-7991 / Fax: (671) 479-6315
SAIPAN Caller Box PPP, Suite 164, Saipan, MP 96950 / Chalan Pale Arnold, Ada's Building South Garapan, Saipan 96950 / Tel: (670) 234-9017 / Fax: (670) 234-3842



SEARCH

BILL TO:
Duenas, Camacho & Associates, Inc.
238 E. Marine Corps Drive
Suite 201 Diamond Plaza
Hagatna, Guam 96910

via email: kmrekdahl@dcaguam.com

REMIT TO:
Southeastern Archaeological Research, Inc.
315 NW 138th Terrace
Newberry, FL 32669
(352) 333-0049
TIN 59-3215370

Invoice Date: 11/19/18
Invoice Number: 3865-05

SEARCH Project No.: 3865-17009P
Terms: Net 14 Days

Period of Performance: 11/25/17 - 11/6/2018

Providing Professional Archaeological Monitoring Services in Conjunction with GWA Basa Gardens Wastewater Cross-Island Conveyance System Guam

Contract Base Fee	Contract Value	Percent Complete	Fee Earned	Prior Billing	Current Fee
Project Award	$5,977.50	100%	$5,977.50	$5,977.50	$0.00
Draft Final Report Submittal	$5,977.50	0%	$0.00	$0.00	$0.00
	$11,955.00		$5,977.50	$5,977.50	
Total Base Fee:					**$0.00**

Archaeological Monitoring	Hours	Rate	Amount
Archaeological Monitoring	334.2	$125.00	$41,775.00
Total Archaeological Monitoring:			**$41,775.00**

TOTAL AMOUNT BILLED THIS INVOICE: $41,775.00

TOTAL AMOUNT DUE: $41,775.00

Thank you. We appreciate your business.

SEARCH

BILL TO:
Duenas, Camacho & Associates, Inc.
238 E. Marine Corps Drive
Suite 201 Diamond Plaza
Hagatna, Guam 96910

via email: kmrekdahl@dcaguam.com

REMIT TO:
Southeastern Archaeological Research, Inc.
3117 Edgewater Drive
Orlando, FL 32804
(407) 236-7711
TIN 59-3215370

Invoice Date: 02/13/19
Invoice Number: 3865-06

SEARCH Project No.: 3865-17009P
Terms: Net 14 Days

Period of Performance: 11/7/18-02/12/19

Providing Professional Archaeological Monitoring Services in Conjunction with
GWA Basa Gardens Wastewater Cross-Island Conveyance System
Guam

Contract Base Fee	Contract Value	Percent Complete	Fee Earned	Prior Billing	Current Fee
Project Award	$5,977.50	100%	$5,977.50	$5,977.50	$0.00
Draft Final Report Submittal	$5,977.50	100%	$5,977.50	$0.00	$5,977.50
	$11,955.00		$11,955.00	$5,977.50	
Total Base Fee:					**$5,977.50**

Archaeological Monitoring	Hours	Rate	Cumulative
Archaeological Monitoring	334.2	$125.00	$41,775.00
Total Archaeological Monitoring:			**$0.00**

TOTAL AMOUNT BILLED THIS INVOICE: $5,977.50

TOTAL AMOUNT DUE: $5,977.50

Thank you. We appreciate your business.