Gmail by Google

BENJAMIN CRUZ <speaker@senatorbjcruz.com>

l.sablan@gpagwa.com sent you files via WeTransfer

BENJAMIN CRUZ <speaker@senatorbjcruz.com> Wed, Aug 2, 2017 at 12:17 PM
To: 34th Guam Legislature Clerks <clerks@guamlegislature.org>
Cc: Rennae Meno <rennae@guamlegislature.org>

Hafa adai Clerks: Attachments of meetings for the Consolidated Utilities Commission will be provided on flash drive for M&C GL34-17-806 to GL34-17-816

8/2/2017	8/2/2017	Consolidated Commission on Uitlities	CCU Meeting 7/16/17*	34-17-806
8/2/2017	8/2/2017	Consolidated Commission on Uitlities	CCU Meeting 5/23/17*	34-17-807
8/2/2017	8/2/2017	Consolidated Commission on Uitlities	CCU Meeting 4/18/17*	34-17-808
8/2/2017	8/2/2017	Consolidated Commission on Uitlities	CCU Meeting 6/6/17*	34-17-809
8/2/2017	8/2/2017	Consolidated Commission on Uitlities	CCU Meeting 3/21/17*	34-17-810
8/2/2017	8/2/2017	Consolidated Commission on Uitlities	CCU Meeting 2/21/17*	34-17-811
8/2/2017	8/2/2017	Consolidated Commission on Uitlities	CCU Meeting 1/24/17*	34-17-812
8/2/2017	8/2/2017	Consolidated Commission on Uitlities	CCU Meeting 1/12/17*	34-17-813
8/2/2017	8/2/2017	Consolidated Commission on Uitlities	CCU Meeting 12/6/16*	34-17-814
8/2/2017	8/2/2017	Consolidated Commission on Uitlities	CCU Meeitng11/22/16*	34-17-815
8/2/2017	8/2/2017	Consolidated Commission on Uitlities	CCU Meeting 10/25/16*	34-17-816

2017 AUG -2 PM 12:48 filed

[Quoted text hidden]

--

OFFICE OF SPEAKER BENJAMIN J.F. CRUZ

Committee on Appropriations and Adjudication

I Mina'trentai Kuattro na Liheslaturan Guåhan

Guam Congress Building | 163 Chalan Santo Papa | Hagatna, GU 96910

T: (671) 477-2520/1 | F: (671) 477-2522 | www.senatorbjcruz.com

Speaker Benjamin J.F. Cruz

AUG 0 2 2017
Time: 1217 [ ] AM [ ] PM File No. _____
Received By:

0809

Gmail by Google

BENJAMIN CRUZ <speaker@senatorbjcruz.com>

l.sablan@gpagwa.com sent you files via WeTransfer

WeTransfer <noreply@wetransfer.com>
Reply-To: l.sablan@gpagwa.com
To: speaker@senatorbjcruz.com

Tue, Aug 1, 2017 at 4:26 PM



l.sablan@gpagwa.com
sent you some files

9 files, 22.5 MB in total • Will be deleted on 8 August, 2017

Get your files

To: GovOffice & Speaker's Office
Subject: CCU June 6, 2017 Meeting Docs.
Best,
B. Lou Sablan

2017 AUG -2 PM 12:48 C.C.

Download link

https://wetransfer.com/downloads/ef9bb8ab5fe3118ca67c56ed1eaae4b220170801062554/97b7238f36ec00733844c4e57c27b57a20170801062554/c62b44

9 files

Resolution 35-FY2017 Relative to Creation of Utility Compliance Inspector Ser...

Minutes May 23, 2017.pdf

Resolution 37-FY2017 Relative to Umatac-Merizo WWTP Upgrade Project.pdf

Resolution 36-FY2016 Revision of Membership CCU Audit Committee.pdf

Resolution 38-FY2017 Relative to Land Survey Phase II Contract Duenas&Camacho...

+ 4 more

To make sure our emails arrive, please add noreply@wetransfer.com to your contacts.

Get more out of WeTransfer, get Plus

About WeTransfer · Help · Legal

Gmail by Google

BENJAMIN CRUZ <speaker@senatorbjcruz.com>

l.sablan@gpagwa.com sent you files via WeTransfer

WeTransfer <noreply@wetransfer.com>
Reply-To: l.sablan@gpagwa.com
To: speaker@senatorbjcruz.com

Tue, Aug 1, 2017 at 4:26 PM



l.sablan@gpagwa.com
sent you some files

9 files, 22.5 MB in total • Will be deleted on 8 August, 2017

Get your files

To: GovOffice & Speaker's Office
Subject: CCU June 6, 2017 Meeting Docs.
Best,
B. Lou Sablan

Doc. No. 34GL-17-0809.*

Download link

https://wetransfer.com/downloads/ef9bb8ab5fe3118ca67c56ed1eaae4b220170801062554/97b7238f36ec00733844c4e57c27b57a20170801062554/c62b44

9 files

Resolution 35-FY2017 Relative to Creation of Utility Compliance Inspector Ser...
Minutes May 23, 2017.pdf
Resolution 37-FY2017 Relative to Umatac-Merizo WWTP Upgrade Project.pdf
Resolution 36-FY2016 Revision of Membership CCU Audit Committee.pdf
Resolution 38-FY2017 Relative to Land Survey Phase II Contract Duenas&Camacho...
+ 4 more

To make sure our emails arrive, please add noreply@wetransfer.com to your contacts.

Get more out of WeTransfer, get Plus

About WeTransfer · Help · Legal

Doc. No. 34GL-17-0809.*

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., June 6, 2017

AGENDA

1. CALL TO ORDER

2. APPROVAL OF MINUTES

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

4. NEW BUSINESS
   - 4.1 GWA
   - 4.1.1 GM Report Update
   - 4.1.2 Financials
   - 4.1.3 Resolution No. 35-FY2017 Relative to the Creation of the Utility Compliance Inspector Series of Positions
   - 4.1.4 Resolution No. 36-FY2017 Relative to the Revision of Membership of the Consolidated Commission on Utilities Audit Committee (GPA Resolution No. 2017-26)
   - 4.1.5 Resolution No. 37-FY2017 Relative to Approval of the Umatac-Merizo Wastewater Treatment Plant Upgrade Design and Construction Contract with Core-Tech – Hawaiian Dredging, LLC.
   - 4.1.6 Resolution No. 38-FY2017 Relative to Approval of the Land Survey Phase II Contract with Duenas Camacho and Associates

   - 4.2 GPA
   - 4.2.1 GM Report Update
   - 4.2.2 Financials
   - 4.2.3 Resolution No. 2017-24 Requests for Approval of Demand Side Management (DSM) Expanded Initiatives
   - 4.2.4 Resolution No. 2017-25 Requests Approval of Phase II Renewables
   - 4.2.5 Resolution No. 2017-26 Relative to the Revision of Membership of the Consolidated Commission on Utilities Audit Committee (GWA Resolution No. 36-FY2017)

5. OLD BUSINESS

6. ANNOUNCEMENTS
   - 6.1 Next CCU Meetings: GWA Work Session: July 19; GPA Work Session: July 20; CCU Meeting: July 25

7. EXECUTIVE SESSION
   - 7.1 Litigation Matter

8. ADJOURNMENT

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

Regular Board Meeting
CCU Conference Room, Gloria B. Nelson Public Service Building
5:30 p.m., May 23, 2017

MINUTES

1. CALL TO ORDER

The Chairman called the regular monthly meeting of May 23, 2017 to order at 5:35 p.m. He announced that four (4) Commissioners were present and there was a quorum.

Others present include:

Commissioners:

Joseph T. Duenas	CCU Chairman
Francis Santos	CCU Vice Chairman
George Bamba	CCU Secretary
Judi Guthertz	CCU Treasurer

Executive Mgmt.:

John Benavente	GM / GPA
Miguel Bordallo	GM / GWA
Melinda Camacho	AGMO / GPA
Tricee Perez	AGMA / GPA
John Cruz	AGMET / GPA
Greg Cruz	CFO / GWA
Kelly Clark	Staff Attorney / GWA

Management & Staff:

Paul Kemp	AGM Compliance & Safety / GWA
Dave Fletcher	GWA
Vincent Pangelinan	GWA Procurement
Heidi Ballendorf	PIO / GWA
Karen Grape	GWA
Ron Topasna	GWA
Vangie Lujan	GWA
Tom Cruz	Chief Engineer / GWA
Joy Pascua	GWA Accounting
Sandra Santos	GWA Accounting
Joyce Sayama	Mgmt. Analyst / GPA Ex. Office
Kathy Beleno	Mgmt. Analyst / GWA Ex. Office
Lou Sablan	Board Secretary / CCU

Guest:

Charlene Calvo	IP&E

Angelica Perez	AM Insurance
Bill Chang	Brown&Caldwell
George Watson	Brown&Caldwell
Kurt Bilz	Brown&Caldwell
Bill Gilman	Brown&Caldwell
Nestor Locanto	KUAM
Jeff Johnson	PUC
Fred Horecky	PUC
David Martin	AM Insurance
Juan Muna	AM Insurance
Angie Perez	AM Insurance

2. APPROVAL OF MINUTES

The Minutes of April 18, 2017 was presented for approval.

Comm. Guthertz motioned to approve the Minutes subject to verification and written correction. Comm. Bamba seconded. There was no further discussion or objection and the motion passed.

3. COMMUNICATIONS

3.1 Public Comments - None

4. NEW BUSINESS

4.1 GPA

4.1.1 GM Report Update

GM Benavente gave his usual GM Update.

1. System Capacity Recovery Plan:

- The Dededo Combustion Turbine Plant units #1 & #2 each has been cleared for emergency operations at 20MW each. The plant was used recently to support the maintenance of two baseloads. Guam Environmental Protection Agency (GEPA) has issued approval to operate the plant. I have moved commissioning to sometime in June/July timeframe in order to complete certain work on plant auxiliaries and fire protection.
- The following summarizes our current reserve capacity for May. The highest peak demand so far this month was 256MW compared to the May 2016 peak demand of 254MW.
- Cabras #1 is scheduled for a 60 day overhaul from July 15 thru Sept 15, 2017. This would be our most vunerable period of CY 2017 because peak demand would be at its highest. We will be asking NavFac to support us during this period with the Orote units under extreme emergency.

Generating Capacity Summary :

18-May-17		**Cabras 1 Overhaul**
Generating Units	**May-17**	**July 15 thru Sept 15, 2017**
CABRAS 1	40	**0 (a)**
CABRAS 2	63	63
MEC8	44	44
MEC9	44	44
AGGREKO	40	40
MEDIUM SPEED DIESELS (10 Units)	28	36
YIGO CT	15	20
MACHECHE CT	20	20
TEMES CT	39	39

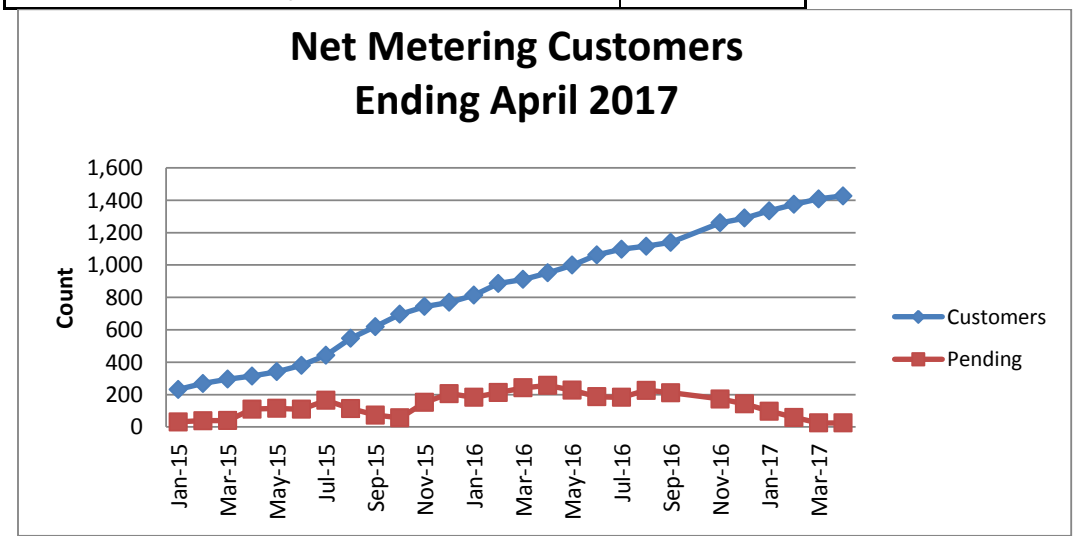
DEDEDO CT1	20	20
DEDEDO CT2	20	20
AVAILABLE CAPACITY	**373**	**346**
EXPECTED PEAK DEMAND (b)	**256**	**265**
RESERVE	**117**	**81**
Orote Plant (subject to NavFac approval)		**18**
GPA Standby Generators		**10**
Total Reserve/Emergency Capacity		**109**
Less 2nd Largest Unit		**63**
Less 3rd Largest Unit		**44**
Capacity Balance		**2**

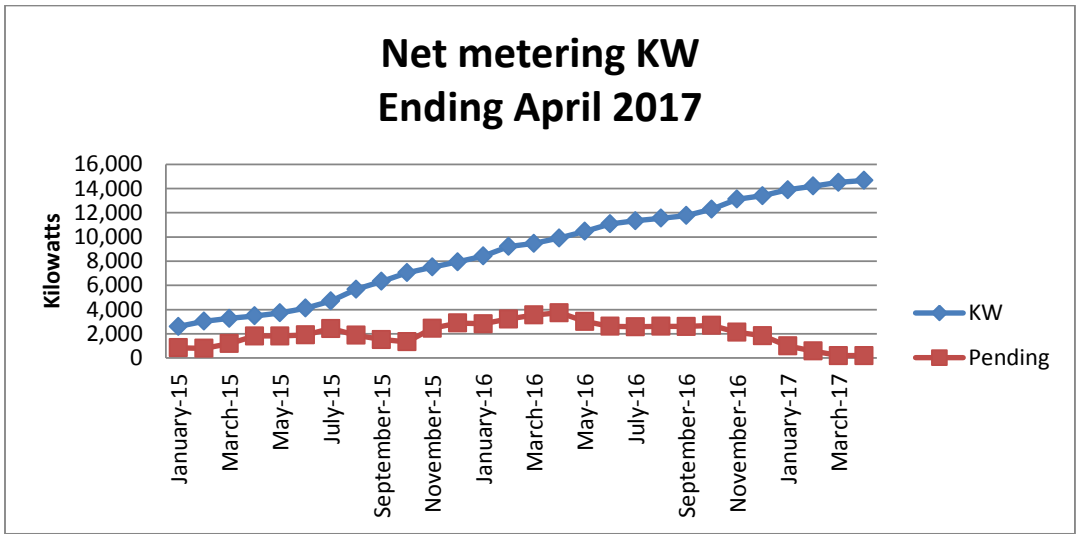
(a) Cabras 1 on Scheduled 60 days Boiler/Turbine Overhaul

(b) Highest exposure is peak demand period between 6pm to 10pm

- **Net Metering: Net Metering Summary Ending April 2017:**

Description:	**Count**	**Kw**	
Active	**1,427**	**14,675**	
Pending	25	195	
Totals:	1,452	14,870	
Service:	**Count**	**KW**	**Kw/Customer**
Residential	1,352	12,137	9.0
Others	100	2,733	27.3
Total:	1,452	14,870	10.2
% Residential	**93.1%**	**81.6%**	
Estimated 12 Months Revenue Impact:	**$2,726,954**		
Cumulative Revenue Impact FY2009 to FY 2016	**$3,774,761**		

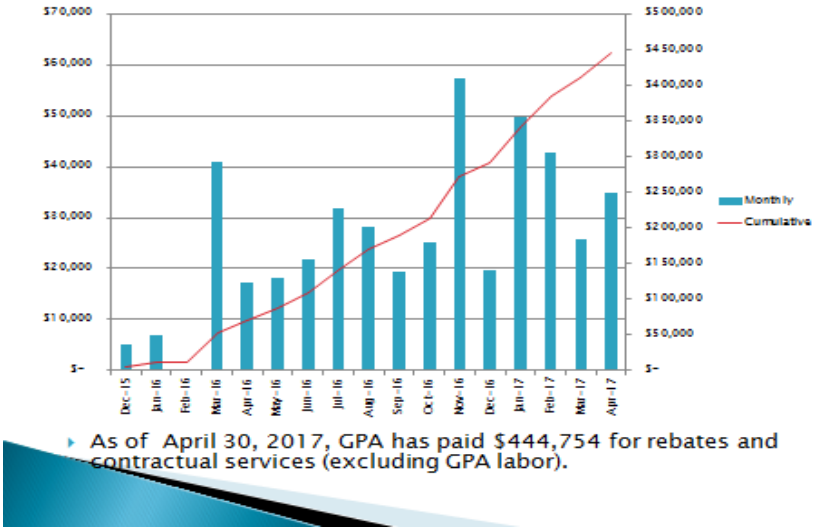




2. Renewable Energy Production Summary Thru April 2017:

Energy Production Source:	Kwh	Oil Barrels Avoided	Fuel Cost Avoided
NRG Total Production beginning Oct 2015	80,506,161	130,395	$7,171,751
Net Metering Estimated Production beginning Jan 2015	35,778,966	57,951	$3,187,307
Wind Power Production beginning Jan 2016	622,465	1,008	$55,451
Renewables Total:	**116,907,592**	**189,355**	**$10,414,508**
System Heat Rate Kwh/Gal	14.7		
System Fuel $/Bbl.	$55.00		

3. DSM Program: Rebates thru May 1st 2017



4. **Phase II Renewables Bid:**
   - The system impact study for the Phase II renewables continues and is near a point where GPA would have adequate information to make its recommendation. I am targeting the June 6th CCU meeting for a decision.

5. **Navy Land Lease for Phase III Renewables:** The lease signing ceremony was conducted on May 16, 2017 at 10am. GPA will now proceed on issuing Phase III renewables bid within the next three months. The lease is for 164 Acres which translate to about 40MW of renewables.

6. **Key Performance Indicators:** Graphs related to historical monthly peak demand, historical kWh sales, system gross heat rate, gross net generation kwh, fuel cargo and fuel consumption were included in the report but not included here. The full report is in Master File.

4.1.2 Financials

The CFO reported that April base revenues are within budget; revenue is positive by 2.6M; fuel revenue is lower than projections but better than prior year. Customer growth still slow and steady; operating expense low and better than budget 4.4M better than prior year. Debt service 2.1 better than target

4.1.3 Resolution 2017-12 Write-Off of GPAs Account Receivables

Although utilities make best efforts to minimize losses resulting from uncollectible accounts, the service nature of utility activities makes it impossible to prevent such losses once an account has become inactive (disconnected). GPA Customer Service division has made significant strides towards eliminated losses resulting from uncollectible accounts and has brought GPA to a bad debt loss level that is consistent with the best utilities in the country.

It is standard practice for utilities to review their accounts receivable records from time to time to remove accounts that have been determined by the utility to be uncollectible. GPA last wrote off Fiscal Year 2011 uncollectible accounts in March 2015.

GPA's Chief Financial Officer has reviewed outstanding accounts from October 1, 2010 to September 30, 2016 and has determined that the following amounts should be written off:

FY2012	$ 738,246.38
FY2013	$ 1,015,790.95
FY2011 and prior years not yet written-off	$ 1,249,780.74
Total Proposed Write-Off:	$ 3,003,818.07

Comm. Bamba motioned to approve Resolution 2017-12; Comm. Guthertz seconded.

In discussion it was mentioned that this write-off would have no impact on profit and loss and that it will reduce allowances. The CFO mentioned that this process happens 1x per year

There was no further discussion or objection and the motion passed.

4.1.4 Resolution 2017-13 GPA's Billing Statement Production Graphic Center

On April 6, 2016, the Guam Power Authority (GPA) entered into a contract with Graphic Center, Inc. to provide professional printing, mailing and processing services of approximately 50,000 electric power billings each month. The original contract became effective on April 18, 2016 for a one (1) year period from the date of award of the contract with the option to extend the contract for four (4) additional one-year periods. The cost of this contract is $0.396/single page invoice with an estimated annual total

of approximately $240,000.00 per year. The total cost of the first base year and the option to exercise the extension of four (4) additional one-year periods is estimated to be $1,200,000.00.

Comm. Santos motioned to approve Resolution 2017-13; Comm. Bamba seconded. There was no further discussion or objection and the motion passed.

4.1.5 Resolution 2017-14 Purchase of New Bucket Trucks

The objective of the purchase is to maintain efficiency by replacing aged bucket trucks and to provide reliable equipment to allow line crews to conduct repairs and maintenance on the transmission and distribution system in an efficient and cost effective manner. Unreliable equipment translates to extended outages and longer response times. Bucket trucks will service the transmission and distribution system island wide. There were (2) proponents and Morrico Equipment was determined the lowest and most responsive bidder. Delivery is set at 360 days after Notice to Proceed and the funding source is the FY17 General Plant Capital Improvement Project Budget as approved by the CCU and PUC.

Below is the repair assessment for existing bucket trucks and the estimated cost for the purchase of (3) new bucket trucks.

Official #	Description	Year	Repair Assessment
3637	Bucket Truck(IHC)	24 years (1993)	Lower boom overhaul and suspension repairs
4517	Bucket Truck(Freightliner)	10 years (2007)	Complete aerial overhaul
4661	Bucket Truck(IHC)	22 years (1995)	Engine replacement

Item	Vendor	Qty	Unit Cost	Extended Cost
55' Bucket Truck	Morrico Equipment	3	$220,855.00	$662,565.00

Comm. Guthertz motioned to approve Resolution 2017-14; Comm. Bamba seconded. There was no further discussion or objection and the motion passed.

4.1.6 Resolution 2017-15 Ratification of POLL VOTE on Additional Ultra Low Sulfur Diesel (ULSD) and Lease Additional Storage Tank

This matter was passed via POLL VOTE on May 18-19 with 4 yes and 1 abstention. It is presented here for official ratification.

The Guam Power Authority, through Resolution 2014-37 has awarded the supply of ULSD for Northern CT Plants, TEMES CT Plant, Cabras Plant, MDI Plant and Talofofo Plant to Mobil Oil Guam, Inc. The contracted quantities of about 3.3M gallons for FY-2017 have been exceeded. Mobil continue to supply ULSD to GPA, but with a limited allocation of about 42,000 bbl per month, or higher, if excess volume is available. GPA currently stores about 40,000 bbls of ULSD at the leased tank at the Tristar facility as contingency inventory in the event of sudden spikes in demand due to unforeseen forced outages. On a worse-case scenario, the estimated ULSD consumption can increase up to 4,700 barrels per day, and the current contingency inventory will only be good for about 8 days. During the month of April 2017, in addition to the scheduled overhaul of MEC Unit 8, forced outages to the Cabras 1&2 power plants for a combined outage of about 15 days increased the ULSD consumption to about 4,700 per day. Mobil

allocation of 42,000 barrels for the month of April 2017 to GPA have been consumed and does not have excess supply for GPA. GPA was forced to utilize the contingency inventory at the leased tank at Tristar facility, and the remaining contingency inventory in the leased storage at the Tristar Terminals will not be sufficient for the period from May up to the arrival of Mobil's ULSD shipment in June 08, 2017.

GPA intend to increase the contingency inventory to 15 days to ensure the reliability of ULSD supply to the power plants in the event of sudden spikes in demand due to unforeseen and prolonged forced outages. The 15-day contingency inventory will require about 80,000 to 90,000 bbls of additional ULSD product. GPA would need about 80,000 to 90,000 bbls of additional ULSD product to cover the contingency requirements for May 2017. The remaining inventory from Mobil will only supply GPA until May 19, 2017. About 45,000 bbls of additional ULSD product is readily available for immediate supply and delivery by IP&E Guam to other GPA sites in addition to the Tenjo Vista plant. However, it is anticipated that it will be consumed by May 29, 2017. IP&E have also agreed to supply an additional 60,000 bbls of ULSD to for shipment to GPA before May 29,2017 to cover the immediate need for additional ULSD supply for the period from May 29 thru June 8, 2017.
The total estimated cost for about 105,000 bbls of ULSD that will be supplied by IP&E is about $8,000,000. The service fee offer for the supply and delivery of the additional ULSD product from IP&E shall be $0.17 gallon.

In discussion it was decided to amend the resolution and to include the total dollar value in the resolved section of the resolution.

Comm. Guthertz motioned to approve the amendment; Comm. Santos seconded. The amendment to the resolution passed.

On the main motion, the vote passed as per poll vote of 4 yes and 1 abstention.

4.1.7 Resolution 2017-16 LEAC Adjustment

The Guam Public Utilities Commission (GPUC) has established a Tariff under which the Guam Power Authority (GPA) is allowed to recover its fuel costs and fuel related costs under a factor which is reset and trued up every (6) six months through the Levelized Energy Adjustment Clause (LEAC). In the past, GPA experienced the highest LEAC rate of $0.209271/kWh in February 2013 to the lowest rate of $0.086613/kWh from February 2016 to January 2017, which was a drop of 58%. The LEAC periods covered from February 1, 2016 through January 31, 2107, GPA maintained the secondary LEAC rate of $0.086613/kWh in anticipation of lower stabilized prices in the fuel market; during this period, however, GPA recognized a $6.5M under-recovery of fuel costs as market fuel prices rose instead.

For the LEAC periods covered from February 1, 2017 to July 31, 2017, GPA obtained the secondary LEAC rate of $0.105051/kWh which was 50% of full recovery of $0.123494/kWh to alleviate the impact on ratepayers. The market price of fuel in the initial filing for the current period was projected to be $54.59/bbl for the (6) six-month period ending July 31, 2017, the current projection for the same period is $55.38/bbl and the projected price of fuel for the period ending January 31, 2018 is $56.79/bbl. The recent news that OPEC members and Non-OPEC countries will be supporting the extension of production cuts until March 2018 resulted in fuel oil market price spikes to above $50/bbl and projected to continue to be between $50-$55/bbl range in the next several months.

GPA prefers to gradually true up fuel oil cost by phasing in increases over two (2) LEAC periods in order to again alleviate the impact on ratepayers, and therefore recommends the next LEAC rate to recover only half of the estimated total under recovery to lessen the impact to our ratepayers. For the current LEAC periods covered from August 1, 2017 to January 31, 2018, GPA requests the secondary LEAC rate of $0.117755/kWh which is again 50% of full recovery of $0.130450/kWh to alleviate the impact on ratepayers.

GPA has determined that in a phase in approach the Levelized Energy Adjustment Clause factor for secondary voltage service customers as well as alternative voltage customers will need to be increased from *$0.105051/kWh to $0.117755/kWh* for the period of August 1, 2017 to January 31, 2018.

In the phase in approach the effect of the change in the LEAC rate will result in an *increase in the total bill by 6.4% or about a $12.70 increase on a 1000 kWh power bill*, in order to recover 50% of the projected under-recovery. Based on the phase in approach, an under-recovery of about $7.8M is anticipated by the end of the LEAC period on January 31, 2018 which will not significantly impact working capital and other financial ratios.

Comm. Bamba asked what the increase meant in dollars and it was reiterated the increase would reflect #12,70 on 1000 kWh of power consumed. Comm. Guthertz stated that an increase is hard on people and GPA must embark on a strong publicity campaign to clearly explain to the public. The Chairman again stated for the record that the LEAC charge is a pass thru charge and that GPA does not make any money. GPA is only recoupling what was paid in advance to the fuel supplier on behalf of all ratepayers.

Comm. Bamba motioned to approve Resolution 2017-16; Comm. Santos seconded. There was no further discussion or objection and the motion carried.

4.1.8 Resolution 2017-17 Bond Issuance to Refinance 2010 Revenue Bonds

GPA has been pursuing strategies for reducing debt service payments. One strategy that has emerged as a result of historically low interest rates has been the concept of refunding portion of GPA's 2010 Series A revenue bonds for interest rate savings.

GPA expects that opportunities will arise from time to time to refund all or a portion of its other then outstanding revenue bonds for debt service savings, which is expected to result in potential savings to ratepayers. Low interest rate warrants action from the CCU.

After several months of reviewing this strategy with Barclays, GPA Bond Counsel, and GEDA, GPA believes this strategy provides significant benefit for GPA ratepayers. This transaction will need the approval of the Guam Legislature, GEDA, the PUC, and the Governor. The CCU desires to pursue this plan for refinancing of GPA's debt service costs in order to provide a net present value savings to ratepayers.

The present value of debt service on the refunding bonds will be at least two percent (2%) less than the present value of debt service on the prior bonds, using the yield on the refunding bonds as the discount rate.

The GM mentioned that this Legislation is similar to GWA's legislation;
Comm. Guthertz said she understands that approval of this measure will mean savings on the bond. She asked if these savings can be tapped by the legislature. The Chair responded no because there are bond covenants that GPA must adhere to. The goal is not to impact the ratepayer with a base rate increase

Comm. Santos motioned to pass the resolution; Comm. Guthertz seconded. There was no further discussion or objection and the motion passed.

4.1.9 Resolution 2017-18 Secured Web Gateway Application Software

The Consolidated Commission on Utilities strongly supports Cyber-Security initiatives to identify opportunities to ensure a safe and secured network infrastructure. The Consolidated Commission on Utilities strongly supports GPA to build a Secure and Reliable Network Infrastructure that is resilient to today's evolving cyber- threat landscape. GPA seeks to procure, install, configure, test and deploy the

Secure Web Gateway solution to protect GPA's Web accessing Servers, Client PCs and Devices. GPA's evaluation committee has selected Pacific Data Systems, who was the only responding bidder. GPA's evaluation committee recommended the award of the RFP GPA-036-17 to Pacific Data Systems.

Pacific Data Systems offers met the requirements of GPA's specifications and the amount offered of $317,110.63 has been determined to be fair and reasonable, and the cost for the application software with 1,000 users includes Active-Active state, which is defined as 2 applications running concurrently to ensure redundancy and resiliency. The funding source for this procurement is revenue funds.

Description	Amount
Secured Web Gate	$220,396.41
Reporting Solutions	$33,937.25
Installation, Configuration & Deployment	$40,473.01
Annual Support Services	$3,070.58
Training	$19,233.38
Total Cost	**$317,110.63**

In discussion Comm. Guthertz asked if this software will also benefit GWA and the response was yes. IT has been advised that all procurement must benefit both agencies even if one agency does not need it at this time.

Comm. Bamba motioned to approve Resolution 2017-18; Comm. Guthertz seconded. There was no further discussion and the motion carried.

4.1.10 Resolution 2017-19 Purchase of 45ft. Class B Concrete Power Poles

This procurement is to replenish GPA stock 45' concrete power poles. 45' concrete power poles are required to replace damaged power poles, replace existing wooden power poles, and for line extensions to service new customers. GPA's current balance of power poles is 266 ea. The minimum safety stock amount is 189. At the current rate of usage and the forecasted usage, GPA procurement anticipates the balance of 45' power poles to be below the minimum safety stock level of 189 in under 5 months. The anticipated purchase cost is $749,600 and will be funded with revenue funds. Delivery is about August 2017

America's Best Electricmart Inc. and Benson Guam Enterprises Inc. submitted bids for GPA's consideration. GPA's Evaluation Committee has determined *Benson Guam Enterprises Inc.* to be the lowest responsive bidder for the 45 foot Class B concrete power poles.

The Chairman said this resolution is a basic procurement for supplies and asked for a motion.

Comm. Santos moved to approve Resolution 2017-19; Comm. Bamba seconded. There was no further discussion or objection and the resolution passed.

4.1.11 Resolution 2017-20 Engineering / Technical Services to Support GPA Resource Plans

GPA was approved to solicit Engineering and Technical Services Supporting GPA's Resource Plan, specifically for the execution of the following tasks:

(1) Technical Assessment, Transition Support and planning for future operation and maintenance of GPA's Piti #7 (Combustion Turbine and Piti #8 and 9 (Slow Speed Diesel) units. These are currently owned by independent power producers, but ownership will transfer to GPA in December 2017 and January 2019 respectively.

(2) Technical Assessment, Engineering & Technical Support for Major Maintenance and Activities, and Transition Planning from RFO to ULSD, for GPA's Fuel Bulk Storage Facility. This also includes planning for future operation and maintenance of the facility.
(3) Other Services related to planning for and executing resource plans such as, but not limited to: Engineering Planning Support GPA's Integrated Resource Plan; a feasibility study on other types of power generating units such as waste-to-energy facilities.

GPA evaluated several proposals from proponents and found LEIDOS to be the most qualified proponent. It is necessary and urgent to award the contract to LEIDOS to complete work necessary to ensure proper transfer of ownership of the Piti #7 Plant and Piti #8 and 9 Plant to GPA, as well as to meet deadlines for the transition to ULSD. The selected firm is based in the US, but will travel to Guam for assessment of facilities as required.

The services to be provided are estimated to cost up to $1,000,000.00 for Calendar Years 2017 and 2018, depending on the workload assigned to the consultants and urgency of projects. The contract is planned for an initial period of five (5) years, with the option to extend for five (5) additional annual extensions. Most of the services will be funded through O&M, and some through CIP if it involves procurement of equipment, construction, modification and others. The RFP will commence after CCU and PUC approval.

In discussion Comm. Santos asked for clarification on line 22 asking if reference is for calendar year or fiscal year and the GM responded calendar year ending December 2018. The chairman said the GM needs to work on transition of bringing Cabras 7,8 and 9 over to GPA. RE TEMES 7 GM said that discussion of takeover is ongoing. Comm. Bamba asked if management heard from USEPA relative to this matter. Legal Counsel Botha responded that USEPA is still looking over the finances and to date USEPA inquiries have been related to fuel consumption and the like.

Comm. Santos motioned to approve the resolution as presented; Comm. Bamba seconded. There was no further discussion or objection and the motion passed.

4.1.12 Resolution 2017-21 Procurement of 34.5kV SF6 Breakers

This project upgrades the existing aging 34.5 kV power circuit breakers to SF_6 breakers to improve system reliability and personnel safety. The failure of antiquated oil circuit breakers poses a severe burn hazard as the insulating medium is expelled in the air during an explosion and is flammable at high temperatures. The new SF_6 breakers will replace equipment installed at the Barrigada and Harmon Substations and will cost $291,335.00. The expected completion date is February 28, 2018.

GPA has Capital Improvement Project (CIP) funds identified for SF6 circuit breaker upgrades in their approved FY2017 budget plan.

Five proponents submitted bids - R&D Marketing, America's Best Electricmart Inc., Benson Guam Enterprises Inc., JMI Edison, and Polyphase System Inc. submitted bids for the 34.5kV SF6 Circuit Breakers as part of bid GPA-037-17. *Polyphase System Inc*. was the lowest responsible and responsive bidder for the 34.5kV SF6 Circuit Breakers (Line Item 2.0) and was subsequently awarded the bid.

Comm. Santos motioned to approve Resolution 2017-21; Comm. Bamba seconded. There was no further discussion or objection and the motion carried.

4.1.13 Resolution 2017-23 Land for 180MW Power Plant

The acquisition of land is critical in developing the bid specifications for the bid for the new generation power plant. GPA issued a Multi-Step bid for land in February 2017 which only attracted two bid proposals and was cancelled due to both bids not complying with the bid specifications. There are concerns based on the lack of participation in the recent bid and potential additional delays in the bid

process which may significantly delay the procurement for the new generation power plant. GWA was recently approved to purchase 17 Acres from Guam Ancestral Lands Commission (GALC) for the expansion of the Northern District Wastewater Treatment Plant (NDWWTP). GWA, with support from GALC, successfully obtained legislation authorizing GWA to purchase the property and zone the land for Public Use. GALC has substantial Acreage adjacent to the GWA purchased land which would be ideal for the new generation power plant. A similar arrangement to the GWA purchase would expedite the procurement process for the new generation power plant. GPA has recently determined after consultation with the Engineering, Procurement & Construction Management (EPCM), that it would need closer to 40 acres for the power plant, substation, liquid and natural gas fuel storage and operating facilities. GPA is seeking authorization to pursue a purchase from GALC of 40 acres and any legislation required under a similar arrangement as the recent GWA purchase. Land is adjacent to the site where GWA will be building the NDWWT Plant in Harmon.

Compensation has not been determined. Compensation for the property to include but not limited to land exchange, land lease, in kind services, purchase, or a combination of these options to be approved by Guam Power Authority (GPA), the Consolidated Commission on Utilities (CCU) and Guam Ancestral Lands Commission (GALC) and will have one hundred eighty (180) days to finalize a compensation agreement.

Comm. Santos asked what GPA owns around Tanguisson. There was discussion about cost of pipeline from Tanguisson uphill to the new property. There was discussion about storage capacity relative to tanks at Tanguisson. GM Benavente said management will look into this. There was mention that the fuel needs to be trucked not pumped.

Comm. Guthertz moved to approve Resolution 2017-23; Comm. Bamba seconded. There was no further discussion or objection and the motion passed.

The Chairman called for a 5-minute break. It was 6:50 p.m.

4.2 GWA

4.2.1 GM Report Update

The GM Report while not discussed was provided and is in Master File.

4.2.2 Financials – Not discussed

4.2.3 Resolution No. 28-FY2017 Construction Mgmt. Services Contract Amendment for the Southern SSES Rehabilitation–Phase II Project

The objective of the overall intent of the "Southern SSES Rehabilitation – Phase II (Santa Rita-Baza Gardens-Talofofo)" project is to reduce I&I within the wastewater collection system and decrease the volume of storm water that enters into the collection system tributary to the Baza Gardens and Agat-Santa Rita WWTPs causing GWA to incur additional costs to operate the sewer pump stations and treatment plants. GWA requires a construction manager to manage all construction activities therefore the request for approval of Change Order #2 is to ensure construction management services are available during periods when delays occur due to various reasons. In this particular case, the contractor is claiming additional delays however GWA is assessing the validity of these claims.

The construction manager submitted a cost proposal of Eighty One Thousand Four Hundred Fifty Five Dollars and Eighty One Cents ($81,455.81). The approval of the Change Order #2 will increase the overall contract amount to Two Hundred Ninety Eight Thousand Ninety Six Dollars and Fifty Cents ($298,096.50). The additional work is anticipated to be completed by the end of July 2017. The funding for this project will be USEPA Grant Funds and, if necessary, GWA Bond funds under WW 09-06 Wastewater Collection System Replacement/Rehabilitation

Comm. Santos motioned to approve the resolution as presented; Comm. Bamba seconded. There was no further discussion or objection and the motion passed

4.2.4 Resolution No. 29-FY2017 Baza Gardens Wastewater Cross Island Pumping and Conveyance Phase III Construction Project

The objective of the overall intent of the "Baza Gardens Wastewater Cross Island Pumping and Conveyance" project is to convey/pump the wastewater flowing to the Baza Gardens WWTP to the new Agat-Santa Rita WWTP along Route 17 and Route 2. This construction procurement is Phase III of multiple three phases. Phase I and II are currently in construction. Phase III includes, but not limited to, the construction of one sewer pump station located at the Baza Gardens WWTP facility, standby generator and above-ground fuel tank, equalization basins, and 10,481 linear feet of 10" diameter PVC force main. The impetus of this project is the 2011 Court Order requirements under Paragraph 13 but which GWA has established deadlines under Paragraph 14. The urgency for this project is that GWA is working to complete the entire project, including Phase III, by April 30, 2018.

The bid proposal amount for Phase III is Fifteen Million Five Hundred Thirty Thousand Eight Hundred Ninety Two Dollars ($15,530,892.00). GWA management is also seeking a five percent (5%) contingency of the bid amount or Seven Hundred Seventy Six Thousand Five Hundred Forty Four Dollars and Sixty Cents ($776,544.60) which would bring the total authorized funding amount to Sixteen Million Three Hundred Seven Thousand Four Hundred Thirty Six Dollars and Sixty Cents ($16,307,436.60). The project completion date is around April 30, 2018 and the funding source is Bond Funds and CIP's

Comm. Santos motioned to approve Resolution 29-FY2017; Comm. Bamba seconded. There was no further discussion or objection and the notion passed.

4.2.5 Resolution No. 30-FY2017 GWA's FY2017 Annual True-Up

The purpose is to approve GWA's 2017 True-Up and Fiscal Year 2018 Budget. This document must be submitted to the Public Utilities Commission by June 1, 2017 as required by the GWA's Five (5) Year Rate Plan approved by the CCU and PUC in 2013.

The Fiscal Year 2018 Budget requests a 4% increase for basic and non-lifeline rates across all customer classes (as originally earmarked in the Rate Plan) and a 3.75% increases for the legislative surcharge.

FY 2018 water, wastewater and other sources of revenues and O&M expenses are estimated at approximately $112 million and $84 million respectively. Upon submission in June, the PUC will conduct its review over the summer and normally provides approval by August or September 2017. The funding source for this matter is revenues.

Chair made it clear that this does not include the borrowing that GWA wants to do in the next few months. Comm. Bamba further commented that GWA management must be certain that GWA's debt service is met and ratios are maintained because we could go into technical default which we cannot afford.

Comm. Santos moved to approve; Comm. Bamba seconded. There was no further discussion or objection and the motion passed

4.2.6 Resolution No. 31-FY2017/ GPA Resolution 2017-22 Relative to Authorizing an Increase of Obligating Authority for the General Managers of Guam Power Authority and Guam Waterworks Authority

The current obligating authority granted to the General Managers of GPA and GWA by the CCU is limited to $250,000. Any GPA or GWA expenditure above the $250,000 threshold requires the Consolidated Commission on Utilities approval. The Consolidated Commission on Utilities grants approval for expenditures above the $250,000 threshold based on sound justification and prudent governmental and

business practices. The current process requires GPA and GWA to return to the CCU for approval of any change orders of any amount approved above the $250,000 threshold.

The objective of the Resolution is for a streamlined approval process by allowing the General Managers of GPA and GWA the authority to obligate their respective agencies up to and including the threshold amount of $750,000.00. The $750,000.00 threshold will not alter or diminish the current statutory requirements of any applicable notification to the Guam Attorney General's office and/or Guam Public Utility Commission approval.

Comm. Santos motioned to approve Resolution 31-FY2017; Comm. Bamba seconded. There was no further discussion or objection and the motion passed.

4.2.7 Resolution No. 32-FY2017 Relative to Ratification of Purchases Under Indefinite Quantity Contract with Badger Meter Inc. for GWA Water Meters Various Sizes and Accessories

This request will be used in purchasing water meters to replace defective meters currently installed island wide. Based on AWWA recommendation Meter Maintenance practice normally meters last 20 years but because of Guam's unique climate conditions and other factors affecting meter performance, GWA meter projection performance will only last for 15 years. Therefore, we need to replace at least 3000 meters annually so that we could maintain our revenue to max. Finance is in agreement and we need to anticipate what locations to target every year.

The total was $947,120.46 for the purchases of water meters during the initial contract term of 3 years.

PO Purchases

Badger PO No	PO Amount	PO Date
299095	$35,205.27	2/22/2016
299176	$11,659.70	3/10/2016
299326	$3,001.71	3/30/2016
299501	$102,727.15	5/20/2016
299506	$107.30	5/20/2016
299508	$7,291.20	5/20/2016
299769	$10,722.58	8/12/2016
299861	$14,355.00	9/1/2016
299963	$43,088.30	9/26/2016
300089	$28,710.00	10/24/2016
300312	$49,793.35	12/14/2016
300343	$43,065.00	12/20/2016
300515	$57,420.00	2/7/2017
300583	$14,355.00	3/8/2017
300610	$50,242.50	3/23/2017
TOTAL	**$471,744.06**	
as of 5/11/2017		

Additional Purchases

Description	Amount	Qty
Badger MagMeters	$44,726.40	21 large meters various sizes
3/4" meters	$430,650.00	3,000 meters
Total	**$475,376.40**	

Summary

PO Purchases	$471,744.06
Additional Purchases	$475,376.40
TOTAL	**$947,120.46**

The indefinite quantity contract will be in place for an initial term of 3 years and purchases will be ongoing on an as-needed basis over the life of the contract term. The funding source was Internally Funded Capital Improvement Projects.

The GM commented that this ratification part is important because the original procurement was estimated at $150k per year for 3 years. In actuality our need exceeded this amount and approval was not sought prior to exceeding this amount for which he apologized.

Comm. Bamba moved to approve the resolution; Comm. Santos seconded. There was no further discussion or objection and the motion passed.

5. OLD BUSINESS - None

6. ANNOUNCEMENTS

6.1 Next CCU Meetings

The Chairman announced that the next CCU meeting would be on June 6th.

The Chairman said there were matters for discussion in Executive Session relative to litigation.

Chairman called for a 5-minute break before executive session; It was 7:09 p.m.

7. EXECUTIVE SESSION

7.1 Litigation Matter

This matter was discussed.

The meeting was moved to Regular Session again at 7:25 p.m. and the Chairman said a motion is in order.

Comm. Bamba motioned to approve the action of the Commission as discussed in Executive Session; Comm. Guthertz seconded. All were in favor with no objections.

8. ADJOURNMENT

There was no further business to bring before the Commission and the meeting was adjourned at 7:30 p.m.

\\s\\

bls

Attested:

_____ _____

JOSEPH T. DUENAS, Chairman J. GEORGE BAMBA, Secretary

GUAM WATERWORKS AUTHORITY
"Better Water. Better Lives."
Gloria B. Nelson Public Service Building
688 Route 15, Mangilao, Guam 96913

Issues for Decision

Resolution No. 35-FY2017
Relative to the Creation of the Utility Compliance Inspector Leader, Utility Compliance Inspector II, and Utility Compliance Inspector I Positions at the Guam Waterworks Authority

What is the project's objective and is it necessary and urgent?
The Guam Waterworks Authority (GWA) has determined a need to create the Utility Compliance Inspector Leader, II, and I positions to carry out its mission towards providing *"Better Water Better Lives"* to the people of Guam.

The Utility Compliance Inspector I, II and Leader will work under the general direction of the Assistant General Manager of Compliance and Safety and the direct supervision of a respective Pprogram~~'s~~ Manager to help manage GWA's wide range of regulatory, compliance and quality control activities. Programs under which these positions will ~~be~~ operate ~~–~~include, but not limited to, GWA's Safety program, Compliance program, Source Control (e.g., FOG or cross-connection) program, ~~–a~~and Illicit Connection ~~/~~ Illegal Discharge (ICID) program.~~,~~

The creation of the Utility Compliance Inspector series is for the efficient and effective performance of duties and functions of the Guam Waterworks Authority. Performs sampling, inspection and investigation duties for compliance with Federal, State and Local regulations.

In order to protect the public, we need to perform sampling, inspection and monitor for illegal or incorrect infrastructure to successfully improve the safety, efficiency and the reliability of the water and wastewater facilities. This will also result in improved services to our rate payers.

Where is the location?
The Utility Compliance Inspector series will be organizationally located within the Compliance and Safety Department, under the general direction of the General Manager and the Assistant General Manager for Compliance and Safety.

How much will it cost?
There is no cost to create the position.

When will it be completed?
Public Law 28-159, Section 7.0.3 (c) 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?
GWA will certify funding for the position available for the filling and retention of its certified, technical and professional newly created position. The funding of this position does not have an impact on the General Fund.

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. 35-FY2017

RELATIVE TO THE CREATION OF THE UTILITY COMPLIANCE INSPECTOR SERIES OF POSITIONS

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, Public Law 28-112 and 4 GCA §6303 (d) 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; and

WHEREAS, the GWA General Manager requests the CCU to approve the creation of the Utility Compliance Inspector Series of positions; and

WHEREAS, the GWA General Manager requests the CCU to approve the classification standards of the Utility Compliance Inspector Leader, Utility Compliance Inspector II and Utility Compliance Inspector I positions in the classified status.

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 creation and the job classification standards for the Utility Compliance Inspector Leader, Utility Compliance Inspector II and Utility Compliance Inspector I positions in the classified status are hereby approved and attached herein as Exhibits A and B.
3. The CCU hereby authorizes the Utility Compliance Inspector Leader, Utility Compliance Inspector II and Utility Compliance Inspector I positions are 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 6th day of June, 2017.

Certified by: Attested by:

_____ _____

JOSEPH T. DUENAS **J. GEORGE BAMBA**
Chairperson Secretary

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: _____

NAYS: _____

ABSTENTIONS: _____

ABSENT: _____

ATTACHMENT A

GUAM WATERWORKS AUTHORITY
"Better Water. Better Lives."
Suite 200; Gloria B. Nelson Public Service Building | 688 Route 15, Mangilao, Guam 96913
P.O. Box 3010, Hagåtña, Guam 96932
Tel. No. (671) 300-6073-6 Fax No. (671) 300-6896

PRESS RELEASE

Creation of Positions

The General Manager of Guam Waterworks Authority (GWA) hereby petitions the Consolidated Commission on Utilities (CCU) for the creation of position pursuant to Public Law 28-112, Section 9 (4GCA, Chapter 6, §6303 (d) in the classified service; Section 10 (4GCA, Chapter 6, §6303.1Transparency and Disclosure and to add the position to the Certified, Technical, and Professional (CTP) List B:

UTILITY COMPLIANCE INSPECTOR LEADER
UTILITY COMPLIANCE INSPECTOR II
UTILITY COMPLIANCE INSPECTOR I

For more information, please visit GWA's website at www.guamwaterworks.org/careers/petition or you may contact the Personnel Services Division at 300.6074-6

MIGUEL C. BORDALLO, P.E.
General Manager

Justification for the new position:

The Guam Waterworks Authority (GWA) has determined a need to create the Utility Compliance Inspector I, II, and Leader positions to carry out its mission towards providing *"Better Water Better Lives"* to the people of Guam.

The Utility Compliance Inspector I, II and Leader will work under the general direction of the Assistant General Manager of Compliance and Safety and the direct supervision of a respective program's Manager to help manage GWA's wide range of regulatory activities. Programs include but not limited to the 2011 Court order (CO), the Federal Safe Drinking Water Act (SDWA), Guam Primary Drinking Water Regulations (GPDWR) and their amendments including the Ground Water Rule (GWR), Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR); the Clean Water Act (CWA); the Clean Air Act (CAA) and pursuant to further compliance to correct the "Findings of Significant Deficiencies in Guam Waterworks Authority's Public Water Systems. The positions also require awareness of the Occupational Safety and Health Act (OSHA).

The creation of the Utility Compliance Inspector series is for the efficient and effective performance of duties and functions of the regulatory and compliance programs of the Guam Waterworks Authority. The essential functions of these positions include, performing sampling, inspection and investigation duties for compliance with Federal, and Guam regulations.

In order to protect the public, we need to perform sampling, inspection and monitor for illegal or incorrect infrastructure to successfully improve the safety, efficiency and the reliability of the water and wastewater facilities. This will also result in improved services to our rate payers.

Analysis of similarities and differences between the positions to be created and the positions listed pursuant to 4GCA §4101.1:

The above positions are new for GWA. The duties and responsibilities of Utility Compliance Inspector series positions will provide a variety of technical work to successfully improve the safety, efficiency and the reliability of the water and wastewater facilities. The position also includes the capacity to ensure the compliance with all applicable established laws, policies, regulations and principles of the program. These positions were compared and created in line with other inspector positions with water and wastewater utilities in other municipalities.

Position Description: See attached

Compensation:

The proposed pay range is demonstrated to be in compliance with 4GCA §6301. Also, the minimum and maximum range of compensation will be in accordance with the Strategic Pay Methodology when the job description and qualification factors are taken into consideration and the new position is slotted. The resultant new pay grade under the implemented compensation structure and per annual is as follows:

As indicated in the table above, the salary ranges shown in minimum and maximum are at the 15th market percentile for this classified, certified, technical and professional position and are comparable with other US jurisdictions and/or the American

Position	Determining Implementation Ranges								
	JE Points	Structural Adjustment – MIN				Structural Adjustment - MAX			
	0	Base Salary	Grade	Step	Sub Step	Base Salary	Grade	Step	Sub Step
Utility Compliance Inspector Leader	787	43,648	J	6	A	49,184	J	9	A
Utility Compliance Inspector II	626	36,069	I	4	C	40,643	I	7	C
Utility Compliance Inspector I	499	27,754	G	4	C	31,274	G	7	C

Water Works Association (AWWA) salary surveys.

Fiscal note as required by 2GCA §9101 et seq.:

GWA certifies that this position is budgeted and that funding is available for the creation, filling and retention of its certified, technical and professional newly created position. The funding of this position does not have an impact on the General Fund.

MIGUEL C. BORDALLO, PE
GENERAL MANAGER

Utility Compliance Inspector Leader

NATURE OF WORK IN THIS CLASS:

The Utility Compliance Inspector Leader leads and performs various types of inspection work under the general direction of the Assistant General Manager (AGM) for Compliance and Safety and the direct supervision of a respective program's Manager to help manage GWA's wide range of compliance and regulatory activities.

The position may include supervision of lower level inspectors as delegated and assigned by the AGM or the respective Program Manager.

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)

Performs a variety of highly skilled work to successfully improve the safety, efficiency and the reliability of the water and wastewater facilities and operations.

The position also includes the capacity to ensure compliance with all applicable established laws, policies, regulations and principles of the programs in the respective section of the Compliance and Safety Division.

Leads the sampling, inspection, monitors and investigates residential, industrial and commercial facilities to ensure compliance with Federal, State and Local regulations and permit conditions regarding pretreatment and pollution prevention requirements.

Leads the inspection of utilities construction projects to enforce ordinances governing minimum standards and requirements of new construction, alterations, and repairs and enforce compliance with all established laws, policies, regulations and principles of the program.

Provides technical assistance with GWA Engineering staff to architects, engineers, contractors and customers to review project plans, amendments, alteration and specifications to water and wastewater construction of utilities to ensure adherence to applicable laws, policies, regulations and principles of the programs.

Leads the visual or electronic inspections of water and wastewater construction projects. Provides written documentation on observations, findings, assessments and analyses of site inspection. Identifies and categorizes all known or suspected sources of toxic pollutants or pesticides or materials that may inhibit the operation of or damage the GWA water and wastewater systems.

Prepares, establishes, maintains and generates a variety of records, reports, daily logs of inspections and findings and related documents.

Responds, communicates, interacts and coordinates to both residents and businesses on environmental complaints on illegal and/or hazardous activities. Examines and investigates procedures used and make a report on the findings and discuss probable cause and recommends corrective action and problem resolution and recommends improvements.

Leads the inspection on different systems and products to make sure everything has been built according to local, state, or federal codes and regulations. Leads the initial, follow up and periodic inspections of water and wastewater systems projects and related installations to ensure continued compliance with all established laws, policies, regulations and principles of the program.

Leads in the inspections to protect the public water supply and wastewater from contamination or pollution of contaminants and/or pollutants through water and/or wastewater interconnection systems.

Leads the regular surveys of industrial, agricultural and commercial facilities to determine that adequate maintenance of devices are properly maintained and certified and determines the degree of hazard that may exist to the potable water and wastewater systems and recommends/enforces procedures for compliance with Guam and Federal legal requirements.

Provides assistance, training and demonstrations to new employees on various types of safety procedures for water and wastewater systems. Participates in the development and implementation of goals, objectives, policies, and priorities.

Leads the utilities inspector programs as needed in reviewing policies and procedures for compliance established laws, policies, regulations and principles of the program.

Recommends appropriate action when test reports are not received within specified time limits.

Leads follow up of recommendations or requirements for corrective actions prepared by the Office of Compliance and Safety.

Acts, with GWA Engineering, as GWA liaison with all consumers and provides technical support as needed to achieve the proper procedures and compliance with applicable laws, policies, regulations and principles of the program.

Assists the Communications Manager to provide Public Outreach Training and Public Service Announcements related to Utility Protection Program/Pre Treatment Issues and performance goals.

Attends trainings, meetings, seminars and conferences as appropriate to stay abreast of Federal, State and Local regulations.

Composes correspondence, prepares forms and writes reports relating to the Program.

Assists in developing solutions for operational or technical problems associated with the environmental compliance of utility facilities.

Performs other related duties as assigned.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:

Working knowledge of the Safe Drinking Water Act (SDWA), Guam Primary Drinking Water Regulations (GPDWR), Clean Water Act (CWA), Clean Air Act (CAA) and GWA's specific Utility Protection Programs, and the best management practices of these programs.

Ability to become familiar with the Hawaii Water System Standards, the Ten States Standards and the Occupational Health and Safety Act (OSHA) and the best management practices of these standards.

Knowledge of the inspection of utilities construction projects to enforce ordinances governing minimum standards and requirements in conformance with established laws, policies, regulations and principles of the program.

Knowledge of environmental inspections, sampling and collection methods.

Ability to apply principles of logical thinking to define problems, collect data, establish facts, and draw valid conclusions to interpret an extensive variety of technical instruction.

Knowledge of operation, procedures, installation, construction and inspection techniques, procedures, regulations, methods, maintenance and repair related to water and wastewater systems.

Ability to read and interpret construction plans, specifications and details, utility maps and related engineering and architectural plans and drawing in order to ensure compliance with project specifications including GIS based management systems.

Ability to interact with contractors and construction personnel to ensure work activities and products meet required quality levels and standard and comply with all established laws, policies, regulations and principles of the program.

Knowledge of occupational hazards, safety precautions and standard safety practices, and ensure compliance with applicable Guam and Federal laws, rules and regulations governing water and wastewater systems.

Ability to inspect project work sites to ensure acceptable safe quality work and ensure compliance with all established laws, policies, regulations and principles of the program.

Knowledge of principles and processes for providing customer service. This includes setting and meeting quality standards for services, and evaluation of customer satisfaction.

Ability to use logic and reasoning to understand, analyze, and evaluate situations and exercise good judgment to make appropriate decisions in accordance with appropriate program guidelines.

Ability to effectively communicate ideas and proposals verbally and in writing, to include the preparation of detailed logs which include numerical information.

Knowledge of troubleshooting, field inspection and customer information system database issues/problems.

Ability to analyze problems, identifies solutions, advises, and responds to inquiries from customers concerning rules, regulations and potential consequences regarding water and wastewater systems.

Knowledge of operational effectiveness and recommend changes in rules, regulations, policies and procedures to improve program effectiveness.

Knowledge to operate computer programs, including Microsoft Office and the customer information system database and GWA GIS system.

Skill in business letter writing and report preparation.

MINIMUM EXPERIENCE AND TRAINING:

A. Graduation from a recognized college or university with an Associate Degree in Chemistry, Science or related field; ***and*** two (2) years of experience in water and wastewater utility systems field work; or

B. Graduation from a recognized college or university with an Associate Degree in Chemistry, Science or related field; ***and*** two (2) years of experience as a Utility Inspector II; or

C. Any equivalent combination of experience and training which provides the minimum Knowledge, skills and abilities required for the position

NECESSARY SPECIAL QUALIFICATIONS:

Possession of a valid Water Distribution or Water Treatment Operator's Certificate Level III; ***and***

Possession of a valid AWWA or ABPA or equivalent Cross-Connection Control Specialist Certification or Pre-Treatment Inspection Certification; ***and***

Possession of a valid Guam Driver's License.

ESTABLISHED:

JOB EVALUATION POINTS:	787		
PAYGRADE:	MINIMUM:	J6-A	$43,648.00 Per Annum
	MAXIMUM:	J9-A	$49,184.00 Per Annum

JOSEPH T. DUENAS, Chairman
Consolidated Commission on Utilities

Utility Compliance Inspector II

NATURE OF WORK IN THIS CLASS:

The Utility Compliance Inspector II performs various types of inspection work under the general direction of the Utility Compliance Inspector Leader and the Assistant General Manager (AGM) for Compliance and Safety and the direct supervision of a respective program's Manager to help manage GWA's wide range of compliance and regulatory activities.

The position performs a variety of skilled and moderately technical inspection work. Employees in this class perform work independently on an ongoing basis and participate in the full range of complex work projects under closer supervision.

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)

Performs a variety of skilled work to successfully improve the safety, efficiency and the reliability of the water and wastewater facilities and operations.

The position also includes the capacity to ensure compliance with all applicable established laws, policies, regulations and principles of the programs in the respective section of the Compliance and Safety Division.

Performs the sampling, inspection, monitors and investigates residential, industrial and commercial facilities to ensure compliance with Federal, State and Local regulations and permit conditions regarding pretreatment and pollution prevention requirements.

Performs the inspection of utilities construction projects to enforce ordinances governing minimum standards and requirements of new construction, alterations, and repairs and enforce compliance with all established laws, policies, regulations and principles of the program.

Provides written documentation on observations, findings, assessments and analyses of site inspection. Identifies and categorizes all known or suspected sources of toxic pollutants or pesticides or materials that may inhibit the operation of or damage the GWA water and wastewater systems.

Prepares, establishes, maintains and generates a variety of records, reports, daily logs of inspections and findings and related documents.

Responds, communicates, interacts and coordinates to both residents and businesses on environmental complaints on illegal and/or hazardous activities. Examines and investigates procedures used and make a report on the findings and discuss probable cause and recommends corrective action and problem resolution and recommends improvements.

Assists the inspection on different systems and products to make sure everything has been built according to local, state, or federal codes and regulations. Assists the initial, follow up and periodic inspections of water and wastewater systems projects and related installations to ensure continued compliance with all established laws, policies, regulations and principles of the program.

Participates in the inspections to protect the public water supply and wastewater from contamination or pollution of contaminants and/or pollutants through water and/or wastewater interconnection systems.

Assists the regular surveys of industrial, agricultural and commercial facilities to determine that adequate maintenance of devices are properly maintained and certified and determines the degree of hazard that may exist to the potable water and wastewater systems and recommends/enforces procedures for compliance with Guam and Federal legal requirements.

Assists in follow up of recommendations or requirements for corrective actions prepared by the Office of Compliance and Safety.

Assists in the Public Outreach Training and Public Service Announcements related to Utility Protection Program/Pre Treatment Issues and performance goals.

Composes correspondence, prepares forms and writes reports relating to the Program.

Assists in developing solutions for operational or technical problems associated with the environmental compliance of utility facilities.

Performs other related duties as assigned.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:

Working knowledge of the Safe Drinking Water Act (SDWA), Guam Primary Drinking Water Regulations (GPDWR), Clean Water Act (CWA), Clean Air Act (CAA) and GWA's specific Utility Protection Programs, and the best management practices of these programs.

Ability to become familiar with the Hawaii Water System Standards, the Ten States Standards and the Occupational Health and Safety Act (OSHA) and the best management practices of these standards.

Knowledge of the inspection of utilities construction projects to enforce ordinances governing minimum standards and requirements in conformance with established laws, policies, regulations and principles of the program.

Knowledge of environmental inspections, sampling and collection methods.

Ability to apply principles of logical thinking to define problems, collect data, establish facts, and draw valid conclusions to interpret an extensive variety of technical instruction.

Knowledge of operation, procedures, installation, construction and inspection techniques, procedures, regulations, methods, maintenance and repair related to water and wastewater systems.

Ability to interact with contractors and construction personnel to ensure work activities and products meet required quality levels and standard and comply with all established laws, policies, regulations and principles of the program.

Knowledge of occupational hazards, safety precautions and standard safety practices, and ensure compliance with applicable Guam and Federal laws, rules and regulations governing water and wastewater systems.

Ability to inspect project work sites to ensure acceptable safe quality work and ensure compliance with all established laws, policies, regulations and principles of the program.

Knowledge of principles and processes for providing customer service. This includes setting and meeting quality standards for services, and evaluation of customer satisfaction.

Ability to effectively communicate ideas and proposals verbally and in writing, to include the preparation of detailed logs which include numerical information.

Knowledge of troubleshooting, field inspection and customer information system database issues/problems.

Ability to analyze problems, identifies solutions, advises, and responds to inquiries from customers concerning rules, regulations and potential consequences regarding water and wastewater systems.

Knowledge to operate computer programs, including Microsoft Office and the customer information system database and GWA GIS system.

Skill in business letter writing and report preparation.

MINIMUM EXPERIENCE AND TRAINING:

A. Two (2) years of skilled journeyman experience in water and wastewater utility systems field work ***and*** graduation from high school; or

B. Two (2) years of experience as a Utility Inspector I; or

C. Any equivalent combination of experience and training which provides the minimum Knowledge, skills and abilities required for the position

NECESSARY SPECIAL QUALIFICATIONS:
Possession of a valid Water Distribution or Water Treatment Operator's Certificate Level II; ***and***

Possession of a valid Guam Driver's License.

ESTABLISHED:			
JOB EVALUATION POINTS:	626		
PAYGRADE:	MINIMUM:	I4-C	$36,069.00 Per Annum
	MAXIMUM:	I7-C	$40,643.00 Per Annum

JOSEPH T. DUENAS, Chairman
Consolidated Commission on Utilities

Utility Compliance Inspector I

NATURE OF WORK IN THIS CLASS:

The Utility Compliance Inspector I performs routine inspection work under the general direction of the Utility Compliance Inspector Leader and the Assistant General Manager (AGM) for Compliance and Safety and the direct supervision of a respective program's Manager to help manage GWA's wide range of compliance and regulatory activities.

The position performs routine technical inspection work. Employees in this class work independently after initial training and work under closer supervision on a variety of more complex developmental assignments.

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)

Performs a variety of routine work to successfully improve the safety, efficiency and the reliability of the water and wastewater facilities and operations.

The position also includes the capacity to ensure compliance with all applicable established laws, policies, regulations and principles of the programs in the respective section of the Compliance and Safety Division.

Performs the sampling, inspection, monitors and investigates residential, industrial and commercial facilities to ensure compliance with Federal, State and Local regulations and permit conditions regarding pretreatment and pollution prevention requirements.

Performs the inspection of utilities construction projects to enforce ordinances governing minimum standards and requirements of new construction, alterations, and repairs and enforce compliance with all established laws, policies, regulations and principles of the program.

Provides written documentation on observations, findings, assessments and analyses of site inspection. Identifies and categorizes all known or suspected sources of toxic pollutants or pesticides or materials that may inhibit the operation of or damage the GWA water and wastewater systems.

Prepares, establishes, maintains and generates a variety of records, reports, daily logs of inspections and findings and related documents.

Responds, communicates, interacts and coordinates to both residents and businesses on environmental complaints on illegal and/or hazardous activities. Examines and investigates procedures used and make a report on the findings and discuss probable cause and recommends corrective action and problem resolution and recommends improvements.

Participates in the inspections to protect the public water supply and wastewater from contamination or pollution of contaminants and/or pollutants through water and/or wastewater interconnection systems.

Assists the regular surveys of industrial, agricultural and commercial facilities to determine that adequate maintenance of devices are properly maintained and certified and determines the degree of hazard that may exist to the potable water and wastewater systems and recommends/enforces procedures for compliance with Guam and Federal legal requirements.

Assists in follow up of recommendations or requirements for corrective actions prepared by the Office of Compliance and Safety.

Assists in the Public Outreach Training and Public Service Announcements related to Utility Protection Program/Pre Treatment Issues and performance goals.

Composes correspondence, prepares forms and writes reports relating to the Program.

Performs other related duties as assigned.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:

Working knowledge of the Safe Drinking Water Act (SDWA), Guam Primary Drinking Water Regulations (GPDWR), Clean Water Act (CWA), Clean Air Act (CAA) and GWA's specific Utility Protection Programs, and the best management practices of these programs.

Ability to become familiar with the Hawaii Water System Standards, the Ten States Standards and the Occupational Health and Safety Act (OSHA) and the best management practices of these standards.

Knowledge of the inspection of utilities construction projects to enforce ordinances governing minimum standards and requirements in conformance with established laws, policies, regulations and principles of the program.

Knowledge of environmental inspections, sampling and collection methods.

Ability to apply principles of logical thinking to define problems, collect data, establish facts, and draw valid conclusions to interpret an extensive variety of technical instruction.

Knowledge of operation, procedures, installation, construction and inspection techniques, procedures, regulations, methods, maintenance and repair related to water and wastewater systems.

Ability to interact with contractors and construction personnel to ensure work activities and products meet required quality levels and standard and comply with all established laws, policies, regulations and principles of the program.

Knowledge of occupational hazards, safety precautions and standard safety practices, and ensure compliance with applicable Guam and Federal laws, rules and regulations governing water and wastewater systems.

Ability to inspect project work sites to ensure acceptable safe quality work and ensure compliance with all established laws, policies, regulations and principles of the program.

Knowledge of principles and processes for providing customer service. This includes setting and meeting quality standards for services, and evaluation of customer satisfaction.

Ability to effectively communicate ideas and proposals verbally and in writing, to include the preparation of detailed logs which include numerical information.

Knowledge of troubleshooting, field inspection and customer information system database issues/problems.

Ability to analyze problems, identifies solutions, advises, and responds to inquiries from customers concerning rules, regulations and potential consequences regarding water and wastewater systems.

Knowledge to operate computer programs, including Microsoft Office and the customer information system database and GWA GIS system.

Skill in business letter writing and report preparation.

MINIMUM EXPERIENCE AND TRAINING:

A. One (1) year of journeyman experience in water and wastewater utility systems field work ***and*** graduation from high school; or

B. One (1) year of experience as a Utility Inspector I; or

C. Any equivalent combination of experience and training which provides the minimum Knowledge, skills and abilities required for the position

NECESSARY SPECIAL QUALIFICATIONS:

Possession of a valid Water Distribution or Water Treatment Operator's Certificate Level I; ***and***

Possession of a valid Guam Driver's License.

ESTABLISHED:
JOB EVALUATION POINTS: 499
PAYGRADE: MINIMUM: G4-C $27,754.00 Per Annum
MAXIMUM: G7-C $31,274.00 Per Annum

JOSEPH T. DUENAS, Chairman
Consolidated Commission on Utilities

GUAM WATERWORKS AUTHORITY
"Better Water. Better Lives."
Suite 200; Gloria B. Nelson Public Service Building | 688 Route 15, Mangilao, Guam 96913
P.O. Box 3010, Hagatna, Guam 96932
Tel. No. (671) 300-6073-6 Fax No. (671) 300-6896

Issues for Decision

Resolution No.:

Relative to the Creation of the Utility Compliance Inspector Leader, Utility Compliance Inspector II, and Utility Compliance Inspector I positions at the Guam Waterworks Authority.

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

The Guam Waterworks Authority (GWA) has determined a need to create the Utility Compliance Inspector Leader, II, and I positions to carry out its mission towards providing *"Better Water Better Lives"* to the people of Guam.

The Utility Compliance Inspector I, II and Leader will work under the general direction of the Assistant General Manager of Compliance and Safety and the direct supervision of a respective program's Manager to help manage GWA's wide range of regulatory activities. Programs include but not limited to the Federal Safe Drinking Water Act (SDWA), Guam Primary Drinking Water Regulations (GPDWR) and their amendments including the Ground Water Rule (GWR), Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR), the Clean Water Act (CWA) and the Clean Air Act (CAA) and pursuant to further compliance to correct the "Findings of Significant Deficiencies in Guam Waterworks Authority's Public Water Systems. The positions also require awareness of the Occupational Safety and Health Act (OSHA).

The creation of the Utility Compliance Inspector series is for the efficient and effective performance of duties and functions of the Guam Waterworks Authority. Performs sampling, inspection and investigation duties for compliance with Federal, and Guam regulations.

In order to protect the public, we need to perform sampling, inspection and monitor for illegal or incorrect infrastructure to successfully improve the safety, efficiency and the reliability of the water and wastewater facilities. This will also result in improved services to our rate payers.

Where is the location?

The Utility Compliance Inspector series will be organizationally located within the Compliance and Safety Department, under the general direction of the Assistant General Manager for Compliance and Safety and direct supervision of a respective program's manager.

How much will it cost?

There is no cost to create the position.

When will it be completed?

Public Law 28-159, Section 7.0.3 (c) 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?

GWA will certify funding for the position available for the filling and retention of its certified, technical and professional newly created position. The funding of this position does not have an impact on the General Fund.

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

ATTACHMENT B

Utility Compliance Inspector Leader

NATURE OF WORK IN THIS CLASS:

The Utility Compliance Inspector Leader leads and performs various types of inspection work under the general direction of the Assistant General Manager (AGM) for Compliance and Safety and the direct supervision of a respective program's Manager to help manage GWA's wide range of compliance and regulatory activities.

The position may include supervision of lower level inspectors as delegated and assigned by the AGM or the respective Program Manager.

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)

Performs a variety of highly skilled work to successfully improve the safety, efficiency and the reliability of the water and wastewater facilities and operations.

The position also includes the capacity to ensure compliance with all applicable established laws, policies, regulations and principles of the programs in the respective section of the Compliance and Safety Division.

Leads the sampling, inspection, monitors and investigates residential, industrial and commercial facilities to ensure compliance with Federal, State and Local regulations and permit conditions regarding pretreatment and pollution prevention requirements.

Leads the inspection of utilities construction projects to enforce ordinances governing minimum standards and requirements of new construction, alterations, and repairs and enforce compliance with all established laws, policies, regulations and principles of the program.

Provides technical assistance with GWA Engineering staff to architects, engineers, contractors and customers to review project plans, amendments, alteration and specifications to water and wastewater construction of utilities to ensure adherence to applicable laws, policies, regulations and principles of the programs.

Leads the visual or electronic inspections of water and wastewater construction projects. Provides written documentation on observations, findings, assessments and analyses of site inspection. Identifies and categorizes all known or suspected sources of toxic pollutants or pesticides or materials that may inhibit the operation of or damage the GWA water and wastewater systems.

Generates, establishes and maintains a variety of records, reports, daily logs of inspections and findings and related documents.

Responds, communicates, interacts and coordinates to both residents and businesses on environmental complaints on illegal and/or hazardous activities. Examines and investigates procedures used, makes reports on the findings, discusses probable cause and recommends corrective actions and problem resolutions or improvements.

Leads the inspection on different systems and products to make sure everything has been built according to local, state, or federal codes and regulations. Leads the initial, follow up and periodic inspections of water and wastewater system projects and related installations to ensure continued compliance with all established laws, policies, regulations and principles of the program.

Leads in the inspections to protect the public water supply and wastewater from contamination or pollution by contaminants and/or pollutants through water and/or wastewater interconnection systems.

Leads the regular surveys of industrial, agricultural and commercial facilities to determine that adequate maintenance of devices are properly maintained and certified. Determines the degree of hazard that may exist to the potable water and wastewater systems and recommends/enforces procedures for compliance with Guam and Federal legal requirements.

Provides assistance, training and demonstrations to new employees on various types of safety procedures for water and wastewater systems. Participates in the development and implementation of goals, objectives, policies, and priorities.

Leads the utilities inspection programs as needed in reviewing policies and procedures for compliance established laws, policies, regulations and principles of the program.

Recommends appropriate action when test reports are not received within specified time limits.

Leads follow up of recommendations or requirements for corrective actions prepared by the Office of Compliance and Safety.

Acts, with GWA Engineering, as GWA liaison with all consumers and provides technical support as needed to achieve the proper procedures and compliance with applicable laws, policies, regulations and principles of the program.

Assists the Communications Manager to provide Public Outreach Training and Public Service Announcements related to Utility Protection Program Issues and performance goals.

Attends trainings, meetings, seminars and conferences as appropriate to stay abreast of Federal, and Guam regulations.

Composes correspondence, prepares forms and writes reports relating to the Program.

Assists in developing solutions for operational or technical problems associated with the environmental compliance of utility facilities.

Performs other related duties as assigned.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:

Working knowledge of the Safe Drinking Water Act (SDWA), Guam Primary Drinking Water Regulations (GPDWR), Clean Water Act (CWA), Clean Air Act (CAA) and GWA's specific Utility Protection Programs, and the best management practices of these programs.

Ability to become familiar with the Hawaii Water System Standards, the Ten States Standards and the Occupational Health and Safety Act (OSHA) and the best management practices of these standards.

Knowledge of the inspection of utilities construction projects to enforce ordinances governing minimum standards and requirements in conformance with established laws, policies, regulations and principles of the program.

Knowledge of environmental inspections, sampling and collection methods.

Ability to apply principles of logical thinking to define problems, collect data, establish facts, and draw valid conclusions to interpret an extensive variety of technical instruction.

Knowledge of operations, procedures, installation, construction and inspection techniques, procedures, regulations, methods, maintenance and repair related to water and wastewater systems.

Ability to read and interpret construction plans, specifications and details and utility maps and related engineering and architectural plans and drawing in order to ensure compliance with project specifications including GIS based management systems.

Ability to interact with contractors and construction personnel to ensure work activities and products meet required quality levels and standards and comply with all established laws, policies, regulations and principles of the program.

Knowledge of occupational hazards, safety precautions and standard safety practices. Ability to ensure compliance with applicable Guam and Federal laws, rules and regulations governing water and wastewater systems.

Ability to inspect project work sites to ensure acceptable safe quality work and ensure compliance with all established laws, policies, regulations and principles of the program.

Knowledge of principles and processes for providing customer service. This includes setting and meeting quality standards for services, and evaluation of customer satisfaction.

Ability to use logic and reasoning to understand, analyze, and evaluate situations and exercise good judgment to make appropriate decisions in accordance with appropriate program guidelines.

Ability to effectively communicate ideas and proposals verbally and in writing, to include the preparation of detailed logs which may include numerical information.

Knowledge of troubleshooting, field inspection and customer information system database issues/problems.

Ability to analyze problems, identify solutions, advise and respond to inquiries from customers concerning rules, regulations and potential consequences regarding water and wastewater systems.

Knowledge of operational effectiveness and recommend changes in rules, regulations, policies and procedures to improve program effectiveness.

Knowledge of operation of computer programs, including Microsoft Office, the customer information system database and GWA GIS system.

Skill in business letter writing and report preparation.

MINIMUM EXPERIENCE AND TRAINING:

A. Graduation from a recognized college or university with an Associate Degree in Chemistry, Science or related field; ***and*** two (2) years of experience in water and wastewater utility systems field work; or

B. Graduation from a recognized college or university with an Associate Degree in Chemistry, Science or related field; ***and*** Two (2) years of experience as a Utility Inspector II; or

C. Any equivalent combination of experience and training which provides the minimum Knowledge, skills and abilities required for the position

NECESSARY SPECIAL QUALIFICATIONS:

Possession of a valid Water Distribution or Water Treatment Operator's Certificate Level III; ***and***

Possession of a valid AWWA or ABPA or equivalent Cross-Connection Control Specialist Certification or Pre-Treatment Inspection Certification; ***and***

Possession of a valid Guam Driver's License.

ESTABLISHED:	June 2017		
JOB EVALUATION POINTS:	787		
PAYGRADE:	MINIMUM:	J6-A	$43,648.00 Per Annum
	MAXIMUM:	J9-A	$49,184.00 Per Annum

JOSEPH T. DUENAS, Chairman
Consolidated Commission on Utilities

Utility Compliance Inspector II

NATURE OF WORK IN THIS CLASS:

The Utility Compliance Inspector II performs various types of inspection work under the general direction of the Assistant General Manager (AGM) for Compliance and Safety and the direct supervision of a respective program's Manager and when so designated the Utility Compliance Inspector Leader to help manage GWA's wide range of compliance and regulatory activities.

The position performs a variety of skilled and moderately technical inspection work. Employees in this class perform work independently on an ongoing basis and participate in the full range of complex work projects under closer supervision.

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)

Performs a variety of skilled work to successfully improve the safety, efficiency and the reliability of the water and wastewater facilities and operations.

The position also includes the capacity to ensure compliance with all applicable established laws, policies, regulations and principles of the programs in the respective section of the Compliance and Safety Division.

Performs the sampling, inspection, monitoring and investigation of residential, industrial and commercial facilities to ensure compliance with Federal and Guam regulations and permit conditions regarding pretreatment and pollution prevention requirements.

Performs the inspection of utility's construction projects to enforce ordinances governing minimum standards and requirements of new construction, alterations, and repairs and enforce compliance with all established laws, policies, regulations and principles of the program.

Provides written documentation on observations, findings, assessments and analyses of site inspection. Identifies and categorizes all known or suspected sources of toxic pollutants or pesticides or materials that may inhibit the operation of or damage the GWA water and wastewater systems.

Generates, establishes, and maintains a variety of records, reports, daily logs of inspections and findings and related documents.

Responds, communicates, interacts and coordinates both with residents and businesses on environmental complaints on illegal and/or hazardous activities. Examines and investigates procedures used, makes reports on the findings, discusses probable cause and recommends corrective actions and problem resolution/system improvements.

Assists the inspection on various systems and products to make sure everything has been built according to Guam or federal codes and regulations. Assists the initial, follow up and periodic inspections of water and wastewater systems projects and related installations to ensure continued compliance with all established laws, policies, regulations and principles of the program.

Participates in inspections to protect the public water supply and wastewater from contamination or pollution of contaminants and/or pollutants through water and/or wastewater interconnections.

Assists in the regular surveys of industrial, agricultural and commercial facilities to determine that adequate maintenance of devices are properly maintained and certified and determines the degree of hazard that may exist to the potable water and wastewater systems. Recommends/enforces procedures for compliance with Guam and Federal legal requirements.

Assists in follow up of recommendations or requirements for corrective actions prepared by the Office of Compliance and Safety.

Assists in the Public Outreach Training and Public Service Announcements related to Utility Protection Program Issues and performance goals.

Composes correspondence, prepares forms and writes reports relating to the Program.

Assists in developing solutions for operational or technical problems associated with the environmental compliance of utility facilities.

Performs other related duties as assigned.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:

Working knowledge of the Safe Drinking Water Act (SDWA), Guam Primary Drinking Water Regulations (GPDWR), Clean Water Act (CWA), Clean Air Act (CAA) and GWA's specific Utility Protection Programs, and the best management practices of these programs.

Ability to become familiar with the Hawaii Water System Standards, the Ten States Standards and the Occupational Health and Safety Act (OSHA) and the best management practices of these standards.

Knowledge of the inspection of utilities construction projects to enforce ordinances governing minimum standards and requirements in conformance with established laws, policies, regulations and principles of the program.

Knowledge of environmental inspections, sampling and collection methods.

Ability to apply principles of logical thinking to define problems, collect data, establish facts, and draw valid conclusions to interpret an extensive variety of technical instruction.

Knowledge of operations, procedures, installations, construction and inspection techniques, procedures, regulations, methods, maintenance and repair related to water and wastewater systems.

Ability to interact with contractors and construction personnel to ensure work activities and products meet required quality levels and standards and comply with all established laws, policies, regulations and principles of the program.

Knowledge of occupational hazards, safety precautions and standard safety practices, in order to ensure compliance with applicable Guam and Federal laws, rules and regulations governing water and wastewater systems.

Ability to inspect project work sites to ensure acceptable safe quality work and ensure compliance with all established laws, policies, regulations and principles of the program.

Knowledge of principles and processes for providing customer service. This includes setting and meeting quality standards for services, and evaluation of customer satisfaction.

Ability to effectively communicate ideas and proposals verbally and in writing, to include the preparation of detailed logs which may include numerical information.

Knowledge of troubleshooting, field inspection and customer information system database issues/problems.

Ability to analyze problems, identify solutions, advise, and respond to inquiries from customers concerning rules, regulations and potential impacts on water and wastewater systems.

Knowledge of the operation of computer programs, including Microsoft Office; the customer information system database and GWA GIS system.

Skill in business letter writing and report preparation.

MINIMUM EXPERIENCE AND TRAINING:

A. Two (2) years of skilled journeyman experience in water and wastewater utility systems field work ***and*** graduation from high school; or

B. Two (2) years of experience as a Utility Inspector I; or

C. Any equivalent combination of experience and training which provides the minimum Knowledge, skills and abilities required for the position

NECESSARY SPECIAL QUALIFICATIONS:

Possession of a valid Water Distribution or Water Treatment Operator's Certificate Level II; ***and***

Possession of a valid Guam Driver's License.

ESTABLISHED:	June 2017		
JOB EVALUATION POINTS:	626		
PAYGRADE:	MINIMUM:	I4-C	$36,069.00 Per Annum
	MAXIMUM:	I7-C	$40,643.00 Per Annum

JOSEPH T. DUENAS, Chairman
Consolidated Commission on Utilities

Utility Compliance Inspector I

NATURE OF WORK IN THIS CLASS:

The Utility Compliance Inspector I performs routine inspection work under the general direction of the Assistant General Manager (AGM) for Compliance and Safety; the direct supervision of a respective program's Manager and when so designated, the Utility Compliance Inspector Leader to help manage GWA's wide range of compliance and regulatory activities.

The position performs routine technical inspection work. Employees in this class work independently after initial training and work under closer supervision on a variety of more complex developmental assignments.

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)

Performs a variety of routine work to successfully improve the safety, efficiency and the reliability of the water and wastewater facilities and operations.

The position also includes the capacity to ensure compliance with all applicable established laws, policies, regulations and principles of the programs in the respective section of the Compliance and Safety Division.

Performs the sampling, inspection, monitors and investigates residential, industrial and commercial facilities to ensure compliance with Federal and Guam regulations and permit conditions regarding pretreatment and pollution prevention requirements.

Performs the inspection of utilities construction projects to enforce ordinances governing minimum standards and requirements of new construction, alterations, and repairs and enforces compliance with all established laws, policies, regulations and principles of the program.

Provides written documentation on observations, findings, assessments and analyses of site inspection. Identifies and categorizes all known or suspected sources of toxic pollutants or pesticides or materials that may inhibit the operation of or damage the GWA water and wastewater systems.

Generates, establishes, and maintains a variety of records, reports, daily logs of inspections and findings and related documents.

Responds, communicates, interacts and coordinates to/with both residents and businesses on environmental complaints and on illegal and/or hazardous activities. Examines and investigates procedures used and makes reports on the findings; discusses probable cause and recommends corrective actions and problem resolution and/or recommends improvements.

Participates in inspections to protect the public water supply and wastewater from contamination or pollution of contaminants and/or pollutants through water and/or wastewater interconnection systems.

Assists the regular surveys of industrial, agricultural and commercial facilities to determine that adequate maintenance of devices are proper and certified and determines the degree of hazard that may exist to the potable water and wastewater systems and recommends/enforces procedures for compliance with Guam and Federal legal requirements.

Assists in follow up of recommendations or requirements for corrective actions prepared by the Office of Compliance and Safety.

Assists in the Public Outreach Training and Public Service Announcements related to Utility Protection Program/Pre Treatment Issues and performance goals.

Composes correspondence, prepares forms and writes reports relating to the Program.

Performs other related duties as assigned.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:

Working knowledge of the Safe Drinking Water Act (SDWA), Guam Primary Drinking Water Regulations (GPDWR), Clean Water Act (CWA), Clean Air Act (CAA) and GWA's specific Utility Protection Programs, and the best management practices of these programs.

Ability to become familiar with the Hawaii Water System Standards, the Ten States Standards and the Occupational Health and Safety Act (OSHA) and the best management practices of these standards.

Knowledge of the inspection of utility's construction projects to enforce ordinances governing minimum standards and requirements in conformance with established laws, policies, regulations and principles of the program.

Knowledge of environmental inspections, sampling and collection methods.

Ability to apply principles of logical thinking to define problems, collect data, establish facts, and draw valid conclusions to interpret an extensive variety of technical instruction.

Knowledge of operations, procedures, installation, construction and inspection techniques, procedures, regulations, methods, maintenance and repair; related to water and wastewater systems.

Ability to interact with contractors and construction personnel to ensure work activities and products meet required quality levels and standard and comply with all established laws, policies, regulations and principles of the program.

Knowledge of occupational hazards, safety precautions and standard safety practices, and ensure compliance with applicable Guam and Federal laws, rules and regulations governing water and wastewater systems.

Ability to inspect project work sites to ensure acceptable safe quality work and ensure compliance with all established laws, policies, regulations and principles of the program.

Knowledge of principles and processes for providing customer service. This includes setting and meeting quality standards for services, and evaluation of customer satisfaction.

Ability to effectively communicate ideas and proposals verbally and in writing, to include the preparation of detailed logs which may include numerical information.

Knowledge of troubleshooting, field inspection and customer information system database issues/problems.

Ability to analyze problems, identify solutions, advise and respond to inquiries from customers concerning rules, regulations and potential consequences regarding water and wastewater systems.

Knowledge to operate computer programs, including Microsoft Office and the customer information system database and GWA GIS system.

Skill in business letter writing and report preparation.

MINIMUM EXPERIENCE AND TRAINING:

A. One (1) year of journeyman experience in water and wastewater utility systems field work ***and*** graduation from high school; or

B. One (1) yeas of experience as a Utility Inspector I; or

C. Any equivalent combination of experience and training which provides the minimum Knowledge, skills and abilities required for the position

NECESSARY SPECIAL QUALIFICATIONS:

Possession of a valid Water Distribution or Water Treatment Operator's Certificate Level I; ***and***

Possession of a valid Guam Driver's License.

ESTABLISHED:	June 2017		
JOB EVALUATION POINTS:	499		
PAYGRADE:	MINIMUM:	G4-C	$27,754.00 Per Annum
	MAXIMUM:	G7-C	$31,274.00 Per Annum

JOSEPH T. DUENAS, Chairman
Consolidated Commission on Utilities

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

GWA Resolution No. 36-FY2017 / GPA Resolution No. 2017-26
Relative to the Revision of Membership of the Consolidated Commission on Utilities Audit Committee

What is the project's objective and is it necessary and urgent?
The Resolution is necessary as an internal audit function within the organization and since GPA and GWA hired Internal Auditors and the work requirement of the Audit Committee has increased to include review and the disposition of audit reports from the Internal Auditor, therefore the revision of the membership needs to be revised, to include updating the CCU, GPA and GWA management titles.

Where is the location?
N/A

How much will it cost?
N/A

When will it be completed?
N/A

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. 36-FY2017
GPA RESOLUTION NO. 2017-26

RELATIVE TO THE REVISION OF MEMBERSHIP OF THE CONSOLIDATED COMMISSION ON UTILITIES AUDIT COMMITTEE

WHEREAS, a broadly recognized practice in medium to large sized organizations is to have within the organization, an Audit Committee to monitor the integrity of the financial statements of the organization, to review material financial reporting judgments, to review the internal financial control system of the organization, to monitor and review the effectiveness of the organization's Internal Audit functions and its business practices and procedures, to receive internal audit reports, to meet with external auditors regarding audit issues, and to periodically advise the governing body as a whole of such matters; and

WHEREAS, in 2003 the Consolidated Commission on Utilities ("CCU") established an Audit Committee made up of two (2) commissioners, the GPA General Manager, the GWA General Manager, and the Chief Financial Officer for purposes which included approving the audit plan of the Internal Auditor, receiving internal audit reports, following up on audit findings, and meeting once a year with the external auditors; and

WHEREAS, in 2005, the make-up of the Audit Committee was revised to include all the members of the Consolidated Commission on Utilities and the Committee to meet once yearly with GPA's external auditors; and

WHEREAS, a key component of an internal control system is an internal audit function within an organization; and

//

//

WHEREAS, GPA and GWA hired Internal Auditors and the work requirement of the Audit Committee has increased to include review and the disposition of audit reports from the Internal Auditors; and

WHEREAS, in 2013 the make-up of the Audit Committee was revised further to reference title of the members; and

WHEREAS, the CCU desires that the resolution should make references to updated CCU and GPA/GWA management titles held; and

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

1. Effective immediately, the Guam Power Authority Audit Committee shall be made up of the Treasurer of the CCU who shall serve as the Chairperson of the Committee and another member of the CCU, chosen by the Committee Chairperson, who shall serve as Vice-Chair of the Committee, and the GPA General Manager.
2. Effective immediately, the Guam Waterworks Authority Audit Committee shall be made up of the Treasurer of the CCU who shall serve as the Chairperson of the Committee and another member of the CCU, chosen by the Committee Chairperson, who shall serve as Vice-Chair of the Committee, and the GWA General Manager.
3. Effective immediately, the Audit Committees will meet at the call of the Committee Chair, and may include the attendance of personnel from each respective Internal Audit Offices, or other GPWA staff as the Committee Chair deems appropriate.

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

//

//

DULY AND REGULARLY ADOPTED, this 6th day of June, 2017.

Certified by:

_____
JOSEPH T. DUENAS
Chairperson

Attested by:

_____
J. GEORGE BAMBA
Secretary

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: _____

NAYS: _____

ABSTENTIONS: _____

ABSENT: _____

///

///

///

///

///

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. 37-FY2017
Relative to Approval of the Umatac-Merizo Wastewater Treatment Plant Upgrade Design and Construction Contract with Core Tech – Hawaiian Dredging, LLC

What is the project's objective and is it necessary and urgent?
The objective of this design-build project is to improve the Umatac-Merizo Wastewater Treatment Plant (WWTP). Project components include rehabilitation of existing WWTP pump stations, construction of a new headworks, improvements to the existing aerated lagoon, construction of a new pump station and forcemain, installation of an ultraviolet disinfection system, upgrades to the overland flow system including construction of an overland flow storage tank, and improvements to the recirculation pond.

This project is intended to meet the requirements of Paragraph 16 of the United States Environmental Protection Agency (USEPA) 2011 Court Order, which requires GWA to achieve consistent compliance with the facility's National Pollutant Discharge Elimination System (NPDES) permit. GWA is pursuing site-specific modifications to the Guam Water Quality Standards for the Toguan River and Toguan Bay on a parallel path to this project. The combination of the subject project and site-specific water quality standards modifications is anticipated to achieve compliance with the Court Order requirement at significantly lower cost than other options that are available.

Where is the project located?
This project is located in the village of Umatac. Construction activities will be limited to the existing Umatac-Merizo WWTP property.

How much will it cost?
The winning design-build bid proposal, submitted by Core Tech – Hawaiian Dredging, LLC, was in the amount of Eighteen Million Six Hundred Forty Five Thousand Four Hundred Fifty Dollars ($18,645,450.00).

GWA management is also seeking a ten percent (10%) contingency of the total contract amount, in the amount of One Million Eight Hundred Sixty Four Thousand Five Hundred Forty Five Dollars ($1,864,545.00), which brings the total authorized funding amount to a maximum of Twenty Million Five Hundred Nine Thousand Nine Hundred Ninety Five Dollars ($20,509,995.00).

When will it be completed?
The construction of this project must be completed by December 31, 2018, in order to meet the requirements of Paragraph 16 of the 2011 Court Order.

What is the funding source?
The funding for this project will be from GWA Bond Funds under the line items CIP WW 11-04 "Facilities Plan/Design/Interim for Umatac-Merizo STP Impr.", WW 12-07 "Umatac Merizo STP Replacement", Internally Funded CIP and to the extent applicable System Development Charge (SDC).

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-FY2017

RELATIVE TO CONTRACT APPROVAL FOR THE DESIGN AND CONSTRUCTION OF THE UMATAC-MERIZO WASTEWATER TREATMENT PLANT UPGRADE PROJECT S17-002-BND

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 a number of critical Court Order ("CO") projects including a complete evaluation of the Umatac-Merizo Wastewater Treatment Plant (WWTP) to determine what improvements are necessary at the plant to achieve compliance with the WWTP's National Pollutant Discharge Elimination System (NPDES) permit through the United States Environmental Protection Agency (USEPA), as stated in Paragraph 15 of the 2011 Court Order, as well as the completion of construction activities identified in the approved plan resulting from the evaluation noted above, as stated in Paragraph 16 of the 2011 Court Order; and

WHEREAS, in December of 2012, GWA's Program Management Office (PMO), Brown and Caldwell, completed an Overflow Analysis for the Umatac-Merizo WWTP, which recommended several upgrades to the WWTP to prevent future overflows into the Toguan River; and

WHEREAS, the System Evaluation Report required under Paragraph 15 of the 2011 Court Order, completed in December of 2013 by GWA's PMO, resulted in a recommendation to GWA and USEPA that, with suitable WWTP upgrades and coordination with regulatory

agencies, continued operation of the land-application plant with seasonal/intermittent discharge to the Toguan River could be a viable and cost-effective option; and

WHEREAS, in May of 2014, GWA's PMO completed an Implementation Plan and Schedule as a supplement to the System Evaluation Report, that included a specific plan and schedule to upgrade the existing Umatac-Merizo WWTP to achieve compliance with the WWTP's NPDES permit by the 2011 Court Order deadline of December 31, 2018; and

WHEREAS, in May of 2014, GWA's PMO developed a white paper entitled "Umatac-Merizo Wastewater Treatment Plant, Pursuit of an Affordable Compliance Solution for a Small Island Community", which summarized effluent management options and costs, receiving water monitoring results, evaluation of Guam's numeric nutrient standards, and regulatory options for obtaining discharge compliance; and

WHEREAS, in April of 2015, GWA's PMO developed a draft Expanded Monitoring Plan to assist with regulatory discussions regarding effluent compliance at Umatac-Merizo WWTP, and expanded monitoring began in June of 2016; and

WHEREAS, in May of 2016, GWA's PMO prepared a Disinfection Evaluation Technical Memorandum to assess disinfection options at the Umatac-Merizo WWTP, leading to a recommendation that an ultraviolet disinfection process be implemented; and

WHEREAS, in June of 2016, GWA's PMO completed a Umatac-Merizo Wastewater Treatment Plant Upgrade Project Basis of Design Report, which provided a preliminary design intended to meet the June 30, 2016 interim deadline to execute a design contract, as described in Paragraph 16 of the 2011 Court Order; and

WHEREAS, GWA Management, in an effort to comply with the intent of the 2011 Court Order interim deadline to execute a construction contract by June 30, 2017, determined that the most expedient procurement process would be to proceed with a design-build project; and

WHEREAS, GWA has advertised the Invitation to Bid (IFB-03-ENG-2017), for the Design and Construction of the Umatac-Merizo Wastewater Treatment Plant Upgrade, soliciting multi-step bid proposals from experienced and responsive bidders to design and construct repairs and upgrades to the Umatac-Merizo Wastewater Treatment Plant, as described in the bid specifications; and

WHEREAS, this project consists of furnishing all labor, tools, equipment and materials, including coordination with GWA Wastewater Operations, GWA Engineering, the Construction Manager / Owner's Site Representative, and GWA's PMO, that are necessary to design and construct all components included in the bid specifications for the Umatac-Merizo Wastewater Treatment Plant Upgrade; and

WHEREAS, IFB packages were obtained by multiple interested parties, from which GWA received technical proposals from four (4) parties before the deadline, and all four (4) technical proposals were reviewed by GWA Engineering and GWA's PMO, and all four (4) technical proposals were found to be acceptable; and

WHEREAS, GWA received price proposals from two (2) parties (SEE EXHIBIT A – Abstract of Bids) before the bid proposal deadline; and

WHEREAS, GWA's PMO, along with GWA Engineering, analyzed the two (2) bid proposals received and determined that "Core Tech – Hawaiian Dredging, LLC" successfully submitted the lowest bid as responsive and responsible and met all the bid requirements set forth by GWA (SEE EXHIBIT B – Evaluation); and

WHEREAS, GWA Management finds the "Core Tech – Hawaiian Dredging, LLC" bid proposal acceptable and now seeks CCU approval of the bid proposal amount of Eighteen Million Six Hundred Forty Five Thousand Four Hundred Fifty Dollars **(**$18,645,450.00**)** (SEE EXHIBIT C – BID PROPOSAL); and

WHEREAS, GWA Management further seeks CCU approval of a ten percent (10%) contingency to the bid proposal amount, or One Million Eight Hundred Sixty Four Thousand

Five Hundred Forty Five Dollars ($1,864,545.00), to bring the total authorized funding amount to Twenty Million Five Hundred Nine Thousand Nine Hundred Ninety Five Dollars ($20,509,995.00); and

WHEREAS, funding for this project will be from the GWA Bond Funds under the line items CIP WW 11-04 "Facilities Plan/Design/Interim for Umatac-Merizo STP Impr.", WW 12-07 "Umatac Merizo STP Replacement", Internally Funded CIP and to the extent applicable System Development Charge (SDC); 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 and 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 the management of GWA to accept the bid proposal from "Core Tech – Hawaiian Dredging, LLC" attached hereto as EXHIBIT C, and which is incorporated into this Resolution in its entirety.
4. The CCU hereby further authorizes the management of GWA to enter into a contract with "Core Tech – Hawaiian Dredging, LLC" in the amount of Eighteen Million Six Hundred Forty Five Thousand Four Hundred Fifty Dollars **(**$18,645,450.00**)**.
5. The CCU hereby further approves the funding total of Eighteen Million Six Hundred Forty Five Thousand Four Hundred Fifty Dollars **(**$18,645,450.00**)**, plus a ten percent (10%) contingency of One Million Eight Hundred Sixty Four Thousand Five Hundred Forty Five Dollars ($1,864,545.00) for a total amount of Twenty Million Five Hundred Nine Thousand Nine Hundred Ninety Five Dollars ($20,509,995.00).
6. The CCU hereby further approves funding for this project to be from the GWA Bond Funds under the line items CIP WW 11-04 "Facilities Plan/Design/Interim for Umatac-Merizo STP Impr.", WW 12-07 "Umatac Merizo STP Replacement",

Internally Funded CIP and to the extent applicable System Development Charge (SDC).

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

DULY AND REGULARLY ADOPTED, this 6th day of June 2017.

Certified by: Attested by:

_____ _____

JOSEPH T. DUENAS **J. GEORGE BAMBA**
Chairperson Secretary

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: _____

NAYS: _____

ABSTENTIONS: _____

ABSENT: _____

///

///

///

ORIGINAL

GUAM WATERWORKS AUTHORITY
ABSTRACT OF BIDS

Project Name: **DESIGN AND CONSTRUCTION OF THE UMATAC-MERIZO WASTEWATER TREATMENT PLANT UPGRADE (Multi-Step Bid)**
Project Number: **S17-002-BND; IFB-03-ENG-2017**

STEP 2 Bid Opening Date: May 12, 2017
STEP 2 Bid Opening Time: 3:00 pm

	Qualified Bidders	Section A-5 Bid Bond	CERTIFICATIONS								TOTAL BASE BID
			Bidder Qualification Form	Non-Collusion Affidavit	EEO Certification	Non-Segregated Facilities	Sex Offender Certification	Wage & Benefit Determination	Major Shareholders Affidavit	Special Instructions to Bidders	
1.	CORE TECH-HAWAIIAN DREDGING, LLC	Fidelity & Deposit Company of Maryland 15% of total bid amount	2/2/2017	2/2/2017	✓	2/2/2017	2/2/2017	2/2/17	2/2/2017	✓	$18,645,450.00
2.	SUMITOMO MITSUI CONST. CO., LTD.		2/2/2017	2/2/2017		2/2/2017	2/2/2017		2/2/2017		
3.	BLACK CONSTRUCTION CORP.	Safeco Insurance of America 15% of the bid amount	2/2/2017	2/2/2017	✓	2/2/2017	2/2/2017	✓	2/2/2017		$22,317,880.00
4.	PERNIX, GUAM LLC		2/2/2017	2/2/2017		2/2/2017	2/2/2017		2/2/2017		

Bids Opened and Read by:
GLORIA BENSAN
(Name and Signature)
Bensan

Tabulated By:
NICOLE B. QUAN
(Name and Signature)
Nicole B. Quan

GWA Procurement Representative:
(Name and Signature)
STEPHEN MONDIA
Genjo S. Dayyy
christian Val A. Manuel CTI

Witnesses: (Print and Sign)
RODRIGO F BONIFACIO
JOSE ANNIE BONIFACIO
ALVIN CAMPARO GTA-HDCC
EUNICE LINGAT GWCC
ERICKSON MARQUE
Bill Chang V.C. Hdcc

CCU June 6, 2017 Regular Meeting - NEW BUSINESS

Exhibit A (1 of 1)

Doc. No. 34GL-17-0809.*
55

Exhibit B (1 of 4)

Brown AND Caldwell

May 22, 2017

Mr. Thomas Cruz, P.E.
Chief Engineer
Guam Waterworks Authority
Gloria B. Nelson Public Service Building
688 Route 16
Mangilao, Guam 96913

Subject: Letter of Recommendation for the Design and Construction of the Umatac-Merizo Wastewater Treatment Plant Upgrade; GWA Project Number S17-002-BND

Dear Mr. Cruz:

We have completed our review of the Umatac-Merizo Wastewater Treatment Plant Upgrade project. Based on our review of the bid proposals from all interested parties, Brown and Caldwell (BC) has determined that CoreTech – Hawaiian Dredging, LLC is the apparent lowest bidder with a total base bid of $18,645.450.00.

In several places on the bid form, CoreTech – Hawaiian Dredging, LLC has indicated "included" for individual line items, instead of a value in dollars. Based on our review of the contract requirements including the Instructions to bidders, we believe that this is acceptable as it does indicate that all the work is included and it does not affect the total price, quantity, quality or delivery of the work. Before proceeding with the contract award, GWA should concur with our recommendation regarding this issue.

Based on our review, BC recommends executing a contract with CoreTech – Hawaiian Dredging, LLC to provide design and construction services for the this project, as their bid proposal was within reason for the scope of the project. Table 1 summarizes the submitted bids, and Attachment 2 tabulates the details of each party's bids.

Lastly, BC has verified that CoreTech – Hawaiian Dredging, LLC submitted all required documents to be qualified and considered for this project

414 W Soledad Avenue, Suite 907
Hagatna, Guam 96910

T: 671.477.0975

Exhibit B (2 of 4)

Table 1: Bid Summary

Bidder	Total Bid	Variance
Brown and Caldwell's Cost Estimate	$20,400,000	-
CoreTech – Hawaiian Dredging, LLC	$18,645,450.00	7%
Black Construction Corporation	$22,317,880.00	12%

If you have any questions regarding our evaluation or recommendation, please call me at (671) 477-0975.

Respectfully Submitted,

Brown and Caldwell

Kurt Bilz, P.E.
Managing Engineer

KRB:ejm

cc: Erickson Marble, Brown and Caldwell
Gloria Bensan, Guam Waterworks Authority

Attachments:

1. GWA Abstract of Bids
2. Bid Tabulation
3. Bid Form, CoreTech – Hawaiian Dredging, LLC

GUAM WATERWORKS AUTHORITY

Exhibit B (3 of 4)

Design and Construction of the Umatac-Merizo Wastewater Treatment Plant Upgrade (IFB-003-ENG-2017)
Bid Tabulation

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	Extended Price	
					CORE TECH - HAWAIIAN DREDGING, LLC	BLACK CONSTRUCTION CORPORATION
BF-1	**Base Bid**					
1	All work to provide Geotechnical Investigations and develop Project Geotechnical Report	1	JOB	LS	$ 167,271.00	$ 78,477.00
2	All work to provide Survey and Mapping	1	JOB	LS	$ 75,327.00	$ 86,400.00
3	All work to provide all other required design and Design Professional Services, including but not limited to permitting and value engineering	1	JOB	LS	$ 1,964,066.00	$ 2,352,100.00
4	Sum of all work to construct Upgraded Waste Water Treatment Plant (*Sum of items 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, 4.13, 4.14, 4.15, 4.16, 4.17, and 4.18*)	1	JOB	LS	$ 16,438,785.00	$ 19,800,903.00
4.1	All work to mobilize and demobilize for construction.	1	JOB	LS	$ 2,773,749.00	$ 30,648.00
4.2	All work to connect Site Utilities	1	JOB	LS	$ 191,584.00	$ 338,349.00
4.3	All work to construct Upgraded Influent Pump Station including removal, decommissioning, and / or demolition of existing equipment and all bypass systems	1	JOB	LS	$ 213,388.00	$ 366,669.00
4.4	All work to construct New Headworks	1	JOB	LS	$ 1,184,321.00	$ 1,556,006.00
4.5	All work to construct Upraded Aerated Lagoon including removal, decommissioning, and / or demolition of existing equipment and all bypass systems	1	JOB	LS	$ 422,568.00	$ 249,752.00
4.6	All work to construct New Lagoon Effluent Pump Station	1	JOB	LS	$ 328,007.00	$ 833,932.00
4.7	All work to construct New Lagoon Effluent Forcemain *(Sum of items 4.7.1 and 4.7.2)*	1	JOB	LS	$ 456,864.00	$ 496,209.00
4.7.1	Excavation	1	JOB	LS	$ 64,714.00	$ 215,511.00
4.7.2	All other work to construct New Lagoon Effluent Forcemain	1	JOB	LS	$ 392,150.00	$ 280,698.00
4.8	All work to construct Upgraded Overland Flow System including all bypass systems *(Sum of items 4.8.1 an 4.8.2)*	1	JOB	LS	$ 5,000,893.00	$ 8,298,669.00
4.8.1	All work to construct New Overland Flow Storage Tank (prestressed, concrete D110 tank) *(Sum of items 4.8.1.1 and 4.8.1.2)*	1	JOB	LS	$ 1,732,327.00	$ 2,359,094.00
4.8.1.1	All work to construct foundation	1	JOB	LS	$ 292,655.00	$ 456,908.00
4.8.1.2	All other work for New Overland Flow Storage Tank	1	JOB	LS	$ 1,439,672.00	$ 1,902,187.00

GUAM WATERWORKS AUTHORITY

Exhibit B (4 of 4)

Design and Construction of the Umatac-Merizo Wastewater Treatment Plant Upgrade (IFB-003-ENG-2017)
Bid Tabulation

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	Extended Price	
					CORE TECH - HAWAIIAN DREDGING, LLC	BLACK CONSTRUCTION CORPORATION
4.8.2	All other work for the Upgraded Overland Flow System including removal, decommissioning, and / or demolition of existing equipment and bypass systems	1	JOB	LS	$ 3,268,566.00	$ 5,939,574.00
4.9	All work to construct New UV Disinfection System	1	JOB	LS	$ 1,989,311.00	$ 2,406,823.00
4.10	All work to decommission Pump Station 19 and Existing Effuent Forcemain	1	JOB	LS	$ 23,030.00	$ 9,254.00
4.11	All work to construct All Appurtenant Facilities (Upgraded Plant Water System, New Access Road, new pedestrian paths to river monitoring locations, overland flow site fencing)	1	JOB	LS	$ 1,653,625.00	$ 444,139.00
4.12	All electrical work including new generator	1	JOB	LS	$ 553,312.00	$ 1,793,602.00
4.13	All instrumentation and Control Work including telecommunications	1	JOB	LS	$ 720,531.00	$ 1,114,325.00
4.14	All Work to provide Startup, Commissioning, Acceptance Testing, Transitioin, and Training including Startup, Commissioning, Transition, Accept Testing and Training Plan	1	JOB	LS	included	$ 269,767.00
4.15	All required Mobile Equipment	1	JOB	LS	$ 795,479.00	$ 746,489.00
4.16	All required Spare Parts	1	JOB	LS	$ 132,123.00	$ 249,029.00
4.17	All Work for As-Built Drawings and Specifications, and O&M Manuals from preparation to final approval	1	JOB	LS	included	$ 152,487.00
4.18	All other work required by the Contract Documents	1	JOB	LS	included	$ 444,753.00
5	**TOTAL BASE BID (*Sum of items 1, 2, 3, and 4)***	--	--	--	**$ 18,645,450.00**	**$ 22,317,880.00**
BF-2	**Bid Deductions**					
BD1	Credit for deletion of Upgraded Influent Pump Station (see bid item 4.3)	1	JOB	LS	$ 213,388.00	$ 221,281.00
BD2	Credit for deletion of mobile equipment (see bid item 4.15)	1	JOB	LS	$ 795,479.00	$ 450,000.00
BD3	Credit for deletion of all spare parts, except for UV system spare parts)	1	JOB	LS	$ 75,000.00	$ 115,287.00
BF-3	**Bid Alternates**					
BA1	All work for alternate New Overland Flow Storage Tank (welded stainless steel) *(Sum of items BA1.1 and BA1.2)*	1	JOB	LS	$ 2,500,000.00	$ 2,150,998.00
BA1.1	Foundation	1	JOB	LS	included	$ 141,214.00
BA1.2	All other work for alternate New Overland Flow Storage Tank	1	JOB	LS	included	$ 2,009,784.00

Definitions:
LS-Lump Sum

Exhibit C (1 of 3)

BF-1. Base Bid Form

Item No.	Description of Item	QTY	Unit	Unit Price	Amount
1	All work to provide Geotechnical Investigations and develop Project Geotechnical Report	1	JOB	L.S.	$ 167,271.00
2	All work to provide Survey and Mapping	1	JOB	L.S.	$ 75,327.00
3	All work to provide all other required design and Design Professional Services, including but not limited to permitting and value engineering	1	JOB	L.S.	$ 1,964,066.00
4	Sum of all work to construct Upgraded Waste Water Treatment Plant *(Sum of items 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, 4.13, 4.14, 4.15, 4.16, 4.17, and 4.18)*	1	JOB	L.S.	$ 16,438,786.00
4.1	All work to mobilize and demobilize for construction.	1	JOB	L.S.	$ 2,773,749.00
4.2	All work to connect Site Utilities	1	JOB	L.S.	$ 191,584.00
4.3	All work to construct Upgraded Influent Pump Station including removal, decommissioning, and / or demolition of existing equipment and all bypass systems	1	JOB	L.S.	$ 213,388.00
4.4	All work to construct New Headworks	1	JOB	L.S.	$ 1,184,321.00
4.5	All work to construct Upraded Aerated Lagoon including removal, decommissioning, and / or demolition of existing equipment and all bypass systems	1	JOB	L.S.	$ 422,568.00
4.6	All work to construct New Lagoon Effluent Pump Station	1	JOB	L.S.	$ 328,007.00
4.7	All work to construct New Lagoon Effluent Forcemain *(Sum of items 4.7.1 and 4.7.2)*	1	JOB	L.S.	$ 456,864.00
4.7.1	Excavation	1	JOB	L.S.	$ 64,714.00
4.7.2	All other work to construct New Lagoon Effluent Forcemain	1	JOB	L.S.	$ 392,150.00
4.8	All work to construct Upgraded Overland Flow System including all bypass systems *(Sum of items 4.8.1 an 4.8.2)*	1	JOB	L.S.	$ 5,000,893.00
4.8.1	All work to construct New Overland Flow Storage Tank (prestressed, concrete D110 tank) *(Sum of items 4.8.1.1 and 4.8.1.2)*	1	JOB	L.S.	$ 1,732,327.00
4.8.1.1	All work to construct foundation	1	JOB	L.S.	$ 292,655.00

Exhibit C (2 of 3)

BF-1. Base Bid Form

Item No.	Description of Item	QTY	Unit	Unit Price	Amount
4.8.1.2	All other work for New Overland Flow Storage Tank	1	JOB	L.S.	$ 1,439,672.00
4.8.2	All other work for the Upgraded Overland Flow System including removal, decommissioning, and / or demolition of existing equipment and bypass systems	1	JOB	L.S.	$ 3,268,566.00
4.9	All work to construct New UV Disinfection System	1	JOB	L.S.	$ 1,989,311.00
4.10	All work to decommission Pump Station 19 and Existing Effuent Forcemain	1	JOB	L.S.	$ 23,030.00
4.11	All work to construct All Appurtenant Facilities (Upgraded Plant Water System, New Access Road, new pedestrian paths to river monitoring locations, overland flow site fencing)	1	JOB	L.S.	$ 1,653,625.00
4.12	All electrical work including new generator	1	JOB	L.S.	$ 553,312.00
4.13	All instrumentation and Control Work including telecommunications	1	JOB	L.S.	$ 720,531.00
4.14	All Work to provide Startup, Commissioning, Acceptance Testing, Transitioin, and Training including Startup, Commissioning, Transition, Accept Testing and Training Plan	1	JOB	L.S.	included
4.15	All required Mobile Equipment	1	JOB	L.S.	$ 795,479.00
4.16	All required Spare Parts	1	JOB	L.S.	$ 132,123.00
4.17	All Work for As-Built Drawings and Specifications, and O&M Manuals from preparation to final approval	1	JOB	L.S.	included
4.18	All other work required by the Contract Documents	1	JOB	L.S.	included
5	TOTAL BASE BID *(Sum of items 1, 2, 3, and 4)* Eighteen Million Six Hundred Forty Five Thousand Four Huindred Fifty DOLLARS				$ 18,645,450.00

Exhibit C (3 of 3)

BF-2. Bid Deductions

Item No.	Description of Item	QTY	Unit	Unit Price	Amount
BD1	Credit for deletion of Upgraded Influent Pump Station (see bid item 4.3)	1	JOB	L.S.	$ 213,388.00
BD2	Credit for deletion of mobile equipment (see bid item 4.15)	1	JOB	L.S.	$ 795,479.00
BD3	Credit for deletion of all spare parts, except for UV system spare parts)	1	JOB	L.S.	$ 75,000.00

Table BF-3. Bid Alternates

Item No.	Description of Item	QTY	Unit	Unit Price	Amount
BA1	All work for alternate New Overland Flow Storage Tank (welded stainless steel) *(Sum of items BA1.1 and BA1.2)*	1	JOB	L.S.	$ 2,500,000.00
BA1.1	Foundation	1	JOB	L.S.	included
BA1.2	All other work for alternate New Overland Flow Storage Tank	1	JOB	L.S.	included

Submitted By: Core Tech - Hawaiian Dredging, LLC

Name (typed): Conchita D. Bathan

Attach appropriate Authorization to Sign on behalf of Proposer

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. 38-FY2017
Relative to Approval of the Land Survey Phase II Contract with Duenas Camacho and Associates

What is the project's objective and is it necessary and urgent?
The objective of this project is to complete the survey real estate requirement map process for ninety-three (93) GWA properties identified as part of the Phase I Survey project. The properties are part of the "Grant Deed" (DLM Instrument Number 567559) and an "Assignment" (DLM Instrument Number 567695) issued to GWA in 1997. The maps generated will subsequently be documented and filed with DLM.

Where is the project located?
Survey work will occur at various GWA installations such as deep wells, booster pump stations, sewer lift stations, etc. throughout the island.

How much will it cost?
The fee proposal amount for the survey services is One Million Forty Eight Thousand Six Hundred Fifty Seven Dollars and Seventy Seven Cents ($1,048,657.77). GWA management also seeks a ten percent (10%) contingency of One Hundred Four Thousand Eight Hundred Sixty Five Dollars and Seventy Seven Cents ($104,865.77) which will bring the total authorized amount to One Million One Hundred Fifty Three Thousand Five Hundred Twenty Three Dollars and Fifty Four Cents ($1,153,523.54)

When will it be completed?
The survey services are expected to take 540 days to complete.

What is the funding source?
The funding for this project will be from GWA 2016 Bond Funds under CIP line Item MC 05-02.

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. 38–FY2017

RELATIVE TO APPROVAL OF THE LAND SURVEY PHASE II CONTRACT WITH DUENAS CAMACHO AND ASSOCIATES

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, through a "Grant Deed" (DLM Instrument Number 567559) and an "Assignment" (DLM Instrument Number 567695) to GWA in 1997, real properties owned by the Government of Guam/Public Utilities of Guam were transferred, assigned and conveyed to GWA for only area required by GWA to which survey real estate requirement maps are required pursuant to the grant deed for lots indicated in the deed (SEE Exhibit A – Grant Deed & Assignment Letter); and

WHEREAS, to address the requirements of the grant deed and assignment letter, GWA entered into a contract on November 16, 2007 with Duenas Camacho and Associates for land survey work per GWA RFP-2006-05 to complete land survey and associated services such as Ownership and Encumbrance Reports (OER) and Brokers Price Opinion (BPO) for GWA facilities identified in grant deed and assignment letter; and

WHEREAS, completion of DCA's research work has identified a listing of 93 properties ready for field survey work that are not covered in the current contract due to the limits in contract value and as such GWA is working towards completing the next phase in survey real estate requirement map process as part of Land Survey Phase II project; and

WHEREAS, the survey real estate requirement maps required under Phase II will be properly documented and filed with DLM; and

WHEREAS, GWA has advertised the Request for Proposal (RFP-03-ENG-2017) soliciting a statement of qualification from experienced and qualified surveying firms to provide survey services to complete the severance map requirements as stated in the above noted Grant Deed and Assignment to GWA; and

WHEREAS, Request for Proposal (RFP) packages were downloaded by twenty (20) individual parties, from which GWA received proposal submittals from four (4) survey firms before the RFP submittal deadline; and

WHEREAS, the GWA A-E Selection Committee reviewed and evaluated the four (4) proposals (see EXHIBIT B-Evaluation Summary) and made a recommendation to award a contract to the firm Duenas Camacho and Associates ("DCA") and any successor at interest thereto (see EXHIBIT C- GM Determination); and

WHEREAS, DCA and GWA negotiated the scope and fee for the survey services to be provided in the fixed fee amount of One Million Forty Eight Thousand Six Hundred Fifty Seven Dollars and Seventy Seven Cents ($1,048,657.77) (see EXHIBIT D – Fee Proposal) for survey services related to the 93 properties ready for field survey work; and

WHEREAS, GWA Management seeks approval of the fee proposal amount of One Million Forty Eight Thousand Six Hundred Fifty Seven Dollars and Seventy Seven Cents ($1,048,657.77), plus a ten percent (10%) contingency of One Hundred Four Thousand Eight Hundred Sixty Five Dollars and Seventy-Seven Cents ($104,865.77), for a total amount of One Million One Hundred Fifty Three Thousand Five Hundred Twenty Three Dollars and Fifty Four Cents ($1,153,523.54); and

WHEREAS, funding for this project will be from GWA 2016 Bond Funds under CIP line Item MC 05-02; 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 fee proposal submitted by DCA are fair and reasonable.
3. The CCU finds that the terms and 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).
4. The CCU hereby authorizes the management of GWA to enter a contract with DCA in the amount of One Million Forty Eight Thousand Six Hundred Fifty Seven Dollars and Seventy Seven Cents ($1,048,657.77) (Exhibit D), plus a ten percent (10%) contingency of One Hundred Four Thousand Eight Hundred Sixty Five Dollars and Seventy Seven Cents ($104,865.77), to bring the total authorized funding amount to a maximum of One Million One Hundred Fifty Three Thousand Five Hundred Twenty Three Dollars and Fifty Four Cents ($1,153,523.54).
5. The CCU hereby further approves the funding source will be from GWA 2016 Bond Funds under CIP line Item MC 05-02.

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

DULY AND REGULARLY ADOPTED, this 6th day of June, 2017

Certified by:	Attested by:
_____	_____
JOSEPH T. DUENAS	**J. GEORGE BAMBA**
Chairperson	Secretary

//

//

//

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: _____

NAYS: _____

ABSTENTIONS: _____

ABSENT: _____

///

///

///

///

///

///

///

///

Exhibit A

RECORDATION FOR THE DEPARTMENT OF LAND MANAGEMENT

TERRITORY OF GUAM, DEPARTMENT OF LAND MANAGEMENT
OFFICE OF THE RECORDER
INSTRUMENT NO. 567559
This instrument was filed for record on the 23
Day of July 19 97 at 12:39 A.M.
and duly recorded in Book Page
Recording Fee: OFFICIAL
Deputy Recorder

(Space above this line for Recorder's use only)

GRANT DEED

RECEIVED
JUL 23 1997
ATTORNEY GENERAL'S OFFICE

TO ALL WHOM THESE PRESENTS MAY COME, GREETINGS:

It is declared in 10 G.C.A. Sections 45102, 46101, 47102, 52102, and 53012, and in Public Laws 22-47 and 22-28, that it is the policy of the Government of Guam that the public health and welfare mandates that the water resources of Guam shall be protected from environmental degradation and pollutants of any kind. As expressed in said statutes and laws, it is the duty of the Government of Guam to safeguard the conservation and development of Guam's limited water resources for all inhabitants of Guam. To this end, Public Law 20-06:7 provides that all surface waters and ground waters are public assets and that first priority for utilization of any waters shall be for the use or resale of the Guam Waterworks Authority.

In recognition and furtherance of its stated policies and duties, therefore, and pursuant to the authority of Guam Public Law 23-119 (12 G.C.A. Section 14115), Guam Public Law 22-18,

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

and the provisions of 10 G.C.A. Section 46101, 21 G.C.A. Section 1202, and 21 G.C.A. Sections 9202 and 9203, the Government of Guam on behalf of itself and the former line agency, the Public Utility Agency of Guam (hereinafter collectively "GRANTOR"), for TEN DOLLARS ($10.00) plus other good and valuable consideration, the receipt of which is hereby acknowledged, does hereby grant, transfer, assign, and convey to the Guam Waterworks Authority, a public corporation and autonomous instrumentality of the Government of Guam (hereinafter "GRANTEE"), in fee simple absolute, the real property interests for only that area required by the Grantee, the severance of which ("real estate requirement map(s)") shall be pursuant to the convenants expressed herein for the lots identified below:

1. **Lot 1361-1-B-R1, Agana**, Water Booster Pump Station, containing an area of ±2,221.2 square meters, as shown in Map/Instrument Number LM103FY81, Department of Land Management, Government of Guam;

2. **Lot 2062-PART-2, Agana**, Reservoir, containing an area of ±1.65 acres, as shown in Map/Instrument Drawing Number E4-61T541, Department of Land Management, Government of Guam;

//

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

3. **Agana Main Sewer Pump Station, Agana**, containing an area of ±7,439 square feet, adjacent to the Chamorro Village Compound, bounded to the south by Route 1, West Marine Drive and situated at the west corner entrance to Paseo de Susana, as referenced to in Map/Instrument Drawing Number E1-58T415, Department of Land Management, Government of Guam;

4. **Agana Sewage Treatment Plant Facilities and Access Road, Agana, (Artificial Island and Accretion)**, containing an area of ±210,520 square feet, adjacent to the west of Agana Boat Basin, and bounded to the south by Route 1, West Marine Drive and elsewhere by the navigable tidal waters of Agana Bay;

5. **Lot 64-3, Agana Heights**, Deep Well A-32, containing an area of ±5,120.23 square meters, as shown in Instrument Number MA11092, Department of Land Management, Government of Guam;

6. **Lot 3465-1, Agana Springs**, Deep Well A-29, containing an area of ±65,943 square feet as shown in Map/Instrument Number LM216FY84, Document Number 354460, Department of Land Management, Government of Guam;

7. **BLK16, Lot 11-REM, Agat**, Water Booster Pump Station, containing an area of ±425,243 square feet as shown on Map/Instrument Drawing Number B4-69T345, Document Number 93567, Department of Land Management, Government of Guam;

//

//

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

8. **Lot 275, Agat**, Water Booster Pump Station and Reservoir, containing an area of ±341.03 hectares, as shown in Map/Instrument Number LM524FY91, Department of Land Management, Government of Guam;

9. **Lot 350-R4, Agat**, Water Storage Reservoir, containing an area of ±6,389,552 square feet, as shown in Map/Instrument Number LM117FY79, Document Number 299444, Department of Land Management, Government of Guam;

10. **Lot 439-R1, Agat**, Water Storage Reservoir, containing an area of ±116.25 hectares, as shown in Map/Instrument Drawing Number C4-68T523, Document Number 98442, Department of Land Management, Government of Guam;

11. **Lot 443-PART-1-R3, Agat**, containing an area of ±37,886.67 square meters, as shown in Drawing Number B4-62T267, Department of Land Management, Government of Guam;

12. **Lot 455, Agat**, Booster Pump Station (WBP-23), containing an area of ±30 acres, as shown in Map/Instrument Number LM670FY73, Department of Land Management, Government of Guam;

13. **Lot 470-1, Agat**, Water Storage Reservoir, containing an area of ±7,137 square meters, as shown in Map/Instrument Number LM117FY80, Department of Land Management, Government of Guam;

14. **Lot 473, Agat**, Water Storage Reservoir, containing an area of ±22.03 hectares, as shown in Map/Instrument Number LM099FY85, Document Number 358910, Department of Land Management, Government of Guam;

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

15. **Lot 477-1, Agat**, Water Storage Reservoir, containing an area of ±1,860 square meters, as shown in Map/Instrument Number LM555FY94, Department of Land Management, Government of Guam;

16. **Lot 401-21-G, Apra Heights**, Water Storage Reservoir, containing an area of ±1,616.5 square meters, as shown in Map/Instrument Number LM014FY79, Department of Land Management, Government of Guam;

17. **Lot 69, Asan**, Sewer Pump Station, containing an area of ±771 square feet as shown in Map/Instrument Number LM132FY76, Department of Land Management, Government of Guam;

18. **Lot 300-D, Asan**, Asan Springs & Water Booster Pump Station, containing an area of ±702.34 square meters, as shown in Map/Instrument Number LM300FY86, Department of Land Management, Government of Guam;

19. **Lot 407-1, Asan**, Asan Springs & Water Booster Pump Station, containing an area of ±1,043.39 square meters, as shown in Map/Instrument Number LM300FY86, Department of Land Management, Government of Guam;

20. **Lot 469-R1, Asan**, Water Storage Reservoir, containing an area of ±287,601 square meters, as shown in Map/Instrument Number LM269FY90, Department of Land Management, Government of Guam;

21. **Lot 495, Asan**, Reservoir, containing an area of ±257,829.41 square feet, as shown in Map/Instrument Drawing Number B4-57T166, Department of Land Management, Government of Guam;

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

22. **Lot 2285-2-R3, Asan**, Deep Well A-24, containing an area of ±8,382.46 square meters, as shown in Map/Instrument Number LM091FY83, Department of Land Management, Government of Guam;

23. **Blk F, Lot 16, Barrigada**, Water Storage Reservoir, containing an area of ±10,113.54 square meters, as shown in Map/Instrument Drawing Number E4-53T210, Department of Land Management, Government of Guam;

24. **Lot 14, Tract 109, Barrigada**, Deep Well A-16, containing an area of ±32,800 square meters as shown in Map/Instrument Drawing Number D4-64T205, Department of Land Management, Government of Guam;

25. **Lot 31-1A, Tract 1537, Barrigada**, Sewer Pump Station, containing an area of ±83.61 square meters as shown in Map/Instrument Number LM223FY82, Department of Land Management, Government of Guam;

26. **Lot 143-A, Tract 317, Barrigada**, Water Booster Pump Station (WBP-11), containing an area of ±111,521 square feet as shown in Map/Instrument Number LM145FY75, Document Number 256446, Department of Land Management, Government of Guam;

27. **Lot 1085-1-4, Barrigada**, Sewer Lift Station, containing an area of ±386 square meters, as shown in Map/Instrument Number LM096FY74, Document Number 255351 Department of Land Management, Government of Guam;

28. **Lot 2289-2, Barrigada**, Deep Well A-14, containing an area of ±9,721 square meters, as shown in Map/Instrument Number LM091FY83, Department of Land Management, Government of Guam;

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

29. **Lot 2322-1, Barrigada**, Deep Well A-21, containing an area of ±5,010 square meters, as shown in LM Sepia #PS Fldr 10/2A, Department of Land Management, Government of Guam;

30. **Lot 2323-2, Barrigada**, Sewer Pump Station, containing an area of ±89,898 square meters, as shown in LM Sepia #PS Fldr 10/2A, Department of Land Management, Government of Guam;

31. **Lot 2395-R5, Barrigada**, Deep Well A-18, Document Number 429029, containing an area of ±18,675 square meters as shown in Map/Instrument Number LM492FY89, Department of Land Management, Government of Guam;

32. **Lot 3319, Barrigada**, Deep Well A-19, containing an area of ±52,438.66 square meters as shown in Map/Instrument Drawing Number C4-57T376, Department of Land Management, Government of Guam;

33. **Lot 5380-1, Barrigada**, Water Booster Pump Station and Storage Reservoir, containing an area of ±7,167 square meters as shown in Map/Instrument Number LM100FY81, Department of Land Management, Government of Guam;

34. **Lot 5380-2, Barrigada**, Water Booster Pump Station and Storage Reservoir, containing an area of ±20,029 square meters as shown in Map/Instrument Number LM479FY92, Document Number 483929, Department of Land Management, Government of Guam;

35. **Lot 5387, Barrigada**, Deep Well A-15, containing an area of ±45,879.75 square meters as shown in Map/Instrument Drawing Number C4-59T417, Department of Land Management, Government of Guam;

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

36. **Lot 5401-Nor-1, Barrigada**, Sewer Pump Station #1, containing an area of ±232 square meters, as shown in Map/Instrument Number LM367FY89, Department of Land Management, Government of Guam;

37. **Lot 5401-Nor-2, Barrigada**, Sewer Pump Station #2, containing an area of ±232 square meters, as shown in Map/Instrument Number LM367FY89, Department of Land Management, Government of Guam;

38. **Lot 5402-R5-NEW-R2, Barrigada**, Deep Well M-01, M-02, M-03, and M-16, containing ±1,029,566 square meters as shown in Map/Instrument Number LM572FY93, Document Number 497897, Department of Land Management, Government of Guam;

39. **Lot 5419-3, Barrigada**, Water Storage Reservoir, containing an area of ±12,230 square meters, as shown in Map/Instrument Number LM139FY81, Document Number 322313, Department of Land Management, Government of Guam;

40. **Tract 317, Lot 9-A, Barrigada**, Sewer Pump Station, containing an area of ±24,483 square feet, as shown in Map/Instrument Number LM622FY73, Department of Land Management, Government of Guam;

41. **Tract 317, Lot 157A, Barrigada**, Sewer Pump Station, containing an area of ±47,628 square feet, as shown in Map/Instrument Number LM145FY75, Department of Land Management, Government of Guam;

42. **Tract 1447 (Ponding Basin "A"), Barrigada**, Sewer Pump Station, containing an area of ±19,847 square feet as shown in Map/Instrument Number LM420FY79, Department of Land Management, Government of Guam;

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

43. **Lot 3324-8-1, Chalan Pago,** Collector & Sewer Pump Station, containing an area of ±5,398 square meters as shown in Map/Instrument Number LM317FY86, Document Number 377895, Department of Land Management, Government of Guam;

44. **"Buffer Strip," Deep Well D-14, Dededo,** containing an area of ±1,010 square meters, as shown in Map/Instrument Drawing Number 91465, Department of Land Management, Government of Guam;

45. **Tract "H," Dededo**, Sewer Pump Station and Deep Well F-07, containing an area of ±10 acres, as shown in Map/Instrument Drawing Number E2-60T527, Department of Land Management, Government of Guam;

46. **Tract 100, Parcel B, Unit 1-A, Dededo,** Deep Well M-12, containing an area of ±71,668 square feet, as shown in Map/Instrument Number LM018FY71, Department of Land Management, Government of Guam;

47. **Tract 100, Parcel B, Unit 2-A, Dededo,** Deep Well M-14, containing an area of ±104,895 square feet, as shown in Map/Instrument Number LM066FY71, Department of Land Management, Government of Guam;

48. **Tract 170 (Part), Dededo**, Deep Well D-16, containing an area of ±57,025 square meters, as shown in Map/Instrument Number LM016FY80, Department of Land Management, Government of Guam;

49. **Tract 170REM-2-R2, Dededo**, Deep Well D-17, containing an area of ±28,534 square meters, as shown in Map/Instrument Number LM074FY82, Department of Land Management, Government of Guam;

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

50. **Tract 170REM-2-2, Dededo**, Deep Well D-18, containing an area of ±216.12 square meters, as shown in Map/Instrument Number LM074FY82, Department of Land Management, Government of Guam;

51. **Tract 240, Blk. 5, Dededo**, Deep Well F-05, containing an area of ±27,443 square meters, as shown in Map/Instrument Number LM377FY92, Document Number 482808, Department of Land Management, Government of Guam;

52. **Tract 240, Blk. 7, Lot 29, Dededo**, Sewer Lift Station, containing an area of ±3,081 square meters, as shown in Map/Instrument Number LM377FY92, Document Number 482808, Department of Land Management, Government of Guam;

53. **Tract 240, Blk. 25, Lot 31, Dededo**, Sewer Lift Station, containing an area of ±2,489 square meters, as shown in Map/Instrument Number LM377FY92, Document Number 482808, Department of Land Management, Government of Guam;

54. **Tract 240, Block 2, Lot 15, Dededo**, Deep Well F-06, containing an area of ±772 square meters, as shown in Map/Instrument Number LM377FY92, Document Number 482808, Department of Land Management, Government of Guam;

55. **Tract 1314, Blk. 17, Dededo**, Sewer Pump Station, containing an area of ±352 square meters, as shown in Map/Instrument Number LM271FY87, Document Number 441188, Department of Land Management, Government of Guam;

//

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

56. **Tract 198, Chaot,** Water Storage Reservoir, containing an area of ±1 acre, as shown in Map/Instrument Number LM131FY73, Document Number 116969, Department of Land Management, Government of Guam;

57. **Tract 14114, Lot 152, Dededo,** Water Storage Reservoir, containing an area of ±4,035 square meters, as shown in Map/Instrument Number LM127FY89, Department of Land Management, Government of Guam;

58. **Tract 14114, Lot 154, Dededo,** Sewer Pump Station, containing an area of ±249.12 square meters, as shown in Map/Instrument Number LM127FY89, Department of Land Management, Government of Guam;

59. **Lot 4-NEW-R/W, Tract 314, Dededo,** Sewer Pump Station, containing an area of ±81,052 square feet as shown in Map/Instrument Number LM008FY90, Department of Land Management, Government of Guam;

60. **Lot 4-NEW-9B, Blk. 2, Tract 314, Dededo,** Stop Lift Station, containing an area of ±144 square feet, as shown in Map/Instrument Number LM008FY90, Department of Land Management, Government of Guam;

61. **Lot 4-NEW-12B, Blk. 1, Tract 314, Dededo,** Stop Lift Station, containing an area of ±144 square feet, as shown in Map/Instrument Number LM008FY90, Department of Land Management, Government of Guam;

//

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

62. **Lot 4-NEW-18P, Blk. 1, Tract 314, Dededo,** Ponding Basin, containing an area of ±13,960 square feet as shown in Map/Instrument Number LM008FY90, Department of Land Management, Government of Guam;

63. **Lot 19, Block 2, Tract 1034, Dededo,** Deep Well GHURA 501, containing an area of ±137,844 square feet, as shown in Map/Instrument Number LM375FY78, Department of Land Management, Government of Guam;

64. **Lot 105, Tract 276, Dededo (Ypaopao),** Sewer Pump Station, containing an area of ±485 square meters as shown in Map/Instrument Number LM192FY74, Document Number 230751, Department of Land Management, Government of Guam;

65. **Lot 2122#1REM-3-1, Dededo,** Sewer Lift Station, containing an area of ±141.15 square meters, as shown in Map/Instrument Number LM315FY89, Document Number 419971, Department of Land Management, Government of Guam;

66. **Lot 5024-1-1, Dededo,** Sewer Pump Station, containing an area of ±1,544.99 square meters, as shown in Map/Instrument Number LM144FY89, Document Number 422432, Department of Land Management, Government of Guam;

67. **Lot 5075REM-3-1, Dededo,** Water Storage Reservoir, containing an area of ±16,972 square feet, as shown in Map/Instrument Number LM149FY80, Document Number 311820, Department of Land Management, Government of Guam;

//

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

68. **Lot 5115-1-3-R1, Dededo,** Sewer Pump Station containing an area of ±27,155 square feet as shown in Map/Instrument Number LM283FY89, Document Number 420168, Department of Land Management, Government of Guam;

69. **Lot 5120-5NEW-R3NEW/5120-R5, Dededo,** GWA Main Office, containing an area of ±85,518 square meters, as shown in Map/Instrument Number LM055FY79, Document Numbers 296442 and 273769, Department of Land Management, Government of Guam;

70. **Lot 5133-1-R2, Dededo,** Deep Well, containing an area of ±12,734 square meters, as shown in Map/Instrument Number LM258FY89, Department of Land Management, Government of Guam;

71. **Lot 5139-1-R4, Dededo,** Sewer Pump Station, containing an area of ±5,484 square meters, as shown in Map/Instrument Number LM295FY79, Document Number 305722, Department of Land Management, Government of Guam;

72. **Lot 5174-C-R3, Dededo,** Sewer Pump Station containing an area of ±112,670 square meters, as shown in Map/Instrument Number LM356FY88, Document Number 401446, Department of Land Management, Government of Guam;

73. **Lot 10114-New-1, Dededo,** Deep Well D-15, containing an area of ±6.78 hectares as shown in Map/Instrument Number LM002FY95, Department of Land Management, Government of Guam;

//

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

74. **Lot 10119-12, Dededo**, Deep Well Y-04A, containing an area of ±140,982 square meters, as shown in Map/Instrument Number LM 303FY93, Department of Land Management, Government of Guam;

75. **Lot 10120-3, Dededo**, Deep Well, containing an area of ±1 acre, as shown in Map/Instrument Number LM043FY89, Document Number 412425, Department of Land Management, Government of Guam;

76. **Lot 10120-7, Dededo**, Deep Well, containing an area of ±199,280 square meters, as shown in LM Sketch Number 1544, Department of Land Management, Government of Guam;

77. **Lot 10122-12, Dededo**, Deep Well D-09 and Water Storage Reservoir, containing an area of ±829,124 square meters, as shown in Map/Instrument Number LM184FY88, Document Number 397895, Department of Land Management, Government of Guam;

78. **Lot 10122-13-2, Dededo**, Water Storage Reservoir, containing an area of ±26,891 square meters as shown in Map/Instrument Number LM144FY93, Document Number 494170, Department of Land Management, Government of Guam;

79. **Lot 10122-13-R2, Dededo**, containing an area of ±26,009 square meters as shown in Map/Instrument Number LM144FY93, Document Number 494170, Department of Land Management, Government of Guam;

80. **Lot 10125-2, Dededo**, Deep Well, containing an area of ±5 acres, as shown in Map/Instrument Number LM391FY85, Document Number 393756, Department of Land Management, Government of Guam;

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

81. **Lot 10125-11-R1, Dededo**, Deep Well D-19, containing an area of ±1,220,078 square meters as shown in Map/Instrument Number LM022FY94, Department of Land Management, Government of Guam;

82. **Lot 10129-R2, Dededo**, Deep Well F-01, containing an area of ±52,816 square meters as shown in Map/Instrument Number LM273FY89, Document Number 421326, Department of Land Management, Government of Guam;

83. **Lot 10133-R2, Dededo**, Deep Well D-22 and F-14, containing an area of ±1,023,013 square meters as shown in Map/Instrument Number LM142FY81, Document Number 323946, Department of Land Management, Government of Guam;

(84) **Lot 10133-R6NEW, Dededo**, Water Storage Reservoir, containing an area of ±3,306,550 square meters as shown in Map/Instrument Number LM089FY87, Document Number 383837, Department of Land Management, Government of Guam;

85. **Lot 10140-1, Dededo**, Deep Well, containing an area of ±14,328 square meters, as shown in Map/Instrument Number LM249FY86, Document Number 378726, Department of Land Management, Government of Guam;

86. **Lot 10154-R5, Dededo**, Deep Well AG-03/HGC-2, containing an area of ±216,721 square meters, as shown in Map/Instrument Number 176FY86, Document Number 538914-0001, Department of Land Management, Government of Guam;

//

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

87. **Lot 10141-R4, Dededo**, Deep Well F-09, containing an area of ±280,262 square meters, as shown in Map/Instrument Number LM163FY86, Document Number 378729, Department of Land Management, Government of Guam;

88. **Tract 14113, Lot 12, Blk. 2, Dededo**, Sewer Pump Station, containing an area of ±143.4 square meters, as shown in Map/Instrument Number LM213FY85, Department of Land Management, Government of Guam;

89. **Lot 5166-1-R7-1, Harmon**, Sewer Pump Station, containing an area of ±1,512 square feet, as shown in Map/Instrument Number LM184FY87, Document Number 391924, Department of Land Management, Government of Guam;

90. **Parcel A, Inarajan**, Water Booster Pump Station, containing an area of ±446 square meters as shown in Map/Instrument Number LM081FY76, Document Number 264616, Department of Land Management, Government of Guam;

91. **Parcel 2, Inarajan**, Pump Station and Water Treatment Plant, containing an area of ±2,376 square meters, as shown in Map/Instrument Number LM420FY89, Department of Land Management, Government of Guam;

92. **Lot 1, Inarajan**, Sewer Pump Station, containing an area of ±4,631 square meters, as shown in Map/Instrument Number LM354FY90, Document Number 440777, Department of Land Management, Government of Guam;

//

//

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

93. **Lot 112-1, Blk. 12, Inarajan**, Sewer Lift Station, containing an area of ±257 square meters, as shown in Map/Instrument Number LM098FY85, Document Number 367991, Department of Land Management, Government of Guam;

94. **Lot 116-1-1, Inarajan**, Main Sewer Pump Station, containing an area of ±556 square meters, as shown in Map/Instrument Number LM244FY84, Department of Land Management, Government of Guam;

95. **Lot 203-3, Inarajan**, Water Booster Pump Station, containing an area of ±111.48 square meters, as shown in Map/Instrument Number LM515FY73, Department of Land Management, Government of Guam;

96. **Lot 360-2-R2, Inarajan**, Water Storage Reservoir, containing an area of ±4,513 square meters, as shown in Map/Instrument Number LM145FY96, Document Number 544009, Department of Land Management, Government of Guam;

97. **Lot 361-4G, Inarajan**, Water Booster Pump Station (WBP-12), containing an area of ±269 square meters as shown in Map/Instrument Number LM065FY87, Document Number 391106, Department of Land Management, Government of Guam;

98. **Lot 368, Inarajan**, Sewage Treatment Plant, containing an area of ±36,000 square meters, as shown in Map/Instrument Number LM307FY86, Document Number 375041, Department of Land Management, Government of Guam;

//

//

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

99. **Tract 212, Lot 9-R7, Blk. 1, Inarajan**, Deep Well MJ-01, containing an area of ±342,903 square feet, as shown in Map/Instrument Number LM064FY83, Department of Land Management, Government of Guam;

100. **Lot 3339-6-1G, Mangilao**, Sewer Pump Station, containing an area of ±1,759 square meters as shown in Map/Instrument Number LM009FY82, Document Number 325978, Department of Land Management, Government of Guam;

101. **Lot 5423-R7, Mangilao**, Deep Well A-09, containing an area of ±74,301 square meters as shown in Map/Instrument Number LM035FY81, Document Number 322769, Department of Land Management, Government of Guam;

102. **Lot 100, Merizo**, Sewer Pump Station, containing an area of ±35 square meters, as shown in Document Number 295710, Department of Land Management, Government of Guam;

103. **Lot 107-1-5-1, Merizo**, Sewer Pump Station, containing an area of ±130 square meters, Document Number 295710, Department of Land Management, Government of Guam;

104. **Lot 138-R2, Merizo**, Sewer Pump Station, containing an area of ±41 square meters, as shown in Map/Instrument Number LM034FY71, and Document Numbers 295710 and 97877, Department of Land Management, Government of Guam;

105. **Lot 151-2-2-1G, Merizo**, Sewer Pump Station, containing an area of ±263.02 square meters, as shown in Map/Instrument Number LM181FY78, Department of Land Management, Government of Guam;

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

106. **Lot 152-1G, Merizo**, Dam River Diversion, containing an area of ±1,439 square meters, as shown in Map/Instrument Number LM247FY78, Document Number 295710, Department of Land Management, Government of Guam;

107. **Lot 246G-R1, Merizo**, Sewer Pump Station, containing an area of ±564 square meters, as shown in Map/Instrument Drawing Number I4-82T188, Document Number 334837, Department of Land Management, Government of Guam;

108. **Lot 265-3, Merizo**, Sewer Pump Station, containing an area of ±74 square meters, as shown in Document Number 295710, Department of Land Management, Government of Guam;

109. **Lot 268, Merizo**, Sewer Pump Station, containing an area of ±45 square meters, as shown in Document Number 295710, Department of Land Management, Government of Guam;

110. **Lot 272-6G, Merizo**, Sewer Pump Station, containing an area of ±391 square meters, as shown in Map/Instrument Number LM333FY82, Document Number 331406, Department of Land Management, Government of Guam;

111. **Lot 290-1G, Merizo**, Sewer Pump Station, containing an area of ±589 square meters, as shown in Map/Instrument Number LM359FY82, Department of Land Management, Government of Guam;

112. **Lot 347, Merizo**, Dosing Siphon, containing an area of ±48 square meters, Document Number 295710, Department of Land Management, Government of Guam;

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

113. **Lot 424-1G, Merizo**, Water Booster Pump Station (WBP-14), containing an area of ±462 square meters as shown in Map/Instrument Number LM051FY76, Department of Land Management, Government of Guam;

114. **Lot 505-7, Merizo**, Water Booster Pump Station, containing an area of ±15,644.43 square meters, as shown in Map/Instrument Number LM052FY80, Department of Land Management, Government of Guam;

115) **Lot 505-11-NEW, Merizo**, Water Booster Pump Station and Reservoir, containing an area of ±26.3 hectares, as shown in Map/Instrument Number LM370FY90, Department of Land Management, Government of Guam;

116. **Lot 505-R11, Merizo**, Water Storage Reservoir, containing an area of ±141,631 square meters as shown in Map/Instrument Drawing Number LM370FY90, Document Number 445747, Department of Land Management, Government of Guam;

117. **Lot 516, Merizo**, Water Booster Pump Station, containing an area of ±19.27 hectares, as shown in Map/Instrument Number LM161FY91, Department of Land Management, Government of Guam;

118. **Lot 523, Merizo**, Water Dam, containing an area of ±335.37 hectares, as shown in Map/Instrument Number LM329FY90, Document Number 539034, Department of Land Management, Government of Guam;

//

//

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

119. **Lot 525, Merizo**, Water Booster Pump Station #15 and Reservoir, containing an area of ±41 hectares, as shown in Map/Instrument Number LM420FY90, Department of Land Management, Government of Guam;

120. **Umatac/Merizo Sewer Pump Station, Merizo**, containing an area of ±712,500 square feet, adjacent to the Umatac/Merizo Sewage Treatment Plant Compound, as referenced to in Map/Instrument Drawing Number LM247FY78, Department of Land Management, Government of Guam;

121. **Lot 1150-3-R1, Mongmong**, Sewer Pump/Lift Station, containing an area of ±37 square meters, as shown in Map/Instrument Number LM439FY88, Document Number 406200, Department of Land Management, Government of Guam;

122. **Lot 3269-R4, Ordot-Chalan Pago**, Deep Well A-12, containing an area of ±265,503 square feet, as shown in Map/Instrument Number LM029FY70, Department of Land Management, Government of Guam;

123. **Lot 3395-R1, Ordot-Chalan Pago**, Deep Well A-11, containing an area of ±82,014 square meters, as shown in Map/Instrument Number LM410FY89, Document Number 429480, Department of Land Management, Government of Guam;

124. **Lot 3396, Ordot**, Sewer Pump Station, containing an area of ±12 acres, as shown in Map/Instrument Drawing Number B4-68T343, Department of Land Management, Government of Guam;

//

//

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

125. **Lot 3471, Ordot-Chalan Pago**, Sewer Pump Station, containing an area of ±0.69 acres, as shown in Map/Instrument Number LM498FY92, Document Number 482397, Department of Land Management, Government of Guam;

126. **Pre-War Old Agana-Piti Road, Piti**, Sewer Pump Station, containing an area of ±1,515 square meters as shown in Map/Instrument Number LM150FY94, Document Number 522731, Department of Land Management, Government of Guam;

127 **Parcel 1, Piti**, Sewer Lift Station, containing an area of ±13 hectares, as shown in Map/Instrument Number LME4-665638, Document Number 91523, Department of Land Management, Government of Guam;

128. **Parcel 2, Piti,** Commercial Port Sewage Treatment Plant, containing an area of ±10.94 acres as shown in Map/Instrument Number LM134FY82, Document Number 338680, Department of Land Management, Government of Guam;

129. **Lot 258, Piti**, containing an area of ±2 acres, as shown in Instrument Number 23697, Department of Land Management, Government of Guam;

130. **Tract 1925-A, Lot 1-G, Sinajana**, Sewer Pump Station, containing an area of ±35 square meters, as shown in Map/Instrument Number LM049FY92, Department of Land Management, Government of Guam;

131. **Lot P19, 5-3-1, Sinajana**, Deep Well A-05, containing an area of ±865.01 square meters as shown in Map/Instrument Number LM459FY73, Department of Land Management, Government of Guam;

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

132. **Lot P19, 5-3(REM), Sinajana**, Deep Well A-06, containing an area of ±865 square meters as shown in LM Sketch Number 1227, Department of Land Management, Government of Guam;

133. **Lot 28-REM, Sinajana**, Water Storage Reservoir, containing an area of ±2,797.13 square meters as shown in Map/Instrument Drawing Number D4-60T251, Department of Land Management, Government of Guam;

134. **Lot L17, Tract 310, Sinajana**, Sewage Treatment Plant, containing an area of ±744,880 square feet as shown in Map/Instrument Number LM855FY72, Department of Land Management, Government of Guam; PAGO BAY ESTATE

135. **Lot L70, Tract 232, Block 10, Sinajana,** Sewer Lift Station, containing an area of ±125,359 square feet as shown in Map/Instrument Number LM071FY74, Department of Land Management, Government of Guam;

136. **Lot 2404-7, Sinajana**, containing an area of ±1,814 square meters as shown in Map/Instrument Drawing 256445, Department of Land Management, Government of Guam;

137. **Lot 2417-1-6, Sinajana**, Deep Well A-17, containing an area of ±190,905 square feet, as shown in Map/Instrument Sketch Number 1118, Department of Land Management, Government of Guam;

138. **Lot 3262-1A-1,** s ion, containing an are eet, as shown in mber LM477FY73, Docu 995, Department of Lan ment of Guam;

MISSING FROM INVENTORY WELL NO A-1 LOT NO 3259

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

139. **Lot 3323-1, Sinajana**, Deep Well, containing an area of ±2,980 square meters, as shown in Map/Instrument Number LM435FY90, Document Number 446110, Department of Land Management, Government of Guam;

140. **Lot 3339-5-1G, Sinajana**, Deep Well A-13 containing an area of ±7,425.48 square feet as shown in Map/Instrument Drawing Number D4-71S231, Department of Land Management, Government of Guam;

141. **Lot 3375-1, Sinajana**, Deep Well A-04, containing an area of ±445 square meters as shown in Map/Instrument Drawing Number C4-66T496, Department of Land Management, Government of Guam;

142. **Lot 3376-1, Sinajana**, Deep Well A-04, containing an area of ±484 square meters as shown in Map/Instrument Drawing Number C4-66T541A, Department of Land Management, Government of Guam;

143. **Lot 3396, Sinajana**, Deep Well A-20 and Sewer Pump Station, containing an area of ±12 acres, as shown in Map/Instrument Drawing Number B4-68T343, Department of Land Management, Government of Guam;

144. **Lot 3420, Sinajana**, Sewage Treatment Plant, containing an area of ±24,987.33 square meters, as shown in Map/Instrument Drawing Number #C4-72T541A, Document Number 237392, Department of Land Management, Government of Guam;

145. **Lot 3458, Sinajana**, Deep Well, containing an area of ±37,900 square meters, as shown in Map/Instrument Number LM149FY78, Department of Land Management, Government of Guam;

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

146. **Lot 3463, Sinajana**, Water Storage Reservoir, containing an area of ±157,134 square meters, as shown in Map/Instrument Number LM387FY91, Department of Land Management, Government of Guam;

147. **Lot 1, Block 15, Tract 2831, Talofofo**, Water Storage Reservoir, containing an area of ±28,017 square meters, as shown in Map/Instrument Number LM068FY91, Department of Land Management, Government of Guam;

148. **Lot 50A-6, Talofofo**, Water Storage Reservoir, containing an area of ±122,204 square feet, as shown in Map/Instrument Number LM250FY81, Document Number 321801, Department of Land Management, Government of Guam;

149. **Lot 295-43, Talofofo**, Water Storage Reservoir and Treatment Plant, containing an area of ±5,919 square meters, as shown in Map/Instrument Number LM420FY89, Department of Land Management, Government of Guam;

150. **Lot 5182 (part), Tamuning**, Water Storage Reservoir, containing an area of ±6.4 acres, as shown in Map/Instrument Number LM114FY77, Department of Land Management, Government of Guam; SEPIA NO. I-037

151. **Deep Well, Tiyan-NAS**, adjacent to the north of Guam Main U.S. Post Office Facility, measuring ±900 feet east to west and ±600 feet north to south (±40,470 square meters), and bounded to the west by Fury Road and to the east by Security Road/Route 16;

//

//

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

152. **Galley and General Mess Hall, Building 13-8A, Tiyan-NAS**, bounded to the northwest by Mariner Avenue, to the southwest by Corsair Road, to the southeast by Seagull Avenue, and to the northeast by Fury Road;

153. **Parcel 1-R/W, Umatac**, Water Storage Reservoir, containing an area of ±34,529 square meters as shown in Map/Instrument Number LM312FY87, Department of Land Management, Government of Guam;

154. **Tract 3241, Blk. 12, Lot 1G, Umatac**, Water Boost Pump Station (WBP-1), containing an area of ±439 square meters, as shown in Map/Instrument Number LM700FY93, Department of Land Management, Government of Guam;

155. **Lot 53-1, Umatac**, Water Storage Reservoir, containing an area of ±1 acre, as shown in Map/Instrument Number LM315FY91, Department of Land Management, Government of Guam;

156. **Lot 152-1G, Umatac**, containing an area of ±1,439 square meters, as shown in Document Number 295710, Department of Land Management, Government of Guam;

157. **Lot 153, Umatac**, Sewer Pump Station, containing an area of ±5,187 square meters as shown in Map/Instrument Number LM247FY78, Department of Land Management, Government of Guam;

158. **Lot 182-1, Umatac**, Sewer Pump Station, containing an area of ±30 square meters, as shown in Document Number 295710, Department of Land Management, Government of Guam;

//

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

159. **Lot 253-R2, Umatac**, Water Storage Reservoir, containing an area of ±14.84 acres, as shown in Map/Instrument Number LM191FY79, Department of Land Management, Government of Guam;

160. **Lot 257-R1, Tract 3241, Umatac**, Water Storage Reservoir, containing an area of ±3,232 square meters, as shown in Map/Instrument Number LM700FY93, Department of Land Management, Government of Guam;

161. **Lot 258, Umatac**, Sewage Treatment Plant & Lagoon, containing an area of ±36,154 square meters as shown in Map/Instrument Number LM247FY78, Department of Land Management, Government of Guam;

162. **Lot 260G, Umatac**, Sewer Pump Station, containing an area of ±348 square meters, as shown in Map/Instrument Number LM180FY78, Department of Land Management, Government of Guam;

163. **Parcel 7A, United States Naval Station**, New Agat/Santa Rita Sewage Treatment Plant, containing an area of ±17.95 hectares, as shown in Map Reference Number Apra Harbor Reservation Area "F," SA Control No. 9-N-GU-420, Real Estate Facilities Management, Commander Naval Forces Marianas;

164. **Deep Well AG-01, Yigo, USAF Property**, containing an area of ±4,900 square feet, as shown in Air Force Drawing Tab No. G-1, Exhibit "A,", License Number N6286593RP00006, 336 Civil Engineering Squadron, Real Property Section, AAFB, Guam;

//

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

165. **Tract 299, Blk. 5, Lot 1, Yigo**, Water Storage Reservoir, containing an area of ±3,435 square meters, as shown in Map/Instrument Number LM720FY72, Department of Land Management, Government of Guam;

166. **Lot 7001-1, Yigo**, Deep Well, containing an area of ±860.78 square meters as shown in Map/Instrument Drawing Number C4-66T477, Department of Land Management, Government of Guam;

167. **Lot 7003-1, Yigo**, Deep Well, containing an area of ±50,034 square meters, as shown in Map/Instrument Drawing Number C4-66T477, Department of Land Management, Government of Guam;

168. **Lot 7003-2, Yigo**, Deep Well, containing an area of ±2,276.32 square meters as shown in Map/Instrument Drawing Number C4-66T477, Department of Land Management, Government of Guam;

169. **Lot 7004-6, Yigo**, Deep Well, containing an area of ±50,034 square meters, as shown in Map/Instrument Drawing Number C4-66T477, Department of Land Management, Government of Guam;

170. **Lot 7004-6-1, Yigo**, Deep Well Y-03, containing an area of ±1,579.37 square meters, as shown in Map/Instrument Drawing Number LMD4-72T234, Document Number 273760, Department of Land Management, Government of Guam;

171. **Lot 7019-3, Yigo**, Deep Well Y-01, containing an area of ±929.03 square meters, as shown in LM Sketch Number 973, Department of Land Management, Government of Guam;

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

172. **Lot 7022-2, Yigo**, Deep Well Y-05, containing an area of ±113,688 square meters, as shown in Map/Instrument Number LM547FY72, Department of Land Management, Government of Guam;

173. **Lot 7024-4-1G, Yigo**, Sewer Pump Station, containing an area of ±390 square meters as shown in Map/Instrument Number LM367FY80, Document Number 318603, Department of Land Management, Government of Guam;

174. **Lot 7037-1-R1-3-R1, Yigo**, Booster Pump Station (WBP-9), containing an area of ±1,556 square feet, as shown in Map/Instrument Number LM535FY75, Department of Land Management, Government of Guam;

175. **Lot 7116-1-1, Yigo,** Deep Well, containing an area of ±2,270 square meters, as shown in Map/Instrument Number LM277FY84, Document Number 357633, Department of Land Management, Government of Guam;

176. **Lot 7116-5, Yigo**, Deep Well, containing an area of ±232 square meters, as shown in Map/Instrument Number LM266FY89, Document Number 428181, Department of Land Management, Government of Guam;

177. **Lot 7117-3-R1, Yigo**, Water Storage Reservoir, containing an area of ±11,639 square meters as shown in Map/Instrument Number LM161FY80, Department of Land Management, Government of Guam;

178. **Lot 7117-3-1, Yigo**, Water Storage Reservoir, containing an area of ±9,852 square meters, as shown in Map/Instrument Number LM161FY80, Department of Land Management, Government of Guam;

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

179. **Lot 7117-7, Yigo**, Water Booster Pump Station, containing an area of ±5,025 square meters as shown in Map/Instrument Drawing Number LM070FY72, Department of Land Management, Government of Guam;

180. **Lot 7165, Yigo**, Maui Well, containing an area of ±7.16 acres, as shown in Map/Instrument Number LM040FY95, Document Number 523133, Department of Land Management, Government of Guam;

181. **Lot 10119-R15, Yigo**, Deep Well Y-04, containing an area of ±255,544 square meters as shown in Map/Instrument Number LM303FY93, Department of Land Management, Government of Guam;

182. **Lot 10154-5, Yigo**, Deep Well AG-04, containing an area of ±371,689 square meters as shown in Map/Instrument Number LM176FY86, Department of Land Management, Government of Guam;

183. **Lot 10154-2, Yigo,** Deep Well AG-02, containing an area of ±3,716 square meters, as shown in Map/Instrument Number LM176FY86, Department of Land Management, Government of Guam;

184. **Tract 1018, Blk. 3, Lot 6, Yigo**, Sewer Pump Station, containing an area of ±306 square meters, as shown in Map/Instrument Number LM314FY91, Document Number 508467, Department of Land Management, Government of Guam;

185. **Tract 1046, Lot 190, Block 3, Yigo**, Deep Well Y-06, containing an area of ±30,860 square feet, as shown in Map/Instrument Number LM161FY79, Department of Land Management, Government of Guam;

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

186. **Tract 268, Blk. 1, Yona**, Sewer Pump Station, containing an area of ±148,065 square feet, as shown in Map/Instrument Number LM721FY72, Department of Land Management, Government of Guam;

187. **Tract 2913, Lot 95-2A-NEW-R2, Yona**, Sewer Pump Station, containing an area of ±118,265 square meters, as shown in Map/Instrument Number LM172FY85, Department of Land Management, Government of Guam;

188. **Lot 71G, Yona,** Sewage Treatment Plant, containing an area of ±112,798 square feet as shown in Map/Instrument Number LM623FY74, Document Number 238869, Department of Land Management, Government of Guam;

189. **Lot 72G, Yona,** Sewage Treatment Plant, containing an area of ±72,975 square feet as shown in Map/Instrument Number LM623FY74, Document Number 238869, Department of Land Management, Government of Guam;

190. **Lot 90-8-1, Yona**, Water Storage Reservoir, containing an area of ±1,752.74 square meters, as shown in Map/Instrument Drawing Number C7-66T476, Document Number 75978, Department of Land Management, Government of Guam;

191. **Lot 117, Yona**, Water Booster Pump Station, containing an area of ±50,583 square meters, as shown in Map/Instrument Drawing Number E4-71T678, Department of Land Management, Government of Guam;

192. **Lot 163-New-1G, Yona**, Booster Pump Station (WBP-18), containing an area of ±229 square meters, as shown in Map/Instrument Number LM007FY83, Document Number 342855,

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

Department of Land Management, Government of Guam;

193. **Lot 180-4-1G, Yona**, Water Storage Reservoir, containing an area of ±4,682.99 square meters as shown in Map/Instrument Number LM263FY81, Document Number 323371, Department of Land Management, Government of Guam;

194. **Lot 400-1-R1, Yona**, Water Storage Reservoir, containing an area of ±1,942,391 square meters, as shown in Map/Instrument Number LM340FY89, Document Number 433880, Department of Land Management, Government of Guam;

195. **Easement, Northern District Sewage Treatment Plant, Harmon, USAF Grant of Easement**, as shown in Map/Instrument Drawing Numbers 312261 and 312262, License Number N6274280RP00019, 336 Civil Engineering Squadron, Real Property Section, AAFB Guam;

196. **Portion of the Waterline Installed at the Start of Tarague Beach**, behind Oscar's Beach Bar up to the area next to Tarague Cave or the beginning of the Government of Guam property where the water meter is installed, Jinapsan Private Beach, Lot No. 9994;

197. **Maite Ejector Sewer Lift Station, Barrigada**, located on Lot Number 2053A-3-5A-R2 (private), said lot which contains an area of ±1,392 square meters as shown in Map/Instrument Number LM471FY70, Department of Land Management, Government of Guam;

//

//

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

198. **Deep Well A-02, Sinajana**, located on Lot Number 3232-NEW-R8 (private), said lot which contains an area of ±17,822.66 square meters as shown in Document Number 77715, Department of Land Management, Government of Guam;

199. **Deep Well A-07, Sinajana**, located on Lot Number 3232-N-2 (private), said lot which contains an area of ±18,704.20 square meters as shown in Document Number 77715, Department of Land Management, Government of Guam;

200. **Deep Well A-08, Sinajana**, located on Lot Number 3255-5-4 (private), said lot which contains an area of ±929 square meters as shown in Map/Instrument Number LM334FY80, Document Number 96622, Department of Land Management, Government of Guam;

201. **Flora Pago Gardens Sewer Lift Station, Sinajana**, located on Lot Number 3235-2-4NEW-R2 (private), said lot which contains an area of ±25,783 square meters as shown in Map/Instrument Number LM175FY90, Department of Land Management, Government of Guam;

202. **Toto Gardens Sewer Lift Station, Sinajana**, located on Lot Number 145-3 (private), said lot which contains an area of ±2,800 square meters as shown in Map/Instrument Number LM308FY69, Department of Land Management, Government of Guam;

203. **Alupang Sewer Pump Station, Tamuning**, located on Lot Number 5172-3-R9NEW-NEW-R2 (private), said lot which contains an area of ±1,200 square feet as shown in Map/Instrument Number LM236FY94, Department of Land Management, Government of Guam;

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

204. **Brigade (BB3) Water Booster Pump Station, Yona**, located on Lot Number 90-3-R1 (private), said lot which contains an area of ±411,837 square meters as shown in Map/Instrument Number LM324FY77, Department of Land Management, Government of Guam;

205. **Manengon Hills Water Storage Reservoir & Pump Station, Yona**, located on Lot Number Phase 2, Tract 2511 (private), said lot which contains an area of ±4,256,731 square meters, as shown in Map/Instrument Number LM323FY96, Department of Land Management, Government of Guam.

TOGETHER with all and singular any improvements, riparian rights, littoral rights, watercourses, waters, water resources, streams, rivers, ponds, lakes, wells, pumps, stations, easements, water and sewer rights-of-ways, buildings, facilities, fixtures, tenements, privileges, hereditaments, appurtenances, reversions, remainders, rents, issues and profits thereof and therein, and all the estate, rights, title, interest, property, claim and demand of said Grantor, its successors and assigns, at law or in equity, in and to the same forever, subject to the laws of the Territory of Guam.

//

//

//

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

Additionally, Grantor does also grant, transfer, convey, and assign to Grantee, its successors, and assigns, all the estate, rights, title, interest, powers, property, claim and demand of Grantor, its successors and assigns, in the following property and interests, to hold the same in fee simple absolute forever, subject to the laws of the Territory of Guam:

> **Easements.** All known and identified public rights-of-ways and public easements of access, ingress, egress, maintenance, and repair, in and over the Territory of Guam, surface or subsurface, used or unused, together with all land connecting and running with any water or sewer systems, surface or subsurface, wherever situated. Said public rights-of-ways and public easements shall run with the land and the dominant estates thereof, and shall bind and inure to the benefit of the Grantee, its successors, and assigns in fee simple absolute forever.
>
> **Water Resources.** All waters, water or sewer resources, groundwaters, watercourses, streams, rivers, ponds, lakes, wells, aquifers, and water lenses of the Territory of Guam, surface and subsurface, tidal and non-tidal, navigable and non-navigable, inland and upland, together with any riparian rights, littoral rights, aquifer sectors, aquifer systems, water and aquifer management zones, tidelands, shorezones, accretions, alluvions, and surface or submerged lands and beds below or abutting, including to the low-water and high-water marks thereof, of any nature whatsoever and wherever situated, with any leases, options, improvements, buildings, facilities, easements, or rights-of-ways thereon, and any rights of reservation, intending said rights, powers and interests to be superior above all others, to bind and inure to the benefit of the Grantee, its successors, and assigns in fee simple absolute forever.

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

Northern Guam Lenses and Aquifers, Agana Sector, Fadian Sector, Mangilao Sector, Pati Sector, Tarague Sector, Finegayan Sector, and Yigo-Tumon Sector, including all aquifer basins, aquifer systems, and management zones, to bind and inure to the benefit of the Grantee, its successors, and assigns in fee simple absolute forever.

Public Lands. All government lands reserved for the future use of the government of Guam, wherever situated, including any surface or subsurface lands reserved by Guam Public Law 22-18, its exhibits, appendices, amendments, as well as the lots assigned to Grantee by the Chamorro Land Trust Commission in the companion Assignment to this Grant Deed, to bind and inure to the benefit of the Grantee, its successors, and assigns in fee simple absolute forever.

Grantee is expressly granted the right to enter upon any government or public property, territorial or federal, for the purpose of conducting exploratory well drilling activities and identifying viable water well sites, together with the right of temporary ingress and egress over and across these lands, said right which shall be superior above all others.

TOGETHER with all and singular any improvements, riparian rights, littoral rights, watercourses, waters, water resources, streams, rivers, ponds, lakes, wells, pumps, stations, easements, water and sewer rights-of-ways, buildings, facilities, fixtures, tenements, privileges, hereditaments, appurtenances, reversions, remainders, rents, issues and

profits thereof and therein, and all the estate, rights, title, interest, property, claim and demand of said Grantor, its successors and assigns, at law or in equity, in and to the same forever, subject to the laws of the Territory of Guam.

Grantee expressly acknowledges the provisions of 10 G.C.A. Sections 46101 *et. seq.* (Water Resources Conservation Act), 21 G.C.A. Sections 75101 *et. seq.* (Chamorro Land Trust Act), Public Law 22-145, Public Law 23-23, and Public Law 23-141. Grantee covenants that all provisions of these laws will be respected in accordance with the land disposal requirements of said laws.

Grantee further acknowledges and incorporates by reference herein Resolution Number 97-13, passed by the Board of Directors of the Guam Waterworks Authority on July 9, 1997. Grantee covenants that the declarations and decrees set forth in said Resolution will be respected. Grantee agrees to pay for the survey process of the real property interests identified herein.

All parties to this Grant Deed agree that the "real estate requirement survey map(s)" will be completed within five years from the date of the filing of this Grant Deed, unless an extension is granted by the Director of the Department of Land

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

Management and the Governor of Guam. All lots for which the "real estate requirement map(s)" has not been completed shall revert automatically to the Government of Guam.

The Department of Land Management covenants that for and on behalf of itself, the Government of Guam, and the departments, agencies, and commissions of the Government of Guam, it will initiate the normal inter-agency review process of the survey maps.

Grantee expressly reserves the exclusive right to determine its real estate requirements, both existing and future, subject only to the approval of the Department of Land Management and the Governor of Guam. However, it is specifically covenanted by Grantor that Grantee's determination of its real estate requirements will be respected and deferred to, and that said approvals shall not be unreasonably withheld.

Grantor expressly reserves the right to perform surveys to sever out parcels directed by law. At all times, however, Grantor will respect and honor the superior right of Grantee to go upon any lots or parcels and explore or sever out Grantee's portion first before all others, including Grantor.

All of the provisions, conveyances, grants, and descriptions contained in this Grant Deed and the companion

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

Assignment are distinct and severable, and if any provision, conveyance, grant, or description is deemed to be illegal, void, or unenforceable, it shall independently be severed herefrom and shall not affect the validity, legality, or enforceability of any other provision, conveyance, grant, description, or portion thereof.

WATER AND POWER (ELECTRICITY) ARE IMMEDIATELY AVAILABLE ON THE PROPERTIES OR WITHIN 100 FEET OF THE PROPERTIES.

IN WITNESS WHEREOF, I have hereunto set my hand this 23rd day of July, 1997.

GRANTOR:
GOVERNMENT OF GUAM

Dated: 7-23-97

By _____
CARL T.C. GUTIERREZ, Governor

DEPARTMENT OF LAND MANAGEMENT

By _____
CARL J.C. AGUON
Director

Dated: 7/22/97

//

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

APPROVED AS TO FORM:
ATTORNEY GENERAL OF GUAM
CALVIN E. HOLLOWAY, SR.

By _____
GUS F. DIAZ
Acting Attorney General of Guam

Dated: 7/22/97

GRANTEE:
GUAM WATERWORKS AUTHORITY

Dated: 7-21-97

By _____
EDWARD M. CALVO, Chairman
Board of Directors

APPROVED AS TO FORM:
MAIR, MAIR, SPADE & THOMPSON
Attorneys for Guam Waterworks Authority

By _____
SANDRA E. CRUZ

Dated: July 21, 1997

//

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

TERRITORY OF GUAM)
) ss:
CITY OF AGANA)

On this _____ day of July, 1997, before me, the undersigned notary, personally appeared, **CARL T.C. GUTIERREZ**, the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose as Governor of Guam for the Territory of Guam.

)SEAL(NOT REQUIRED OR NECESSARY

//
//
//
//
//
//
//
//

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

TERRITORY OF GUAM)
) ss:
CITY OF AGANA)

On this 22nd day of July, 1997, before me, the undersigned notary, personally appeared, **CARL J.C. AGUON**, the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose as the Director of the Department of Land Management, Government of Guam.

)SEAL(C Quitugua

CHRISTINE M. QUITUGUA
NOTARY PUBLIC
In and for the Territory of Guam, U.S.A.
My Commission Expires: Jan 15, 2001
P. O. Box 2950 Agana, Guam 96932

~~TERRITORY OF GUAM)~~
~~) ss:~~
~~CITY OF AGANA)~~

~~On this _____ day of July, 1997, before me, the undersigned notary, personally appeared, **GUS F. DIAZ**, the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose on behalf of Calvin E. Holloway, Sr., and as the legal counsel for the Government of Guam, the Department of Land Management, and as the Acting Attorney General for the Territory of Guam.~~

~~)SEAL(~~ NOT REQUIRED OR NECESSARY

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

TERRITORY OF GUAM)
) ss:
CITY OF AGANA)

On this 21st day of July, 1997, before me, the undersigned notary, personally appeared, **EDWARD M. CALVO**, the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose as the Chairman of the Board of Directors of Guam Waterworks Authority, Government of Guam.

)SEAL(

Elsie C. Souder

ELSIE C. SOUDER
NOTARY PUBLIC
In and for the Territory of Guam U.S.A.
My Commission Expires: JUNE 13, 1999
P. O. Box 1651 Agana, Guam 96910

TERRITORY OF GUAM)
) ss:
CITY OF AGANA)

On this 21st day of July, 1997, before me, the undersigned notary, personally appeared, **SANDRA E. CRUZ**, the person whose name is signed on the preceding or attached document, and acknowledged to me that she signed it voluntarily for its stated purpose as the legal counsel for the Guam Waterworks Authority, Government of Guam.

)SEAL(

Elsie C. Souder

ELSIE C. SOUDER
NOTARY PUBLIC
In and for the Territory of Guam U.S.A.
My Commission Expires: JUNE 13, 1999
P. O. Box 1651 Agana, Guam 96910

MS97531c

TERRITORY OF GUAM, DEPARTMENT OF LAND MANAGEMENT
OFFICE OF THE RECORDER
DOCUMENT NUMBER 567698
This instrument was filed for record on the 25
Day of July, 97 at 1136 O'Clock
and duly recorded in Book
Recorded
DE-OFFICIO
Deputy Recorder

FOR)
THE)
DEPARTMENT)
OF)
LAND)
MANAGEMENT)

(Space above this line for Recorder's use only)

RECEIVED
JUL 25 1997
CUNLIFFE & COOK

ASSIGNMENT

TO ALL WHOM THESE PRESENTS MAY COME, GREETINGS:

It is declared in 10 G.C.A. Sections 45102, 46101, 47102, 52102, and 53012, and in Public Laws 22-47 and 22-28, that it is the policy of the Government of Guam that the public health and welfare mandates that the water resources of Guam shall be protected from environmental degradation and pollutants of any kind. As expressed in said statutes and laws, it is the duty of the Government of Guam to safeguard the conservation and development of Guam's limited water resources for all inhabitants of Guam. To this end, Public Law 20-06:7 provides that all surface waters and ground waters are public assets and that first priority for utilization of any waters shall be for the use or resale of the Guam Waterworks Authority (GWA).

It is recognized that pursuant to Public Law 23-119, GWA was required to assume in writing from the Government of Guam and the Public Utility Agency of Guam (PUAG) all real property

Assignment
Chamorro Land Trust Commission, Assignor
Guam Waterworks Authority, Assignee

under PUAG's administration and any items of property, materials, and supplies which PUAG owned or controlled, including construction work in progress. Under Public Law 23-119, the transfer of real property interests to GWA, including but not limited to, fee estates, easements and land use rights evidenced by easements, leases, and licenses are required to be filed in the form of deeds or assignments signed by the Governor of Guam in good form at the Department of Land Management (DLM). To this end, GWA has accepted a Grant Deed from the Government of Guam. The Grant Deed is a companion document to this Assignment. However, the two documents shall be construed independently.

Several of the real property interests contemplated by Public Law 23-119 include portions of properties that have previously been reserved for use by other public agencies, and said properties are, and continue to be, unsurveyed, undivided, and unregistered. It is in the best interests of all public agencies and the people of the Territory of Guam that said properties be surveyed, divided, and registered. However, it is critical to the public health and welfare of the people that any survey or division of land within the Territory of Guam be accomplished only after due consideration for future

Assignment
Chamorro Land Trust Commission, Assignor
Guam Waterworks Authority, Assignee

infrastructure development and environmental and wildlife protection.

Pursuant to 21 G.C.A. Section 60103, DLM has cognizance of all government real property. Pursuant to 21 G.C.A. Section 75105, the Chamorro Land Trust Commission (CLTC) has control over all Chamorro Homelands. With the approval of the Governor of Guam, DLM, and CLTC are charged with exercising their duties to the agencies and departments of the government of Guam in a fair and impartial manner.

In furtherance of their common mission to serve the people and Territory of Guam, CLTC, GWA, and DLM are willing to work together and assume on behalf of the government and people of Guam, the laborious and financial burden of initiating a survey and division of any reserved or public properties. Assignee agrees to pay for the survey process of the real properties identified herein.

With particular respect to land distributions by CLTC, GWA pledges to extend all efforts to cooperate and coordinate with CLTC so that the distributions are fairly made pursuant to Guam law. It is recognized that legal counsel for GWA has been authorized to initiate the process of surveying, dividing, and registering any and all of the conveyed property interests, and

Assignment
Chamorro Land Trust Commission, Assignor
Guam Waterworks Authority, Assignee

that there is established an office and division within GWA for the purposes of managing the real property interests of GWA.

In recognition and furtherance of these stated policies and duties, therefore, and pursuant to the authority of Public Law 23-119 (12 G.C.A. Section 14115), Public Law 22-18, and the provisions of 10 G.C.A. Section 46101, 21 G.C.A. Section 1202, and 21 G.C.A. Sections 9202 and 9203, the Chamorro Land Trust Commission (hereinafter "ASSIGNOR"), on behalf of itself, for TEN DOLLARS ($10.00) plus other good and valuable consideration, the receipt of which is hereby acknowledged, does hereby assign and transfer to the Guam Waterworks Authority, a public corporation and autonomous instrumentality of the Government of Guam (hereinafter "ASSIGNEE"), all of the following interests, and portions thereof, as specified below:

1. The Water Booster Pump Station (WBP-2), Agat/Umatac (1.0 mg) Reservoir, and Wells located on **Tract "FA," Agat**, which lot contains an area of ±229.66 hectares, as shown in Map/Instrument Drawing Number E4-66T640, Department of Land Management, Government of Guam;

2. The Deep Wells M-17A, M17B, M-20A, and Wells located on **Lot 5382, Barrigada**, which lot contains an area of ±833,450.36 square meters as shown in Map/Instrument Drawing Number C4-54T308, Department of Land Management, Government of Guam;

Assignment
Chamorro Land Trust Commission, Assignor
Guam Waterworks Authority, Assignee

3. The Deep Wells D-12, D-13, and Wells located on **Lot 10120-R16, Dededo**, which lot contains an area of ±2,168,348.92 square meters, as shown in Map/Instrument Number LM103FY91, Document Number 450102 Department of Land Management, Government of Guam;

4. The Deep Wells D-07, D-08, D-10, Y-12, and Wells located on **Lot 10122-R18, Dededo**, which lot contains an area of ±1,712,915 square meters, as shown in Map/Instrument Number LM398FY88, Document Number 436089, Department of Land Management, Government of Guam;

5. The Proven Viable Water Source and Wells located on **Lot 10125-1-2, Dededo**, which lot contains an area of ±929 square meters, as shown in Map/Instrument Number LM464FY91, Document Number 464796, Department of Land Management, Government of Guam;

6. The Deep Well D-23 and Wells located on **Lot 10125-3, Dededo**, which lot contains an area of ±202,839 square meters as shown in Map/Instrument Number LM151FY86, Document Number 377138, Department of Land Management, Government of Guam;

7. The Deep Well D-24 and Wells located on **Lot 10125-4-R1, Dededo**, which lot contains an area of ±4.53 acres as shown in Map/Instrument Number LM339FY87, Document Number 517147, Department of Land Management, Government of Guam;

//

//

Assignment
Chamorro Land Trust Commission, Assignor
Guam Waterworks Authority, Assignee

8. The Proven Viable Water Source and Wells located on **Lot 10125-4-1, Dededo**, which lot contains an area of ±4.21 acres as shown in Map/Instrument Number LM339FY87, Document Number 517147, Department of Land Management, Government of Guam;

9. The Deep Well F-15 and Wells located on **Lot 10141-1-1, Dededo**, which lot contains an area of ±10.08 acres as shown in Map/Instrument Number LM339FY87, Document Number 517147, Department of Land Management, Government of Guam;

10. The Deep Well F-08 and Wells located on **Lot 10141-2, Dededo**, which lot contains an area of ±293 square meters as shown in Map/Instrument Number LM163FY86, Document Number 378729, Department of Land Management, Government of Guam;

11. The Deep Well HCG-03 and Wells located on **Lot 10148, Dededo**, which lot contains an area of ±48.90 hectares, as shown in Map/Instrument Number LM281FY82, Department of Land Management, Government of Guam;

12. The YsengSong #1 (1.0 mg) Water Storage Reservoir, the YsengSong #2 (2.0 mg) Water Storage Reservoir, and Wells located on **Lot 10150, Dededo**, which lot contains an area of ±6,178 square meters, as shown in Map/Instrument Number LM142FY81, Document Number 323946, Department of Land Management, Government of Guam;

//

//

Assignment
Chamorro Land Trust Commission, Assignor
Guam Waterworks Authority, Assignee

13. The Inarajan (.20 mg) Water Storage Reservoir and Wells located on **Lot 354-R4, Inarajan**, which lot contains an area of ±18.75 hectares, as shown in Map/Instrument Number LM207FY82, Department of Land Management, Government of Guam;

14. The Water Storage Tank, Malojloj Elevated Reservoir, Malojloj Office Facility, and Wells located on **Lot 382-R1, Inarajan**, which lot contains an area of ±1,233,321 square meters as shown in Map/Instrument Number LM342FY89, Document Number 421325, Department of Land Management, Government of Guam;

15. The Deep Wells F-16, F-17, F-18, and Wells located on **Lot 10090-1, Machanao**, which lot contains an area of ±25.92 hectares, as shown in Map/Instrument Number LM130FY76, Document Number 261662, Department of Land Management, Government of Guam;

16. The Pago Double Shaft Sewer Pump Station and Wells located on **Lot 3323-2, Pago Bay**, which lot contains an area of ±6,450 square meters as shown in Map/Instrument Number LM435FY90, Document Number 446110, Department of Land Management, Government of Guam;

17. The Water Storage Reservoirs, Deep Well Y-15, and Wells located on **Lot 7116-1-R2, Yigo,** which lot contains an area of ±50,332 square meters, as shown in Map/Instrument Number LM277FY84, Document Number 357633, Department of Land Management, Government of Guam;

//

Assignment
Chamorro Land Trust Commission, Assignor
Guam Waterworks Authority, Assignee

18. The Santa Rosa Water Booster Pump Station and Wells located on **Lot 7117-4, Yigo**, which lot contains an area of ±357,751.88 square meters, as shown in Map/Instrument Drawing Number E4-71T686, Department of Land Management, Government of Guam; and

19. The Mataguac Booster (WBP-13) and Chiguian Booster (WBP-18) Pump Stations, the Yigo (2.5 mg) Water Storage Reservoir, the Yigo (0.5 mg) Reservoir, and Wells located on **Lot 7150-R4NEW-R8, Yigo,** which lot contains an area of ±501,263 square meters, as shown in Map/Instrument Number LM504FY89, Document Number 433410, Department of Land Management, Government of Guam.

To have to hold unto Assignee, its successors and assigns, at law or in equity, in and to the same forever, including possession thereto.

With regard to the following properties identified below, Assignor assigns and transfer all of the rights reserved by the former Public Utility Agency of Guam under Public Law 22-18. Upon Assignee's determination of the specific portions needed by the reservation of Public Law 22-18, Assignor will further transfer said reserved portions in the following properties to Assignee by deed:

20. **Lot 5369-1-7, Barrigada**, which lot contains an area of ±1,137 square meters, as shown in Map/Instrument Number 77251, Document Number 77251, Department of Land Management, Government of Guam;

Assignment
Chamorro Land Trust Commission, Assignor
Guam Waterworks Authority, Assignee

21. **Lot 10125-1-1, Dededo**, which lot contains an area of ±1,137 square meters, as shown in Map/Instrument Number 77251, Document Number 77251, Department of Land Management, Government of Guam;

22. **Lot 10171, Dededo**, which lot contains an area of ±50.83 hectares, as shown in Map/Instrument Number LM418FY91, Document Number 468100, Department of Land Management, Government of Guam;

23. **Lot 1, Inarajan**, which lot contains an area of ±984,531 square meters, as shown in Map/Instrument Number LM461FY94, Document Number 524533, Department of Land Management, Government of Guam;

24. **Lot 5403-R4, Mangilao**, which lot contains an area of ±209,597 square meters, as shown in Map/Instrument Number LM217FY93, Department of Land Management, Government of Guam;

25. **Lot 5403-1, Mangilao**, which lot contains an area of ±73,523 square meters, as shown in Map/Instrument Number LM217FY93, Document Number 520841, Department of Land Management, Government of Guam;

26. **Lot 286, Piti**, which lot contains an area of ±61.71 hectares, as shown in Map/Instrument Number LM229FY91, Document Number 475062, Department of Land Management, Government of Guam;

27. **Lot 421, Talofofo**, which lot contains an area of ±32.22 hectares, as shown in Map/Instrument Number LM163FY93, Document Number 522918, Department of Land Management, Government of Guam;

Assignment
Chamorro Land Trust Commission, Assignor
Guam Waterworks Authority, Assignee

28. **Lot 7055, Yigo**, which lot contains an area of ±11.8 hectares, as shown in Map/Instrument Drawing Number LM296FY35C, Department of Land Management, Government of Guam;

29. **Lot 7116-1-2-R2, Yigo,** which lot contains an area of ±8,208 square meters, as shown in Map/Instrument Number LM358FY88, Department of Land Management, Government of Guam;

30. **Lot 7116-1-2-1, Yigo,** which lot contains an area of ±12,253 square meters, as shown in Map/Instrument Number LM358FY88, Document Number 418879, Department of Land Management, Government of Guam;

31. **Lot 7116-3, Yigo,** which lot contains an area of ±25.60 acres, as shown in Map/Instrument Number SK# 1605, LM Sketch 1605, Department of Land Management, Government of Guam; and

32. **Lot 153-R1, Yona**, which lot contains an area of ±74,803 square meters, as shown in Map/Instrument Drawing Number D4-72T233, Document Number 105960, Department of Land Management, Government of Guam.

To have to hold unto Assignee, its successors and assigns, at law or in equity, in and to the same forever, including possession thereto.

Assignee and Assignor expressly acknowledge the provisions of 10 G.C.A. Sections 46101 *et. seq.* (Water Resources Conservation Act), 21 G.C.A. Sections 75101 *et. seq.* (Chamorro

Assignment
Chamorro Land Trust Commission, Assignor
Guam Waterworks Authority, Assignee

Land Trust Act), Public Law 20-06:7, Public Law 22-18, Public Law 22-145, Public Law 23-23, and Public Law 23-141. Assignee and Assignor covenant that all provisions of these laws will be respected in accordance with the land disposal requirements of said laws.

Assignee acknowledges and incorporates by reference herein Resolution Number 97-13, passed by the Board of Directors of the Guam Waterworks Authority on July 9, 1997. Assignee covenants that the declarations and decrees set forth in said Resolution will be respected.

It is understood that DLM will initiate the normal inter-agency review process of the survey maps. The "real estate requirement map(s)" of Assignee are subject to the approval of DLM, Assignor, and the Governor of Guam, however, it is specifically covenanted by Assignor that its approval shall not be unreasonably withheld.

Assignee expressly reserves the exclusive right to determine its real estate requirements, both existing and future. Pursuant to Public Law 22-18(d)(iv), Assignor acknowledges that Assignee is authorized to conduct exploratory

well drilling activities within any government property for the purpose of identifying viable water well sites, the identification of which shall subordinate any other uses.

It is agreed that Assignor, Assignee, and DLM will enter into a detailed administrative agreement which specifies with particularity the terms, conditions, and scope of the survey and mapping process.

All of the assignments, transfers, provisions, and lot descriptions contained in this Assignment and the companion Grant Deed are distinct and severable, and if any assignment, transfer, provision, or lot description is deemed to be illegal, void, or unenforceable, it shall independently be severed herefrom and shall not affect the validity, legality, or enforceability of any other assignment, transfer, provision, lot description, or portion thereof.

WATER AND POWER (ELECTRICITY) ARE IMMEDIATELY AVAILABLE ON THE PROPERTIES OR WITHIN 100 FEET OF THE PROPERTIES.

//

//

//

//

Assignment
Chamorro Land Trust Commission, Assignor
Guam Waterworks Authority, Assignee

IN WITNESS WHEREOF, I have hereunto set my hand this 24th day of July, 1997.

ASSIGNOR:
CHAMORRO LAND TRUST COMMISSION

Dated: JULY 24, 1997

By _____
JOSEPH M. BORJA
Administrative Director

ATTESTED BY:

_____
CARL T.C. GUTIERREZ
Governor of Guam

Dated: 7-23-97

//

//

//

Assignment
Chamorro Land Trust Commission, Assignor
Guam Waterworks Authority, Assignee

APPROVED AS TO FORM:
CUNLIFFE & COOK, P.C.
Attorneys for Chamorro Land Trust Commission

By _____
F. RANDALL CUNLIFFE
Dated: 7/25/97

ASSIGNEE:
GUAM WATERWORKS AUTHORITY

Dated: 7-21-97

By _____
EDWARD M. CALVO, Chairman
Board of Directors

//
//
//
//

Assignment
Chamorro Land Trust Commission, Assignor
Guam Waterworks Authority, Assignee

TERRITORY OF GUAM)
) ss:
CITY OF AGANA)

On this 24th day of July, 1997, before me, the undersigned notary, personally appeared, **JOSEPH M. BORJA**, the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose as the Administrative Director for the Chamorro Land Trust Commission.

)SEAL(

Elsie C. Souder

ELSIE C. SOUDER
NOTARY PUBLIC
In and for the Territory of Guam U.S.A.
My Commission Expires: JUNE 13, 1999
P. O. Box 1651 Agana, Guam 96910

TERRITORY OF GUAM)
) ss:
CITY OF AGANA)

On this 25th day of July, 1997, before me, the undersigned notary, personally appeared, **F. RANDALL CUNLIFFE**, the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose as the legal counsel for the Chamorro Land Trust Commission.

)SEAL(

Ryta B. Barcinas

RYTA B. BARCINAS
NOTARY PUBLIC
In and for the Territory of Guam, U.S.A.
My Commission Expires: Sept. 14, 1997
P. O. Box 4766 Agana, Guam 96932

//

Assignment
Chamorro Land Trust Commission, Assignor
Guam Waterworks Authority, Assignee

TERRITORY OF GUAM)
) ss:
CITY OF AGANA)

On this _____ day of July, 1997, before me, the undersigned notary, personally appeared, **CARL T.C. GUTIERREZ**, the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose as the Governor of Guam for the Territory of Guam.

)SEAL(_____

TERRITORY OF GUAM)
) ss:
CITY OF AGANA)

On this 21st day of July, 1997, before me, the undersigned notary, personally appeared, **EDWARD M. CALVO**, the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose as the Chairman of the Board of Directors of Guam Waterworks Authority, Government of Guam.

)SEAL(_____ Elsie C. Souder

ELSIE C. SOUDER
NOTARY PUBLIC
In and for the Territory of Guam U.S.A.
My Commission Expires: JUNE 13, 1999
P. O. Box 1651 Agana, Guam 96910

MS97575

Exhibit B (1 of 1)

GUAM WATERWORKS AUTHORITY
Gloria B. Nelson Public Service Building • 688 Route 15 • Mangilao, Guam 96913

April 24, 2017

To: Thomas F. Cruz, P.E., Chief Engineer

From: Gloria P. Bensan
Chairperson, Consultant Selection Board

Subject: RFP-03-ENG-2017
Professional Survey Services for the GWA Islandwide Real Property Survey and Mapping – Phase II
GWA Project No. M17-001-BND

The following information is intended to document the evaluation process undertaken for the referenced solicitation.

EVALUATION COMMITTEE MEMBERS	
Name	**Title**
Clinton Huntington II	Senior Engineer
Garrett Yeoh	Senior Engineer
Rodney Toves	GIS/LIS Manager
Bobbie Cruz	Land Agent III

Consultant	Evaluation Score				Total	Rank
1. AECOM	81	86	85	40	292	4
2. Guam Surveyor, LLC	96	92	95	80	363	2
3. Duenas, Camacho & Associates, Inc.	87	88	100	95	370	1
4. TG Engineers, PC	91	86	90	90	357	3

Scores were evaluated based on sum of the individual scores. The recommendation of the evaluation committee is shown in the ranking above.

Please review and approve at your earliest convenience so that we may proceed with the notification letters.

Exhibit C (1 of 1)

GUAM WATERWORKS AUTHORITY
"Better Water. Better Lives."
Gloria B. Nelson Public Service Building
688 Route 15, Mangilao, Guam 96913

MEMORANDUM

To: Miguel C. Bordallo, P.E., General Manager

From: Thomas F. Cruz, P.E., Chief Engineer

Subject: RFP-03-ENG-2017
Professional Survey Services for the GWA Islandwide Real Property Survey and Mapping – Phase II
GWA Project No. M17-001-BND

Date: April 24, 2017

The Selection Committee has completed all necessary actions for selecting the most qualified consultant for the referenced solicitation. All proposals were reviewed and scored according to the conditions established in the solicitation. The evaluation summary sheet is attached for your information.

The committee recommends the following top three (3) firms in order of preference for the project:

1. Duenas, Camacho & Associates
2. Guam Surveyor, LLC
3. TG Engineers, PC

Concurred:

VINCENT E. GUERRERO
Supply Management Administrator

April 24 2017
Date

GENERAL MANAGER'S DETERMINATION

Consultant Firm Selected:

Duenas, Camacho & Assoc.

Remarks:

MIGUEL C. BORDALLO, P.E.
General Manager

4-24-17
Date

Exhibit D (1 of 4)

DUEÑAS · CAMACHO & ASSOCIATES, INC.
Website: www.dcaguam.com
Email: dca@dcaguam.com

May 15, 2017

Guam Waterworks Authority
Gloria B. Nelson Public Service Building
688, Route 15, Mangilao, Guam 96913

Attention: Bobbie C. Cruz
Land Agent III

Subject: GWA Island-Wide Real Property Survey & Mapping Phase II
GWA Project No. M17-001-BND

Re: Effort and Fee Estimate for the Survey & Mapping for Ninety Three (93) Properties

As requested, enclosed is the original copy of our effort and fee estimate for the survey and mapping of ninety three (93) properties identified in a list furnished to DCA.

Please contact me or Frank Songsong, Jr. at 477-7991 or via email if you have any questions. We look forward to discussing the detail of the effort and fee estimate if needed.

Sincerely,

Nestorio C. Ignacio

NESTORIO C. IGNACIO, PLS
Chief of Surveys
Duenas, Camacho & Associates, Inc.

Exhibit D (2 of 4)

GWA RFP-03-ENG-2017
PROFESSIONAL SURVEY SERVICES FOR GWA ISLANDWIDE
REAL PROPERTY SURVEY AND MAPPING - PHASE II
GWA PROJECT NO. M017-001-BND

SUMMARY OF COST ESTIMATES
SURVEYING AND MAPPING OF 93 PARCELS

RETRACEMENT SURVEY AND MAPPING

NO.	LOT NUMBER	CADASTRAL REQUIREMENTS	COST
1	1, BLOCK 5, TRACT 299, WSR, (PROPOSED) DEDEDO / YIGO	RETRACEMENT SURVEY & MAPPING	$13,806.45
2	10150, WSR, DEDEDO	RETRACEMENT SURVEY & MAPPING	$12,022.42
3	10154-2, DW AG-02A, DEDEDO / YIGO	RETRACEMENT SURVEY & MAPPING	$10,409.07
4	112-1, BLOCK 12, SL5, INARAJAN	RETRACEMENT SURVEY & MAPPING	$8,769.94
5	116-1-1, SPS, INARAJAN	RETRACEMENT SURVEY & MAPPING	$7,890.89
6	15, BLOCK 2 TRACT 240, DW F-06, DEDEDO	RETRACEMENT SURVEY & MAPPING	$8,786.04
7	152-1G, SPS, UMATAC	RETRACEMENT SURVEY & MAPPING	$10,177.02
8	154, TRACT 14114, SPS, DEDEDO	RETRACEMENT SURVEY & MAPPING	$8,194.29
9	163-NEW-1G, BPS, YONA	RETRACEMENT SURVEY & MAPPING	$7,448.62
10	1G, BLOCK 12, TRACT 3241, WBP, UMATAC	RETRACEMENT SURVEY & MAPPING	$8,901.91
11	203-3, WBP, INARAJAN	RETRACEMENT SURVEY & MAPPING	$8,180.96
12	2062 PART-2, WSR	RETRACEMENT SURVEY & MAPPING	$10,751.04
13	2122-1REM-3-1, SLS, TAMUNING (BAYSIDE PUMP STATION)	RETRACEMENT SURVEY & MAPPING	$7,332.40
14	3, BLOCK 1, TRACT 240, DW-F-07, DEDEDO	RETRACEMENT SURVEY & MAPPING	$8,432.13
15	3255-5-4, DW A-08 CHALAN PAGO-ORDOT	RETRACEMENT SURVEY & MAPPING	$10,132.00
16	3262-1A-1, SPS CHALAN PAGO-ORDOT	RETRACEMENT SURVEY & MAPPING	$5,726.40
17	3339-5-1G, DW A-13 CHALAN PAGO - ORDOT	RETRACEMENT SURVEY & MAPPING	$8,635.52
18	361-10 (FORMERLY 361-4G) WBPS, INARAJAN	RETRACEMENT SURVEY & MAPPING	$5,898.56
19	407-1, SPRINGS RESERVOIR & WBP, ASAN	RETRACEMENT SURVEY & MAPPING	$10,294.32
20	477-1, WSR, ROUTE 2, AGAT	RETRACEMENT SURVEY & MAPPING	$11,634.70
21	4NEW-12B, BLOCK 1, TRACT 314, SLS, DEDEDO	RETRACEMENT SURVEY & MAPPING	$4,957.91
22	4NEW-18B, BLOCK 1, TRACT 314, SLS, DEDEDO	RETRACEMENT SURVEY & MAPPING	$4,957.91
23	4NEW-9B, BLOCK 2, TRACT 314, SLS, DEDEDO	RETRACEMENT SURVEY & MAPPING	$5,029.81
24	5024-1-R1NEW-2 (5024-1-1) SPS, HARMON, DEDEDO	RETRACEMENT SURVEY & MAPPING	$7,808.57
25	5120-5NEW-R3NEW, GWA OFFICE, UPPER TUMON	RETRACEMENT SURVEY & MAPPING	$12,147.14
26	5139-1-R4, SPS, MAMAHANAO, TAMUNING	RETRACEMENT SURVEY & MAPPING	$7,841.28
27	53-1, WSR, UMATAC	RETRACEMENT SURVEY & MAPPING	$11,953.42
28	5401 NORTH-1, SPS, ADACAO, MANGILAO	RETRACEMENT SURVEY & MAPPING	$7,456.27
29	5401 NORTH-2, SPS, ADACAO, MANGILAO	RETRACEMENT SURVEY & MAPPING	$7,312.47
30	69, SPS, ASAN-PITI	RETRACEMENT SURVEY & MAPPING	$6,930.33
31	90-8-1, WSR, YONA	RETRACEMENT SURVEY & MAPPING	$10,874.40
32	BLOCK 17, TRACT 1314, SPS, ROYAL GARDENS, TAMUNING	RETRACEMENT SURVEY & MAPPING	$7,294.53
33	P19.1B-4, DW A-05, AFAME, SINAJANA	RETRACEMENT SURVEY & MAPPING	$7,018.33
34	P19.5-3-1, DW A-06, SINAJANA	RETRACEMENT SURVEY & MAPPING	$8,389.13
35	PARCEL "A", BPS, MATALA, INARAJAN	RETRACEMENT SURVEY & MAPPING	$6,278.99
36	ROAD LOT 2B, TRACT 5312, DW, DEDEDO	RETRACEMENT SURVEY & MAPPING	$7,042.33
		SUBTOTAL=	**$306,717.50**

PARCELING SURVEY AND MAPPING

NO.	LOT NUMBER	CADASTRAL REQUIREMENTS	COST
37	1, SEWER PUMP STATION, MERIZO	PARCELING SURVEY & MAPPING	$11,148.58
38	1, TRACT 1112, DW D-23, DEDEDO	PARCELING SURVEY & MAPPING	$10,660.51
39	10090-1, DW F16, F17, F18, F15	PARCELING SURVEY & MAPPING	$16,986.28
40	10120, DW D-09, DEDEDO	PARCELING SURVEY & MAPPING	$13,210.81
41	10120-R38-DW D-12, D-13, DEDEDO	PARCELING SURVEY & MAPPING	$14,488.87

Exhibit D (3 of 4)

42	10122-R18, DW D-07, D-08, D-10, Y-12, DEDEDO	PARCELING SURVEY & MAPPING	$17,501.88
43	10125-4-R1, DW D-24, DEDEDO	PARCELING SURVEY & MAPPING	$11,409.75
44	10154-5, DW-AG-03, AG-04, DEDEDO, YIGO	PARCELING SURVEY & MAPPING	$14,132.73
45	14, BLOCK 1 TRACT 109, DWA-16, BARRIGADA	PARCELING SURVEY & MAPPING	$11,430.49
46	145-3, SLS, MONGMONG-TOTO	PARCELING SURVEY & MAPPING	$11,522.40
47	152, TRACT 14114, PONDING BASIN, DEDEDO	PARCELING SURVEY & MAPPING	$11,077.36
48	152-1G, RIVER DIVERSION, MERIZO	PARCELING SURVEY & MAPPING	$15,438.37
49	17, TRACT 310, STP, PAGO BAY ESTATES, CHALAN PAGO	PARCELING SURVEY & MAPPING	$10,406.29
50	182-1, SPS, UMATAC	PARCELING SURVEY & MAPPING	$7,203.13
51	2053A-3-5A-NEW-R2, SLS, MONGMONG-TOTO-MAITE	PARCELING SURVEY & MAPPING	$5,725.08
52	2417-1-R6, DW A-17, MANGILAO (PUBLIC HEALTH)	PARCELING SURVEY & MAPPING	$14,328.06
53	253-R2, WSR, UMATAC	PARCELING SURVEY & MAPPING	$17,437.65
54	292-7-1 & BULL CART TRAIL	PARCELING SURVEY & MAPPING	$14,860.33
55	3395-R2, DW A-11, CHALAN PAGO - ORDOT	PARCELING SURVEY & MAPPING	$12,732.17
56	354-R6, WSR, INARAJAN	PARCELING SURVEY & MAPPING	$14,119.97
57	439-R1, WSR (PROPOSED), SANTA RITA - PITI	PARCELING SURVEY & MAPPING	$16,577.80
58	469-R1, WSR (PROPOSED), ASAN	PARCELING SURVEY & MAPPING	$15,886.57
59	5115-1-3-R2, SPS, TUMON	PARCELING SURVEY & MAPPING	$11,308.10
60	5133-1-R2, DEEP WELL, TAMUNING	PARCELING SURVEY & MAPPING	$12,050.79
61	5166-1-R7-1, SPS, TAMUNING	PARCELING SURVEY & MAPPING	$9,696.91
62	5172-3-R9NEW-NEW-R2, SPS, TAMUNING	PARCELING SURVEY & MAPPING	$5,813.52
63	5382 PORTION DWM-17A, M17B, M-20A	PARCELING SURVEY & MAPPING	$17,229.10
64	5402-R5-NEW-R2, MANGILAO	PARCELING SURVEY & MAPPING	$43,895.76
65	7022-2, DW Y-05, SIMON SANCHEZ HIGH SCHOOL, YIGO	PARCELING SURVEY & MAPPING	$11,386.00
66	70, BLOCK 10, TRACT 232, SLS, GHURA, SINAJANA	PARCELING SURVEY & MAPPING	$10,228.63
67	95-2A-NEW-R2, TRACT 2913, SPS, WINDWARD HILLS, YONA	PARCELING SURVEY & MAPPING	$13,788.69
68	9-R7, BLOCK 1, TRACT 212 DW MJ-01, INARAJAN	PARCELING SURVEY & MAPPING	$12,402.28
69	BLOCK 9A, DEDEDO VILLAGE EXTENSION, DW-D14, DEDEDO	PARCELING SURVEY & MAPPING	$8,840.15
70	PONDING BASIN "A" SPS, SUNRISE VILLA, MANGILAO	PARCELING SURVEY & MAPPING	$10,262.92
71	TARAGUE NATURAL WELLS BDRY (AJJY), DWAG-01, AAFB DW-S	PARCELING SURVEY & MAPPING	$15,042.05
		SUBTOTAL=	**$470,229.98**
	LAND REGISTRATION SURVEY AND MAPPING		
NO.	**LOT NUMBER**	**CADASTRAL REQUIREMENTS**	**COST**
72	100, SPS, MERIZO	LAND REGISTRATION SURVEY & MAPPING	$7,610.60
73	10141-1-1, DW F15 (NOT EXISTING)	LAND REGISTRATION SURVEY & MAPPING	$9,339.76
74	10141-2, DW F08, YSENGSONG, DEDEDO	LAND REGISTRATION SURVEY & MAPPING	$6,117.25
75	10141-R4	LAND REGISTRATION SURVEY & MAPPING	$13,569.93
76	153-R1, SPS, UMATAC	LAND REGISTRATION SURVEY & MAPPING	$10,371.42
77	248-2, WSR, WBP, AGAT	LAND REGISTRATION SURVEY & MAPPING	$11,970.37
78	258-R1, STP, UMATAC	LAND REGISTRATION SURVEY & MAPPING	$17,138.71
79	260-G, SPS, UMATAC	LAND REGISTRATION SURVEY & MAPPING	$10,160.90
80	275, WBP, WSR (PRPOPOSED), UMATAC	LAND REGISTRATION SURVEY & MAPPING	$17,256.49
81	3323-1 (DW RESERVED), CHALAN PAGO-ORDOT	LAND REGISTRATION SURVEY & MAPPING	$8,590.52
82	3375-1, DW-A-04, CHALAN PAGO-ORDOT	LAND REGISTRATION SURVEY & MAPPING	$7,187.69
83	3376-1, DW A-04, CHALAN PAGO - ORDOT	LAND REGISTRATION SURVEY & MAPPING	$9,234.92
84	3463, WSR (PROPOSED), SINAJANA	LAND REGISTRATION SURVEY & MAPPING	$16,940.39
85	3471, SPS, CHALAN PAGO-ORDOT	LAND REGISTRATION SURVEY & MAPPING	$11,868.90
86	400-1-2NEW, WSR (PROPOSED), YONA	LAND REGISTRATION SURVEY & MAPPING	$15,424.33
87	455, WBP, AGAT	LAND REGISTRATION SURVEY & MAPPING	$11,883.09
88	495, WSR (PROPOSED), NIMITZ HILL, ASAN	LAND REGISTRATION SURVEY & MAPPING	$15,761.22
89	5174-C-R3, SPS IPAO PARK TAMUNING	LAND REGISTRATION SURVEY & MAPPING	$11,585.64
90	523, WATER DAM, MERIZO	LAND REGISTRATION SURVEY & MAPPING	$22,213.82

Exhibit D (4 of 4)

91	7003-1-R5, DW Y-09, D.L. PEREZ ELEMENTARY SCHOOL, YIGO	LAND REGISTRATION SURVEY & MAPPING	$11,479.46
92	90-3-R1, WBP (PRIVATE), YONA	LAND REGISTRATION SURVEY & MAPPING	$12,657.42
93	PARCEL 1 (PORTION LOT 267) SLS, COMMERCIAL PORT, PITI	LAND REGISTRATION SURVEY & MAPPING	$13,347.46
		SUBTOTAL=	**$271,710.29**
		GRAND TOTAL=	**$1,048,657.77**

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

TO: **Consolidated Commission on Utilities**

FROM: **General Manager**

DATE: **June 6, 2017**

SUBJECT: **General Manager's Report**

1. Generation System Update:

- The Dededo Combustion Turbine Plant units #1 & #2 each has been cleared for emergency operations at 20MW each.
- The highest peak demand so far this year was 256MW in May 2017.
- Cabras #1 is scheduled for a 60 day overhaul from July 15 thru Sept 15, 2017. This would be our most vulnerable period of CY 2017 because peak demand would be at its highest.
- Net kwh production for May 2017 was 4,920, 152 more than May 2016. This would translate to about 3.3% increase in sales for the month.
- The following summarizes our current reserve capacity for June:

Generating Capacity Summary :

6-Jun-17		**Cabras 1 Overhaul**
Generating Units:	**May-17**	**July 15 thru Aug 15, 2017**
CABRAS 1	**40 (a)**	**0 (d)**
CABRAS 2	**50 (b)**	63
MEC8	40	44
MEC9	38	44
AGGREKO	37	40
MEDIUM SPEED DIESELS (10 Units)	20	36
YIGO CT	**0 ©**	20
MACHECHE CT	20	20
TEMES CT	39	39
DEDEDO CT1	22	20
DEDEDO CT2	22	20
AVAILABLE CAPACITY	**328**	**346**
EXPECTED PEAK DEMAND (e)	**256**	**265**
RESERVE	**72**	**81**

(a) Circulating Water Pump being repaired

(b) Requires 7 day shutdown to repair Air Preheater

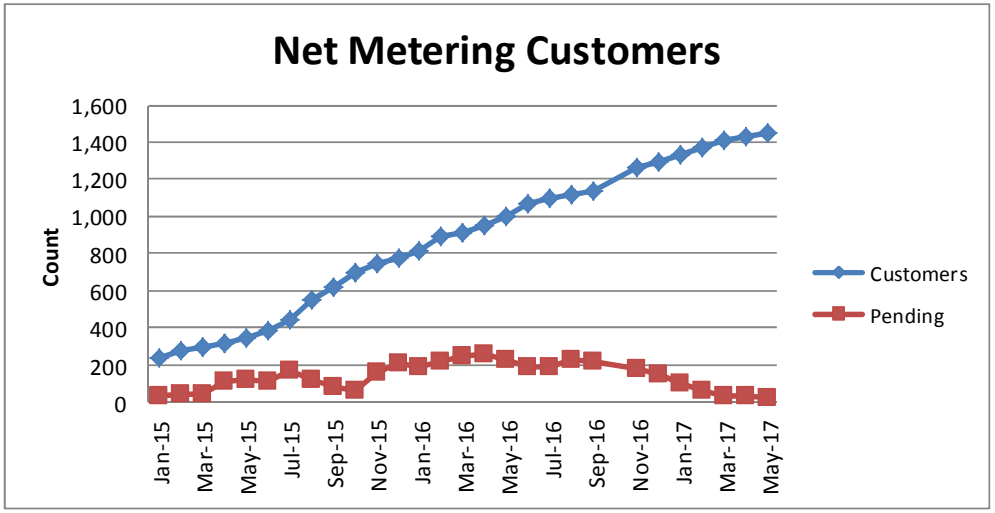
© Turbine/Generator under alignment

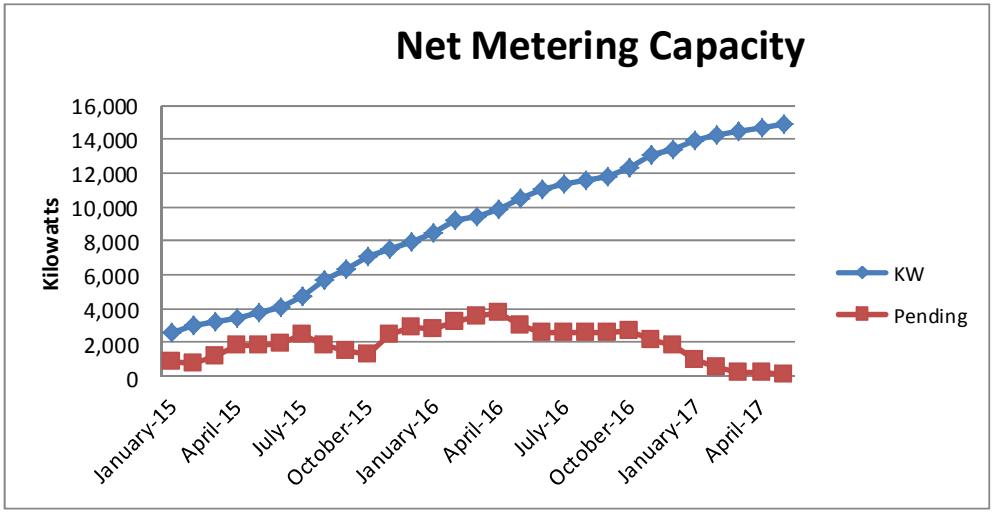
(d) Cabras 1 on Scheduled 60 days Boiler/Turbine Overhaul

(e) Highest exposure is peak demand period between 6pm to 10 pm

2. Net Metering: Net Metering Summary Ending May 2017:

Description:	**Count**	**Kw**	
Active	**1,449**	**14,918**	
Pending	21	160	
Totals:	1,470	15,078	
Service:	**Count**	**KW**	**Kw/Customer**
Residential	1,372	12,325	9.0
Others	98	2,753	28.1
Total:	1,470	15,078	10.3
% Residential	**93.3%**	**81.7%**	
Estimated 12 Months Revenue Impact:	**$2,773,114**		
Revenue Impact FY2009 to FY 2016	**$3,774,761**		


Net Metering Customers
Count
1,600
1,400
1,200
1,000
800
600
400
200
0
Jan-15
Mar-15
May-15
Jul-15
Sep-15
Nov-15
Jan-16
Mar-16
May-16
Jul-16
Sep-16
Nov-16
Jan-17
Mar-17
May-17
Customers
Pending

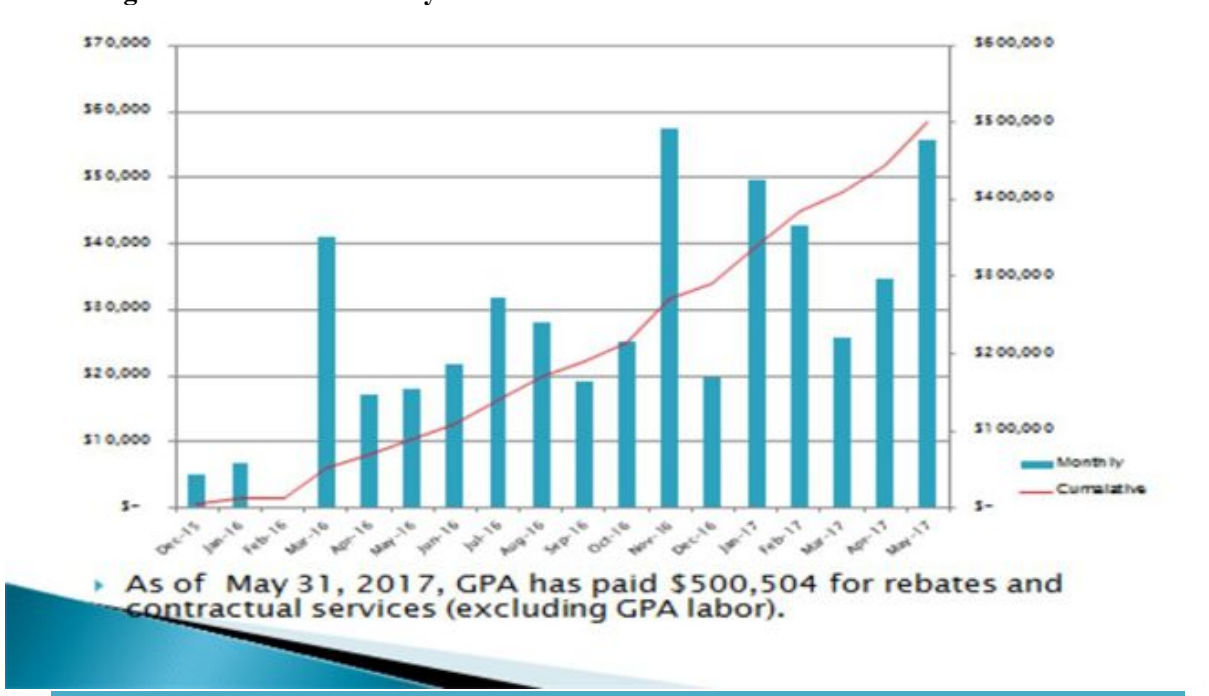

Net Metering Capacity
Kilowatts
16,000
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
January-15
April-15
July-15
October-15
January-16
April-16
July-16
October-16
January-17
April-17
KW
Pending

3. Renewable Energy Production Summary Thru May 2017:

Energy Production Thru May 2017:

Energy Production Source:	Kwh	Oil Barrels Avoided	Fuel Cost Avoided
NRG Total Production beginning Oct 2015	84,395,935	141,111	$7,761,130
Net Metering Estimated Production beginning Jan 2015	38,025,198	63,579	$3,496,833
Wind Power Production beginning Jan 2016	665,790	1,113	$61,227
Renewables Total:	**123,086,922**	**205,803**	**$11,319,189**
System Heat Rate Kwh/Gal	14.2		
System Fuel $/Bbl.	$55.00		

4. DSM Program: Rebates thru May 31st 2017



Description	FY16	FY17 Thru May	Total to Date
Regular Pay	$ 11,169.02	$ 15,840.77	$ 27,009.79
Other Contractual	$ 28,278.50	$ -	$ 28,278.50
Paid Rebates - Split AC	$ 154,700.00	$ 298,300.00	$ 453,000.00
Paid Rebates - Central AC	$ 3,400.00	$ 6,400.00	$ 9,800.00
Paid Rebates - Washers/Dryers	$ 2,800.00	$ 6,625.00	$ 9,425.00

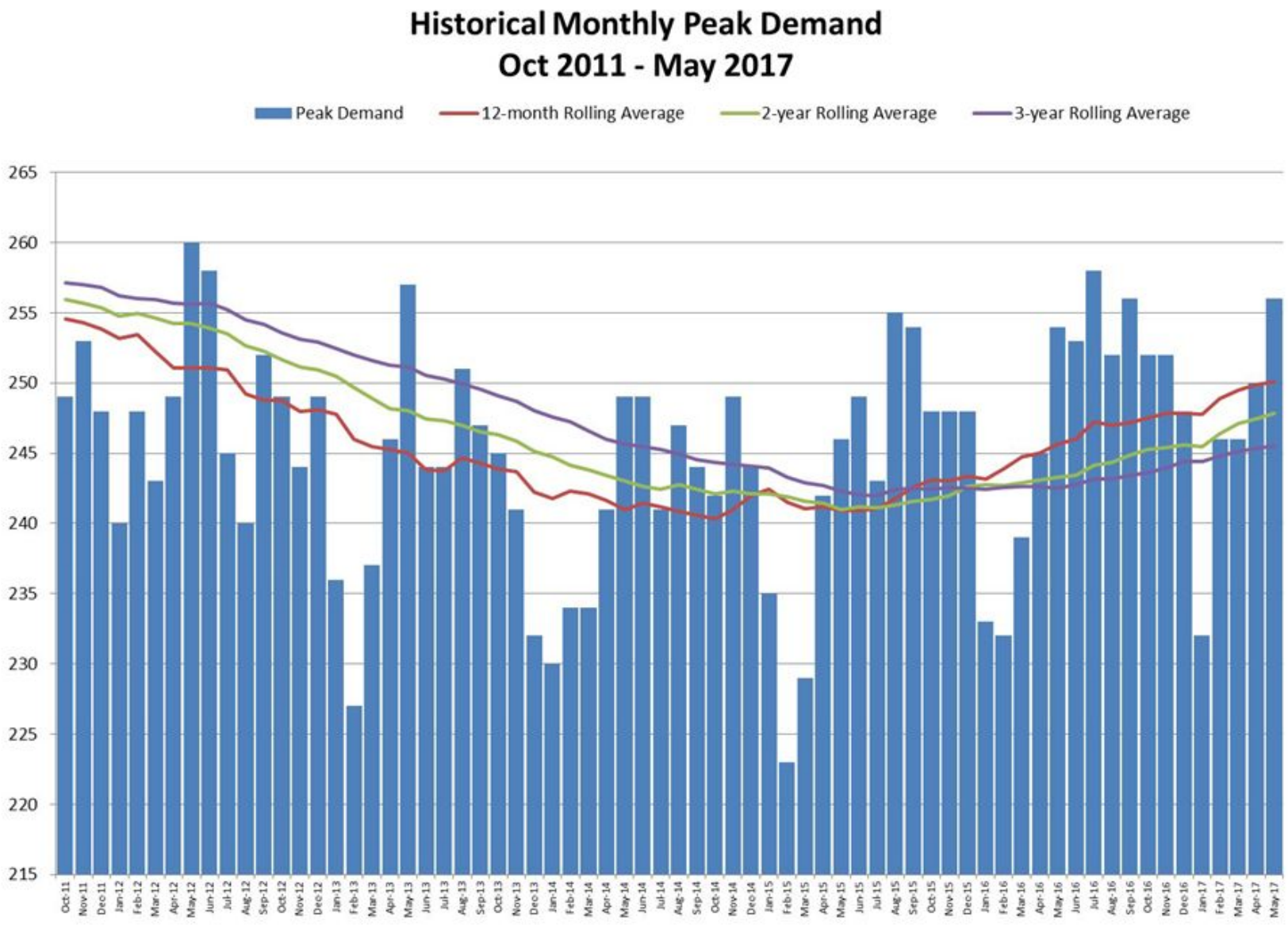
5. **Manengon Power Plant:**
   - The Manengon Power Plant agreement expires June 30, 2017. We are currently negotiating a land transfer to GPA and we are targeting the July CCU meeting for a decision on the matter. We may be able to acquire a clear deed for the land for about $250K. GPA could then own the plant free and clear. It can begin overhauling the units and making long term investments on the plant.
6. **Phase III Renewables:** The bid tender for about 40 MW of solar PV renewables on land recently leased from Navy would be issued no later than August 2017.

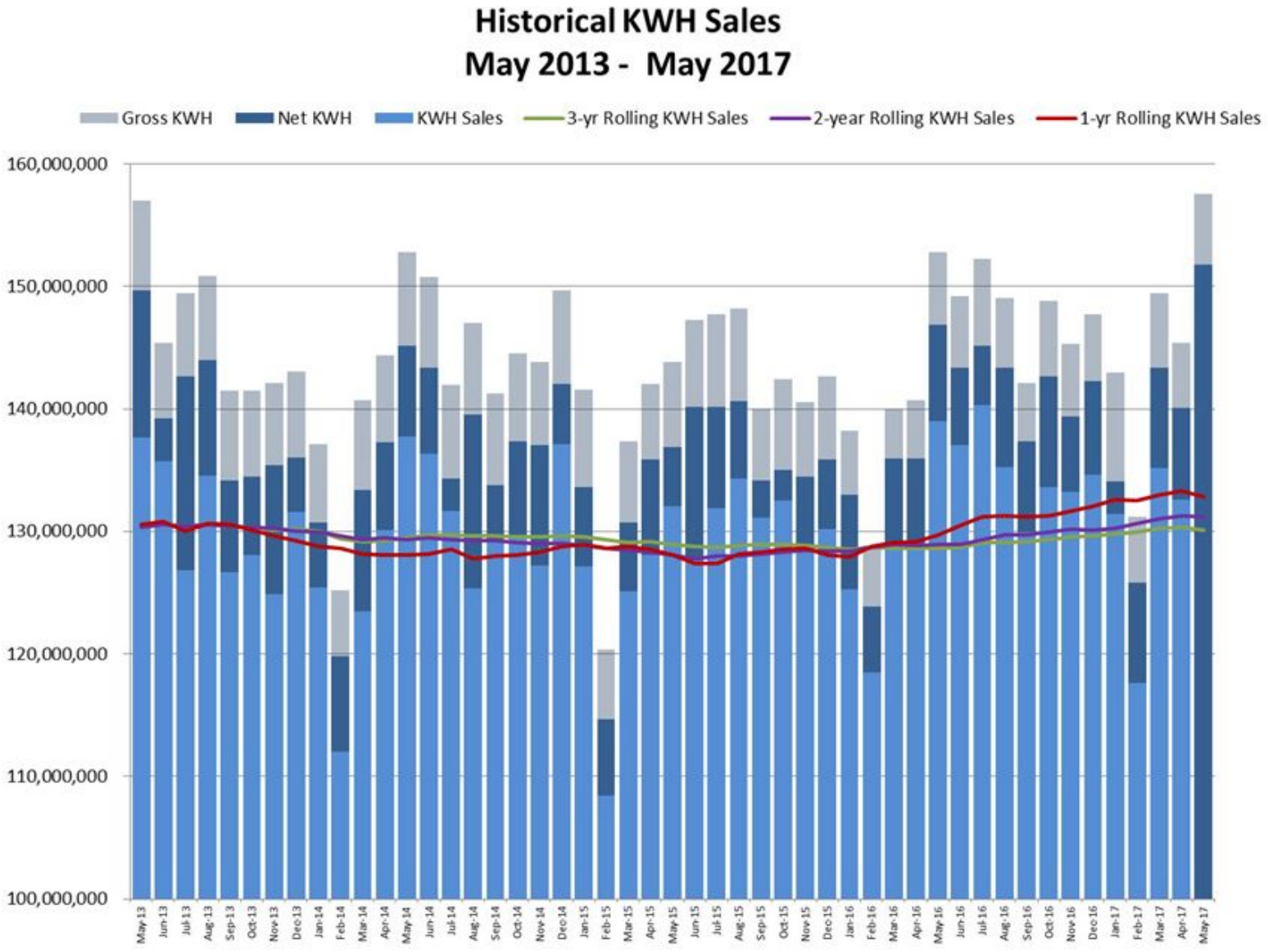
7. **Bill No. 78-34:** **Bill No.78-34 (COR) sponsored by Senator Telena Cruz Nelson, Senator Dennis G. Rodriguez, Jr., and Senator Regine Biscoe Lee; An act to *add* new §§ 8302.1 and 8303.1, to Article 3 of Chapter 8, Guam Code Annotated, and to *repeal and reenact* §8305 of Article 3 of Chapter 8, Guam Code Annotated, relative to the establishment of the Guam Renewable Energy Task Force and the adoption of the Guam Energy Action Plan.**
   - This bill was scheduled for public hearing on Thursday, June 8th at 10:00am. However, the public hearing has been postponed.

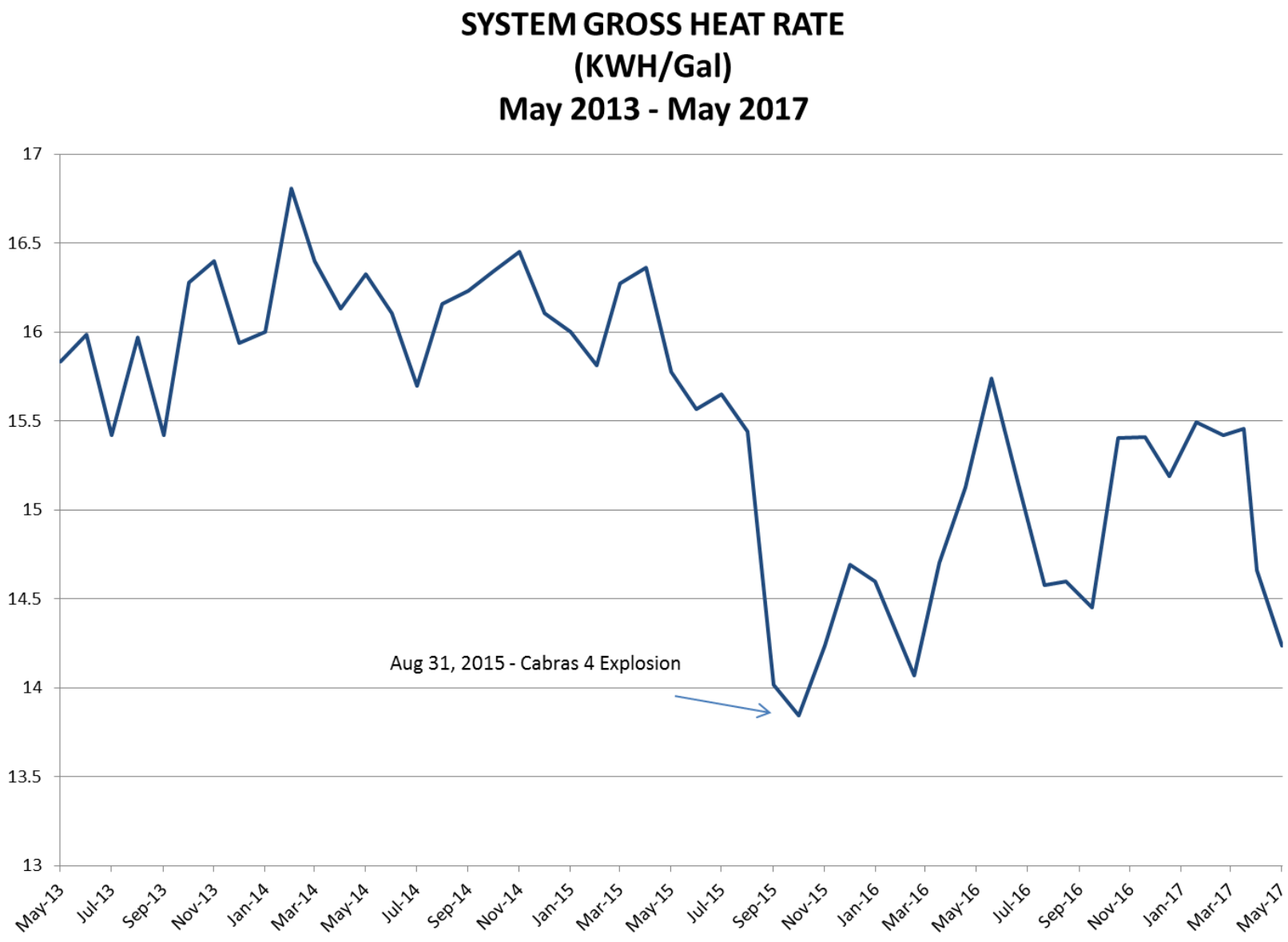
8. **New Power Plant Land Acquisition:** A presentation was made to the Guam Ancestral Land Commission (GALC) for the purchase of 40 acres of their property in Ukudo. The GALC has not communicated positively on the matter and have expressed concern that such a purchase would reduce their land inventory. In the meanwhile, GPA is preparing to proceed with a new solicitation of interest for property in the area.

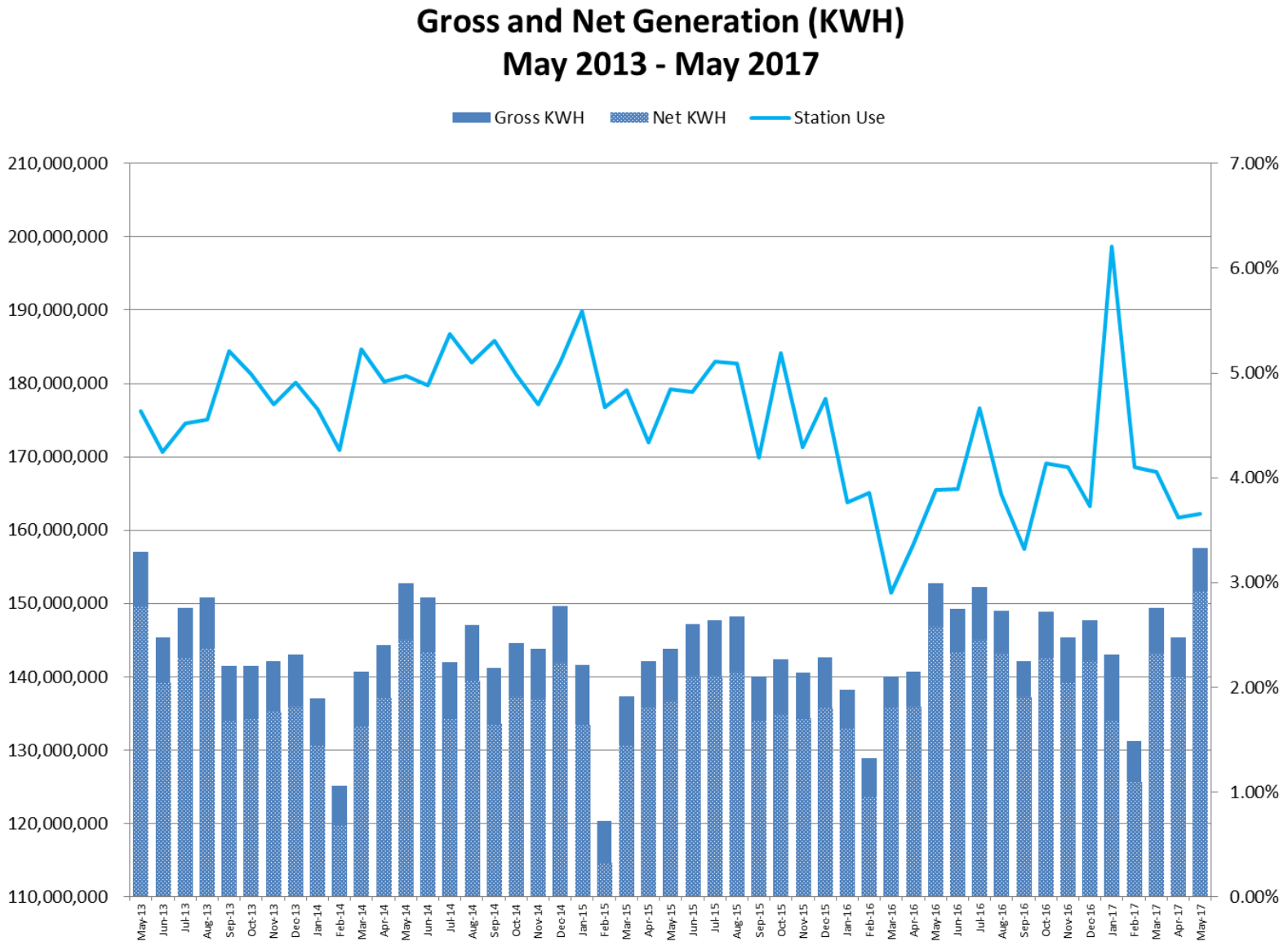
9. **Key Performance Indicators:** The following pages provide updated information thru April 2017.

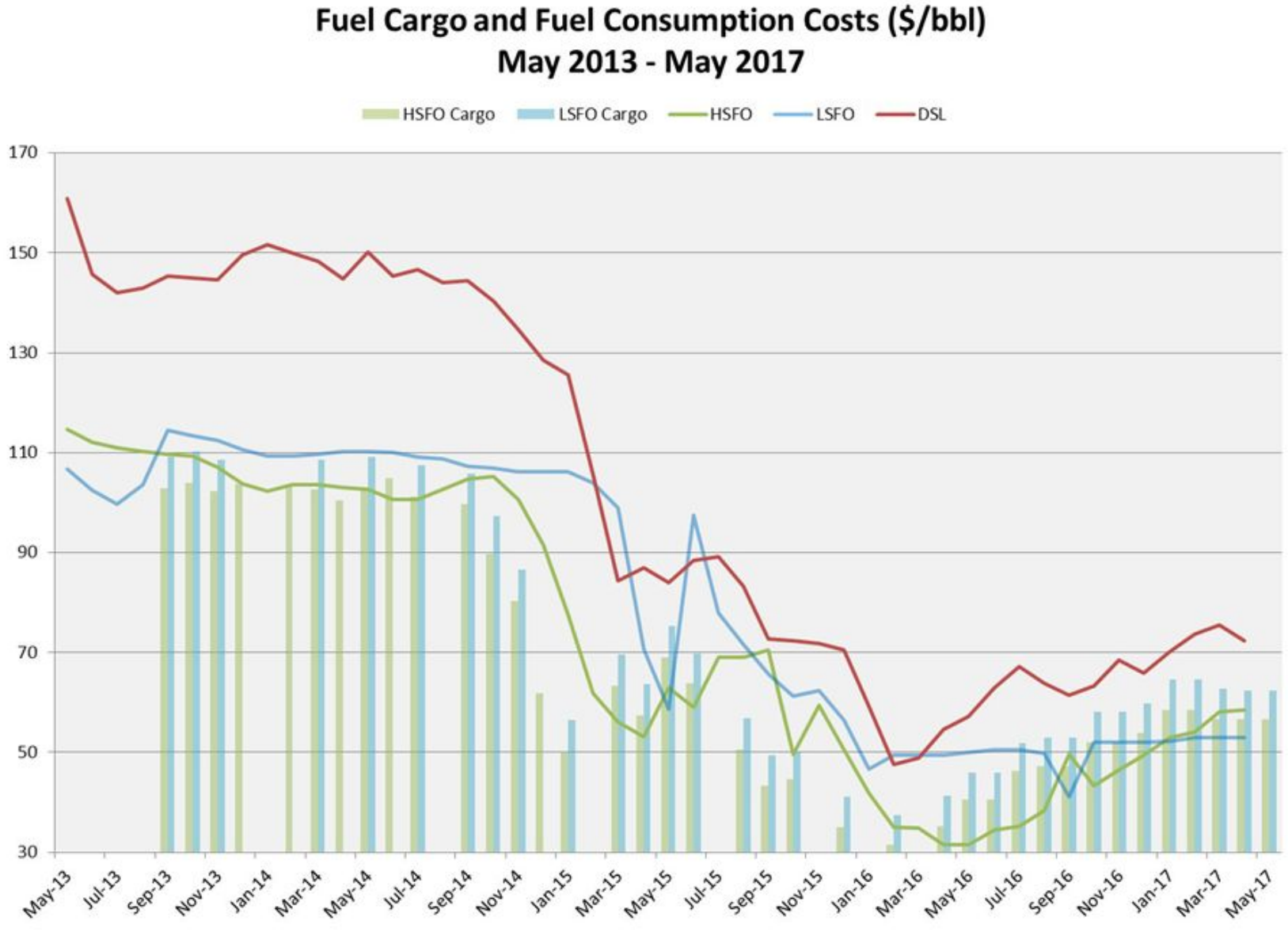
John M. Benavente, P.E.


Historical Monthly Peak Demand
Oct 2011 - May 2017
Peak Demand
12-month Rolling Average
2-year Rolling Average
3-year Rolling Average
265
260
255
250
245
240
235
230
225
220
215
Oct-11
Nov-11
Dec-11
Jan-12
Feb-12
Mar-12
Apr-12
May-12
Jun-12
Jul-12
Aug-12
Sep-12
Oct-12
Nov-12
Dec-12
Jan-13
Feb-13
Mar-13
Apr-13
May-13
Jun-13
Jul-13
Aug-13
Sep-13
Oct-13
Nov-13
Dec-13
Jan-14
Feb-14
Mar-14
Apr-14
May-14
Jun-14
Jul-14
Aug-14
Sep-14
Oct-14
Nov-14
Dec-14
Jan-15
Feb-15
Mar-15
Apr-15
May-15
Jun-15
Jul-15
Aug-15
Sep-15
Oct-15
Nov-15
Dec-15
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
Jan-17
Feb-17
Mar-17
Apr-17
May-17


Historical KWH Sales
May 2013 - May 2017
Gross KWH
Net KWH
KWH Sales
3-yr Rolling KWH Sales
2-year Rolling KWH Sales
1-yr Rolling KWH Sales
160,000,000
150,000,000
140,000,000
130,000,000
120,000,000
110,000,000
100,000,000
May-13
Jun-13
Jul-13
Aug-13
Sep-13
Oct-13
Nov-13
Dec-13
Jan-14
Feb-14
Mar-14
Apr-14
May-14
Jun-14
Jul-14
Aug-14
Sep-14
Oct-14
Nov-14
Dec-14
Jan-15
Feb-15
Mar-15
Apr-15
May-15
Jun-15
Jul-15
Aug-15
Sep-15
Oct-15
Nov-15
Dec-15
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
Jan-17
Feb-17
Mar-17
Apr-17
May-17


SYSTEM GROSS HEAT RATE
(KWH/Gal)
May 2013 - May 2017
17
16.5
16
15.5
15
14.5
14
13.5
13
Aug 31, 2015 - Cabras 4 Explosion
May-13
Jul-13
Sep-13
Nov-13
Jan-14
Mar-14
May-14
Jul-14
Sep-14
Nov-14
Jan-15
Mar-15
May-15
Jul-15
Sep-15
Nov-15
Jan-16
Mar-16
May-16
Jul-16
Sep-16
Nov-16
Jan-17
Mar-17
May-17


Gross and Net Generation (KWH)
May 2013 - May 2017
Gross KWH
Net KWH
Station Use
210,000,000
200,000,000
190,000,000
180,000,000
170,000,000
160,000,000
150,000,000
140,000,000
130,000,000
120,000,000
110,000,000
7.00%
6.00%
5.00%
4.00%
3.00%
2.00%
1.00%
0.00%
May-13
Jun-13
Jul-13
Aug-13
Sep-13
Oct-13
Nov-13
Dec-13
Jan-14
Feb-14
Mar-14
Apr-14
May-14
Jun-14
Jul-14
Aug-14
Sep-14
Oct-14
Nov-14
Dec-14
Jan-15
Feb-15
Mar-15
Apr-15
May-15
Jun-15
Jul-15
Aug-15
Sep-15
Oct-15
Nov-15
Dec-15
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
Jan-17
Feb-17
Mar-17
Apr-17
May-17


Fuel Cargo and Fuel Consumption Costs ($/bbl)
May 2013 - May 2017
HSFO Cargo
LSFO Cargo
HSFO
LSFO
DSL
170
150
130
110
90
70
50
30
May-13
Jul-13
Sep-13
Nov-13
Jan-14
Mar-14
May-14
Jul-14
Sep-14
Nov-14
Jan-15
Mar-15
May-15
Jul-15
Sep-15
Nov-15
Jan-16
Mar-16
May-16
Jul-16
Sep-16
Nov-16
Jan-17
Mar-17
May-17

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

Issues for Decision

Resolution No. 2017-24:

Relative to Requesting Approval of Demand Side Management (DSM) Expanded Initiatives

What is the project's objective and is it necessary and urgent?
GPA is recommending at the PUC's request the Authority to expand its DSM program with additional initiative from the Energy Sense Program plan. GPA is requesting for the approval of the expanded DSM initiatives as approved by the PUC on May 25, 2017 PUC Order (GPA Docket 15-05) .GPA intends to fund these new programs and continue to fund the initial DSM and EE programs with the balance of the $1.8M funds previously approved, and to evaluate for further funding when the balance is exhausted.

No.	Customer Sector	Initiative Category	Initiative Description
1	Residential/ commercial /industrial	Building	Energy Audits (through GPA Customer Services, Online Energy Audits, or third party hired by GPA)
2	Commercial	A/C	High Efficiency Packaged Rooftop Unit (20 ton assumed, 15 EER or better); Solar thermal assisted AC per collector (no more than four collectors)
3	Commercial	Building	Building Energy Management System
4	Commercial	A/C	High Efficiency Split, Ducted A/C System (10 ton assumed, 18 SEER or better); Solar thermal assisted AC per collector (no more than four collectors)
5	Residential	A/C	Variable Refrigerant Flow A/C
6	Commercial	A/C	Variable Refrigerant Flow A/C
7	Residential	Water Heating	Low Flow Showerheads; Energy Star Electric Water Heaters; Tankless Water Heaters
8	Commercial	Lighting	a. Internal Lighting - Tube LED Lamp, T-5 Lamp, and Low wattage T-8 Lamp b. External Lighting - LED Floodlights and LED parking lot streetlights
9	Residential/ commercial /industrial	Energy Storage System	100 Customer ESS pilot program, residential and commercial/industrial customers
10	Residential/ commercial /industrial	Renewables	Smart Inverter New System and Upgrade Rebates

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

RESOLUTION NO. 2017–24

THE AUTHORITY REQUESTS FOR APPROVAL OF THE DEMAND SIDE MANAGEMENT EXPANDED INITIATIVES

WHEREAS, in February 2015 the PUC approved GPA's implementation plan for the four (4) DSM and EE programs for Central AC, Ductless Split AC, Washer and Dryer rebate program for residential customers; and

WHEREAS, upon obtaining PUC approval for the use of $1.8M from the Working Capital Fund in October 2015, GPA kicked off the DSM and EE program in December 2015 for the four (4) programs mentioned above; and

WHEREAS, as of April 30, 2017 GPA has paid $444,753.50 for rebates and contractual services (excluding GPA labor) to GPA Residential Customers for over 1500 energy efficient equipment summarized in Exhibit A attached; and

WHEREAS, GPA continues to receive and process applications and rebates for the initial four DSM and EE programs; and

WHEREAS, in July 2016, along with the GPA Revised Petition for Contract Review and GPA Response to PUC Order (GPA Docket 15-05), GPA submitted the final DSM report by LEIDOS referred to as the Energy Sense Program plan which proposed 18 additional DSM and EE programs; and

WHEREAS, GPA is recommending at the PUC's request the Authority to expand its DSM program with additional initiative shown in Exhibit B from the Energy Sense Program plan; and

WHEREAS, GPA is requesting for the approval of the expanded DSM initiatives as approved by the PUC on May 25, 2017, see attached PUC Order (GPA Docket 15-05) ; and

WHEREAS, GPA intends to fund these new programs and continue to fund the initial DSM and EE programs with the balance of the $1.8M funds previously approved, and to evaluate for further funding when the balance is exhausted.

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

1. Approves the ten (10) additional DSM initiatives consisting of Energy Audits, High Efficiency Rooftop Units, Building Energy Management System, High Efficiency Split Ducted A/C System, Variable Refrigerant Flow A/C (Residential & commercial), Low Flow Showerheads & Water Heaters, Lighting, Energy Storage System Rebate, and Smart Inverter System Upgrade Rebates, as shown in Exhibit B.

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

DULY and REGULARY ADOPTED this 6th day of June 2017.

Certified by: **Attested by:**

JOSEPH T. DUENAS
CHAIRMAN

J. GEORGE BAMBA
SECRETARY

I, J. George Bamba, Secretary for the Consolidated Commission on Utilities do hereby certifies as follow:

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

AYES: _____

NAYS: _____

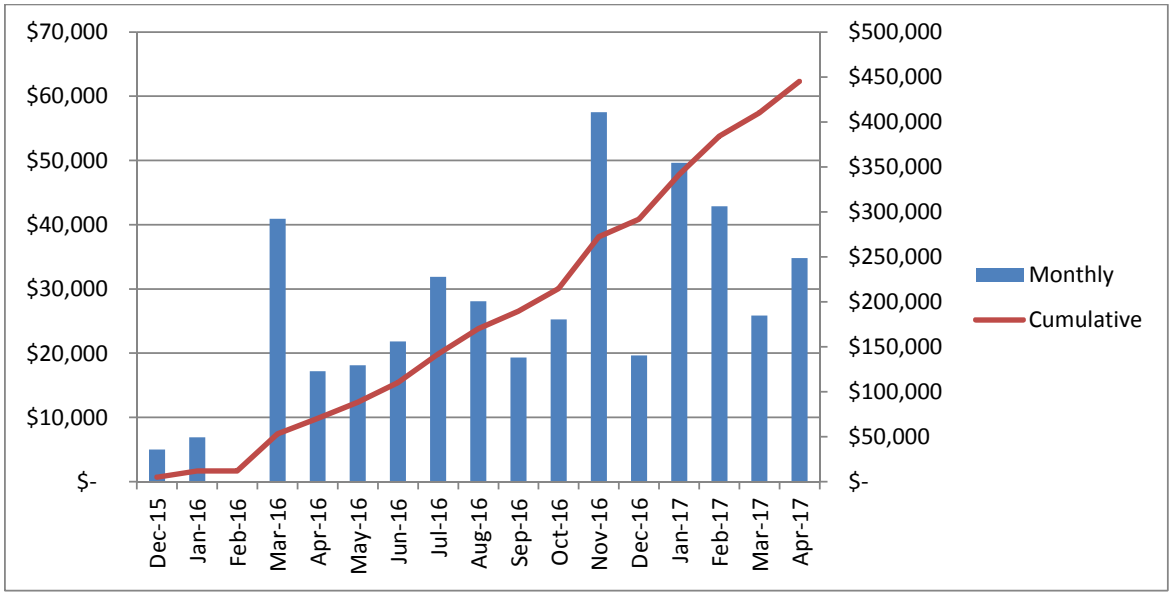
ABSTENTIONS: _____

ABSENT: _____

Exhibit A – Summary of GPA DSM Rebate Program

for Residential Split, Ductless, Washer and Dryer Energy Efficient Equipment

Monthly DSM Rebate Program Expenses*

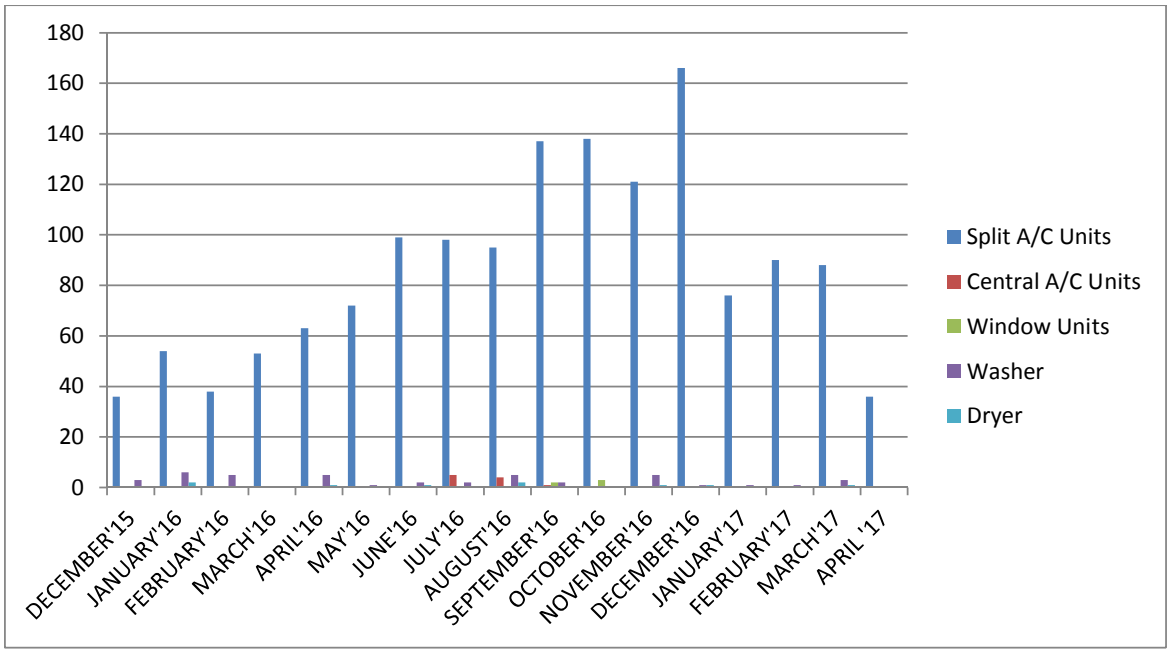


DSM Rebate Program Expenses by Fiscal Year*

Description	FY16	FY17 thru Apr	Total to Date
Regular Pay	$11,169.02	$14,279.61	$ 25,448.63
Other Contractual	$28,278.50		$28,278.50
Paid Rebates-Split AC	$154,700.00	$245,950.00	$ 400,650.00
Paid Rebates- Central AC	$3,400.00	$4,000.00	$7,400.00
Paid Rebates- Washer/Dryers	$2,800.00	$ 5,625.00	$ 8,425.00

**Note: Not all April 2017 applications are included as they are still being processed.*

Number of Equipment Based on Application Received- December 2015 to April 2017*



Note: Not all April 2017 applications are included as they are still being processed.

Exhibit B - DSM Expanded Initiatives

No.	Customer Sector	Initiative Category	Initiative Description
1	Residential/ commercial/ industrial	Building	Energy Audits (through GPA Customer Services, Online Energy Audits, or third party hired by GPA)
2	Commercial	A/C	High Efficiency Packaged Rooftop Unit (20 ton assumed, 15 EER or better); Solar thermal assisted AC per collector (no more than four collectors)
3	Commercial	Building	Building Energy Management System
4	Commercial	A/C	High Efficiency Split, Ducted A/C System (10 ton assumed, 18 SEER or better); Solar thermal assisted AC per collector (no more than four collectors)
5	Residential	A/C	Variable Refrigerant Flow A/C
6	Commercial	A/C	Variable Refrigerant Flow A/C
7	Residential	Water Heating	Low Flow Showerheads; Energy Star Electric Water Heaters; Tankless Water Heaters
8	Commercial	Lighting	a. Internal Lighting - Tube LED Lamp, T-5 Lamp, and Low wattage T-8 Lamp b. External Lighting - LED Floodlights and LED parking lot streetlights
9	Residential/ commercial/ industrial	Energy Storage System	100 Customer ESS pilot program, residential and commercial/industrial customers
10	Residential/ commercial/ industrial	Renewables	Smart Inverter New System and Upgrade Rebates

RECEIVED
MAY 25 2017
Public Utilities Commission
GUAM

BEFORE THE GUAM PUBLIC UTILITIES COMMISSION

IN THE MATTER OF:	)	GPA Docket 13-14
	)	
GPA Demand Side Management,	)	
Program Implementation	)	**ORDER**
	)	
	)	
	)	

INTRODUCTION

1. This matter comes before the Guam Public Utilities Commission ["PUC"] upon the request of the Guam Power Authority ["GPA"] to implement additional Demand Side Management Program initiatives.[1]

BACKGROUND

2. This Docket concerning the implementation of a DSM program at GPA was initiated and established by the PUC in August 2013.

3. On July 31, 2014, the PUC ordered the ALJ to conduct proceedings and work collaboratively with GPA to develop a DSM Program.[2]

4. On February 26, 2015, the PUC approved GPA's plan to implement certain DSM programs, including Central AC, Ductless AC, Washer, and Dryer.[3]

5. In its Order dated October 27, 2015, the PUC authorized GPA to utilize the sum of $1,806,014.00 from the Working Fund for purposes of funding the DSM Program.[4]

6. In June of 2015, GPA Consultant Leidos submitted its Final Report to GPA concerning GPA's Energy Sense Program Plan; Leidos proposed an additional 18 programs that GPA could consider as DSM initiatives.[5]

---

[1] Communications between GPA Assistant General Manager, Engineering and Technical Services, John Cruz, and PUC Administrative Judge Frederick J. Horecky, commencing in March 2017; Guam Consolidated Commission on Utilities and PUC members have also requested that new DSM programs be considered.
[2] PUC Order, GPA Docket 13-14, dated July 31, 2014.
[3] PUC Order, GPA Docket 13-14, dated February 26, 2015, at Ordering Provision No. 3, pg. 4.
[4] PUC Order, GPA Docket 13-14, dated October 27, 2015, at Ordering Provision No. 1.
[5] Leidos Consultants Final Report, June 2015, Energy Sense Program Plan (Guam Power Authority). PUC received this Report in July 2016, along with the GPA Revised Petition for Contract Review and GPA Response to PUC Order, GPA Docket 15-05, filed July 14, 2016.

7. Since March, 2017, the PUC Administrative Law Judge ["ALJ"], Assistant General Manager, Engineering and Technical Services, and certain PUC Commissioners have had discussions and meetings concerning which DSM initiatives to implement in addition to those already in the Program.[6]

8. The proposed expansion of the DSM Program was presented to the Guam Consolidated Commission on Utilities at a workshop on April 13, 2017. See CCU Workshop Issues for Discussion (Presentation), attached hereto as Exhibit "1" to the ALJ Report.

9. The Parties have determined that it was perhaps too ambitious to adopt all 18 DSM proposals at the present time, particularly as a long term funding source has not yet been identified. However, both GPA and the ALJ have agreed upon the following list of ten new DSM initiatives to be implemented:

   A. Energy Audits (through GPA Customer Services, Online Energy Audits, or third party hired by GPA)
   B. Commercial A/C: High Efficiency Packaged Rooftop Unit (20 ton assumed, 15 EER or better); Solar thermal assisted AC per collector (no more than four collectors)
   C. Commercial Building Energy Management System
   D. Commercial A/C: High Efficiency Split, Ducted A/C System (10 ton assumed, 18 SEER or better); Solar thermal assisted AC per collector (no more than two collectors)
   E. Residential A/C: Variable Refrigerant Flow A/C
   F. Commercial A/C: Variable Refrigerant Flow A/C
   G. Commercial Lighting
      1. Internal Lighting – Tube LED Lamp, T-5 Lamp, and Low Wattage – T-8 Lamp
      2. Outdoor Lighting – LED Floodlights and LED parking lot streetlights
   H. Water Heating: Low Flow Showerheads; Energy Star Electric Water Heaters; Tankless Water Heaters
   I. 100 Customer ESS pilot program residential and commercial
   J. Smart Inverter New System and Upgrade Rebates

[6] Meetings were conducted on March 17 and May 17, 2017; there have been numerous communications between the Parties concerning which DSM initiatives to implement.

DETERMINATIONS

10. In its Workshop, the CCU requested that PUC proceed ahead with approval of additional DSM initiatives, so that the program can be expanded as soon as possible.[7]

11. However, since no CCU Resolution has yet been approved, any PUC approval should be subject to final approval by CCU through a Resolution.

12. From the inception of the DSM Program, it was anticipated that GPA and PUC would expand the Program and implement new DSM initiatives[8], and would implement additional DSM initiatives; GPA was required to submit its DSM implementation plan.

13. It is in the interest of GPA and the ratepayers of Guam to implement the additional DSM initiatives proposed herein. DSM Programs should foster energy conservation and hopefully reduce the need in the long term for as much additional generation capacity.

ORDERING PROVISIONS

Upon consideration of the record herein, the Request of GPA to implement new Demand Side Management Initiatives, the ALJ Report, and for good cause shown, on motion duly made, seconded, and carried by the affirmative vote of the undersigned Commissioners, the Guam Public Utilities Commission HEREBY ORDERS that:

1. The PUC hereby approves the additional ten DSM program initiatives listed herein, subject to prior approval by CCU through a Resolution.

2. 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.

3. GPA is ordered to pay the Commission's regulatory fees and expenses, including,

[7] Statement of GPA Assistant General Manager, Engineering and Technical Services, John Cruz to ALJ Horecky on May 22, 2017.
[8] PUC Order, GPA Docket 13-14, dated July 31, 2014, at par. 8 and Ordering Provision No. 1.

without limitation, consulting and counsel fees and the fees and expenses of conducing the hearing proceedings. Assessment of PUC's regulatory fees and expenses is authorized pursuant to 12 GCA §§12103(b) and 12125(b), and Rule 40 of the Rules of Practice and Procedure before the Public Utilities Commission.

Dated this 25th day of May, 2017.

Jeffrey C. Johnson
Chairman

Joseph M. McDonald
Commissioner

Rowena E. Perez
Commissioner

Peter Montinola
Commissioner

Michael A. Pangelinan
Commissioner

Andrew L. Niven
Commissioner

Filomena M. Cantoria
Commissioner

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

RESOLUTION NO. 2017 - 25

RESOLUTION RELATIVE TO APPROVAL OF THE PHASE II RENEWABLE ENERGY ACQUISITION AWARD TO HANWHA ENERGY CORPORATION & PACIFIC PETROLEUM TRADING CORP. AND KEPCO-LG CNS CONSORTIUM FOR UP TO 120MW OF RENEWABLE ENERGY CAPACITY

WHEREAS, in May 2016 GPA announced GPA Multi-Step Bid No: GPA- 070-16 for 60MW of Renewable Energy Resource capacity with ESS for ramp control; and

WHEREAS, in January 2017 GPA obtained the price bids and determined Hanwha Energy Corporation & Pacific Petroleum Trading Corp. (Hanwha) and KEPCO-LG CNS Consortium (KEPCO-LG) to be the lowest responsive bidders with each bidder having two proposals for 30MW solar PV projects totaling 120MW of solar PV capacity; and

WHEREAS, Bidders provided $/MWH price proposals for the energy and ramp controls to include interconnection costs of each 30MW proposal. **Exhibit A** provides a summary of the energy price proposals; and

WHEREAS, in addition to the base proposal, Hanwha submitted a fixed price proposal for a GPA requested microgrid operations option, which would include the capability of energy shifting, required for a 60MW award, through an energy storage system of 40MW/65MWH during peak solar days for discharge during GPA peak periods; and

WHEREAS, GPA is considering the Hanwha microgrid operations option to improve management of system generation and dispatching which would be in addition to the proposed energy rate. **Exhibit B** provides a summary of the Hanwha microgrid operations; and

WHEREAS, GPA evaluates bidder's price proposal against GPA's variable operating costs primarily made up of fuel costs; and

WHEREAS, GPA has determined that Hanwha and KEPCO-LG proposals would provide substantial savings to GPA over the term of the contracts based on current and projected LEAC rates; and

RESOLUTION NO: 2017-25

WHEREAS, the table below represents the projected savings of potential award cases subject to the completion of the system impact studies and bidders' acceptance of the requirements generated from the study. **Exhibit C** contains case summaries; and

CASE	Description	Project Size	5 Year Projected Savings On Current LEAC ($115/MWH)	5 Year Projected Savings on Projected LEAC	Present Value Utility Cost Savings thru Contract Term
1	Hanwha Proposal 1 Only (30MW) and KEPCO Proposal 1&2 (60MW)	90 MW	$ 38,752,618	$ 72,670,440	$ 313,466,966
2	Hanwha Proposal 1&2 (60MW) and KEPCO Proposal 1&2 (60MW)	120MW	$ 43,290,919	$ 88,266,040	$ 417,315,926

WHEREAS, GPA considers renewable energy as an effective hedge against rising fuel oil prices; and

WHEREAS, the bid prices proposed are an excellent fuel hedge as the bidders' energy prices are fixed with escalations no more than 1% annually for all proposals. **Exhibit D** summarizes GPA historical LEAC; and

WHEREAS, renewable energy is sustainable energy and good for the island; and

WHEREAS, Public Law 29-62 sets renewable goals under the Renewable Portfolio Standards (RPS); and

WHEREAS, the award of 120MW is projected to increase GPA's ratio of renewable energy to sales up to 23% by 2020. **Exhibit E** is a projected RPS outlook; and

WHEREAS, the system impact study is an iterative and complicated process that will set the conditions and boundaries for the project to interconnect and operate on the GPA electric grid system; and

WHEREAS, the system impact study will not change the bidders' priced proposals; and

WHEREAS, the bid documents allow the bidders to withdraw any proposal without penalty if the bidder cannot comply with the system impact study within the bidders' priced proposals; and

RESOLUTION NO: 2017-25

WHEREAS, GPA would like to proceed with an approval to award a potential total of 120MW of renewable energy capacity contracts subject to the completion of the System Impact Study.

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

1. The CCU authorizes GPA to petition the PUC for approval to award Phase II Renewable Acquisition Bid of two 30MW proposals each to Hanwha Energy Corporation & Pacific Petroleum Trading Corp. and KEPCO-LG CNS Consortium as required under the PUC Procurement Protocol.
2. The CCU authorizes GPA to contract Hanwha Energy Corporation & Pacific Petroleum Trading Corp. and KEPCO-LG CNS Consortium for renewable energy subject to System Impact Studies and PUC approval.

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

DULY AND REGULARLY ADOPTED AND APPROVED THIS ___ DAY OF _____ 2017.

Certified by: Attested by:

_____ _____

JOSEPH T. DUENAS **J. GEORGE BAMBA**
Chairperson Secretary
Consolidated Commission on Utilities Consolidated Commission on Utilities

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

Ayes: _____

RESOLUTION NO: 2017-25

Nays: _____

Absent: _____

Abstain: _____

EXHIBIT A

Summary of Bid Proposals

Hanwha Energy Corporation & Pacific Petroleum Trading Corp.

Contract Year	Proposal 1		Proposal 2	
	Annual Price ($/MWH)	Guaranteed Net Annual Generation (MWH/YR)	Annual Price ($/MWH)	Guaranteed Net Annual Generation (MWH/YR)
1	$ 62.45	72,005.00	$ 65.99	72,005.00
2	$ 63.08	71,831.00	$ 66.65	71,831.00
3	$ 63.71	71,245.00	$ 67.32	71,245.00
4	$ 64.35	70,865.00	$ 67.99	70,865.00
5	$ 64.99	70,485.00	$ 68.67	70,485.00
6	$ 65.64	70,306.00	$ 69.36	70,306.00
7	$ 66.30	69,724.00	$ 70.05	69,724.00
8	$ 66.96	69,344.00	$ 70.75	69,344.00
9	$ 67.63	68,693.00	$ 71.46	68,693.00
10	$ 68.31	68,780.00	$ 72.17	68,780.00
11	$ 68.99	68,202.00	$ 72.89	68,202.00
12	$ 69.68	67,821.00	$ 73.62	67,821.00
13	$ 70.37	67,440.00	$ 74.36	67,440.00
14	$ 71.08	67,252.00	$ 75.10	67,252.00
15	$ 71.79	66,678.00	$ 75.85	66,678.00
16	$ 72.51	66,296.00	$ 76.61	66,296.00
17	$ 73.23	65,915.00	$ 77.38	65,915.00
18	$ 73.96	65,722.00	$ 78.15	65,722.00
19	$ 74.70	65,151.00	$ 78.93	65,151.00
20	$ 75.45	64,770.00	$ 79.72	64,770.00
21	$ 76.21	64,388.00	$ 80.52	64,388.00
22	$ 76.97	64,190.00	$ 81.33	64,190.00
23	$ 77.74	63,623.00	$ 82.14	63,623.00
24	$ 78.52	63,241.00	$ 82.96	63,241.00
25	$ 79.30	62,859.00	$ 83.79	62,859.00

KEPCO-LG CNS Consortium

Contract Year	Proposal 1		Proposal 2	
	Annual Price ($/MWH)	Guaranteed Net Annual Generation (MWH/YR)	Annual Price ($/MWH)	Guaranteed Net Annual Generation (MWH/YR)
1	$ 85.50	74,542.29	$ 85.50	74,542.29
2	$ 86.35	73,974.68	$ 86.35	73,974.68
3	$ 87.22	73,604.26	$ 87.22	73,604.26
4	$ 88.09	73,233.84	$ 88.09	73,233.84
5	$ 88.97	73,058.88	$ 88.97	73,058.88
6	$ 89.86	72,493.01	$ 89.86	72,493.01
7	$ 90.76	72,122.59	$ 90.76	72,122.59
8	$ 91.67	71,752.18	$ 91.67	71,752.18
9	$ 92.58	71,573.23	$ 92.58	71,573.23
10	$ 93.51	71,011.34	$ 93.51	71,011.34
11	$ 94.44	70,640.93	$ 94.44	70,640.93
12	$ 95.39	70,270.51	$ 95.39	70,270.51
13	$ 96.34	70,087.58	$ 96.34	70,087.58
14	$ 97.31	69,529.68	$ 97.31	69,529.68
15	$ 98.28	69,159.26	$ 98.28	69,159.26
16	$ 99.26	68,788.84	$ 99.26	68,788.84
17	$ 100.25	68,601.94	$ 100.25	68,601.94
18	$ 101.26	68,048.01	$ 101.26	68,048.01
19	$ 102.27	67,677.59	$ 102.27	67,677.59
20	$ 103.29	67,307.18	$ 103.29	67,307.18
21	$ 104.33	67,116.29	$ 104.33	67,116.29
22	$ 105.37	66,566.34	$ 105.37	66,566.34
23	$ 106.42	66,195.92	$ 106.42	66,195.92
24	$ 107.49	65,825.51	$ 107.49	65,825.51
25	$ 108.56	65,630.64	$ 108.56	65,630.64

EXHIBIT B

Summary of Hanwha Energy & Microgrid Operations Bid Proposal for 60MW Award

Hanwha Energy Corporation & Pacific Petroleum Trading Corp.

	Proposal 1					Proposal 2				
Contract Year	Annual Price ($/MWH)	Guaranteed Net Annual Generation (MWH/YR)	MicroGrid Operations Fixed Annual Fee	Microgrid Cost, $/MWH (based on Guarantee)*	Adjusted Rate	Annual Price ($/MWH)	Guaranteed Net Annual Generation (MWH/YR)	MicroGrid Operations Fixed Annual Fee	Microgrid Cost, $/MWH (based on Guarantee)*	Adjusted Rate
1	$ 65.99	72,005.00	1,287,082	$ 17.87	83.86	$ 62.45	72,005.00	1,287,082	$ 17.87	80.32
2	$ 66.65	71,831.00	1,264,710	$ 17.61	84.26	$ 63.08	71,831.00	1,264,710	$ 17.61	80.69
3	$ 67.32	71,245.00	1,244,969	$ 17.47	84.79	$ 63.71	71,245.00	1,244,969	$ 17.47	81.18
4	$ 67.99	70,865.00	1,225,229	$ 17.29	85.28	$ 64.35	70,865.00	1,225,229	$ 17.29	81.64
5	$ 68.67	70,485.00	1,206,804	$ 17.12	85.79	$ 64.99	70,485.00	1,206,804	$ 17.12	82.11
6	$ 69.36	70,306.00	1,188,380	$ 16.90	86.26	$ 65.64	70,306.00	1,188,380	$ 16.90	82.54
7	$ 70.05	69,724.00	1,171,271	$ 16.80	86.85	$ 66.30	69,724.00	1,171,271	$ 16.80	83.10
8	$ 70.75	69,344.00	1,155,479	$ 16.66	87.41	$ 66.96	69,344.00	1,155,479	$ 16.66	83.62
9	$ 71.46	68,693.00	1,139,686	$ 16.59	88.05	$ 67.63	68,693.00	1,139,686	$ 16.59	84.22
10	$ 72.17	68,780.00	1,123,894	$ 16.34	88.51	$ 68.31	68,780.00	1,123,894	$ 16.34	84.65
11	$ 72.89	68,202.00	1,108,101	$ 16.25	89.14	$ 68.99	68,202.00	1,108,101	$ 16.25	85.24
12	$ 73.62	67,821.00	1,093,625	$ 16.13	89.75	$ 69.68	67,821.00	1,093,625	$ 16.13	85.81
13	$ 74.36	67,440.00	1,079,149	$ 16.00	90.36	$ 70.37	67,440.00	1,079,149	$ 16.00	86.37
14	$ 75.10	67,252.00	1,064,672	$ 15.83	90.93	$ 71.08	67,252.00	1,064,672	$ 15.83	86.91
15	$ 75.85	66,678.00	1,051,512	$ 15.77	91.62	$ 71.79	66,678.00	1,051,512	$ 15.77	87.56
16	$ 76.61	66,296.00	1,038,352	$ 15.66	92.27	$ 72.51	66,296.00	1,038,352	$ 15.66	88.17
17	$ 77.38	65,915.00	1,025,191	$ 15.55	92.93	$ 73.23	65,915.00	1,025,191	$ 15.55	88.78
18	$ 78.15	65,722.00	1,012,031	$ 15.40	93.55	$ 73.96	65,722.00	1,012,031	$ 15.40	89.36
19	$ 78.93	65,151.00	998,871	$ 15.33	94.26	$ 74.70	65,151.00	998,871	$ 15.33	90.03
20	$ 79.72	64,770.00	987,026	$ 15.24	94.96	$ 75.45	64,770.00	987,026	$ 15.24	90.69
21	$ 80.52	64,388.00	975,182	$ 15.15	95.67	$ 76.21	64,388.00	975,182	$ 15.15	91.36
22	$ 81.33	64,190.00	963,338	$ 15.01	96.34	$ 76.97	64,190.00	963,338	$ 15.01	91.98
23	$ 82.14	63,623.00	951,493	$ 14.96	97.10	$ 77.74	63,623.00	951,493	$ 14.96	92.70
24	$ 82.96	63,241.00	939,649	$ 14.86	97.82	$ 78.52	63,241.00	939,649	$ 14.86	93.38
25	$ 83.79	62,859.00	927,805	$ 14.76	98.55	$ 79.30	62,859.00	927,805	$ 14.76	94.06

EXHIBIT C

Proposal Evaluation Summary

CASE	Description	Project Size	5 Year Projected Savings On Current LEAC ($115/MWH)	5 Year Projected Savings on Projected LEAC	Present Value Utility Cost Savings* thru Contract Term
1	Hanwha Proposal 1 Only (30MW) and KEPCO Proposal 1&2 (60MW)	90 MW	$ 38,752,618	$ 72,670,440	$ 313,466,966
2	Hanwha Proposal 1&2 (60MW) and KEPCO Proposal 1&2 (60MW)	120MW	$ 43,290,919	$ 88,266,040	$ 417,315,926

EXHIBIT C

CASE 1 - Hanwha Proposal 1 (30MW) and KEPCO Proposal 1&2 (60MW)

5 Year Sample Calculation of Project Costs & Savings

	Contract Year	Year 1	Year 2	Year 3	Year 4	Year 5	TOTALS
1	Hanwha Proposal 1 Energy Rate ($/MWH)	62.45	63.08	63.71	64.35	64.99	
2	Energy Guarantee (MWH)	72,005	71,831	71,245	70,865	70,485	
3	KEPCO Proposal 1 Energy Rate ($/MWH)	85.50	86.35	87.22	88.09	88.97	
4	Energy Guarantee (MWH)	74,542.29	73,974.68	73,604.26	73,233.84	73,058.88	
5	KEPCO Proposal 2 Energy Rate ($/MWH)	85.50	86.35	87.22	88.09	88.97	
6	Energy Guarantee (MWH)	74,542.29	73,974.68	73,604.26	73,233.84	73,058.88	
7	Phase II Energy Costs (120MW)	$ 17,243,315	$ 17,307,136	$ 17,378,202	$ 17,462,478	$ 17,581,025	**$ 86,972,157**
8	Current LEAC Rate[1] ($/MWH)	115	115	115	115	115	
9	Current Energy Costs	$ 25,425,302	$ 25,274,741	$ 25,122,155	$ 24,993,259	$ 24,909,317	$ 125,724,774
10	Proposed Savings	**$ 8,181,987**	**$ 7,967,605**	**$ 7,743,953**	**$ 7,530,781**	**$ 7,328,292**	**$ 38,752,618**

	Year	2019	2020	2021	2022	2023	TOTALS
11	Projected LEAC Rate[2] ($/MWH)	122.27	140.02	154.63	154.03	159.65	
12	Projected Energy Costs	$ 27,032,806	$ 30,773,935	$ 33,779,259	$ 33,476,173	$ 34,580,424	$ 159,642,597
13	Proposed Savings	**$ 9,789,491**	**$ 13,466,799**	**$ 16,401,056**	**$ 16,013,695**	**$ 16,999,399**	**$ 72,670,440**

STRATEGIST CASE SUMMARY

	Base Case (No Phase II)	Case 1 (90MW)	SAVINGS
Present Value Utility Cost[3] ($000)	6,896,417	6,582,950	313,467

Notes:

1. The Currrent LEAC is used in this case evaluation to demonstrate minimum savings potential with $115/MWH LEAC rate presently proposed for next LEAC period.

2. Projected LEAC is based on STRATEGIST software output that analyzes genernation costs for various generation resources and its operating characteristics. This LEAC is based on load and fuel forecasts done by LEIDOS in 2016.

3. Present Value Utility Cost is an evaluation of generation operating costs in the STRATEGIST software. This is used to determine cost impact of generation resources and their operation variables (efficiency, fuel costs, capacity, etc.) based on energy requirements.

EXHIBIT C

CASE 2 - Hanwha Proposal 1&2 (60MW) and KEPCO Proposal 1&2 (60MW)

5 Year Sample Calculation of Project Costs & Savings

	Contract Year	Year 1	Year 2	Year 3	Year 4	Year 5	TOTALS
1	Hanwha Proposal 1 Energy Rate ($/MWH)	62.45	63.08	63.71	64.35	64.99	
2	Energy Guarantee (MWH)	72,005	71,831	71,245	70,865	70,485	
3	Hanwha Proposal 2 Energy Rate ($/MWH)	65.99	66.65	67.32	67.99	68.67	
4	Energy Guarantee (MWH)	72,005	71,831	71,245	70,865	70,485	
5	Hanwha Microgrid Operations Option	$ 2,574,164	$ 2,529,420	$ 2,489,938	$ 2,450,458	$ 2,413,608	
6	KEPCO Proposal 1 Energy Rate ($/MWH)	85.50	86.35	87.22	88.09	88.97	
7	Energy Guarantee (MWH)	74,542.29	73,974.68	73,604.26	73,233.84	73,058.88	
8	KEPCO Proposal 2 Energy Rate ($/MWH)	85.50	86.35	87.22	88.09	88.97	
9	Energy Guarantee (MWH)	74,542.29	73,974.68	73,604.26	73,233.84	73,058.88	
10	Phase II Energy Costs (120MW)	$ 24,569,089	$ 24,624,093	$ 24,664,354	$ 24,731,048	$ 24,834,838	**$ 123,423,421**
11	Current LEAC Rate[1] ($/MWH)	115	115	115	115	115	
12	Current Energy Costs	$ 33,705,877	$ 33,535,306	$ 33,315,330	$ 33,142,734	$ 33,015,092	$ 166,714,339
13	Proposed Savings	**$ 9,136,788**	**$ 8,911,213**	**$ 8,650,976**	**$ 8,411,687**	**$ 8,180,254**	**$ 43,290,919**

	Year	2019	2020	2021	2022	2023	TOTALS
14	Projected LEAC Rate[2] ($/MWH)	122.27	140.02	154.63	154.03	159.65	
15	Projected Energy Costs	$ 35,836,916	$ 40,831,807	$ 44,795,805	$ 44,391,646	$ 45,833,287	$ 211,689,461
16	Proposed Savings	**$ 11,267,827**	**$ 16,207,714**	**$ 20,131,451**	**$ 19,660,599**	**$ 20,998,449**	**$ 88,266,040**

STRATEGIST CASE SUMMARY

	Base Case (No Phase II)	Case 2 (120MW)	SAVINGS
Present Value Utility Cost[3] ($000)	6,896,417	6,479,101	417,316

Notes:

1. The Currrent LEAC is used in this case evaluation to demonstrate minimum savings potential with $115/MWH LEAC rate presently proposed for next LEAC period.

2. Projected LEAC is based on STRATEGIST software output that analyzes genernation costs for various generation resources and its operating characteristics. This LEAC is based on load and fuel forecasts done by LEIDOS in 2016.

3. Present Value Utility Cost is an evaluation of generation operating costs in the STRATEGIST software. This is used to determine cost impact of generation resources and their operation variables (efficiency, fuel costs, capacity, etc.) based on energy requirements.

EXHIBIT D
Historical LEAC Summary

EFFECTIVE DATES	FUEL RECOVERY RATE ($ per Kwh)
10/01/00	0.053613
04/01/01	0.053613
10/01/01	0.048625
04/01/02	0.042901
10/01/02	0.048831
04/01/03	0.048831
10/01/03	0.062333
04/01/04	0.059753
10/01/04	0.059753
01/01/00	0.073010
01/01/00	0.088918
01/01/00	0.098589
02/01/07	0.108893
08/13/07	0.123957
03/01/08	0.150467
06/01/08	0.170440
10/01/08	0.187750
12/01/08	0.171050
02/01/09	0.157630
05/01/09	0.136450
08/01/09	0.129670
02/01/10	0.150460
08/31/10	0.124650
02/01/11	0.161530
08/01/11	0.192220
02/01/12	0.191980
04/01/12	0.192310
02/01/13	0.209271
08/01/13	0.182054
02/01/14	0.172986
08/01/14	0.176441
11/01/14	0.146666
02/01/15	0.102054
08/01/15	0.104871
02/01/16	0.086613
08/01/16	0.086613
02/01/17	0.105051
08/01/17*	0.115725

**Proposed LEAC Rate*

EXHIBIT E

Projected Renewable Energy & Renewable Portfolio Standards (RPS) for 120 MW Phase II Award

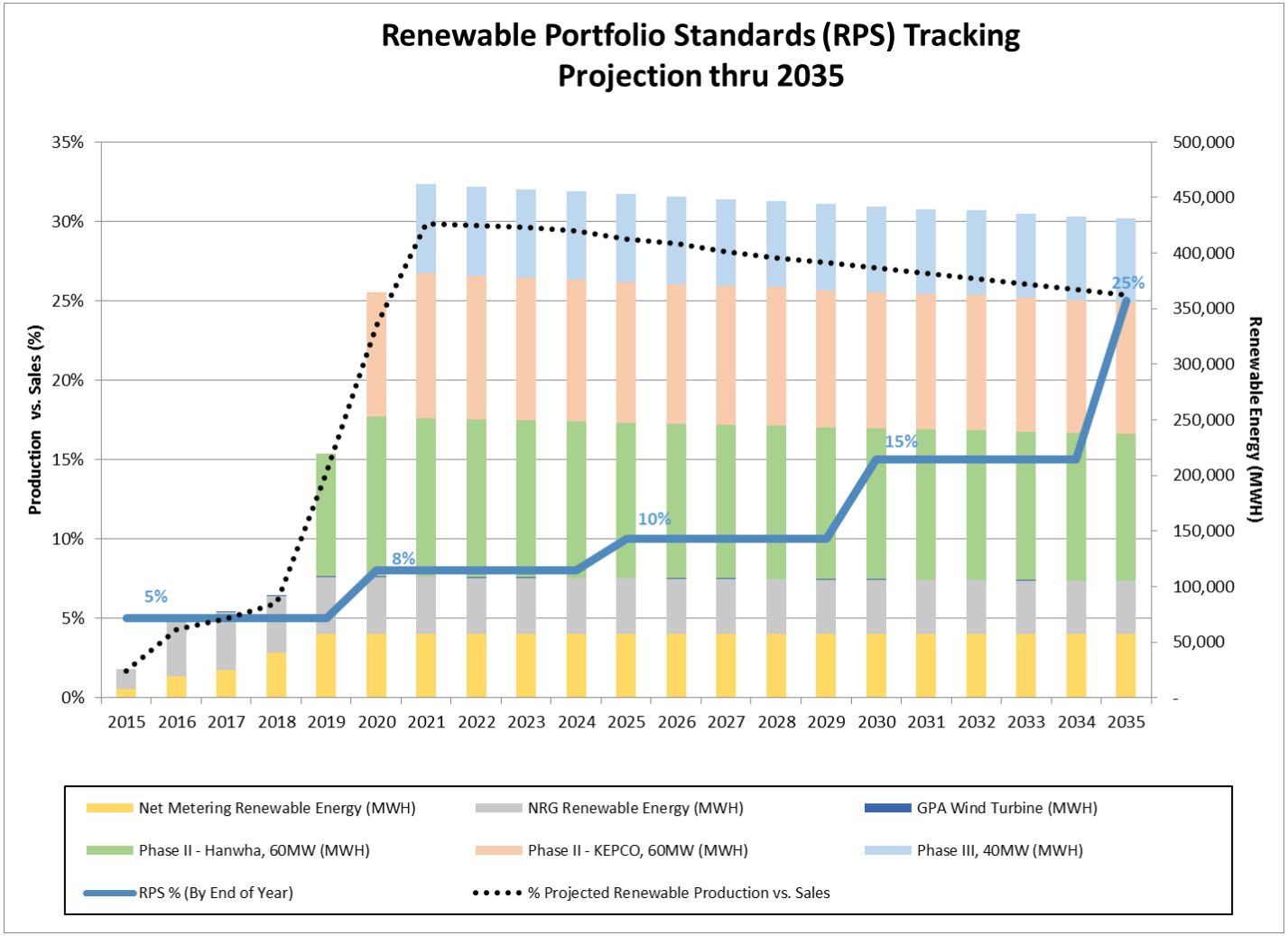
RPS PROJECTIONS

	Net Metering Renewable Energy (MWH)	NRG Renewable Energy (MWH)	GPA Wind Turbine (MWH)	Phase II - Hanwha, 60MW (MWH)	Phase II - KEPCO, 60MW (MWH)	Phase III, 40MW (MWH)	Total Renewable Production (MWH)	GPA Total Sales (MWH)	% Projected Renewable Production vs. Sales	RPS % (By End of Year)
2015	8,034	17,597					25,630	1,536,927	2%	5%
2016	19,559	48,221	474				68,253	1,584,685	4%	5%
2017	25,271	51,627	482				77,380	1,546,044	5%	5%
2018	40,393	51,412	482				92,287	1,554,108	6%	5%
2019	57,629	51,133	482	110,334	-		219,578	1,557,331	14%	5%
2020	*57,629*	50,992	482	143,840	112,165		365,108	1,558,272	23%	8%
2021	*57,629*	50,601	482	142,668	130,325	80,510	462,215	1,547,800	30%	8%
2022	*57,629*	50,393	482	141,908	129,087	80,175	459,674	1,544,574	30%	8%
2023	*57,629*	50,083	482	141,148	128,288	79,740	457,370	1,544,540	30%	8%
2024	*57,629*	49,781	482	140,791	127,830	79,520	456,032	1,550,854	29%	8%
2025	*57,629*	49,599	482	139,627	126,689	78,911	452,937	1,566,472	29%	10%
2026	*57,629*	49,391	482	138,866	125,890	78,585	450,843	1,577,646	29%	10%
2027	*57,629*	49,122	482	138,105	125,091	78,102	448,531	1,597,005	28%	10%
2028	*57,629*	48,987	482	137,739	124,624	77,631	447,092	1,614,448	28%	10%
2029	*57,629*	48,612	482	136,582	123,492	77,348	444,145	1,620,517	27%	10%
2030	*57,629*	48,411	482	135,821	122,693	77,023	442,058	1,631,977	27%	15%
2031	*57,629*	48,147	482	135,059	121,894	76,604	439,814	1,644,069	27%	15%
2032	*57,629*	48,017	482	134,683	121,418	76,393	438,622	1,661,486	26%	15%
2033	*57,629*	47,649	482	133,534	120,295	75,808	435,397	1,670,464	26%	15%
2034	*57,629*	47,451	482	132,772	119,496	75,495	433,324	1,684,195	26%	15%
2035	*57,629*	47,191	482	132,009	118,696	75,083	431,090	1,698,373	25%	25%

Notes:

1. Sales is from 2016 forecast for 2017-2035 (LEIDOS Jan. 2016 Forecast)
2. Net Metering projection is from LEIDOS Forecast for 2017 thru 2019 and fixed thereafter
3. NRG (Phase I) production is based on contract guarantees from 2017 thru 2035
4. Phase II is based on Project Guarantees **for 120MW**. Phase III renewable projections are based NRG contract guarantees.
5. GPA wind turbine assumes average capacity factor since commissioning (20%) from 2017 thru 2035
6. DSM values are not included.

EXHIBIT E


Renewable Portfolio Standards (RPS) Tracking
Projection thru 2035
Production vs. Sales (%)
Renewable Energy (MWH)
35%
30%
25%
20%
15%
10%
5%
0%
500,000
450,000
400,000
350,000
300,000
250,000
200,000
150,000
100,000
50,000
-
2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035
5%
8%
10%
15%
25%
Net Metering Renewable Energy (MWH)
NRG Renewable Energy (MWH)
GPA Wind Turbine (MWH)
Phase II - Hanwha, 60MW (MWH)
Phase II - KEPCO, 60MW (MWH)
Phase III, 40MW (MWH)
RPS % (By End of Year)
% Projected Renewable Production vs. Sales

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

GWA Resolution No. 36-FY2017 / GPA Resolution No. 2017-26
Relative to the Revision of Membership of the Consolidated Commission on Utilities Audit Committee

What is the project's objective and is it necessary and urgent?
The Resolution is necessary as an internal audit function within the organization and since GPA and GWA hired Internal Auditors and the work requirement of the Audit Committee has increased to include review and the disposition of audit reports from the Internal Auditor, therefore the revision of the membership needs to be revised, to include updating the CCU, GPA and GWA management titles.

Where is the location?
N/A

How much will it cost?
N/A

When will it be completed?
N/A

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. 36-FY2017
GPA RESOLUTION NO. 2017-26

RELATIVE TO THE REVISION OF MEMBERSHIP OF THE CONSOLIDATED COMMISSION ON UTILITIES AUDIT COMMITTEE

WHEREAS, a broadly recognized practice in medium to large sized organizations is to have within the organization, an Audit Committee to monitor the integrity of the financial statements of the organization, to review material financial reporting judgments, to review the internal financial control system of the organization, to monitor and review the effectiveness of the organization's Internal Audit functions and its business practices and procedures, to receive internal audit reports, to meet with external auditors regarding audit issues, and to periodically advise the governing body as a whole of such matters; and

WHEREAS, in 2003 the Consolidated Commission on Utilities ("CCU") established an Audit Committee made up of two (2) commissioners, the GPA General Manager, the GWA General Manager, and the Chief Financial Officer for purposes which included approving the audit plan of the Internal Auditor, receiving internal audit reports, following up on audit findings, and meeting once a year with the external auditors; and

WHEREAS, in 2005, the make-up of the Audit Committee was revised to include all the members of the Consolidated Commission on Utilities and the Committee to meet once yearly with GPA's external auditors; and

WHEREAS, a key component of an internal control system is an internal audit function within an organization; and

//

//

WHEREAS, GPA and GWA hired Internal Auditors and the work requirement of the Audit Committee has increased to include review and the disposition of audit reports from the Internal Auditors; and

WHEREAS, in 2013 the make-up of the Audit Committee was revised further to reference title of the members; and

WHEREAS, the CCU desires that the resolution should make references to updated CCU and GPA/GWA management titles held; and

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

1. Effective immediately, the Guam Power Authority Audit Committee shall be made up of the Treasurer of the CCU who shall serve as the Chairperson of the Committee and another member of the CCU, chosen by the Committee Chairperson, who shall serve as Vice-Chair of the Committee, and the GPA General Manager.
2. Effective immediately, the Guam Waterworks Authority Audit Committee shall be made up of the Treasurer of the CCU who shall serve as the Chairperson of the Committee and another member of the CCU, chosen by the Committee Chairperson, who shall serve as Vice-Chair of the Committee, and the GWA General Manager.
3. Effective immediately, the Audit Committees will meet at the call of the Committee Chair, and may include the attendance of personnel from each respective Internal Audit Offices, or other GPWA staff as the Committee Chair deems appropriate.

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

//

//

DULY AND REGULARLY ADOPTED, this 6th day of June, 2017.

Certified by: Attested by:

_____ _____

JOSEPH T. DUENAS **J. GEORGE BAMBA**
Chairperson Secretary

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: _____

NAYS: _____

ABSTENTIONS: _____

ABSENT: _____

///

///

///

///

///

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

Regular Board Meeting
CCU Conference Room, Gloria B. Nelson Public Service Building
5:30 p.m., May 23, 2017

MINUTES

1. **CALL TO ORDER**

The Chairman called the regular monthly meeting of May 23, 2017 to order at 5:35 p.m. He announced that four (4) Commissioners were present and there was a quorum. Comm. Sanchez was excused.

Others present include:

Commissioners:

Joseph T. Duenas	CCU Chairman
Francis Santos	CCU Vice Chairman
George Bamba	CCU Secretary
Judi Guthertz	CCU Treasurer

Executive Mgmt.:

John Benavente	GM / GPA
Miguel Bordallo	GM / GWA
Melinda Camacho	AGMO / GPA
Tricee Perez	AGMA / GPA
John Cruz	AGMET / GPA
Greg Cruz	CFO / GWA
Kelly Clark	Staff Attorney / GWA

Management & Staff:

Paul Kemp	AGM Compliance & Safety / GWA
Dave Fletcher	GWA
Vincent Pangelinan	GWA Procurement
Heidi Ballendorf	PIO / GWA
Karen Grape	GWA
Ron Topasna	GWA
Vangie Lujan	GWA
Tom Cruz	Chief Engineer / GWA
Joy Pascua	GWA Accounting
Sandra Santos	GWA Accounting
Joyce Sayama	Mgmt. Analyst / GPA Ex. Office
Kathy Beleno	Mgmt. Analyst / GWA Ex. Office
Lou Sablan	Board Secretary / CCU

Guest:

Charlene Calvo	IP&E

Angelica Perez	AM Insurance
Bill Chang	Brown&Caldwell
George Watson	Brown&Caldwell
Kurt Bilz	Brown&Caldwell
Bill Gilman	Brown&Caldwell
Nestor Locanto	KUAM
Jeff Johnson	PUC
Fred Horecky	PUC
David Martin	AM Insurance
Juan Muna	AM Insurance
Angie Perez	AM Insurance

2. APPROVAL OF MINUTES

The Minutes of April 18, 2017 was presented for approval.

Comm. Guthertz motioned to approve the Minutes subject to verification and written correction. Comm. Bamba seconded. There was no further discussion or objection and the motion passed.

3. COMMUNICATIONS

3.1 Public Comments - None

4. NEW BUSINESS

4.1 GPA

4.1.1 GM Report Update

GM Benavente gave his usual GM Update.

1. System Capacity Recovery Plan:

- The Dededo Combustion Turbine Plant units #1 & #2 each has been cleared for emergency operations at 20MW each. The plant was used recently to support the maintenance of two baseloads. Guam Environmental Protection Agency (GEPA) has issued approval to operate the plant. I have moved commissioning to sometime in June/July timeframe in order to complete certain work on plant auxiliaries and fire protection.
- The following summarizes our current reserve capacity for May. The highest peak demand so far this month was 256MW compared to the May 2016 peak demand of 254MW.
- Cabras #1 is scheduled for a 60 day overhaul from July 15 thru Sept 15, 2017. This would be our most vunerable period of CY 2017 because peak demand would be at its highest. We will be asking NavFac to support us during this period with the Orote units under extreme emergency.

Generating Capacity Summary :

18-May-17

Generating Units	**May-17**	**Cabras 1 Overhaul July 15 thru Sept 15, 2017**
CABRAS 1	40	**0 (a)**
CABRAS 2	63	63
MEC8	44	44
MEC9	44	44
AGGREKO	40	40
MEDIUM SPEED DIESELS (10 Units)	28	36
YIGO CT	15	20
MACHECHE CT	20	20
TEMES CT	39	39

DEDEDO CT1	20	20
DEDEDO CT2	20	20
AVAILABLE CAPACITY	**373**	**346**
EXPECTED PEAK DEMAND (b)	**256**	**265**
RESERVE	**117**	**81**
Orote Plant (subject to NavFac approval)		**18**
GPA Standby Generators		**10**
Total Reserve/Emergency Capacity		**109**
Less 2nd Largest Unit		**63**
Less 3rd Largest Unit		**44**
Capacity Balance		**2**

(a) Cabras 1 on Scheduled 60 days Boiler/Turbine Overhaul

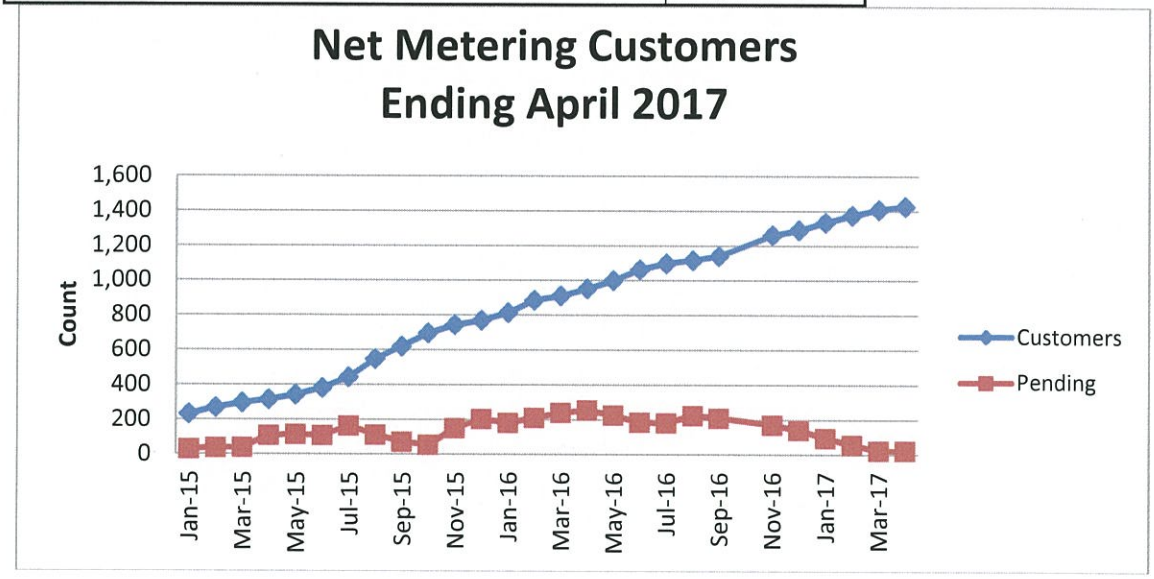
(b) Highest exposure is peak demand period between 6pm to 10pm

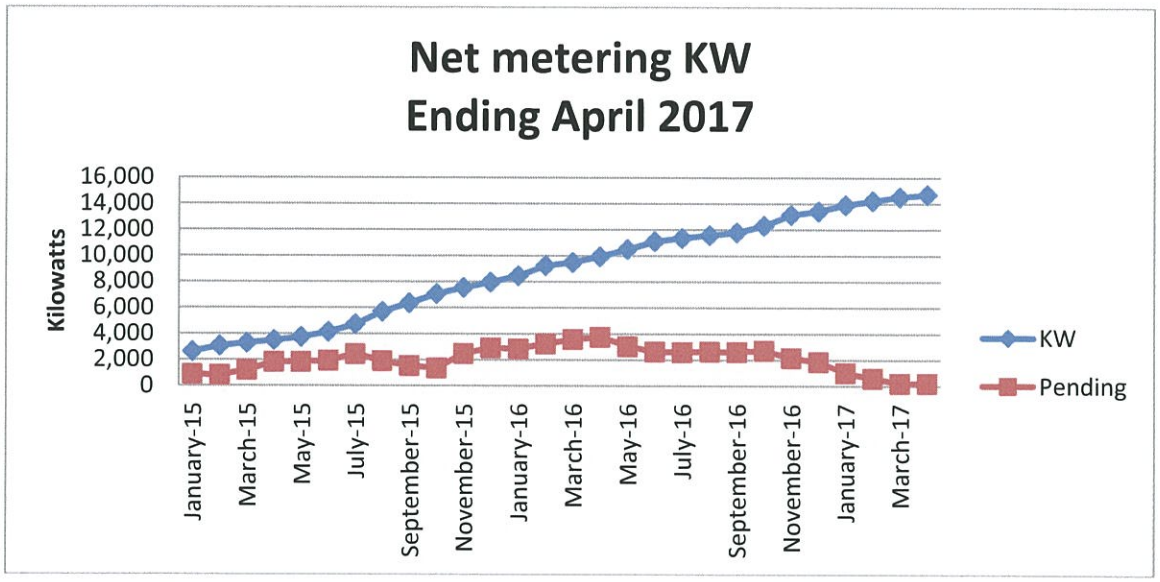
- **Net Metering: Net Metering Summary Ending April 2017:**

Description:	**Count**	**Kw**
Active	**1,427**	**14,675**
Pending	25	195
Totals:	1,452	14,870

Service:	**Count**	**KW**	**Kw/Customer**
Residential	1,352	12,137	9.0
Others	100	2,733	27.3
Total:	1,452	14,870	10.2
% Residential	**93.1%**	**81.6%**	

Estimated 12 Months Revenue Impact:	**$2,726,954**
Cumulative Revenue Impact FY2009 to FY 2016	**$3,774,761**





2. Renewable Energy Production Summary Thru April 2017:

Energy Production Source:	Kwh	Oil Barrels Avoided	Fuel Cost Avoided
NRG Total Production beginning Oct 2015	80,506,161	130,395	$7,171,751
Net Metering Estimated Production beginning Jan 2015	35,778,966	57,951	$3,187,307
Wind Power Production beginning Jan 2016	622,465	1,008	$55,451
Renewables Total:	**116,907,592**	**189,355**	**$10,414,508**
System Heat Rate Kwh/Gal	14.7		
System Fuel $/Bbl.	$55.00		

3. DSM Program: Rebates thru May 1st 2017



- As of April 30, 2017, GPA has paid $444,754 for rebates and contractual services (excluding GPA labor).

4. **Phase II Renewables Bid:**
   - The system impact study for the Phase II renewables continues and is near a point where GPA would have adequate information to make its recommendation. I am targeting the June 6th CCU meeting for a decision.

5. **Navy Land Lease for Phase III Renewables:** The lease signing ceremony was conducted on May 16, 2017 at 10am. GPA will now proceed on issuing Phase III renewables bid within the next three months. The lease is for 164 Acres which translate to about 40MW of renewables.

6. **Key Performance Indicators:** Graphs related to historical monthly peak demand, historical kWh sales, system gross heat rate, gross net generation kwh, fuel cargo and fuel consumption were included in the report but not included here. The full report is in Master File.

4.1.2 Financials

The CFO reported that April base revenues are within budget; revenue is positive by 2.6M; fuel revenue is lower than projections but better than prior year. Customer growth still slow and steady; operating expense low and better than budget 4.4M better than prior year. Debt service 2.1 better than target

4.1.3 Resolution 2017-12 Write-Off of GPAs Account Receivables

Although utilities make best efforts to minimize losses resulting from uncollectible accounts, the service nature of utility activities makes it impossible to prevent such losses once an account has become inactive (disconnected). GPA Customer Service division has made significant strides towards eliminated losses resulting from uncollectible accounts and has brought GPA to a bad debt loss level that is consistent with the best utilities in the country.

It is standard practice for utilities to review their accounts receivable records from time to time to remove accounts that have been determined by the utility to be uncollectible. GPA last wrote off Fiscal Year 2011 uncollectible accounts in March 2015.

GPA's Chief Financial Officer has reviewed outstanding accounts from October 1, 2010 to September 30, 2016 and has determined that the following amounts should be written off:

FY2012	$ 738,246.38
FY2013	$ 1,015,790.95
FY2011 and prior years not yet written-off	$ 1,249,780.74
Total Proposed Write-Off:	$ 3,003,818.07

Comm. Bamba motioned to approve Resolution 2017-12; Comm. Guthertz seconded.

In discussion it was mentioned that this write-off would have no impact on profit and loss and that it will reduce allowances. The CFO mentioned that this process happens 1x per year

There was no further discussion or objection and the motion passed.

4.1.4 Resolution 2017-13 GPA's Billing Statement Production Graphic Center

On April 6, 2016, the Guam Power Authority (GPA) entered into a contract with Graphic Center, Inc. to provide professional printing, mailing and processing services of approximately 50,000 electric power billings each month. The original contract became effective on April 18, 2016 for a one (1) year period from the date of award of the contract with the option to extend the contract for four (4) additional one-year periods. The cost of this contract is $0.396/single page invoice with an estimated annual total

of approximately $240,000.00 per year. The total cost of the first base year and the option to exercise the extension of four (4) additional one-year periods is estimated to be $1,200,000.00.

Comm. Santos motioned to approve Resolution 2017-13; Comm. Bamba seconded. There was no further discussion or objection and the motion passed.

4.1.5 Resolution 2017-14 Purchase of New Bucket Trucks

The objective of the purchase is to maintain efficiency by replacing aged bucket trucks and to provide reliable equipment to allow line crews to conduct repairs and maintenance on the transmission and distribution system in an efficient and cost effective manner. Unreliable equipment translates to extended outages and longer response times. Bucket trucks will service the transmission and distribution system island wide. There were (2) proponents and Morrico Equipment was determined the lowest and most responsive bidder. Delivery is set at 360 days after Notice to Proceed and the funding source is the FY17 General Plant Capital Improvement Project Budget as approved by the CCU and PUC.

Below is the repair assessment for existing bucket trucks and the estimated cost for the purchase of (3) new bucket trucks.

Official #	Description	Year	Repair Assessment
3637	Bucket Truck(IHC)	24 years (1993)	Lower boom overhaul and suspension repairs
4517	Bucket Truck(Freightliner)	10 years (2007)	Complete aerial overhaul
4661	Bucket Truck(IHC)	22 years (1995)	Engine replacement

Item	Vendor	Qty	Unit Cost	Extended Cost
55' Bucket Truck	Morrico Equipment	3	$220,855.00	$662,565.00

Comm. Guthertz motioned to approve Resolution 2017-14; Comm. Bamba seconded. There was no further discussion or objection and the motion passed.

4.1.6 Resolution 2017-15 Ratification of POLL VOTE on Additional Ultra Low Sulfur Diesel (ULSD) and Lease Additional Storage Tank

This matter was passed via POLL VOTE on May 18-19 with 4 yes and 1 abstention. It is presented here for official ratification.

The Guam Power Authority, through Resolution 2014-37 has awarded the supply of ULSD for Northern CT Plants, TEMES CT Plant, Cabras Plant, MDI Plant and Talofofo Plant to Mobil Oil Guam, Inc. The contracted quantities of about 3.3M gallons for FY-2017 have been exceeded. Mobil continue to supply ULSD to GPA, but with a limited allocation of about 42,000 bbl per month, or higher, if excess volume is available. GPA currently stores about 40,000 bbls of ULSD at the leased tank at the Tristar facility as contingency inventory in the event of sudden spikes in demand due to unforeseen forced outages. On a worse-case scenario, the estimated ULSD consumption can increase up to 4,700 barrels per day, and the current contingency inventory will only be good for about 8 days. During the month of April 2017, in addition to the scheduled overhaul of MEC Unit 8, forced outages to the Cabras 1&2 power plants for a combined outage of about 15 days increased the ULSD consumption to about 4,700 per day. Mobil

allocation of 42,000 barrels for the month of April 2017 to GPA have been consumed and does not have excess supply for GPA. GPA was forced to utilize the contingency inventory at the leased tank at Tristar facility, and the remaining contingency inventory in the leased storage at the Tristar Terminals will not be sufficient for the period from May up to the arrival of Mobil's ULSD shipment in June 08, 2017.

GPA intend to increase the contingency inventory to 15 days to ensure the reliability of ULSD supply to the power plants in the event of sudden spikes in demand due to unforeseen and prolonged forced outages. The 15-day contingency inventory will require about 80,000 to 90,000 bbls of additional ULSD product. GPA would need about 80,000 to 90,000 bbls of additional ULSD product to cover the contingency requirements for May 2017. The remaining inventory from Mobil will only supply GPA until May 19, 2017. About 45,000 bbls of additional ULSD product is readily available for immediate supply and delivery by IP&E Guam to other GPA sites in addition to the Tenjo Vista plant. However, it is anticipated that it will be consumed by May 29, 2017. IP&E have also agreed to supply an additional 60,000 bbls of ULSD to for shipment to GPA before May 29,2017 to cover the immediate need for additional ULSD supply for the period from May 29 thru June 8, 2017.
The total estimated cost for about 105,000 bbls of ULSD that will be supplied by IP&E is about $8,000,000. The service fee offer for the supply and delivery of the additional ULSD product from IP&E shall be $0.17 gallon.

In discussion it was decided to amend the resolution and to include the total dollar value in the resolved section of the resolution.

Comm. Guthertz motioned to approve the amendment; Comm. Santos seconded. The amendment to the resolution passed.

On the main motion, the vote passed as per poll vote of 4 yes and 1 abstention.

4.1.7 Resolution 2017-16 LEAC Adjustment

The Guam Public Utilities Commission (GPUC) has established a Tariff under which the Guam Power Authority (GPA) is allowed to recover its fuel costs and fuel related costs under a factor which is reset and trued up every (6) six months through the Levelized Energy Adjustment Clause (LEAC). In the past, GPA experienced the highest LEAC rate of $0.209271/kWh in February 2013 to the lowest rate of $0.086613/kWh from February 2016 to January 2017, which was a drop of 58%. The LEAC periods covered from February 1, 2016 through January 31, 2107, GPA maintained the secondary LEAC rate of $0.086613/kWh in anticipation of lower stabilized prices in the fuel market; during this period, however, GPA recognized a $6.5M under-recovery of fuel costs as market fuel prices rose instead.

For the LEAC periods covered from February 1, 2017 to July 31, 2017, GPA obtained the secondary LEAC rate of $0.105051/kWh which was 50% of full recovery of $0.123494/kWh to alleviate the impact on ratepayers. The market price of fuel in the initial filing for the current period was projected to be $54.59/bbl for the (6) six-month period ending July 31, 2017, the current projection for the same period is $55.38/bbl and the projected price of fuel for the period ending January 31, 2018 is $56.79/bbl. The recent news that OPEC members and Non-OPEC countries will be supporting the extension of production cuts until March 2018 resulted in fuel oil market price spikes to above $50/bbl and projected to continue to be between $50-$55/bbl range in the next several months.

GPA prefers to gradually true up fuel oil cost by phasing in increases over two (2) LEAC periods in order to again alleviate the impact on ratepayers, and therefore recommends the next LEAC rate to recover only half of the estimated total under recovery to lessen the impact to our ratepayers. For the current LEAC periods covered from August 1, 2017 to January 31, 2018, GPA requests the secondary LEAC rate of $0.117755/kWh which is again 50% of full recovery of $0.130450/kWh to alleviate the impact on ratepayers.

GPA has determined that in a phase in approach the Levelized Energy Adjustment Clause factor for secondary voltage service customers as well as alternative voltage customers will need to be increased from *$0.105051/kWh to $0.117755/kWh* for the period of August 1, 2017 to January 31, 2018.

In the phase in approach the effect of the change in the LEAC rate will result in an *increase in the total bill by 6.4% or about a $12.70 increase on a 1000 kWh power bill*, in order to recover 50% of the projected under-recovery. Based on the phase in approach, an under-recovery of about $7.8M is anticipated by the end of the LEAC period on January 31, 2018 which will not significantly impact working capital and other financial ratios.

Comm. Bamba asked what the increase meant in dollars and it was reiterated the increase would reflect $12.70 on 1000 kWh of power consumed. Comm. Guthertz stated that an increase is hard on people and GPA must embark on a strong publicity campaign to clearly explain to the public. The Chairman again stated for the record that the LEAC charge is a pass thru charge and that GPA does not make any money. GPA is only recouping what was paid in advance to the fuel supplier on behalf of all ratepayers.

Comm. Bamba motioned to approve Resolution 2017-16; Comm. Santos seconded. There was no further discussion or objection and the motion carried.

4.1.8 Resolution 2017-17 Bond Issuance to Refinance 2010 Revenue Bonds

GPA has been pursuing strategies for reducing debt service payments. One strategy that has emerged as a result of historically low interest rates has been the concept of refunding portion of GPA's 2010 Series A revenue bonds for interest rate savings.

GPA expects that opportunities will arise from time to time to refund all or a portion of its other then outstanding revenue bonds for debt service savings, which is expected to result in potential savings to ratepayers. Low interest rate warrants action from the CCU.

After several months of reviewing this strategy with Barclays, GPA Bond Counsel, and GEDA, GPA believes this strategy provides significant benefit for GPA ratepayers. This transaction will need the approval of the Guam Legislature, GEDA, the PUC, and the Governor. The CCU desires to pursue this plan for refinancing of GPA's debt service costs in order to provide a net present value savings to ratepayers.

The present value of debt service on the refunding bonds will be at least two percent (2%) less than the present value of debt service on the prior bonds, using the yield on the refunding bonds as the discount rate.

The GM mentioned that this Legislation is similar to GWA's legislation; Comm. Guthertz said she understands that approval of this measure will mean savings on the bond. She asked if these savings can be tapped by the legislature. The Chair responded no because there are bond covenants that GPA must adhere to. The goal is not to impact the ratepayer with a base rate increase

Comm. Santos motioned to pass the resolution; Comm. Guthertz seconded. There was no further discussion or objection and the motion passed.

4.1.9 Resolution 2017-18 Secured Web Gateway Application Software

The Consolidated Commission on Utilities strongly supports Cyber-Security initiatives to identify opportunities to ensure a safe and secured network infrastructure. The Consolidated Commission on Utilities strongly supports GPA to build a Secure and Reliable Network Infrastructure that is resilient to today's evolving cyber- threat landscape. GPA seeks to procure, install, configure, test and deploy the

Secure Web Gateway solution to protect GPA's Web accessing Servers, Client PCs and Devices. GPA's evaluation committee has selected Pacific Data Systems, who was the only responding bidder. GPA's evaluation committee recommended the award of the RFP GPA-036-17 to Pacific Data Systems.

Pacific Data Systems offers met the requirements of GPA's specifications and the amount offered of $317,110.63 has been determined to be fair and reasonable, and the cost for the application software with 1,000 users includes Active-Active state, which is defined as 2 applications running concurrently to ensure redundancy and resiliency. The funding source for this procurement is revenue funds.

Description	Amount
Secured Web Gate	$220,396.41
Reporting Solutions	$33,937.25
Installation, Configuration & Deployment	$40,473.01
Annual Support Services	$3,070.58
Training	$19,233.38
Total Cost	**$317,110.63**

In discussion Comm. Guthertz asked if this software will also benefit GWA and the response was yes. IT has been advised that all procurement must benefit both agencies even if one agency does not need it at this time.

Comm. Bamba motioned to approve Resolution 2017-18; Comm. Guthertz seconded. There was no further discussion and the motion carried.

4.1.10 Resolution 2017-19 Purchase of 45ft. Class B Concrete Power Poles

This procurement is to replenish GPA stock 45' concrete power poles. 45' concrete power poles are required to replace damaged power poles, replace existing wooden power poles, and for line extensions to service new customers. GPA's current balance of power poles is 266 ea. The minimum safety stock amount is 189. At the current rate of usage and the forecasted usage, GPA procurement anticipates the balance of 45' power poles to be below the minimum safety stock level of 189 in under 5 months. The anticipated purchase cost is $749,600 and will be funded with revenue funds. Delivery is about August 2017

America's Best Electricmart Inc. and Benson Guam Enterprises Inc. submitted bids for GPA's consideration. GPA's Evaluation Committee has determined *Benson Guam Enterprises Inc.* to be the lowest responsive bidder for the 45 foot Class B concrete power poles.

The Chairman said this resolution is a basic procurement for supplies and asked for a motion.

Comm. Santos moved to approve Resolution 2017-19; Comm. Bamba seconded. There was no further discussion or objection and the resolution passed.

4.1.11 Resolution 2017-20 Engineering / Technical Services to Support GPA Resource Plans

GPA was approved to solicit Engineering and Technical Services Supporting GPA's Resource Plan, specifically for the execution of the following tasks:

(1) Technical Assessment, Transition Support and planning for future operation and maintenance of GPA's Piti #7 (Combustion Turbine and Piti #8 and 9 (Slow Speed Diesel) units. These are currently owned by independent power producers, but ownership will transfer to GPA in December 2017 and January 2019 respectively.

(2) Technical Assessment, Engineering & Technical Support for Major Maintenance and Activities, and Transition Planning from RFO to ULSD, for GPA's Fuel Bulk Storage Facility. This also includes planning for future operation and maintenance of the facility.
(3) Other Services related to planning for and executing resource plans such as, but not limited to: Engineering Planning Support GPA's Integrated Resource Plan; a feasibility study on other types of power generating units such as waste-to-energy facilities.

GPA evaluated several proposals from proponents and found LEIDOS to be the most qualified proponent. It is necessary and urgent to award the contract to LEIDOS to complete work necessary to ensure proper transfer of ownership of the Piti #7 Plant and Piti #8 and 9 Plant to GPA, as well as to meet deadlines for the transition to ULSD. The selected firm is based in the US, but will travel to Guam for assessment of facilities as required.

The services to be provided are estimated to cost up to $1,000,000.00 for Calendar Years 2017 and 2018, depending on the workload assigned to the consultants and urgency of projects. The contract is planned for an initial period of five (5) years, with the option to extend for five (5) additional annual extensions. Most of the services will be funded through O&M, and some through CIP if it involves procurement of equipment, construction, modification and others. The RFP will commence after CCU and PUC approval.

In discussion Comm. Santos asked for clarification on line 22 asking if reference is for calendar year or fiscal year and the GM responded calendar year ending December 2018. The chairman said the GM needs to work on transition of bringing Cabras 7,8 and 9 over to GPA. RE TEMES 7 GM said that discussion of takeover is ongoing. Comm. Bamba asked if management heard from USEPA relative to this matter. Legal Counsel Botha responded that USEPA is still looking over the finances and to date USEPA inquiries have been related to fuel consumption and the like.

Comm. Santos motioned to approve the resolution as presented; Comm. Bamba seconded. There was no further discussion or objection and the motion passed.

4.1.12 Resolution 2017-21 Procurement of 34.5kV SF6 Breakers

This project upgrades the existing aging 34.5 kV power circuit breakers to SF_6 breakers to improve system reliability and personnel safety. The failure of antiquated oil circuit breakers poses a severe burn hazard as the insulating medium is expelled in the air during an explosion and is flammable at high temperatures. The new SF_6 breakers will replace equipment installed at the Barrigada and Harmon Substations and will cost $291,335.00. The expected completion date is February 28, 2018.

GPA has Capital Improvement Project (CIP) funds identified for SF6 circuit breaker upgrades in their approved FY2017 budget plan.

Five proponents submitted bids - R&D Marketing, America's Best Electricmart Inc., Benson Guam Enterprises Inc., JMI Edison, and Polyphase System Inc. submitted bids for the 34.5kV SF6 Circuit Breakers as part of bid GPA-037-17. *Polyphase System Inc.* was the lowest responsible and responsive bidder for the 34.5kV SF6 Circuit Breakers (Line Item 2.0) and was subsequently awarded the bid.

Comm. Santos motioned to approve Resolution 2017-21; Comm. Bamba seconded. There was no further discussion or objection and the motion carried.

4.1.13 Resolution 2017-23 Land for 180MW Power Plant

The acquisition of land is critical in developing the bid specifications for the bid for the new generation power plant. GPA issued a Multi-Step bid for land in February 2017 which only attracted two bid proposals and was cancelled due to both bids not complying with the bid specifications. There are concerns based on the lack of participation in the recent bid and potential additional delays in the bid

process which may significantly delay the procurement for the new generation power plant. GWA was recently approved to purchase 17 Acres from Guam Ancestral Lands Commission (GALC) for the expansion of the Northern District Wastewater Treatment Plant (NDWWTP). GWA, with support from GALC, successfully obtained legislation authorizing GWA to purchase the property and zone the land for Public Use. GALC has substantial Acreage adjacent to the GWA purchased land which would be ideal for the new generation power plant. A similar arrangement to the GWA purchase would expedite the procurement process for the new generation power plant. GPA has recently determined after consultation with the Engineering, Procurement & Construction Management (EPCM), that it would need closer to 40 acres for the power plant, substation, liquid and natural gas fuel storage and operating facilities. GPA is seeking authorization to pursue a purchase from GALC of 40 acres and any legislation required under a similar arrangement as the recent GWA purchase. Land is adjacent to the site where GWA will be building the NDWWT Plant in Harmon.

Compensation has not been determined. Compensation for the property to include but not limited to land exchange, land lease, in kind services, purchase, or a combination of these options to be approved by Guam Power Authority (GPA), the Consolidated Commission on Utilities (CCU) and Guam Ancestral Lands Commission (GALC) and will have one hundred eighty (180) days to finalize a compensation agreement.

Comm. Santos asked what GPA owns around Tanguisson. There was discussion about cost of pipeline from Tanguisson uphill to the new property. There was discussion about storage capacity relative to tanks at Tanguisson. GM Benavente said management will look into this. There was mention that the fuel needs to be trucked not pumped.

Comm. Guthertz moved to approve Resolution 2017-23; Comm. Bamba seconded. There was no further discussion or objection and the motion passed.

The Chairman called for a 5-minute break. It was 6:50 p.m.

4.2 GWA

4.2.1 GM Report Update

The GM Report while not discussed was provided and is in Master File.

4.2.2 Financials – Not discussed

4.2.3 Resolution No. 28-FY2017 Construction Mgmt. Services Contract Amendment for the Southern SSES Rehabilitation–Phase II Project

The objective of the overall intent of the "Southern SSES Rehabilitation – Phase II (Santa Rita-Baza Gardens-Talofofo)" project is to reduce I&I within the wastewater collection system and decrease the volume of storm water that enters into the collection system tributary to the Baza Gardens and Agat-Santa Rita WWTPs causing GWA to incur additional costs to operate the sewer pump stations and treatment plants. GWA requires a construction manager to manage all construction activities therefore the request for approval of Change Order #2 is to ensure construction management services are available during periods when delays occur due to various reasons. In this particular case, the contractor is claiming additional delays however GWA is assessing the validity of these claims.

The construction manager submitted a cost proposal of Eighty One Thousand Four Hundred Fifty Five Dollars and Eighty One Cents ($81,455.81). The approval of the Change Order #2 will increase the overall contract amount to Two Hundred Ninety Eight Thousand Ninety Six Dollars and Fifty Cents ($298,096.50). The additional work is anticipated to be completed by the end of July 2017. The funding for this project will be USEPA Grant Funds and, if necessary, GWA Bond funds under WW 09-06 Wastewater Collection System Replacement/Rehabilitation

Comm. Santos motioned to approve the resolution as presented; Comm. Bamba seconded. There was no further discussion or objection and the motion passed

4.2.4 Resolution No. 29-FY2017 Baza Gardens Wastewater Cross Island Pumping and Conveyance Phase III Construction Project

The objective of the overall intent of the "Baza Gardens Wastewater Cross Island Pumping and Conveyance" project is to convey/pump the wastewater flowing to the Baza Gardens WWTP to the new Agat-Santa Rita WWTP along Route 17 and Route 2. This construction procurement is Phase III of multiple three phases. Phase I and II are currently in construction. Phase III includes, but not limited to, the construction of one sewer pump station located at the Baza Gardens WWTP facility, standby generator and above-ground fuel tank, equalization basins, and 10,481 linear feet of 10" diameter PVC force main. The impetus of this project is the 2011 Court Order requirements under Paragraph 13 but which GWA has established deadlines under Paragraph 14. The urgency for this project is that GWA is working to complete the entire project, including Phase III, by April 30, 2018.

The bid proposal amount for Phase III is Fifteen Million Five Hundred Thirty Thousand Eight Hundred Ninety Two Dollars ($15,530,892.00). GWA management is also seeking a five percent (5%) contingency of the bid amount or Seven Hundred Seventy Six Thousand Five Hundred Forty Four Dollars and Sixty Cents ($776,544.60) which would bring the total authorized funding amount to Sixteen Million Three Hundred Seven Thousand Four Hundred Thirty Six Dollars and Sixty Cents ($16,307,436.60). The project completion date is around April 30, 2018 and the funding source is Bond Funds and CIP's

Comm. Santos motioned to approve Resolution 29-FY2017; Comm. Bamba seconded. There was no further discussion or objection and the notion passed.

4.2.5 Resolution No. 30-FY2017 GWA's FY2017 Annual True-Up

The purpose is to approve GWA's 2017 True-Up and Fiscal Year 2018 Budget. This document must be submitted to the Public Utilities Commission by June 1, 2017 as required by the GWA's Five (5) Year Rate Plan approved by the CCU and PUC in 2013.

The Fiscal Year 2018 Budget requests a 4% increase for basic and non-lifeline rates across all customer classes (as originally earmarked in the Rate Plan) and a 3.75% increases for the legislative surcharge.

FY 2018 water, wastewater and other sources of revenues and O&M expenses are estimated at approximately $112 million and $84 million respectively. Upon submission in June, the PUC will conduct its review over the summer and normally provides approval by August or September 2017. The funding source for this matter is revenues.

Chair made it clear that this does not include the borrowing that GWA wants to do in the next few months. Comm. Bamba further commented that GWA management must be certain that GWA's debt service is met and ratios are maintained because we could go into technical default which we cannot afford.

Comm. Santos moved to approve; Comm. Bamba seconded. There was no further discussion or objection and the motion passed

4.2.6 Resolution No. 31-FY2017/ GPA Resolution 2017-22 Relative to Authorizing an Increase of Obligating Authority for the General Managers of Guam Power Authority and Guam Waterworks Authority

The current obligating authority granted to the General Managers of GPA and GWA by the CCU is limited to $250,000. Any GPA or GWA expenditure above the $250,000 threshold requires the Consolidated Commission on Utilities approval. The Consolidated Commission on Utilities grants approval for expenditures above the $250,000 threshold based on sound justification and prudent governmental and

business practices. The current process requires GPA and GWA to return to the CCU for approval of any change orders of any amount approved above the $250,000 threshold.

The objective of the Resolution is for a streamlined approval process by allowing the General Managers of GPA and GWA the authority to obligate their respective agencies up to and including the threshold amount of $750,000.00. The $750,000.00 threshold will not alter or diminish the current statutory requirements of any applicable notification to the Guam Attorney General's office and/or Guam Public Utility Commission approval.

Comm. Santos motioned to approve Resolution 31-FY2017; Comm. Bamba seconded. There was no further discussion or objection and the motion passed.

4.2.7 Resolution No. 32-FY2017 Relative to Ratification of Purchases Under Indefinite Quantity Contract with Badger Meter Inc. for GWA Water Meters Various Sizes and Accessories

This request will be used in purchasing water meters to replace defective meters currently installed island wide. Based on AWWA recommendation Meter Maintenance practice normally meters last 20 years but because of Guam's unique climate conditions and other factors affecting meter performance, GWA meter projection performance will only last for 15 years. Therefore, we need to replace at least 3000 meters annually so that we could maintain our revenue to max. Finance is in agreement and we need to anticipate what locations to target every year.

The total was $947,120.46 for the purchases of water meters during the initial contract term of 3 years.

PO Purchases

Badger PO No	PO Amount	PO Date
299095	$35,205.27	2/22/2016
299176	$11,659.70	3/10/2016
299326	$3,001.71	3/30/2016
299501	$102,727.15	5/20/2016
299506	$107.30	5/20/2016
299508	$7,291.20	5/20/2016
299769	$10,722.58	8/12/2016
299861	$14,355.00	9/1/2016
299963	$43,088.30	9/26/2016
300089	$28,710.00	10/24/2016
300312	$49,793.35	12/14/2016
300343	$43,065.00	12/20/2016
300515	$57,420.00	2/7/2017
300583	$14,355.00	3/8/2017
300610	$50,242.50	3/23/2017
TOTAL	**$471,744.06**	
***as of 5/11/2017**		

Additional Purchases

Description	Amount	Qty
Badger MagMeters	$44,726.40	21 large meters various sizes
3/4" meters	$430,650.00	3,000 meters
Total	**$475,376.40**	

Summary

PO Purchases	$471,744.06
Additional Purchases	$475,376.40
TOTAL	**$947,120.46**

The indefinite quantity contract will be in place for an initial term of 3 years and purchases will be ongoing on an as-needed basis over the life of the contract term. The funding source was Internally Funded Capital Improvement Projects.

The GM commented that this ratification part is important because the original procurement was estimated at $150k per year for 3 years. In actuality our need exceeded this amount and approval was not sought prior to exceeding this amount for which he apologized.

Comm. Bamba moved to approve the resolution; Comm. Santos seconded. There was no further discussion or objection and the motion passed.

5. **OLD BUSINESS - None**

6. **ANNOUNCEMENTS**

6.1 Next CCU Meetings

The Chairman announced that the next CCU meeting would be on June 6th.

The Chairman said there were matters for discussion in Executive Session relative to litigation.

Chairman called for a 5-minute break before executive session; It was 7:09 p.m.

7. **EXECUTIVE SESSION**

7.1 Litigation Matter

This matter was discussed.

The meeting was moved to Regular Session again at 7:25 p.m. and the Chairman said a motion is in order.

Comm. Bamba motioned to approve the action of the Commission as discussed in Executive Session; Comm. Guthertz seconded. All were in favor with no objections.

8. **ADJOURNMENT**

There was no further business to bring before the Commission and the meeting was adjourned at 7:30 p.m.

\\s\\

bls

Attested:

JOSEPH T. DUENAS, Chairman

J. GEORGE BAMBA, Secretary

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

RESOLUTION NO. 2017–24

THE AUTHORITY REQUESTS FOR APPROVAL OF THE DEMAND SIDE MANAGEMENT EXPANDED INITIATIVES

WHEREAS, in February 2015 the PUC approved GPA's implementation plan for the four (4) DSM and EE programs for Central AC, Ductless Split AC, Washer and Dryer rebate program for residential customers; and

WHEREAS, upon obtaining PUC approval for the use of $1.8M from the Working Capital Fund in October 2015, GPA kicked off the DSM and EE program in December 2015 for the four (4) programs mentioned above; and

WHEREAS, as of April 30, 2017 GPA has paid $444,753.50 for rebates and contractual services (excluding GPA labor) to GPA Residential Customers for over 1500 energy efficient equipment summarized in Exhibit A attached; and

WHEREAS, GPA continues to receive and process applications and rebates for the initial four DSM and EE programs; and

WHEREAS, in July 2016, along with the GPA Revised Petition for Contract Review and GPA Response to PUC Order (GPA Docket 15-05), GPA submitted the final DSM report by LEIDOS referred to as the Energy Sense Program plan which proposed 18 additional DSM and EE programs; and

WHEREAS, GPA is recommending at the PUC's request the Authority to expand its DSM program with additional initiative shown in Exhibit B from the Energy Sense Program plan; and

WHEREAS, GPA is requesting for the approval of the expanded DSM initiatives as approved by the PUC on May 25, 2017, see attached PUC Order (GPA Docket 15-05) ; and

WHEREAS, GPA intends to fund these new programs and continue to fund the initial DSM and EE programs with the balance of the $1.8M funds previously approved, and to evaluate for further funding when the balance is exhausted.

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

1. Approves the ten (10) additional DSM initiatives consisting of Energy Audits, High Efficiency Rooftop Units, Building Energy Management System, High Efficiency Split Ducted A/C System, Variable Refrigerant Flow A/C (Residential & commercial), Low Flow Showerheads & Water Heaters, Lighting, Energy Storage System Rebate, and Smart Inverter System Upgrade Rebates, as shown in Exhibit B.

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

DULY and REGULARY ADOPTED this 6th day of June 2017.

Certified by:

JOSEPH T. DUENAS
CHAIRMAN

Attested by:

J. GEORGE BAMBA
SECRETARY

I, J. George Bamba, Secretary for the Consolidated Commission on Utilities do hereby certifies as follow:

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

AYES: 5

NAYS: 0

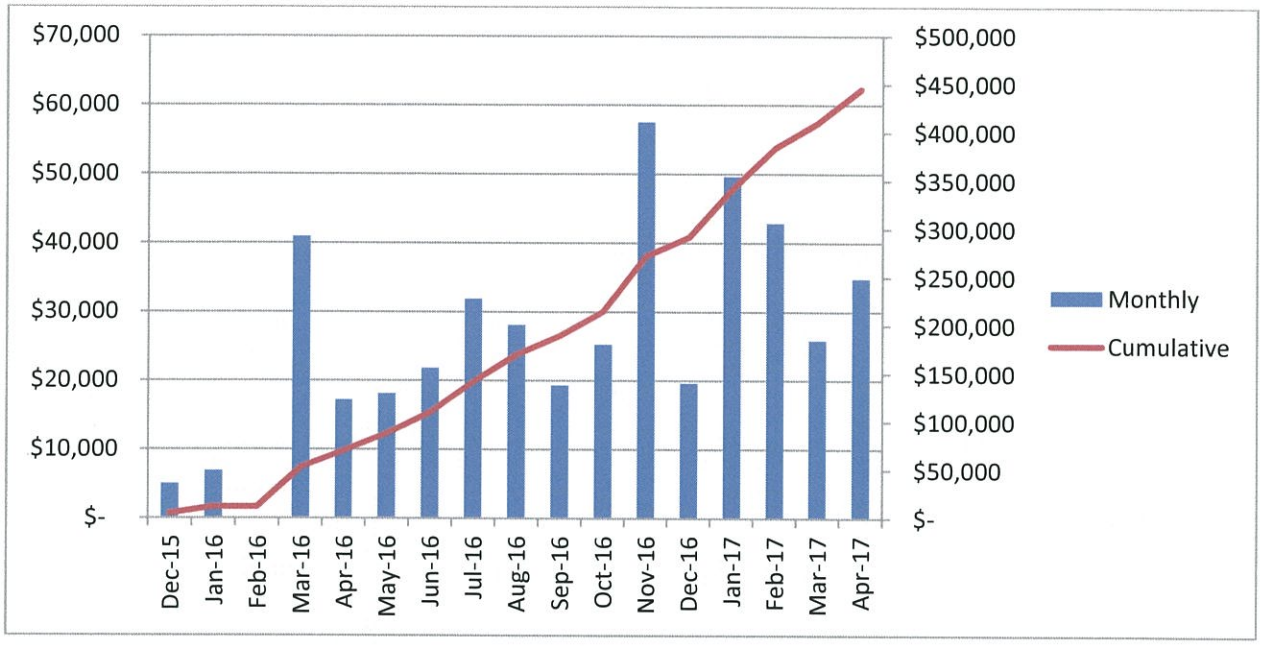
ABSTENTIONS: 0

ABSENT: 0

Exhibit A – Summary of GPA DSM Rebate Program

for Residential Split, Ductless, Washer and Dryer Energy Efficient Equipment

Monthly DSM Rebate Program Expenses*

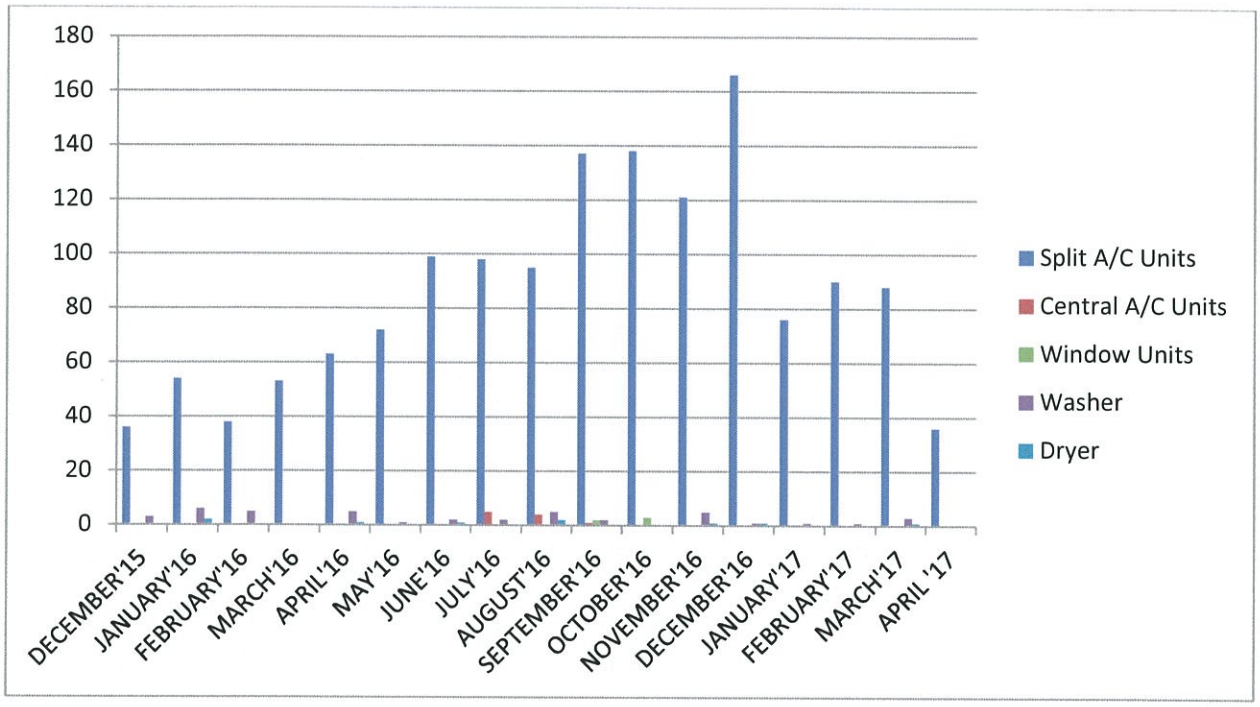


DSM Rebate Program Expenses by Fiscal Year*

Description	FY16	FY17 thru Apr	Total to Date
Regular Pay	$11,169.02	$14,279.61	$ 25,448.63
Other Contractual	$28,278.50		$28,278.50
Paid Rebates–Split AC	$154,700.00	$245,950.00	$ 400,650.00
Paid Rebates– Central AC	$3,400.00	$4,000.00	$7,400.00
Paid Rebates– Washer/Dryers	$2,800.00	$ 5,625.00	$ 8,425.00

**Note: Not all April 2017 applications are included as they are still being processed.*

Number of Equipment Based on Application Received- December 2015 to April 2017*



Note: Not all April 2017 applications are included as they are still being processed.

Exhibit B - DSM Expanded Initiatives

No.	Customer Sector	Initiative Category	Initiative Description
1	Residential/ commercial/ industrial	Building	Energy Audits (through GPA Customer Services, Online Energy Audits, or third party hired by GPA)
2	Commercial	A/C	High Efficiency Packaged Rooftop Unit (20 ton assumed, 15 EER or better); Solar thermal assisted AC per collector (no more than four collectors)
3	Commercial	Building	Building Energy Management System
4	Commercial	A/C	High Efficiency Split, Ducted A/C System (10 ton assumed, 18 SEER or better); Solar thermal assisted AC per collector (no more than four collectors)
5	Residential	A/C	Variable Refrigerant Flow A/C
6	Commercial	A/C	Variable Refrigerant Flow A/C
7	Residential	Water Heating	Low Flow Showerheads; Energy Star Electric Water Heaters; Tankless Water Heaters
8	Commercial	Lighting	a. Internal Lighting - Tube LED Lamp, T-5 Lamp, and Low wattage T-8 Lamp b. External Lighting - LED Floodlights and LED parking lot streetlights
9	Residential/ commercial/ industrial	Energy Storage System	100 Customer ESS pilot program, residential and commercial/industrial customers
10	Residential/ commercial/ industrial	Renewables	Smart Inverter New System and Upgrade Rebates



BEFORE THE GUAM PUBLIC UTILITIES COMMISSION

IN THE MATTER OF:	)	GPA Docket 13-14
	)	
GPA Demand Side Management,	)	
Program Implementation	)	**ORDER**
	)	
	)	
	)	

INTRODUCTION

1. This matter comes before the Guam Public Utilities Commission ["PUC"] upon the request of the Guam Power Authority ["GPA"] to implement additional Demand Side Management Program initiatives.[1]

BACKGROUND

2. This Docket concerning the implementation of a DSM program at GPA was initiated and established by the PUC in August 2013.

3. On July 31, 2014, the PUC ordered the ALJ to conduct proceedings and work collaboratively with GPA to develop a DSM Program.[2]

4. On February 26, 2015, the PUC approved GPA's plan to implement certain DSM programs, including Central AC, Ductless AC, Washer, and Dryer.[3]

5. In its Order dated October 27, 2015, the PUC authorized GPA to utilize the sum of $1,806,014.00 from the Working Fund for purposes of funding the DSM Program.[4]

6. In June of 2015, GPA Consultant Leidos submitted its Final Report to GPA concerning GPA's Energy Sense Program Plan; Leidos proposed an additional 18 programs that GPA could consider as DSM initiatives.[5]

---

[1] Communications between GPA Assistant General Manager, Engineering and Technical Services, John Cruz, and PUC Administrative Judge Frederick J. Horecky, commencing in March 2017; Guam Consolidated Commission on Utilities and PUC members have also requested that new DSM programs be considered.

[2] PUC Order, GPA Docket 13-14, dated July 31, 2014.

[3] PUC Order, GPA Docket 13-14, dated February 26, 2015, at Ordering Provision No. 3, pg. 4.

[4] PUC Order, GPA Docket 13-14, dated October 27, 2015, at Ordering Provision No. 1.

[5] Leidos Consultants Final Report, June 2015, Energy Sense Program Plan (Guam Power Authority). PUC received this Report in July 2016, along with the GPA Revised Petition for Contract Review and GPA Response to PUC Order, GPA Docket 15-05, filed July 14, 2016.

7. Since March, 2017, the PUC Administrative Law Judge ["ALJ"], Assistant General Manager, Engineering and Technical Services, and certain PUC Commissioners have had discussions and meetings concerning which DSM initiatives to implement in addition to those already in the Program.[6] .

8. The proposed expansion of the DSM Program was presented to the Guam Consolidated Commission on Utilities at a workshop on April 13, 2017. See CCU Workshop Issues for Discussion (Presentation), attached hereto as Exhibit "1" to the ALJ Report.

9. The Parties have determined that it was perhaps too ambitious to adopt all 18 DSM proposals at the present time, particularly as a long term funding source has not yet been identified. However, both GPA and the ALJ have agreed upon the following list of ten new DSM initiatives to be implemented:

   A. Energy Audits (through GPA Customer Services, Online Energy Audits, or third party hired by GPA)
   B. Commercial A/C: High Efficiency Packaged Rooftop Unit (20 ton assumed, 15 EER or better); Solar thermal assisted AC per collector (no more than four collectors)
   C. Commercial Building Energy Management System
   D. Commercial A/C: High Efficiency Split, Ducted A/C System (10 ton assumed, 18 SEER or better); Solar thermal assisted AC per collector (no more than two collectors)
   E. Residential A/C: Variable Refrigerant Flow A/C
   F. Commercial A/C: Variable Refrigerant Flow A/C
   G. Commercial Lighting
      1. Internal Lighting – Tube LED Lamp, T-5 Lamp, and Low Wattage – T-8 Lamp
      2. Outdoor Lighting – LED Floodlights and LED parking lot streetlights
   H. Water Heating: Low Flow Showerheads; Energy Star Electric Water Heaters; Tankless Water Heaters
   I. 100 Customer ESS pilot program residential and commercial
   J. Smart Inverter New System and Upgrade Rebates

[6] Meetings were conducted on March 17 and May 17, 2017; there have been numerous communications between the Parties concerning which DSM initiatives to implement.

DETERMINATIONS

10. In its Workshop, the CCU requested that PUC proceed ahead with approval of additional DSM initiatives, so that the program can be expanded as soon as possible.[7]

11. However, since no CCU Resolution has yet been approved, any PUC approval should be subject to final approval by CCU through a Resolution.

12. From the inception of the DSM Program, it was anticipated that GPA and PUC would expand the Program and implement new DSM initiatives[8], and would implement additional DSM initiatives; GPA was required to submit its DSM implementation plan.

13. It is in the interest of GPA and the ratepayers of Guam to implement the additional DSM initiatives proposed herein. DSM Programs should foster energy conservation and hopefully reduce the need in the long term for as much additional generation capacity.

ORDERING PROVISIONS

Upon consideration of the record herein, the Request of GPA to implement new Demand Side Management Initiatives, the ALJ Report, and for good cause shown, on motion duly made, seconded, and carried by the affirmative vote of the undersigned Commissioners, the Guam Public Utilities Commission HEREBY ORDERS that:

1. The PUC hereby approves the additional ten DSM program initiatives listed herein, subject to prior approval by CCU through a Resolution.

2. 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.

3. GPA is ordered to pay the Commission's regulatory fees and expenses, including,

[7] Statement of GPA Assistant General Manager, Engineering and Technical Services, John Cruz to ALJ Horecky on May 22, 2017.
[8] PUC Order, GPA Docket 13-14, dated July 31, 2014, at par. 8 and Ordering Provision No. 1.

without limitation, consulting and counsel fees and the fees and expenses of conducing the hearing proceedings. Assessment of PUC's regulatory fees and expenses is authorized pursuant to 12 GCA §§12103(b) and 12125(b), and Rule 40 of the Rules of Practice and Procedure before the Public Utilities Commission.

Dated this 25th day of May, 2017.

Jeffrey C. Johnson
Chairman

Joseph M. McDonald
Commissioner

Rowena E. Perez
Commissioner

Peter Montinola
Commissioner

Michael A. Pangelinan
Commissioner

Andrew L. Niven
Commissioner

Filomena M. Cantoria
Commissioner

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

RESOLUTION NO. 2017 - 25

RESOLUTION RELATIVE TO APPROVAL OF THE PHASE II RENEWABLE ENERGY ACQUISITION AWARD TO HANWHA ENERGY CORPORATION & PACIFIC PETROLEUM TRADING CORP. AND KEPCO-LG CNS CONSORTIUM FOR UP TO 120MW OF RENEWABLE ENERGY CAPACITY

WHEREAS, in May 2016 GPA announced GPA Multi-Step Bid No: GPA- 070-16 for 60MW of Renewable Energy Resource capacity with ESS for ramp control; and

WHEREAS, in January 2017 GPA obtained the price bids and determined Hanwha Energy Corporation & Pacific Petroleum Trading Corp. (Hanwha) and KEPCO-LG CNS Consortium (KEPCO-LG) to be the lowest responsive bidders with each bidder having two proposals for 30MW solar PV projects totaling 120MW of solar PV capacity; and

WHEREAS, Bidders provided $/MWH price proposals for the energy and ramp controls to include interconnection costs of each 30MW proposal. **Exhibit A** provides a summary of the energy price proposals; and

WHEREAS, in addition to the base proposal, Hanwha submitted a fixed price proposal for a GPA requested microgrid operations option, which would include the capability of energy shifting, required for a 60MW award, through an energy storage system of 40MW/65MWH during peak solar days for discharge during GPA peak periods; and

WHEREAS, GPA is considering the Hanwha microgrid operations option to improve management of system generation and dispatching which would be in addition to the proposed energy rate. **Exhibit B** provides a summary of the Hanwha microgrid operations; and

WHEREAS, GPA evaluates bidder's price proposal against GPA's variable operating costs primarily made up of fuel costs; and

WHEREAS, GPA has determined that Hanwha and KEPCO-LG proposals would provide substantial savings to GPA over the term of the contracts based on current and projected LEAC rates; and

WHEREAS, the table below represents the projected savings of potential award cases subject to the completion of the system impact studies and bidders' acceptance of the requirements generated from the study. **Exhibit C** contains case summaries; and

CASE	Description	Project Size	5 Year Projected Savings On Current LEAC ($115/MWH)	5 Year Projected Savings on Projected LEAC	Present Value Utility Cost Savings thru Contract Term
1	Hanwha Proposal 1 Only (30MW) and KEPCO Proposal 1&2 (60MW)	90 MW	$ 38,752,618	$ 72,670,440	$ 313,466,966
2	Hanwha Proposal 1&2 (60MW) and KEPCO Proposal 1&2 (60MW)	120MW	$ 43,290,919	$ 88,266,040	$ 417,315,926

WHEREAS, GPA considers renewable energy as an effective hedge against rising fuel oil prices; and

WHEREAS, the bid prices proposed are an excellent fuel hedge as the bidders' energy prices are fixed with escalations no more than 1% annually for all proposals. **Exhibit D** summarizes GPA historical LEAC; and

WHEREAS, renewable energy is sustainable energy and good for the island; and

WHEREAS, Public Law 29-62 sets renewable goals under the Renewable Portfolio Standards (RPS); and

WHEREAS, the award of 120MW is projected to increase GPA's ratio of renewable energy to sales up to 23% by 2020. **Exhibit E** is a projected RPS outlook; and

WHEREAS, the system impact study is an iterative and complicated process that will set the conditions and boundaries for the project to interconnect and operate on the GPA electric grid system; and

WHEREAS, the system impact study will not change the bidders' priced proposals; and

WHEREAS, the bid documents allow the bidders to withdraw any proposal without penalty if the bidder cannot comply with the system impact study within the bidders' priced proposals; and

WHEREAS, GPA would like to proceed with an approval to award a potential total of 120MW of renewable energy capacity contracts subject to the completion of the System Impact Study.

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

1. The CCU authorizes GPA to petition the PUC for approval to award Phase II Renewable Acquisition Bid of two 30MW proposals each to Hanwha Energy Corporation & Pacific Petroleum Trading Corp. and KEPCO-LG CNS Consortium as required under the PUC Procurement Protocol.
2. The CCU authorizes GPA to contract Hanwha Energy Corporation & Pacific Petroleum Trading Corp. and KEPCO-LG CNS Consortium for renewable energy subject to System Impact Studies and PUC approval.

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

DULY AND REGULARLY ADOPTED AND APPROVED THIS 6 DAY OF JUNE 2017.

Certified by:

JOSEPH T. DUENAS
Chairperson
Consolidated Commission on Utilities

Attested by:

J. GEORGE BAMBA
Secretary
Consolidated Commission on Utilities

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

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

Ayes: 5

Nays: 0

Absent: 0

Abstain: 0

EXHIBIT A

Summary of Bid Proposals

Hanwha Energy Corporation & Pacific Petroleum Trading Corp.

Contract Year	Proposal 1		Proposal 2	
	Annual Price ($/MWH)	Guaranteed Net Annual Generation (MWH/YR)	Annual Price ($/MWH)	Guaranteed Net Annual Generation (MWH/YR)
1	$ 62.45	72,005.00	$ 65.99	72,005.00
2	$ 63.08	71,831.00	$ 66.65	71,831.00
3	$ 63.71	71,245.00	$ 67.32	71,245.00
4	$ 64.35	70,865.00	$ 67.99	70,865.00
5	$ 64.99	70,485.00	$ 68.67	70,485.00
6	$ 65.64	70,306.00	$ 69.36	70,306.00
7	$ 66.30	69,724.00	$ 70.05	69,724.00
8	$ 66.96	69,344.00	$ 70.75	69,344.00
9	$ 67.63	68,693.00	$ 71.46	68,693.00
10	$ 68.31	68,780.00	$ 72.17	68,780.00
11	$ 68.99	68,202.00	$ 72.89	68,202.00
12	$ 69.68	67,821.00	$ 73.62	67,821.00
13	$ 70.37	67,440.00	$ 74.36	67,440.00
14	$ 71.08	67,252.00	$ 75.10	67,252.00
15	$ 71.79	66,678.00	$ 75.85	66,678.00
16	$ 72.51	66,296.00	$ 76.61	66,296.00
17	$ 73.23	65,915.00	$ 77.38	65,915.00
18	$ 73.96	65,722.00	$ 78.15	65,722.00
19	$ 74.70	65,151.00	$ 78.93	65,151.00
20	$ 75.45	64,770.00	$ 79.72	64,770.00
21	$ 76.21	64,388.00	$ 80.52	64,388.00
22	$ 76.97	64,190.00	$ 81.33	64,190.00
23	$ 77.74	63,623.00	$ 82.14	63,623.00
24	$ 78.52	63,241.00	$ 82.96	63,241.00
25	$ 79.30	62,859.00	$ 83.79	62,859.00

KEPCO-LG CNS Consortium

Contract Year	Proposal 1		Proposal 2	
	Annual Price ($/MWH)	Guaranteed Net Annual Generation (MWH/YR)	Annual Price ($/MWH)	Guaranteed Net Annual Generation (MWH/YR)
1	$ 85.50	74,542.29	$ 85.50	74,542.29
2	$ 86.35	73,974.68	$ 86.35	73,974.68
3	$ 87.22	73,604.26	$ 87.22	73,604.26
4	$ 88.09	73,233.84	$ 88.09	73,233.84
5	$ 88.97	73,058.88	$ 88.97	73,058.88
6	$ 89.86	72,493.01	$ 89.86	72,493.01
7	$ 90.76	72,122.59	$ 90.76	72,122.59
8	$ 91.67	71,752.18	$ 91.67	71,752.18
9	$ 92.58	71,573.23	$ 92.58	71,573.23
10	$ 93.51	71,011.34	$ 93.51	71,011.34
11	$ 94.44	70,640.93	$ 94.44	70,640.93
12	$ 95.39	70,270.51	$ 95.39	70,270.51
13	$ 96.34	70,087.58	$ 96.34	70,087.58
14	$ 97.31	69,529.68	$ 97.31	69,529.68
15	$ 98.28	69,159.26	$ 98.28	69,159.26
16	$ 99.26	68,788.84	$ 99.26	68,788.84
17	$ 100.25	68,601.94	$ 100.25	68,601.94
18	$ 101.26	68,048.01	$ 101.26	68,048.01
19	$ 102.27	67,677.59	$ 102.27	67,677.59
20	$ 103.29	67,307.18	$ 103.29	67,307.18
21	$ 104.33	67,116.29	$ 104.33	67,116.29
22	$ 105.37	66,566.34	$ 105.37	66,566.34
23	$ 106.42	66,195.92	$ 106.42	66,195.92
24	$ 107.49	65,825.51	$ 107.49	65,825.51
25	$ 108.56	65,630.64	$ 108.56	65,630.64

Doc. No. 34GL-17-0809.*

EXHIBIT B

Summary of Hanwha Energy & Microgrid Operations Bid Proposal for 60MW Award

Hanwha Energy Corporation & Pacific Petroleum Trading Corp.

	Proposal 1					Proposal 2				
Contract Year	Annual Price ($/MWH)	Guaranteed Net Annual Generation (MWH/YR)	MicroGrid Operations Fixed Annual Fee	Microgrid Cost, $/MWH (based on Guarantee)*	Adjusted Rate	Annual Price ($/MWH)	Guaranteed Net Annual Generation (MWH/YR)	MicroGrid Operations Fixed Annual Fee	Microgrid Cost, $/MWH (based on Guarantee)*	Adjusted Rate
1	$ 65.99	72,005.00	1,287,082	$ 17.87	83.86	$ 62.45	72,005.00	1,287,082	$ 17.87	80.32
2	$ 66.65	71,831.00	1,264,710	$ 17.61	84.26	$ 63.08	71,831.00	1,264,710	$ 17.61	80.69
3	$ 67.32	71,245.00	1,244,969	$ 17.47	84.79	$ 63.71	71,245.00	1,244,969	$ 17.47	81.18
4	$ 67.99	70,865.00	1,225,229	$ 17.29	85.28	$ 64.35	70,865.00	1,225,229	$ 17.29	81.64
5	$ 68.67	70,485.00	1,206,804	$ 17.12	85.79	$ 64.99	70,485.00	1,206,804	$ 17.12	82.11
6	$ 69.36	70,306.00	1,188,380	$ 16.90	86.26	$ 65.64	70,306.00	1,188,380	$ 16.90	82.54
7	$ 70.05	69,724.00	1,171,271	$ 16.80	86.85	$ 66.30	69,724.00	1,171,271	$ 16.80	83.10
8	$ 70.75	69,344.00	1,155,479	$ 16.66	87.41	$ 66.96	69,344.00	1,155,479	$ 16.66	83.62
9	$ 71.46	68,693.00	1,139,686	$ 16.59	88.05	$ 67.63	68,693.00	1,139,686	$ 16.59	84.22
10	$ 72.17	68,780.00	1,123,894	$ 16.34	88.51	$ 68.31	68,780.00	1,123,894	$ 16.34	84.65
11	$ 72.89	68,202.00	1,108,101	$ 16.25	89.14	$ 68.99	68,202.00	1,108,101	$ 16.25	85.24
12	$ 73.62	67,821.00	1,093,625	$ 16.13	89.75	$ 69.68	67,821.00	1,093,625	$ 16.13	85.81
13	$ 74.36	67,440.00	1,079,149	$ 16.00	90.36	$ 70.37	67,440.00	1,079,149	$ 16.00	86.37
14	$ 75.10	67,252.00	1,064,672	$ 15.83	90.93	$ 71.08	67,252.00	1,064,672	$ 15.83	86.91
15	$ 75.85	66,678.00	1,051,512	$ 15.77	91.62	$ 71.79	66,678.00	1,051,512	$ 15.77	87.56
16	$ 76.61	66,296.00	1,038,352	$ 15.66	92.27	$ 72.51	66,296.00	1,038,352	$ 15.66	88.17
17	$ 77.38	65,915.00	1,025,191	$ 15.55	92.93	$ 73.23	65,915.00	1,025,191	$ 15.55	88.78
18	$ 78.15	65,722.00	1,012,031	$ 15.40	93.55	$ 73.96	65,722.00	1,012,031	$ 15.40	89.36
19	$ 78.93	65,151.00	998,871	$ 15.33	94.26	$ 74.70	65,151.00	998,871	$ 15.33	90.03
20	$ 79.72	64,770.00	987,026	$ 15.24	94.96	$ 75.45	64,770.00	987,026	$ 15.24	90.69
21	$ 80.52	64,388.00	975,182	$ 15.15	95.67	$ 76.21	64,388.00	975,182	$ 15.15	91.36
22	$ 81.33	64,190.00	963,338	$ 15.01	96.34	$ 76.97	64,190.00	963,338	$ 15.01	91.98
23	$ 82.14	63,623.00	951,493	$ 14.96	97.10	$ 77.74	63,623.00	951,493	$ 14.96	92.70
24	$ 82.96	63,241.00	939,649	$ 14.86	97.82	$ 78.52	63,241.00	939,649	$ 14.86	93.38
25	$ 83.79	62,859.00	927,805	$ 14.76	98.55	$ 79.30	62,859.00	927,805	$ 14.76	94.06

Doc. No. 34GL-17-0809.*

EXHIBIT C

Proposal Evaluation Summary

CASE	Description	Project Size	5 Year Projected Savings On Current LEAC ($115/MWH)	5 Year Projected Savings on Projected LEAC	Present Value Utility Cost Savings* thru Contract Term
1	Hanwha Proposal 1 Only (30MW) and KEPCO Proposal 1&2 (60MW)	90 MW	$ 38,752,618	$ 72,670,440	$ 313,466,966
2	Hanwha Proposal 1&2 (60MW) and KEPCO Proposal 1&2 (60MW)	120MW	$ 43,290,919	$ 88,266,040	$ 417,315,926

EXHIBIT C

CASE 1 - Hanwha Proposal 1 (30MW) and KEPCO Proposal 1&2 (60MW)

5 Year Sample Calculation of Project Costs & Savings

	Contract Year	Year 1	Year 2	Year 3	Year 4	Year 5	TOTALS
1	Hanwha Proposal 1 Energy Rate ($/MWH)	62.45	63.08	63.71	64.35	64.99	
2	Energy Guarantee (MWH)	72,005	71,831	71,245	70,865	70,485	
3	KEPCO Proposal 1 Energy Rate ($/MWH)	85.50	86.35	87.22	88.09	88.97	
4	Energy Guarantee (MWH)	74,542.29	73,974.68	73,604.26	73,233.84	73,058.88	
5	KEPCO Proposal 2 Energy Rate ($/MWH)	85.50	86.35	87.22	88.09	88.97	
6	Energy Guarantee (MWH)	74,542.29	73,974.68	73,604.26	73,233.84	73,058.88	
7	Phase II Energy Costs (120MW)	$ 17,243,315	$ 17,307,136	$ 17,378,202	$ 17,462,478	$ 17,581,025	**$ 86,972,157**
8	Current LEAC Rate[1] ($/MWH)	115	115	115	115	115	
9	Current Energy Costs	$ 25,425,302	$ 25,274,741	$ 25,122,155	$ 24,993,259	$ 24,909,317	$ 125,724,774
10	Proposed Savings	**$ 8,181,987**	**$ 7,967,605**	**$ 7,743,953**	**$ 7,530,781**	**$ 7,328,292**	**$ 38,752,618**

	Year	2019	2020	2021	2022	2023	TOTALS
11	Projected LEAC Rate[2] ($/MWH)	122.27	140.02	154.63	154.03	159.65	
12	Projected Energy Costs	$ 27,032,806	$ 30,773,935	$ 33,779,259	$ 33,476,173	$ 34,580,424	$ 159,642,597
13	Proposed Savings	**$ 9,789,491**	**$ 13,466,799**	**$ 16,401,056**	**$ 16,013,695**	**$ 16,999,399**	**$ 72,670,440**

STRATEGIST CASE SUMMARY

	Base Case (No Phase II)	Case 1 (90MW)	SAVINGS
Present Value Utility Cost[3] ($000)	6,896,417	6,582,950	313,467

Notes:

1. The Currrent LEAC is used in this case evaluation to demonstrate minimum savings potential with $115/MWH LEAC rate presently proposed for next LEAC period.

2. Projected LEAC is based on STRATEGIST software output that analyzes genernation costs for various generation resources and its operating characteristics. This LEAC is based on load and fuel forecasts done by LEIDOS in 2016.

3. Present Value Utility Cost is an evaluation of generation operating costs in the STRATEGIST software. This is used to determine cost impact of generation resources and their operation variables (efficiency, fuel costs, capacity, etc.) based on energy requirements.

EXHIBIT C

CASE 2 - Hanwha Proposal 1&2 (60MW) and KEPCO Proposal 1&2 (60MW)

5 Year Sample Calculation of Project Costs & Savings

	Contract Year	Year 1	Year 2	Year 3	Year 4	Year 5	TOTALS
1	Hanwha Proposal 1 Energy Rate ($/MWH)	62.45	63.08	63.71	64.35	64.99	
2	Energy Guarantee (MWH)	72,005	71,831	71,245	70,865	70,485	
3	Hanwha Proposal 2 Energy Rate ($/MWH)	65.99	66.65	67.32	67.99	68.67	
4	Energy Guarantee (MWH)	72,005	71,831	71,245	70,865	70,485	
5	Hanwha Microgrid Operations Option	$ 2,574,164	$ 2,529,420	$ 2,489,938	$ 2,450,458	$ 2,413,608	
6	KEPCO Proposal 1 Energy Rate ($/MWH)	85.50	86.35	87.22	88.09	88.97	
7	Energy Guarantee (MWH)	74,542.29	73,974.68	73,604.26	73,233.84	73,058.88	
8	KEPCO Proposal 2 Energy Rate ($/MWH)	85.50	86.35	87.22	88.09	88.97	
9	Energy Guarantee (MWH)	74,542.29	73,974.68	73,604.26	73,233.84	73,058.88	
10	Phase II Energy Costs (120MW)	$ 24,569,089	$ 24,624,093	$ 24,664,354	$ 24,731,048	$ 24,834,838	**$ 123,423,421**
11	Current LEAC Rate[1] ($/MWH)	115	115	115	115	115	
12	Current Energy Costs	$ 33,705,877	$ 33,535,306	$ 33,315,330	$ 33,142,734	$ 33,015,092	$ 166,714,339
13	Proposed Savings	**$ 9,136,788**	**$ 8,911,213**	**$ 8,650,976**	**$ 8,411,687**	**$ 8,180,254**	**$ 43,290,919**

	Year	2019	2020	2021	2022	2023	TOTALS
14	Projected LEAC Rate[2] ($/MWH)	122.27	140.02	154.63	154.03	159.65	
15	Projected Energy Costs	$ 35,836,916	$ 40,831,807	$ 44,795,805	$ 44,391,646	$ 45,833,287	$ 211,689,461
16	Proposed Savings	**$ 11,267,827**	**$ 16,207,714**	**$ 20,131,451**	**$ 19,660,599**	**$ 20,998,449**	**$ 88,266,040**

STRATEGIST CASE SUMMARY

	Base Case (No Phase II)	Case 2 (120MW)	SAVINGS
Present Value Utility Cost[3] ($000)	6,896,417	6,479,101	417,316

Notes:

1. The Currrent LEAC is used in this case evaluation to demonstrate minimum savings potential with $115/MWH LEAC rate presently proposed for next LEAC period.

2. Projected LEAC is based on STRATEGIST software output that analyzes genernation costs for various generation resources and its operating characteristics. This LEAC is based on load and fuel forecasts done by LEIDOS in 2016.

3. Present Value Utility Cost is an evaluation of generation operating costs in the STRATEGIST software. This is used to determine cost impact of generation resources and their operation variables (efficiency, fuel costs, capacity, etc.) based on energy requirements.

EXHIBIT D
Historical LEAC Summary

EFFECTIVE DATES	FUEL RECOVERY RATE ($ per Kwh)
10/01/00	0.053613
04/01/01	0.053613
10/01/01	0.048625
04/01/02	0.042901
10/01/02	0.048831
04/01/03	0.048831
10/01/03	0.062333
04/01/04	0.059753
10/01/04	0.059753
01/01/00	0.073010
01/01/00	0.088918
01/01/00	0.098589
02/01/07	0.108893
08/13/07	0.123957
03/01/08	0.150467
06/01/08	0.170440
10/01/08	0.187750
12/01/08	0.171050
02/01/09	0.157630
05/01/09	0.136450
08/01/09	0.129670
02/01/10	0.150460
08/31/10	0.124650
02/01/11	0.161530
08/01/11	0.192220
02/01/12	0.191980
04/01/12	0.192310
02/01/13	0.209271
08/01/13	0.182054
02/01/14	0.172986
08/01/14	0.176441
11/01/14	0.146666
02/01/15	0.102054
08/01/15	0.104871
02/01/16	0.086613
08/01/16	0.086613
02/01/17	0.105051
08/01/17*	0.115725

**Proposed LEAC Rate*

EXHIBIT E

Projected Renewable Energy & Renewable Portfolio Standards (RPS) for 120 MW Phase II Award

RPS PROJECTIONS

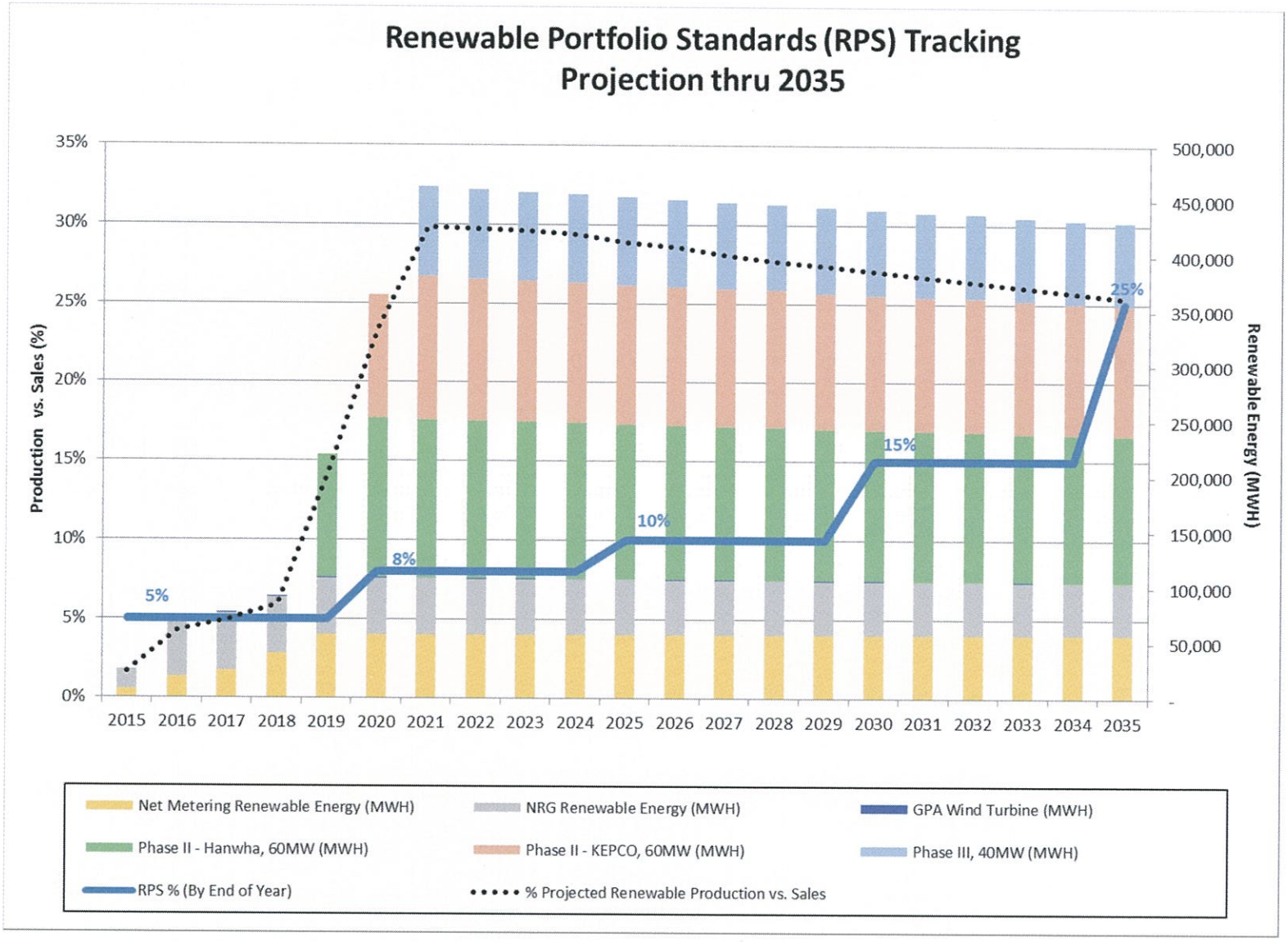
	Net Metering Renewable Energy (MWH)	NRG Renewable Energy (MWH)	GPA Wind Turbine (MWH)	Phase II - Hanwha, 60MW (MWH)	Phase II - KEPCO, 60MW (MWH)	Phase III, 40MW (MWH)	Total Renewable Production (MWH)	GPA Total Sales (MWH)	% Projected Renewable Production vs. Sales	RPS % (By End of Year)
2015	8,034	17,597					25,630	1,536,927	2%	5%
2016	19,559	48,221	474				68,253	1,584,685	4%	5%
2017	25,271	51,627	482				77,380	1,546,044	5%	5%
2018	40,393	51,412	482				92,287	1,554,108	6%	5%
2019	57,629	51,133	482	110,334	-		219,578	1,557,331	14%	5%
2020	*57,629*	50,992	482	143,840	112,165		365,108	1,558,272	23%	8%
2021	*57,629*	50,601	482	142,668	130,325	80,510	462,215	1,547,800	30%	8%
2022	*57,629*	50,393	482	141,908	129,087	80,175	459,674	1,544,574	30%	8%
2023	*57,629*	50,083	482	141,148	128,288	79,740	457,370	1,544,540	30%	8%
2024	*57,629*	49,781	482	140,791	127,830	79,520	456,032	1,550,854	29%	8%
2025	*57,629*	49,599	482	139,627	126,689	78,911	452,937	1,566,472	29%	10%
2026	*57,629*	49,391	482	138,866	125,890	78,585	450,843	1,577,646	29%	10%
2027	*57,629*	49,122	482	138,105	125,091	78,102	448,531	1,597,005	28%	10%
2028	*57,629*	48,987	482	137,739	124,624	77,631	447,092	1,614,448	28%	10%
2029	*57,629*	48,612	482	136,582	123,492	77,348	444,145	1,620,517	27%	10%
2030	*57,629*	48,411	482	135,821	122,693	77,023	442,058	1,631,977	27%	15%
2031	*57,629*	48,147	482	135,059	121,894	76,604	439,814	1,644,069	27%	15%
2032	*57,629*	48,017	482	134,683	121,418	76,393	438,622	1,661,486	26%	15%
2033	*57,629*	47,649	482	133,534	120,295	75,808	435,397	1,670,464	26%	15%
2034	*57,629*	47,451	482	132,772	119,496	75,495	433,324	1,684,195	26%	15%
2035	*57,629*	47,191	482	132,009	118,696	75,083	431,090	1,698,373	25%	25%

Notes:

1. Sales is from 2016 forecast for 2017-2035 (LEIDOS Jan. 2016 Forecast)
2. Net Metering projection is from LEIDOS Forecast for 2017 thru 2019 and fixed thereafter
3. NRG (Phase I) production is based on contract guarantees from 2017 thru 2035
4. Phase II is based on Project Guarantees **for 120MW**. Phase III renewable projections are based NRG contract guarantees.
5. GPA wind turbine assumes average capacity factor since commissioning (20%) from 2017 thru 2035
6. DSM values are not included.

Doc. No. 34GL-17-0809.*

EXHIBIT E



Doc. No. 34GL-17-0809.*

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. 36-FY2017
GPA RESOLUTION NO. 2017-26

RELATIVE TO THE REVISION OF MEMBERSHIP OF THE CONSOLIDATED COMMISSION ON UTILITIES AUDIT COMMITTEE

WHEREAS, a broadly recognized practice in medium to large sized organizations is to have within the organization, an Audit Committee to monitor the integrity of the financial statements of the organization, to review material financial reporting judgments, to review the internal financial control system of the organization, to monitor and review the effectiveness of the organization's Internal Audit functions and its business practices and procedures, to receive internal audit reports, to meet with external auditors regarding audit issues, and to periodically advise the governing body as a whole of such matters; and

WHEREAS, in 2003 the Consolidated Commission on Utilities ("CCU") established an Audit Committee made up of two (2) commissioners, the GPA General Manager, the GWA General Manager, and the Chief Financial Officer for purposes which included approving the audit plan of the Internal Auditor, receiving internal audit reports, following up on audit findings, and meeting once a year with the external auditors; and

WHEREAS, in 2005, the make-up of the Audit Committee was revised to include all the members of the Consolidated Commission on Utilities and the Committee to meet once yearly with GPA's external auditors; and

WHEREAS, a key component of an internal control system is an internal audit function within an organization; and

//

//

WHEREAS, GPA and GWA hired Internal Auditors and the work requirement of the Audit Committee has increased to include review and the disposition of audit reports from the Internal Auditors; and

WHEREAS, in 2013 the make-up of the Audit Committee was revised further to reference title of the members; and

WHEREAS, the CCU desires that the resolution should make references to updated CCU and GPA/GWA management titles held; and

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

1. Effective immediately, the Guam Power Authority Audit Committee shall be made up of the Treasurer of the CCU who shall serve as the Chairperson of the Committee and another member of the CCU, chosen by the Committee Chairperson, who shall serve as Vice-Chair of the Committee, and the GPA General Manager.
2. Effective immediately, the Guam Waterworks Authority Audit Committee shall be made up of the Treasurer of the CCU who shall serve as the Chairperson of the Committee and another member of the CCU, chosen by the Committee Chairperson, who shall serve as Vice-Chair of the Committee, and the GWA General Manager.
3. Effective immediately, the Audit Committees will meet at the call of the Committee Chair, and may include the attendance of personnel from each respective Internal Audit Offices, or other GPWA staff as the Committee Chair deems appropriate.

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

//

//

DULY AND REGULARLY ADOPTED, this 6th day of June, 2017.

Certified by:

JOSEPH T. DUENAS
Chairperson

Attested by:

J. GEORGE BAMBA
Secretary

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

///

///

///

///

///

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. 35-FY2017

RELATIVE TO THE CREATION OF THE UTILITY COMPLIANCE INSPECTOR SERIES OF POSITIONS

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, Public Law 28-112 and 4 GCA §6303 (d) 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; and

WHEREAS, the GWA General Manager requests the CCU to approve the creation of the Utility Compliance Inspector Series of positions; and

WHEREAS, the GWA General Manager requests the CCU to approve the classification standards of the Utility Compliance Inspector Leader, Utility Compliance Inspector II and Utility Compliance Inspector I positions in the classified status.

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 creation and the job classification standards for the Utility Compliance Inspector Leader, Utility Compliance Inspector II and Utility Compliance Inspector I positions in the classified status are hereby approved and attached herein as Exhibits A and B.
3. The CCU hereby authorizes the Utility Compliance Inspector Leader, Utility Compliance Inspector II and Utility Compliance Inspector I positions are 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 6th day of June, 2017.

Certified by:

JOSEPH T. DUENAS
Chairperson

Attested by:

J. GEORGE BAMBA
Secretary

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

ATTACHMENT A

GUAM WATERWORKS AUTHORITY
"Better Water. Better Lives."
Suite 200; Gloria B. Nelson Public Service Building | 688 Route 15, Mangilao, Guam 96913
P.O. Box 3010, Hagåtña, Guam 96932
Tel. No. (671) 300-6073-6 Fax No. (671) 300-6896

PRESS RELEASE

Creation of Positions

The General Manager of Guam Waterworks Authority (GWA) hereby petitions the Consolidated Commission on Utilities (CCU) for the creation of position pursuant to Public Law 28-112, Section 9 (4GCA, Chapter 6, §6303 (d) in the classified service; Section 10 (4GCA, Chapter 6, §6303.1Transparency and Disclosure and to add the position to the Certified, Technical, and Professional (CTP) List B:

UTILITY COMPLIANCE INSPECTOR LEADER
UTILITY COMPLIANCE INSPECTOR II
UTILITY COMPLIANCE INSPECTOR I

For more information, please visit GWA's website at www.guamwaterworks.org/careers/petition or you may contact the Personnel Services Division at 300.6074-6

MIGUEL C. BORDALLO, P.E.
General Manager

Justification for the new position:

The Guam Waterworks Authority (GWA) has determined a need to create the Utility Compliance Inspector I, II, and Leader positions to carry out its mission towards providing *"Better Water Better Lives"* to the people of Guam.

The Utility Compliance Inspector I, II and Leader will work under the general direction of the Assistant General Manager of Compliance and Safety and the direct supervision of a respective program's Manager to help manage GWA's wide range of regulatory activities. Programs include but not limited to the 2011 Court order (CO), the Federal Safe Drinking Water Act (SDWA), Guam Primary Drinking Water Regulations (GPDWR) and their amendments including the Ground Water Rule (GWR), Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR); the Clean Water Act (CWA); the Clean Air Act (CAA) and pursuant to further compliance to correct the "Findings of Significant Deficiencies in Guam Waterworks Authority's Public Water Systems. The positions also require awareness of the Occupational Safety and Health Act (OSHA).

The creation of the Utility Compliance Inspector series is for the efficient and effective performance of duties and functions of the regulatory and compliance programs of the Guam Waterworks Authority. The essential functions of these positions include, performing sampling, inspection and investigation duties for compliance with Federal, and Guam regulations.

In order to protect the public, we need to perform sampling, inspection and monitor for illegal or incorrect infrastructure to successfully improve the safety, efficiency and the reliability of the water and wastewater facilities. This will also result in improved services to our rate payers.

Analysis of similarities and differences between the positions to be created and the positions listed pursuant to 4GCA §4101.1:

The above positions are new for GWA. The duties and responsibilities of Utility Compliance Inspector series positions will provide a variety of technical work to successfully improve the safety, efficiency and the reliability of the water and wastewater facilities. The position also includes the capacity to ensure the compliance with all applicable established laws, policies, regulations and principles of the program. These positions were compared and created in line with other inspector positions with water and wastewater utilities in other municipalities.

Position Description: See attached

Compensation:

The proposed pay range is demonstrated to be in compliance with 4GCA §6301. Also, the minimum and maximum range of compensation will be in accordance with the Strategic Pay Methodology when the job description and qualification factors are taken into consideration and the new position is slotted. The resultant new pay grade under the implemented compensation structure and per annual is as follows:

As indicated in the table above, the salary ranges shown in minimum and maximum are at the 15th market percentile for this classified, certified, technical and professional position and are comparable with other US jurisdictions and/or the American

Position	Determining Implementation Ranges								
	JE Points	Structural Adjustment – MIN				Structural Adjustment - MAX			
	0	Base Salary	Grade	Step	Sub Step	Base Salary	Grade	Step	Sub Step
Utility Compliance Inspector Leader	787	43,648	J	6	A	49,184	J	9	A
Utility Compliance Inspector II	626	36,069	I	4	C	40,643	I	7	C
Utility Compliance Inspector I	499	27,754	G	4	C	31,274	G	7	C

Water Works Association (AWWA) salary surveys.

Fiscal note as required by 2GCA §9101 et seq.:

GWA certifies that this position is budgeted and that funding is available for the creation, filling and retention of its certified, technical and professional newly created position. The funding of this position does not have an impact on the General Fund.

MIGUEL C. BORDALLO, PE
GENERAL MANAGER

Utility Compliance Inspector Leader

NATURE OF WORK IN THIS CLASS:

The Utility Compliance Inspector Leader leads and performs various types of inspection work under the general direction of the Assistant General Manager (AGM) for Compliance and Safety and the direct supervision of a respective program's Manager to help manage GWA's wide range of compliance and regulatory activities.

The position may include supervision of lower level inspectors as delegated and assigned by the AGM or the respective Program Manager.

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)

Performs a variety of highly skilled work to successfully improve the safety, efficiency and the reliability of the water and wastewater facilities and operations.

The position also includes the capacity to ensure compliance with all applicable established laws, policies, regulations and principles of the programs in the respective section of the Compliance and Safety Division.

Leads the sampling, inspection, monitors and investigates residential, industrial and commercial facilities to ensure compliance with Federal, State and Local regulations and permit conditions regarding pretreatment and pollution prevention requirements.

Leads the inspection of utilities construction projects to enforce ordinances governing minimum standards and requirements of new construction, alterations, and repairs and enforce compliance with all established laws, policies, regulations and principles of the program.

Provides technical assistance with GWA Engineering staff to architects, engineers, contractors and customers to review project plans, amendments, alteration and specifications to water and wastewater construction of utilities to ensure adherence to applicable laws, policies, regulations and principles of the programs.

Leads the visual or electronic inspections of water and wastewater construction projects. Provides written documentation on observations, findings, assessments and analyses of site inspection. Identifies and categorizes all known or suspected sources of toxic pollutants or pesticides or materials that may inhibit the operation of or damage the GWA water and wastewater systems.

Prepares, establishes, maintains and generates a variety of records, reports, daily logs of inspections and findings and related documents.

Responds, communicates, interacts and coordinates to both residents and businesses on environmental complaints on illegal and/or hazardous activities. Examines and investigates procedures used and make a report on the findings and discuss probable cause and recommends corrective action and problem resolution and recommends improvements.

Leads the inspection on different systems and products to make sure everything has been built according to local, state, or federal codes and regulations. Leads the initial, follow up and periodic inspections of water and wastewater systems projects and related installations to ensure continued compliance with all established laws, policies, regulations and principles of the program.

Leads in the inspections to protect the public water supply and wastewater from contamination or pollution of contaminants and/or pollutants through water and/or wastewater interconnection systems.

Leads the regular surveys of industrial, agricultural and commercial facilities to determine that adequate maintenance of devices are properly maintained and certified and determines the degree of hazard that may exist to the potable water and wastewater systems and recommends/enforces procedures for compliance with Guam and Federal legal requirements.

Provides assistance, training and demonstrations to new employees on various types of safety procedures for water and wastewater systems. Participates in the development and implementation of goals, objectives, policies, and priorities.

Leads the utilities inspector programs as needed in reviewing policies and procedures for compliance established laws, policies, regulations and principles of the program.

Recommends appropriate action when test reports are not received within specified time limits.

Leads follow up of recommendations or requirements for corrective actions prepared by the Office of Compliance and Safety.

Acts, with GWA Engineering, as GWA liaison with all consumers and provides technical support as needed to achieve the proper procedures and compliance with applicable laws, policies, regulations and principles of the program.

Assists the Communications Manager to provide Public Outreach Training and Public Service Announcements related to Utility Protection Program/Pre Treatment Issues and performance goals.

Attends trainings, meetings, seminars and conferences as appropriate to stay abreast of Federal, State and Local regulations.

Composes correspondence, prepares forms and writes reports relating to the Program.

Assists in developing solutions for operational or technical problems associated with the environmental compliance of utility facilities.

Performs other related duties as assigned.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:

Working knowledge of the Safe Drinking Water Act (SDWA), Guam Primary Drinking Water Regulations (GPDWR), Clean Water Act (CWA), Clean Air Act (CAA) and GWA's specific Utility Protection Programs, and the best management practices of these programs.

Ability to become familiar with the Hawaii Water System Standards, the Ten States Standards and the Occupational Health and Safety Act (OSHA) and the best management practices of these standards.

Knowledge of the inspection of utilities construction projects to enforce ordinances governing minimum standards and requirements in conformance with established laws, policies, regulations and principles of the program.

Knowledge of environmental inspections, sampling and collection methods.

Ability to apply principles of logical thinking to define problems, collect data, establish facts, and draw valid conclusions to interpret an extensive variety of technical instruction.

Knowledge of operation, procedures, installation, construction and inspection techniques, procedures, regulations, methods, maintenance and repair related to water and wastewater systems.

Ability to read and interpret construction plans, specifications and details, utility maps and related engineering and architectural plans and drawing in order to ensure compliance with project specifications including GIS based management systems.

Ability to interact with contractors and construction personnel to ensure work activities and products meet required quality levels and standard and comply with all established laws, policies, regulations and principles of the program.

Knowledge of occupational hazards, safety precautions and standard safety practices, and ensure compliance with applicable Guam and Federal laws, rules and regulations governing water and wastewater systems.

Ability to inspect project work sites to ensure acceptable safe quality work and ensure compliance with all established laws, policies, regulations and principles of the program.

Knowledge of principles and processes for providing customer service. This includes setting and meeting quality standards for services, and evaluation of customer satisfaction.

Ability to use logic and reasoning to understand, analyze, and evaluate situations and exercise good judgment to make appropriate decisions in accordance with appropriate program guidelines.

Ability to effectively communicate ideas and proposals verbally and in writing, to include the preparation of detailed logs which include numerical information.

Knowledge of troubleshooting, field inspection and customer information system database issues/problems.

Ability to analyze problems, identifies solutions, advises, and responds to inquiries from customers concerning rules, regulations and potential consequences regarding water and wastewater systems.

Knowledge of operational effectiveness and recommend changes in rules, regulations, policies and procedures to improve program effectiveness.

Knowledge to operate computer programs, including Microsoft Office and the customer information system database and GWA GIS system.

Skill in business letter writing and report preparation.

MINIMUM EXPERIENCE AND TRAINING:

A. Graduation from a recognized college or university with an Associate Degree in Chemistry, Science or related field; ***and*** two (2) years of experience in water and wastewater utility systems field work; or

B. Graduation from a recognized college or university with an Associate Degree in Chemistry, Science or related field; ***and*** two (2) years of experience as a Utility Inspector II; or

C. Any equivalent combination of experience and training which provides the minimum Knowledge, skills and abilities required for the position

NECESSARY SPECIAL QUALIFICATIONS:

Possession of a valid Water Distribution or Water Treatment Operator's Certificate Level III; ***and***

Possession of a valid AWWA or ABPA or equivalent Cross-Connection Control Specialist Certification or Pre-Treatment Inspection Certification; ***and***

Possession of a valid Guam Driver's License.

ESTABLISHED:

JOB EVALUATION POINTS:	787		
PAYGRADE:	MINIMUM:	J6-A	$43,648.00 Per Annum
	MAXIMUM:	J9-A	$49,184.00 Per Annum

JOSEPH T. DUENAS, Chairman
Consolidated Commission on Utilities

Utility Compliance Inspector II

NATURE OF WORK IN THIS CLASS:

The Utility Compliance Inspector II performs various types of inspection work under the general direction of the Utility Compliance Inspector Leader and the Assistant General Manager (AGM) for Compliance and Safety and the direct supervision of a respective program's Manager to help manage GWA's wide range of compliance and regulatory activities.

The position performs a variety of skilled and moderately technical inspection work. Employees in this class perform work independently on an ongoing basis and participate in the full range of complex work projects under closer supervision.

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)

Performs a variety of skilled work to successfully improve the safety, efficiency and the reliability of the water and wastewater facilities and operations.

The position also includes the capacity to ensure compliance with all applicable established laws, policies, regulations and principles of the programs in the respective section of the Compliance and Safety Division.

Performs the sampling, inspection, monitors and investigates residential, industrial and commercial facilities to ensure compliance with Federal, State and Local regulations and permit conditions regarding pretreatment and pollution prevention requirements.

Performs the inspection of utilities construction projects to enforce ordinances governing minimum standards and requirements of new construction, alterations, and repairs and enforce compliance with all established laws, policies, regulations and principles of the program.

Provides written documentation on observations, findings, assessments and analyses of site inspection. Identifies and categorizes all known or suspected sources of toxic pollutants or pesticides or materials that may inhibit the operation of or damage the GWA water and wastewater systems.

Prepares, establishes, maintains and generates a variety of records, reports, daily logs of inspections and findings and related documents.

Responds, communicates, interacts and coordinates to both residents and businesses on environmental complaints on illegal and/or hazardous activities. Examines and investigates procedures used and make a report on the findings and discuss probable cause and recommends corrective action and problem resolution and recommends improvements.

Assists the inspection on different systems and products to make sure everything has been built according to local, state, or federal codes and regulations. Assists the initial, follow up and periodic inspections of water and wastewater systems projects and related installations to ensure continued compliance with all established laws, policies, regulations and principles of the program.

Participates in the inspections to protect the public water supply and wastewater from contamination or pollution of contaminants and/or pollutants through water and/or wastewater interconnection systems.

Assists the regular surveys of industrial, agricultural and commercial facilities to determine that adequate maintenance of devices are properly maintained and certified and determines the degree of hazard that may exist to the potable water and wastewater systems and recommends/enforces procedures for compliance with Guam and Federal legal requirements.

Assists in follow up of recommendations or requirements for corrective actions prepared by the Office of Compliance and Safety.

Assists in the Public Outreach Training and Public Service Announcements related to Utility Protection Program/Pre Treatment Issues and performance goals.

Composes correspondence, prepares forms and writes reports relating to the Program.

Assists in developing solutions for operational or technical problems associated with the environmental compliance of utility facilities.

Performs other related duties as assigned.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:

Working knowledge of the Safe Drinking Water Act (SDWA), Guam Primary Drinking Water Regulations (GPDWR), Clean Water Act (CWA), Clean Air Act (CAA) and GWA's specific Utility Protection Programs, and the best management practices of these programs.

Ability to become familiar with the Hawaii Water System Standards, the Ten States Standards and the Occupational Health and Safety Act (OSHA) and the best management practices of these standards.

Knowledge of the inspection of utilities construction projects to enforce ordinances governing minimum standards and requirements in conformance with established laws, policies, regulations and principles of the program.

Knowledge of environmental inspections, sampling and collection methods.

Ability to apply principles of logical thinking to define problems, collect data, establish facts, and draw valid conclusions to interpret an extensive variety of technical instruction.

Knowledge of operation, procedures, installation, construction and inspection techniques, procedures, regulations, methods, maintenance and repair related to water and wastewater systems.

Ability to interact with contractors and construction personnel to ensure work activities and products meet required quality levels and standard and comply with all established laws, policies, regulations and principles of the program.

Knowledge of occupational hazards, safety precautions and standard safety practices, and ensure compliance with applicable Guam and Federal laws, rules and regulations governing water and wastewater systems.

Ability to inspect project work sites to ensure acceptable safe quality work and ensure compliance with all established laws, policies, regulations and principles of the program.

Knowledge of principles and processes for providing customer service. This includes setting and meeting quality standards for services, and evaluation of customer satisfaction.

Ability to effectively communicate ideas and proposals verbally and in writing, to include the preparation of detailed logs which include numerical information.

Knowledge of troubleshooting, field inspection and customer information system database issues/problems.

Ability to analyze problems, identifies solutions, advises, and responds to inquiries from customers concerning rules, regulations and potential consequences regarding water and wastewater systems.

Knowledge to operate computer programs, including Microsoft Office and the customer information system database and GWA GIS system.

Skill in business letter writing and report preparation.

MINIMUM EXPERIENCE AND TRAINING:

A. Two (2) years of skilled journeyman experience in water and wastewater utility systems field work ***and*** graduation from high school; or

B. Two (2) years of experience as a Utility Inspector I; or

C. Any equivalent combination of experience and training which provides the minimum Knowledge, skills and abilities required for the position

NECESSARY SPECIAL QUALIFICATIONS:
Possession of a valid Water Distribution or Water Treatment Operator's Certificate Level II; ***and***

Possession of a valid Guam Driver's License.

ESTABLISHED:			
JOB EVALUATION POINTS:	626		
PAYGRADE:	MINIMUM:	I4-C	$36,069.00 Per Annum
	MAXIMUM:	I7-C	$40,643.00 Per Annum

JOSEPH T. DUENAS, Chairman
Consolidated Commission on Utilities

Utility Compliance Inspector I

NATURE OF WORK IN THIS CLASS:

The Utility Compliance Inspector I performs routine inspection work under the general direction of the Utility Compliance Inspector Leader and the Assistant General Manager (AGM) for Compliance and Safety and the direct supervision of a respective program's Manager to help manage GWA's wide range of compliance and regulatory activities.

The position performs routine technical inspection work. Employees in this class work independently after initial training and work under closer supervision on a variety of more complex developmental assignments.

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)

Performs a variety of routine work to successfully improve the safety, efficiency and the reliability of the water and wastewater facilities and operations.

The position also includes the capacity to ensure compliance with all applicable established laws, policies, regulations and principles of the programs in the respective section of the Compliance and Safety Division.

Performs the sampling, inspection, monitors and investigates residential, industrial and commercial facilities to ensure compliance with Federal, State and Local regulations and permit conditions regarding pretreatment and pollution prevention requirements.

Performs the inspection of utilities construction projects to enforce ordinances governing minimum standards and requirements of new construction, alterations, and repairs and enforce compliance with all established laws, policies, regulations and principles of the program.

Provides written documentation on observations, findings, assessments and analyses of site inspection. Identifies and categorizes all known or suspected sources of toxic pollutants or pesticides or materials that may inhibit the operation of or damage the GWA water and wastewater systems.

Prepares, establishes, maintains and generates a variety of records, reports, daily logs of inspections and findings and related documents.

Responds, communicates, interacts and coordinates to both residents and businesses on environmental complaints on illegal and/or hazardous activities. Examines and investigates procedures used and make a report on the findings and discuss probable cause and recommends corrective action and problem resolution and recommends improvements.

Participates in the inspections to protect the public water supply and wastewater from contamination or pollution of contaminants and/or pollutants through water and/or wastewater interconnection systems.

Assists the regular surveys of industrial, agricultural and commercial facilities to determine that adequate maintenance of devices are properly maintained and certified and determines the degree of hazard that may exist to the potable water and wastewater systems and recommends/enforces procedures for compliance with Guam and Federal legal requirements.

Assists in follow up of recommendations or requirements for corrective actions prepared by the Office of Compliance and Safety.

Assists in the Public Outreach Training and Public Service Announcements related to Utility Protection Program/Pre Treatment Issues and performance goals.

Composes correspondence, prepares forms and writes reports relating to the Program.

Performs other related duties as assigned.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:

Working knowledge of the Safe Drinking Water Act (SDWA), Guam Primary Drinking Water Regulations (GPDWR), Clean Water Act (CWA), Clean Air Act (CAA) and GWA's specific Utility Protection Programs, and the best management practices of these programs.

Ability to become familiar with the Hawaii Water System Standards, the Ten States Standards and the Occupational Health and Safety Act (OSHA) and the best management practices of these standards.

Knowledge of the inspection of utilities construction projects to enforce ordinances governing minimum standards and requirements in conformance with established laws, policies, regulations and principles of the program.

Knowledge of environmental inspections, sampling and collection methods.

Ability to apply principles of logical thinking to define problems, collect data, establish facts, and draw valid conclusions to interpret an extensive variety of technical instruction.

Knowledge of operation, procedures, installation, construction and inspection techniques, procedures, regulations, methods, maintenance and repair related to water and wastewater systems.

Ability to interact with contractors and construction personnel to ensure work activities and products meet required quality levels and standard and comply with all established laws, policies, regulations and principles of the program.

Knowledge of occupational hazards, safety precautions and standard safety practices, and ensure compliance with applicable Guam and Federal laws, rules and regulations governing water and wastewater systems.

Ability to inspect project work sites to ensure acceptable safe quality work and ensure compliance with all established laws, policies, regulations and principles of the program.

Knowledge of principles and processes for providing customer service. This includes setting and meeting quality standards for services, and evaluation of customer satisfaction.

Ability to effectively communicate ideas and proposals verbally and in writing, to include the preparation of detailed logs which include numerical information.

Knowledge of troubleshooting, field inspection and customer information system database issues/problems.

Ability to analyze problems, identifies solutions, advises, and responds to inquiries from customers concerning rules, regulations and potential consequences regarding water and wastewater systems.

Knowledge to operate computer programs, including Microsoft Office and the customer information system database and GWA GIS system.

Skill in business letter writing and report preparation.

MINIMUM EXPERIENCE AND TRAINING:

A. One (1) year of journeyman experience in water and wastewater utility systems field work ***and*** graduation from high school; or

B. One (1) year of experience as a Utility Inspector I; or

C. Any equivalent combination of experience and training which provides the minimum Knowledge, skills and abilities required for the position

NECESSARY SPECIAL QUALIFICATIONS:

Possession of a valid Water Distribution or Water Treatment Operator's Certificate Level I; ***and***

Possession of a valid Guam Driver's License.

ESTABLISHED:
JOB EVALUATION POINTS: 499
PAYGRADE: MINIMUM: G4-C $27,754.00 Per Annum
MAXIMUM: G7-C $31,274.00 Per Annum

JOSEPH T. DUENAS, Chairman
Consolidated Commission on Utilities

GUAM WATERWORKS AUTHORITY
"Better Water. Better Lives."
Suite 200; Gloria B. Nelson Public Service Building | 688 Route 15, Mangilao, Guam 96913
P.O. Box 3010, Hagatna, Guam 96932
Tel. No. (671) 300-6073-6 Fax No. (671) 300-6896

Issues for Decision

Resolution No.:

Relative to the Creation of the Utility Compliance Inspector Leader, Utility Compliance Inspector II, and Utility Compliance Inspector I positions at the Guam Waterworks Authority.

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

The Guam Waterworks Authority (GWA) has determined a need to create the Utility Compliance Inspector Leader, II, and I positions to carry out its mission towards providing *"Better Water Better Lives"* to the people of Guam.

The Utility Compliance Inspector I, II and Leader will work under the general direction of the Assistant General Manager of Compliance and Safety and the direct supervision of a respective program's Manager to help manage GWA's wide range of regulatory activities. Programs include but not limited to the Federal Safe Drinking Water Act (SDWA), Guam Primary Drinking Water Regulations (GPDWR) and their amendments including the Ground Water Rule (GWR), Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR), the Clean Water Act (CWA) and the Clean Air Act (CAA) and pursuant to further compliance to correct the "Findings of Significant Deficiencies in Guam Waterworks Authority's Public Water Systems. The positions also require awareness of the Occupational Safety and Health Act (OSHA).

The creation of the Utility Compliance Inspector series is for the efficient and effective performance of duties and functions of the Guam Waterworks Authority. Performs sampling, inspection and investigation duties for compliance with Federal, and Guam regulations.

In order to protect the public, we need to perform sampling, inspection and monitor for illegal or incorrect infrastructure to successfully improve the safety, efficiency and the reliability of the water and wastewater facilities. This will also result in improved services to our rate payers.

Where is the location?

The Utility Compliance Inspector series will be organizationally located within the Compliance and Safety Department, under the general direction of the Assistant General Manager for Compliance and Safety and direct supervision of a respective program's manager.

How much will it cost?

There is no cost to create the position.

When will it be completed?

Public Law 28-159, Section 7.0.3 (c) 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?

GWA will certify funding for the position available for the filling and retention of its certified, technical and professional newly created position. The funding of this position does not have an impact on the General Fund.

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

ATTACHMENT B

Utility Compliance Inspector Leader

NATURE OF WORK IN THIS CLASS:

The Utility Compliance Inspector Leader leads and performs various types of inspection work under the general direction of the Assistant General Manager (AGM) for Compliance and Safety and the direct supervision of a respective program's Manager to help manage GWA's wide range of compliance and regulatory activities.

The position may include supervision of lower level inspectors as delegated and assigned by the AGM or the respective Program Manager.

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)

Performs a variety of highly skilled work to successfully improve the safety, efficiency and the reliability of the water and wastewater facilities and operations.

The position also includes the capacity to ensure compliance with all applicable established laws, policies, regulations and principles of the programs in the respective section of the Compliance and Safety Division.

Leads the sampling, inspection, monitors and investigates residential, industrial and commercial facilities to ensure compliance with Federal, State and Local regulations and permit conditions regarding pretreatment and pollution prevention requirements.

Leads the inspection of utilities construction projects to enforce ordinances governing minimum standards and requirements of new construction, alterations, and repairs and enforce compliance with all established laws, policies, regulations and principles of the program.

Provides technical assistance with GWA Engineering staff to architects, engineers, contractors and customers to review project plans, amendments, alteration and specifications to water and wastewater construction of utilities to ensure adherence to applicable laws, policies, regulations and principles of the programs.

Leads the visual or electronic inspections of water and wastewater construction projects. Provides written documentation on observations, findings, assessments and analyses of site inspection. Identifies and categorizes all known or suspected sources of toxic pollutants or pesticides or materials that may inhibit the operation of or damage the GWA water and wastewater systems.

Generates, establishes and maintains a variety of records, reports, daily logs of inspections and findings and related documents.

Responds, communicates, interacts and coordinates to both residents and businesses on environmental complaints on illegal and/or hazardous activities. Examines and investigates procedures used, makes reports on the findings, discusses probable cause and recommends corrective actions and problem resolutions or improvements.

Leads the inspection on different systems and products to make sure everything has been built according to local, state, or federal codes and regulations. Leads the initial, follow up and periodic inspections of water and wastewater system projects and related installations to ensure continued compliance with all established laws, policies, regulations and principles of the program.

Leads in the inspections to protect the public water supply and wastewater from contamination or pollution by contaminants and/or pollutants through water and/or wastewater interconnection systems.

Leads the regular surveys of industrial, agricultural and commercial facilities to determine that adequate maintenance of devices are properly maintained and certified. Determines the degree of hazard that may exist to the potable water and wastewater systems and recommends/enforces procedures for compliance with Guam and Federal legal requirements.

Provides assistance, training and demonstrations to new employees on various types of safety procedures for water and wastewater systems. Participates in the development and implementation of goals, objectives, policies, and priorities.

Leads the utilities inspection programs as needed in reviewing policies and procedures for compliance established laws, policies, regulations and principles of the program.

Recommends appropriate action when test reports are not received within specified time limits.

Leads follow up of recommendations or requirements for corrective actions prepared by the Office of Compliance and Safety.

Acts, with GWA Engineering, as GWA liaison with all consumers and provides technical support as needed to achieve the proper procedures and compliance with applicable laws, policies, regulations and principles of the program.

Assists the Communications Manager to provide Public Outreach Training and Public Service Announcements related to Utility Protection Program Issues and performance goals.

Attends trainings, meetings, seminars and conferences as appropriate to stay abreast of Federal, and Guam regulations.

Composes correspondence, prepares forms and writes reports relating to the Program.

Assists in developing solutions for operational or technical problems associated with the environmental compliance of utility facilities.

Performs other related duties as assigned.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:

Working knowledge of the Safe Drinking Water Act (SDWA), Guam Primary Drinking Water Regulations (GPDWR), Clean Water Act (CWA), Clean Air Act (CAA) and GWA's specific Utility Protection Programs, and the best management practices of these programs.

Ability to become familiar with the Hawaii Water System Standards, the Ten States Standards and the Occupational Health and Safety Act (OSHA) and the best management practices of these standards.

Knowledge of the inspection of utilities construction projects to enforce ordinances governing minimum standards and requirements in conformance with established laws, policies, regulations and principles of the program.

Knowledge of environmental inspections, sampling and collection methods.

Ability to apply principles of logical thinking to define problems, collect data, establish facts, and draw valid conclusions to interpret an extensive variety of technical instruction.

Knowledge of operations, procedures, installation, construction and inspection techniques, procedures, regulations, methods, maintenance and repair related to water and wastewater systems.

Ability to read and interpret construction plans, specifications and details and utility maps and related engineering and architectural plans and drawing in order to ensure compliance with project specifications including GIS based management systems.

Ability to interact with contractors and construction personnel to ensure work activities and products meet required quality levels and standards and comply with all established laws, policies, regulations and principles of the program.

Knowledge of occupational hazards, safety precautions and standard safety practices. Ability to ensure compliance with applicable Guam and Federal laws, rules and regulations governing water and wastewater systems.

Ability to inspect project work sites to ensure acceptable safe quality work and ensure compliance with all established laws, policies, regulations and principles of the program.

Knowledge of principles and processes for providing customer service. This includes setting and meeting quality standards for services, and evaluation of customer satisfaction.

Ability to use logic and reasoning to understand, analyze, and evaluate situations and exercise good judgment to make appropriate decisions in accordance with appropriate program guidelines.

Ability to effectively communicate ideas and proposals verbally and in writing, to include the preparation of detailed logs which may include numerical information.

Knowledge of troubleshooting, field inspection and customer information system database issues/problems.

Ability to analyze problems, identify solutions, advise and respond to inquiries from customers concerning rules, regulations and potential consequences regarding water and wastewater systems.

Knowledge of operational effectiveness and recommend changes in rules, regulations, policies and procedures to improve program effectiveness.

Knowledge of operation of computer programs, including Microsoft Office, the customer information system database and GWA GIS system.

Skill in business letter writing and report preparation.

MINIMUM EXPERIENCE AND TRAINING:

A. Graduation from a recognized college or university with an Associate Degree in Chemistry, Science or related field; ***and*** two (2) years of experience in water and wastewater utility systems field work; or

B. Graduation from a recognized college or university with an Associate Degree in Chemistry, Science or related field; ***and*** Two (2) years of experience as a Utility Inspector II; or

C. Any equivalent combination of experience and training which provides the minimum Knowledge, skills and abilities required for the position

NECESSARY SPECIAL QUALIFICATIONS:

Possession of a valid Water Distribution or Water Treatment Operator's Certificate Level III; ***and***

Possession of a valid AWWA or ABPA or equivalent Cross-Connection Control Specialist Certification or Pre-Treatment Inspection Certification; ***and***

Possession of a valid Guam Driver's License.

ESTABLISHED:	June 2017		
JOB EVALUATION POINTS:	787		
PAYGRADE:	MINIMUM:	J6-A	$43,648.00 Per Annum
	MAXIMUM:	J9-A	$49,184.00 Per Annum

JOSEPH T. DUENAS, Chairman
Consolidated Commission on Utilities

Utility Compliance Inspector II

NATURE OF WORK IN THIS CLASS:

The Utility Compliance Inspector II performs various types of inspection work under the general direction of the Assistant General Manager (AGM) for Compliance and Safety and the direct supervision of a respective program's Manager and when so designated the Utility Compliance Inspector Leader to help manage GWA's wide range of compliance and regulatory activities.

The position performs a variety of skilled and moderately technical inspection work. Employees in this class perform work independently on an ongoing basis and participate in the full range of complex work projects under closer supervision.

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)

Performs a variety of skilled work to successfully improve the safety, efficiency and the reliability of the water and wastewater facilities and operations.

The position also includes the capacity to ensure compliance with all applicable established laws, policies, regulations and principles of the programs in the respective section of the Compliance and Safety Division.

Performs the sampling, inspection, monitoring and investigation of residential, industrial and commercial facilities to ensure compliance with Federal and Guam regulations and permit conditions regarding pretreatment and pollution prevention requirements.

Performs the inspection of utility's construction projects to enforce ordinances governing minimum standards and requirements of new construction, alterations, and repairs and enforce compliance with all established laws, policies, regulations and principles of the program.

Provides written documentation on observations, findings, assessments and analyses of site inspection. Identifies and categorizes all known or suspected sources of toxic pollutants or pesticides or materials that may inhibit the operation of or damage the GWA water and wastewater systems.

Generates, establishes, and maintains a variety of records, reports, daily logs of inspections and findings and related documents.

Responds, communicates, interacts and coordinates both with residents and businesses on environmental complaints on illegal and/or hazardous activities. Examines and investigates procedures used, makes reports on the findings, discusses probable cause and recommends corrective actions and problem resolution/system improvements.

Assists the inspection on various systems and products to make sure everything has been built according to Guam or federal codes and regulations. Assists the initial, follow up and periodic inspections of water and wastewater systems projects and related installations to ensure continued compliance with all established laws, policies, regulations and principles of the program.

Participates in inspections to protect the public water supply and wastewater from contamination or pollution of contaminants and/or pollutants through water and/or wastewater interconnections.

Assists in the regular surveys of industrial, agricultural and commercial facilities to determine that adequate maintenance of devices are properly maintained and certified and determines the degree of hazard that may exist to the potable water and wastewater systems. Recommends/enforces procedures for compliance with Guam and Federal legal requirements.

Assists in follow up of recommendations or requirements for corrective actions prepared by the Office of Compliance and Safety.

Assists in the Public Outreach Training and Public Service Announcements related to Utility Protection Program Issues and performance goals.

Composes correspondence, prepares forms and writes reports relating to the Program.

Assists in developing solutions for operational or technical problems associated with the environmental compliance of utility facilities.

Performs other related duties as assigned.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:

Working knowledge of the Safe Drinking Water Act (SDWA), Guam Primary Drinking Water Regulations (GPDWR), Clean Water Act (CWA), Clean Air Act (CAA) and GWA's specific Utility Protection Programs, and the best management practices of these programs.

Ability to become familiar with the Hawaii Water System Standards, the Ten States Standards and the Occupational Health and Safety Act (OSHA) and the best management practices of these standards.

Knowledge of the inspection of utilities construction projects to enforce ordinances governing minimum standards and requirements in conformance with established laws, policies, regulations and principles of the program.

Knowledge of environmental inspections, sampling and collection methods.

Ability to apply principles of logical thinking to define problems, collect data, establish facts, and draw valid conclusions to interpret an extensive variety of technical instruction.

Knowledge of operations, procedures, installations, construction and inspection techniques, procedures, regulations, methods, maintenance and repair related to water and wastewater systems.

Ability to interact with contractors and construction personnel to ensure work activities and products meet required quality levels and standards and comply with all established laws, policies, regulations and principles of the program.

Knowledge of occupational hazards, safety precautions and standard safety practices, in order to ensure compliance with applicable Guam and Federal laws, rules and regulations governing water and wastewater systems.

Ability to inspect project work sites to ensure acceptable safe quality work and ensure compliance with all established laws, policies, regulations and principles of the program.

Knowledge of principles and processes for providing customer service. This includes setting and meeting quality standards for services, and evaluation of customer satisfaction.

Ability to effectively communicate ideas and proposals verbally and in writing, to include the preparation of detailed logs which may include numerical information.

Knowledge of troubleshooting, field inspection and customer information system database issues/problems.

Ability to analyze problems, identify solutions, advise, and respond to inquiries from customers concerning rules, regulations and potential impacts on water and wastewater systems.

Knowledge of the operation of computer programs, including Microsoft Office; the customer information system database and GWA GIS system.

Skill in business letter writing and report preparation.

MINIMUM EXPERIENCE AND TRAINING:

A. Two (2) years of skilled journeyman experience in water and wastewater utility systems field work ***and*** graduation from high school; or

B. Two (2) years of experience as a Utility Inspector I; or

C. Any equivalent combination of experience and training which provides the minimum Knowledge, skills and abilities required for the position

NECESSARY SPECIAL QUALIFICATIONS:

Possession of a valid Water Distribution or Water Treatment Operator's Certificate Level II; ***and***

Possession of a valid Guam Driver's License.

ESTABLISHED:	June 2017		
JOB EVALUATION POINTS:	626		
PAYGRADE:	MINIMUM:	I4-C	$36,069.00 Per Annum
	MAXIMUM:	I7-C	$40,643.00 Per Annum

JOSEPH T. DUENAS, Chairman
Consolidated Commission on Utilities

Utility Compliance Inspector I

NATURE OF WORK IN THIS CLASS:

The Utility Compliance Inspector I performs routine inspection work under the general direction of the Assistant General Manager (AGM) for Compliance and Safety; the direct supervision of a respective program's Manager and when so designated, the Utility Compliance Inspector Leader to help manage GWA's wide range of compliance and regulatory activities.

The position performs routine technical inspection work. Employees in this class work independently after initial training and work under closer supervision on a variety of more complex developmental assignments.

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)

Performs a variety of routine work to successfully improve the safety, efficiency and the reliability of the water and wastewater facilities and operations.

The position also includes the capacity to ensure compliance with all applicable established laws, policies, regulations and principles of the programs in the respective section of the Compliance and Safety Division.

Performs the sampling, inspection, monitors and investigates residential, industrial and commercial facilities to ensure compliance with Federal and Guam regulations and permit conditions regarding pretreatment and pollution prevention requirements.

Performs the inspection of utilities construction projects to enforce ordinances governing minimum standards and requirements of new construction, alterations, and repairs and enforces compliance with all established laws, policies, regulations and principles of the program.

Provides written documentation on observations, findings, assessments and analyses of site inspection. Identifies and categorizes all known or suspected sources of toxic pollutants or pesticides or materials that may inhibit the operation of or damage the GWA water and wastewater systems.

Generates, establishes, and maintains a variety of records, reports, daily logs of inspections and findings and related documents.

Responds, communicates, interacts and coordinates to/with both residents and businesses on environmental complaints and on illegal and/or hazardous activities. Examines and investigates procedures used and makes reports on the findings; discusses probable cause and recommends corrective actions and problem resolution and/or recommends improvements.

Participates in inspections to protect the public water supply and wastewater from contamination or pollution of contaminants and/or pollutants through water and/or wastewater interconnection systems.

Assists the regular surveys of industrial, agricultural and commercial facilities to determine that adequate maintenance of devices are proper and certified and determines the degree of hazard that may exist to the potable water and wastewater systems and recommends/enforces procedures for compliance with Guam and Federal legal requirements.

Assists in follow up of recommendations or requirements for corrective actions prepared by the Office of Compliance and Safety.

Assists in the Public Outreach Training and Public Service Announcements related to Utility Protection Program/Pre Treatment Issues and performance goals.

Composes correspondence, prepares forms and writes reports relating to the Program.

Performs other related duties as assigned.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:

Working knowledge of the Safe Drinking Water Act (SDWA), Guam Primary Drinking Water Regulations (GPDWR), Clean Water Act (CWA), Clean Air Act (CAA) and GWA's specific Utility Protection Programs, and the best management practices of these programs.

Ability to become familiar with the Hawaii Water System Standards, the Ten States Standards and the Occupational Health and Safety Act (OSHA) and the best management practices of these standards.

Knowledge of the inspection of utility's construction projects to enforce ordinances governing minimum standards and requirements in conformance with established laws, policies, regulations and principles of the program.

Knowledge of environmental inspections, sampling and collection methods.

Ability to apply principles of logical thinking to define problems, collect data, establish facts, and draw valid conclusions to interpret an extensive variety of technical instruction.

Knowledge of operations, procedures, installation, construction and inspection techniques, procedures, regulations, methods, maintenance and repair; related to water and wastewater systems.

Ability to interact with contractors and construction personnel to ensure work activities and products meet required quality levels and standard and comply with all established laws, policies, regulations and principles of the program.

Knowledge of occupational hazards, safety precautions and standard safety practices, and ensure compliance with applicable Guam and Federal laws, rules and regulations governing water and wastewater systems.

Ability to inspect project work sites to ensure acceptable safe quality work and ensure compliance with all established laws, policies, regulations and principles of the program.

Knowledge of principles and processes for providing customer service. This includes setting and meeting quality standards for services, and evaluation of customer satisfaction.

Ability to effectively communicate ideas and proposals verbally and in writing, to include the preparation of detailed logs which may include numerical information.

Knowledge of troubleshooting, field inspection and customer information system database issues/problems.

Ability to analyze problems, identify solutions, advise and respond to inquiries from customers concerning rules, regulations and potential consequences regarding water and wastewater systems.

Knowledge to operate computer programs, including Microsoft Office and the customer information system database and GWA GIS system.

Skill in business letter writing and report preparation.

MINIMUM EXPERIENCE AND TRAINING:

A. One (1) year of journeyman experience in water and wastewater utility systems field work ***and*** graduation from high school; or

B. One (1) yeas of experience as a Utility Inspector I; or

C. Any equivalent combination of experience and training which provides the minimum Knowledge, skills and abilities required for the position

NECESSARY SPECIAL QUALIFICATIONS:

Possession of a valid Water Distribution or Water Treatment Operator's Certificate Level I; ***and***

Possession of a valid Guam Driver's License.

ESTABLISHED:	June 2017		
JOB EVALUATION POINTS:	499		
PAYGRADE:	MINIMUM:	G4-C	$27,754.00 Per Annum
	MAXIMUM:	G7-C	$31,274.00 Per Annum

JOSEPH T. DUENAS, Chairman
Consolidated Commission on Utilities

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. 36-FY2017
GPA RESOLUTION NO. 2017-26

RELATIVE TO THE REVISION OF MEMBERSHIP OF THE CONSOLIDATED COMMISSION ON UTILITIES AUDIT COMMITTEE

WHEREAS, a broadly recognized practice in medium to large sized organizations is to have within the organization, an Audit Committee to monitor the integrity of the financial statements of the organization, to review material financial reporting judgments, to review the internal financial control system of the organization, to monitor and review the effectiveness of the organization's Internal Audit functions and its business practices and procedures, to receive internal audit reports, to meet with external auditors regarding audit issues, and to periodically advise the governing body as a whole of such matters; and

WHEREAS, in 2003 the Consolidated Commission on Utilities ("CCU") established an Audit Committee made up of two (2) commissioners, the GPA General Manager, the GWA General Manager, and the Chief Financial Officer for purposes which included approving the audit plan of the Internal Auditor, receiving internal audit reports, following up on audit findings, and meeting once a year with the external auditors; and

WHEREAS, in 2005, the make-up of the Audit Committee was revised to include all the members of the Consolidated Commission on Utilities and the Committee to meet once yearly with GPA's external auditors; and

WHEREAS, a key component of an internal control system is an internal audit function within an organization; and

//

//

WHEREAS, GPA and GWA hired Internal Auditors and the work requirement of the Audit Committee has increased to include review and the disposition of audit reports from the Internal Auditors; and

WHEREAS, in 2013 the make-up of the Audit Committee was revised further to reference title of the members; and

WHEREAS, the CCU desires that the resolution should make references to updated CCU and GPA/GWA management titles held; and

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

1. Effective immediately, the Guam Power Authority Audit Committee shall be made up of the Treasurer of the CCU who shall serve as the Chairperson of the Committee and another member of the CCU, chosen by the Committee Chairperson, who shall serve as Vice-Chair of the Committee, and the GPA General Manager.
2. Effective immediately, the Guam Waterworks Authority Audit Committee shall be made up of the Treasurer of the CCU who shall serve as the Chairperson of the Committee and another member of the CCU, chosen by the Committee Chairperson, who shall serve as Vice-Chair of the Committee, and the GWA General Manager.
3. Effective immediately, the Audit Committees will meet at the call of the Committee Chair, and may include the attendance of personnel from each respective Internal Audit Offices, or other GPWA staff as the Committee Chair deems appropriate.

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

//

//

DULY AND REGULARLY ADOPTED, this 6th day of June, 2017.

Certified by:

JOSEPH T. DUENAS
Chairperson

Attested by:

J. GEORGE BAMBA
Secretary

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

///

///

///

///

///

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-FY2017

RELATIVE TO CONTRACT APPROVAL FOR THE DESIGN AND CONSTRUCTION OF THE UMATAC-MERIZO WASTEWATER TREATMENT PLANT UPGRADE PROJECT S17-002-BND

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 a number of critical Court Order ("CO") projects including a complete evaluation of the Umatac-Merizo Wastewater Treatment Plant (WWTP) to determine what improvements are necessary at the plant to achieve compliance with the WWTP's National Pollutant Discharge Elimination System (NPDES) permit through the United States Environmental Protection Agency (USEPA), as stated in Paragraph 15 of the 2011 Court Order, as well as the completion of construction activities identified in the approved plan resulting from the evaluation noted above, as stated in Paragraph 16 of the 2011 Court Order; and

WHEREAS, in December of 2012, GWA's Program Management Office (PMO), Brown and Caldwell, completed an Overflow Analysis for the Umatac-Merizo WWTP, which recommended several upgrades to the WWTP to prevent future overflows into the Toguan River; and

WHEREAS, the System Evaluation Report required under Paragraph 15 of the 2011 Court Order, completed in December of 2013 by GWA's PMO, resulted in a recommendation to

GWA and USEPA that, with suitable WWTP upgrades and coordination with regulatory agencies, continued operation of the land-application plant with seasonal/intermittent discharge to the Toguan River could be a viable and cost-effective option; and

WHEREAS, in May of 2014, GWA's PMO completed an Implementation Plan and Schedule as a supplement to the System Evaluation Report, that included a specific plan and schedule to upgrade the existing Umatac-Merizo WWTP to achieve compliance with the WWTP's NPDES permit by the 2011 Court Order deadline of December 31, 2018; and

WHEREAS, in May of 2014, GWA's PMO developed a white paper entitled "Umatac-Merizo Wastewater Treatment Plant, Pursuit of an Affordable Compliance Solution for a Small Island Community", which summarized effluent management options and costs, receiving water monitoring results, evaluation of Guam's numeric nutrient standards, and regulatory options for obtaining discharge compliance; and

WHEREAS, in April of 2015, GWA's PMO developed a draft Expanded Monitoring Plan to assist with regulatory discussions regarding effluent compliance at Umatac-Merizo WWTP, and expanded monitoring began in June of 2016; and

WHEREAS, in May of 2016, GWA's PMO prepared a Disinfection Evaluation Technical Memorandum to assess disinfection options at the Umatac-Merizo WWTP, leading to a recommendation that an ultraviolet disinfection process be implemented; and

WHEREAS, in June of 2016, GWA's PMO completed a Umatac-Merizo Wastewater Treatment Plant Upgrade Project Basis of Design Report, which provided a preliminary design intended to meet the June 30, 2016 interim deadline to execute a design contract, as described in Paragraph 16 of the 2011 Court Order; and

WHEREAS, GWA Management, in an effort to comply with the intent of the 2011 Court Order interim deadline to execute a construction contract by June 30, 2017, determined that the most expedient procurement process would be to proceed with a design-build project; and

WHEREAS, GWA has advertised the Invitation to Bid (IFB-03-ENG-2017), for the Design and Construction of the Umatac-Merizo Wastewater Treatment Plant Upgrade, soliciting multi-step bid proposals from experienced and responsive bidders to design and construct repairs and upgrades to the Umatac-Merizo Wastewater Treatment Plant, as described in the bid specifications; and

WHEREAS, this project consists of furnishing all labor, tools, equipment and materials, including coordination with GWA Wastewater Operations, GWA Engineering, the Construction Manager / Owner's Site Representative, and GWA's PMO, that are necessary to design and construct all components included in the bid specifications for the Umatac-Merizo Wastewater Treatment Plant Upgrade; and

WHEREAS, IFB packages were obtained by multiple interested parties, from which GWA received technical proposals from four (4) parties before the deadline, and all four (4) technical proposals were reviewed by GWA Engineering and GWA's PMO, and all four (4) technical proposals were found to be acceptable; and

WHEREAS, GWA received price proposals from two (2) parties (SEE EXHIBIT A – Abstract of Bids) before the bid proposal deadline; and

WHEREAS, GWA's PMO, along with GWA Engineering, analyzed the two (2) bid proposals received and determined that "Core Tech – Hawaiian Dredging, LLC" successfully submitted the lowest bid as responsive and responsible and met all the bid requirements set forth by GWA (SEE EXHIBIT B – Evaluation); and

WHEREAS, GWA Management finds the "Core Tech – Hawaiian Dredging, LLC" bid proposal acceptable and now seeks CCU approval of the bid proposal amount of Eighteen Million Six Hundred Forty Five Thousand Four Hundred Fifty Dollars ($18,645,450.00) (SEE EXHIBIT C – BID PROPOSAL); and

WHEREAS, GWA Management further seeks CCU approval of a ten percent (10%) contingency to the bid proposal amount, or One Million Eight Hundred Sixty Four Thousand Five Hundred Forty Five Dollars ($1,864,545.00), to bring the total authorized funding amount to Twenty Million Five Hundred Nine Thousand Nine Hundred Ninety Five Dollars ($20,509,995.00); and

WHEREAS, funding for this project will be from the GWA Bond Funds under the line items CIP WW 11-04 "Facilities Plan/Design/Interim for Umatac-Merizo STP Impr.", WW 12-07 "Umatac Merizo STP Replacement", Internally Funded CIP and to the extent applicable System Development Charge (SDC); 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 and 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 the management of GWA to accept the bid proposal from "Core Tech – Hawaiian Dredging, LLC" attached hereto as EXHIBIT C, and which is incorporated into this Resolution in its entirety.
4. The CCU hereby further authorizes the management of GWA to enter into a contract with "Core Tech – Hawaiian Dredging, LLC" in the amount of Eighteen Million Six Hundred Forty Five Thousand Four Hundred Fifty Dollars ($18,645,450.00).
5. The CCU hereby further approves the funding total of Eighteen Million Six Hundred Forty Five Thousand Four Hundred Fifty Dollars ($18,645,450.00), plus a ten percent (10%) contingency of One Million Eight Hundred Sixty Four Thousand Five Hundred Forty Five Dollars ($1,864,545.00) for a total amount of Twenty Million Five Hundred Nine Thousand Nine Hundred Ninety Five Dollars ($20,509,995.00).
6. The CCU hereby further approves funding for this project to be from the GWA Bond Funds under the line items CIP WW 11-04 "Facilities Plan/Design/Interim

for Umatac-Merizo STP Impr.", WW 12-07 "Umatac Merizo STP Replacement", Internally Funded CIP and to the extent applicable System Development Charge (SDC).

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

DULY AND REGULARLY ADOPTED, this 6th day of June 2017.

Certified by:

JOSEPH T. DUENAS
Chairperson

Attested by:

J. GEORGE BAMBA
Secretary

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

///

///

///

ORIGINAL

GUAM WATERWORKS AUTHORITY
ABSTRACT OF BIDS

Project Name: **DESIGN AND CONSTRUCTION OF THE UMATAC-MERIZO WASTEWATER TREATMENT PLANT UPGRADE (Multi-Step Bid)**
Project Number: **S17-002-BND; IFB-03-ENG-2017**

STEP 2 Bid Opening Date: May 12, 2017
STEP 2 Bid Opening Time: 3:00 pm

	Qualified Bidders	Section A-5 Bid Bond	CERTIFICATIONS								TOTAL BASE BID
			Bidder Qualification Form	Non-Collusion Affidavit	EEO Certification	Non-Segregated Facilities	Sex Offender Certification	Wage & Benefit Determination	Major Shareholders Affidavit	Special Instructions to Bidders	
1.	CORE TECH-HAWAIIAN DREDGING, LLC	Fidelity & Deposit Company of Maryland 15% of total bid amount	2/2/2017	2/2/2017	✓	2/2/2017	2/2/2017	2/2/17	2/2/2017	✓	$18,645,450.00
2.	SUMITOMO MITSUI CONST. CO., LTD.		2/2/2017	2/2/2017		2/2/2017	2/2/2017		2/2/2017		
3.	BLACK CONSTRUCTION CORP.	Safeco Insurance of America 15% of the bid amount	2/2/2017	2/2/2017	✓	2/2/2017	2/2/2017	✓	2/2/2017		$22,317,880.00
4.	PERNIX, GUAM LLC		2/2/2017	2/2/2017		2/2/2017	2/2/2017		2/2/2017		

Bids Opened and Read by:
GLORIA BENSAN
(Name and Signature)
Bensan

Tabulated By:
NICOLE B. QUAN
(Name and Signature)
Nicole B. Quan

GWA Procurement Representative:
(Name and Signature)
STEPHEN MUNOZ

Genjo S. Dagay
digitally Val A. Manuel CTI

Witnesses: (Print and Sign)
RODRIGO F BLOMONTE
JOSE ANNIE BONEACIO
ALVIN CAMPARD GT-HDCC
EUNICE LINGAT GWA
ERICKSON MARUE
Bill Chang. V.C. HDCC

Exhibit A (1 of 1)

Doc. No. 34GL-17-0809.*

Exhibit B (1 of 4)

Brown AND Caldwell

May 22, 2017

Mr. Thomas Cruz, P.E.
Chief Engineer
Guam Waterworks Authority
Gloria B. Nelson Public Service Building
688 Route 16
Mangilao, Guam 96913

Subject: Letter of Recommendation for the Design and Construction of the Umatac-Merizo Wastewater Treatment Plant Upgrade; GWA Project Number S17-002-BND

Dear Mr. Cruz:

We have completed our review of the Umatac-Merizo Wastewater Treatment Plant Upgrade project. Based on our review of the bid proposals from all interested parties, Brown and Caldwell (BC) has determined that CoreTech – Hawaiian Dredging, LLC is the apparent lowest bidder with a total base bid of $18,645.450.00.

In several places on the bid form, CoreTech – Hawaiian Dredging, LLC has indicated "included" for individual line items, instead of a value in dollars. Based on our review of the contract requirements including the Instructions to bidders, we believe that this is acceptable as it does indicate that all the work is included and it does not affect the total price, quantity, quality or delivery of the work. Before proceeding with the contract award, GWA should concur with our recommendation regarding this issue.

Based on our review, BC recommends executing a contract with CoreTech – Hawaiian Dredging, LLC to provide design and construction services for the this project, as their bid proposal was within reason for the scope of the project. Table 1 summarizes the submitted bids, and Attachment 2 tabulates the details of each party's bids.

Lastly, BC has verified that CoreTech – Hawaiian Dredging, LLC submitted all required documents to be qualified and considered for this project

414 W Soledad Avenue, Suite 907
Hagatna, Guam 96910

T: 671.477.0975

Exhibit B (2 of 4)

Table 1: Bid Summary

Bidder	Total Bid	Variance
Brown and Caldwell's Cost Estimate	$20,400,000	-
CoreTech – Hawaiian Dredging, LLC	$18,645,450.00	7%
Black Construction Corporation	$22,317,880.00	12%

If you have any questions regarding our evaluation or recommendation, please call me at (671) 477-0975.

Respectfully Submitted,

Brown and Caldwell

Kurt Bilz, P.E.
Managing Engineer

KRB:ejm

cc: Erickson Marble, Brown and Caldwell
Gloria Bensan, Guam Waterworks Authority

Attachments:

1. GWA Abstract of Bids
2. Bid Tabulation
3. Bid Form, CoreTech – Hawaiian Dredging, LLC

GUAM WATERWORKS AUTHORITY

Exhibit B (3 of 4)

Design and Construction of the Umatac-Merizo Wastewater Treatment Plant Upgrade (IFB-003-ENG-2017)
Bid Tabulation

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	Extended Price	
					CORE TECH - HAWAIIAN DREDGING, LLC	BLACK CONSTRUCTION CORPORATION
BF-1	**Base Bid**					
1	All work to provide Geotechnical Investigations and develop Project Geotechnical Report	1	JOB	LS	$ 167,271.00	$ 78,477.00
2	All work to provide Survey and Mapping	1	JOB	LS	$ 75,327.00	$ 86,400.00
3	All work to provide all other required design and Design Professional Services, including but not limited to permitting and value engineering	1	JOB	LS	$ 1,964,066.00	$ 2,352,100.00
4	Sum of all work to construct Upgraded Waste Water Treatment Plant (*Sum of items 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, 4.13, 4.14, 4.15, 4.16, 4.17, and 4.18*)	1	JOB	LS	$ 16,438,785.00	$ 19,800,903.00
4.1	All work to mobilize and demobilize for construction.	1	JOB	LS	$ 2,773,749.00	$ 30,648.00
4.2	All work to connect Site Utilities	1	JOB	LS	$ 191,584.00	$ 338,349.00
4.3	All work to construct Upgraded Influent Pump Station including removal, decommissioning, and / or demolition of existing equipment and all bypass systems	1	JOB	LS	$ 213,388.00	$ 366,669.00
4.4	All work to construct New Headworks	1	JOB	LS	$ 1,184,321.00	$ 1,556,006.00
4.5	All work to construct Upraded Aerated Lagoon including removal, decommissioning, and / or demolition of existing equipment and all bypass systems	1	JOB	LS	$ 422,568.00	$ 249,752.00
4.6	All work to construct New Lagoon Effluent Pump Station	1	JOB	LS	$ 328,007.00	$ 833,932.00
4.7	All work to construct New Lagoon Effluent Forcemain *(Sum of items 4.7.1 and 4.7.2)*	1	JOB	LS	$ 456,864.00	$ 496,209.00
4.7.1	Excavation	1	JOB	LS	$ 64,714.00	$ 215,511.00
4.7.2	All other work to construct New Lagoon Effluent Forcemain	1	JOB	LS	$ 392,150.00	$ 280,698.00
4.8	All work to construct Upgraded Overland Flow System including all bypass systems *(Sum of items 4.8.1 an 4.8.2)*	1	JOB	LS	$ 5,000,893.00	$ 8,298,669.00
4.8.1	All work to construct New Overland Flow Storage Tank (prestressed, concrete D110 tank) *(Sum of items 4.8.1.1 and 4.8.1.2)*	1	JOB	LS	$ 1,732,327.00	$ 2,359,094.00
4.8.1.1	All work to construct foundation	1	JOB	LS	$ 292,655.00	$ 456,908.00
4.8.1.2	All other work for New Overland Flow Storage Tank	1	JOB	LS	$ 1,439,672.00	$ 1,902,187.00

Doc. No. 34GL-17-0809.*

GUAM WATERWORKS AUTHORITY

Exhibit B (4 of 4)

Design and Construction of the Umatac-Merizo Wastewater Treatment Plant Upgrade (IFB-003-ENG-2017)
Bid Tabulation

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	Extended Price	
					CORE TECH - HAWAIIAN DREDGING, LLC	BLACK CONSTRUCTION CORPORATION
4.8.2	All other work for the Upgraded Overland Flow System including removal, decommissioning, and / or demolition of existing equipment and bypass systems	1	JOB	LS	$ 3,268,566.00	$ 5,939,574.00
4.9	All work to construct New UV Disinfection System	1	JOB	LS	$ 1,989,311.00	$ 2,406,823.00
4.10	All work to decommission Pump Station 19 and Existing Effuent Forcemain	1	JOB	LS	$ 23,030.00	$ 9,254.00
4.11	All work to construct All Appurtenant Facilities (Upgraded Plant Water System, New Access Road, new pedestrian paths to river monitoring locations, overland flow site fencing)	1	JOB	LS	$ 1,653,625.00	$ 444,139.00
4.12	All electrical work including new generator	1	JOB	LS	$ 553,312.00	$ 1,793,602.00
4.13	All instrumentation and Control Work including telecommunications	1	JOB	LS	$ 720,531.00	$ 1,114,325.00
4.14	All Work to provide Startup, Commissioning, Acceptance Testing, Transitioin, and Training including Startup, Commissioning, Transition, Accept Testing and Training Plan	1	JOB	LS	included	$ 269,767.00
4.15	All required Mobile Equipment	1	JOB	LS	$ 795,479.00	$ 746,489.00
4.16	All required Spare Parts	1	JOB	LS	$ 132,123.00	$ 249,029.00
4.17	All Work for As-Built Drawings and Specifications, and O&M Manuals from preparation to final approval	1	JOB	LS	included	$ 152,487.00
4.18	All other work required by the Contract Documents	1	JOB	LS	included	$ 444,753.00
5	**TOTAL BASE BID (*Sum of items 1, 2, 3, and 4)***	--	--	--	**$ 18,645,450.00**	**$ 22,317,880.00**
BF-2	**Bid Deductions**					
BD1	Credit for deletion of Upgraded Influent Pump Station (see bid item 4.3)	1	JOB	LS	$ 213,388.00	$ 221,281.00
BD2	Credit for deletion of mobile equipment (see bid item 4.15)	1	JOB	LS	$ 795,479.00	$ 450,000.00
BD3	Credit for deletion of all spare parts, except for UV system spare parts)	1	JOB	LS	$ 75,000.00	$ 115,287.00
BF-3	**Bid Alternates**					
BA1	All work for alternate New Overland Flow Storage Tank (welded stainless steel) *(Sum of items BA1.1 and BA1.2)*	1	JOB	LS	$ 2,500,000.00	$ 2,150,998.00
BA1.1	Foundation	1	JOB	LS	included	$ 141,214.00
BA1.2	All other work for alternate New Overland Flow Storage Tank	1	JOB	LS	included	$ 2,009,784.00

Definitions:
LS-Lump Sum

Doc. No. 34GL-17-0809.*

Exhibit C (1 of 3)

BF-1. Base Bid Form

Item No.	Description of Item	QTY	Unit	Unit Price	Amount
1	All work to provide Geotechnical Investigations and develop Project Geotechnical Report	1	JOB	L.S.	$ 167,271.00
2	All work to provide Survey and Mapping	1	JOB	L.S.	$ 75,327.00
3	All work to provide all other required design and Design Professional Services, including but not limited to permitting and value engineering	1	JOB	L.S.	$ 1,964,066.00
4	Sum of all work to construct Upgraded Waste Water Treatment Plant *(Sum of items 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, 4.13, 4.14, 4.15, 4.16, 4.17, and 4.18)*	1	JOB	L.S.	$ 16,438,786.00
4.1	All work to mobilize and demobilize for construction.	1	JOB	L.S.	$ 2,773,749.00
4.2	All work to connect Site Utilities	1	JOB	L.S.	$ 191,584.00
4.3	All work to construct Upgraded Influent Pump Station including removal, decommissioning, and / or demolition of existing equipment and all bypass systems	1	JOB	L.S.	$ 213,388.00
4.4	All work to construct New Headworks	1	JOB	L.S.	$ 1,184,321.00
4.5	All work to construct Upraded Aerated Lagoon including removal, decommissioning, and / or demolition of existing equipment and all bypass systems	1	JOB	L.S.	$ 422,568.00
4.6	All work to construct New Lagoon Effluent Pump Station	1	JOB	L.S.	$ 328,007.00
4.7	All work to construct New Lagoon Effluent Forcemain *(Sum of items 4.7.1 and 4.7.2)*	1	JOB	L.S.	$ 456,864.00
4.7.1	Excavation	1	JOB	L.S.	$ 64,714.00
4.7.2	All other work to construct New Lagoon Effluent Forcemain	1	JOB	L.S.	$ 392,150.00
4.8	All work to construct Upgraded Overland Flow System including all bypass systems *(Sum of items 4.8.1 an 4.8.2)*	1	JOB	L.S.	$ 5,000,893.00
4.8.1	All work to construct New Overland Flow Storage Tank (prestressed, concrete D110 tank) *(Sum of items 4.8.1.1 and 4.8.1.2)*	1	JOB	L.S.	$ 1,732,327.00
4.8.1.1	All work to construct foundation	1	JOB	L.S.	$ 292,655.00

Exhibit C (2 of 3)

BF-1. Base Bid Form

Item No.	Description of Item	QTY	Unit	Unit Price	Amount
4.8.1.2	All other work for New Overland Flow Storage Tank	1	JOB	L.S.	$ 1,439,672.00
4.8.2	All other work for the Upgraded Overland Flow System including removal, decommissioning, and / or demolition of existing equipment and bypass systems	1	JOB	L.S.	$ 3,268,566.00
4.9	All work to construct New UV Disinfection System	1	JOB	L.S.	$ 1,989,311.00
4.10	All work to decommission Pump Station 19 and Existing Effuent Forcemain	1	JOB	L.S.	$ 23,030.00
4.11	All work to construct All Appurtenant Facilities (Upgraded Plant Water System, New Access Road, new pedestrian paths to river monitoring locations, overland flow site fencing)	1	JOB	L.S.	$ 1,653,625.00
4.12	All electrical work including new generator	1	JOB	L.S.	$ 553,312.00
4.13	All instrumentation and Control Work including telecommunications	1	JOB	L.S.	$ 720,531.00
4.14	All Work to provide Startup, Commissioning, Acceptance Testing, Transitioin, and Training including Startup, Commissioning, Transition, Accept Testing and Training Plan	1	JOB	L.S.	included
4.15	All required Mobile Equipment	1	JOB	L.S.	$ 795,479.00
4.16	All required Spare Parts	1	JOB	L.S.	$ 132,123.00
4.17	All Work for As-Built Drawings and Specifications, and O&M Manuals from preparation to final approval	1	JOB	L.S.	included
4.18	All other work required by the Contract Documents	1	JOB	L.S.	included
5	TOTAL BASE BID *(Sum of items 1, 2, 3, and 4)* Eighteen Million Six Hundred Forty Five Thousand Four Huindred Fifty DOLLARS				$ 18,645,450.00

Exhibit C (3 of 3)

BF-2. Bid Deductions

Item No.	Description of Item	QTY	Unit	Unit Price	Amount
BD1	Credit for deletion of Upgraded Influent Pump Station (see bid item 4.3)	1	JOB	L.S.	$ 213,388.00
BD2	Credit for deletion of mobile equipment (see bid item 4.15)	1	JOB	L.S.	$ 795,479.00
BD3	Credit for deletion of all spare parts, except for UV system spare parts)	1	JOB	L.S.	$ 75,000.00

Table BF-3. Bid Alternates

Item No.	Description of Item	QTY	Unit	Unit Price	Amount
BA1	All work for alternate New Overland Flow Storage Tank (welded stainless steel) *(Sum of items BA1.1 and BA1.2)*	1	JOB	L.S.	$ 2,500,000.00
BA1.1	Foundation	1	JOB	L.S.	included
BA1.2	All other work for alternate New Overland Flow Storage Tank	1	JOB	L.S.	included

Submitted By: Core Tech - Hawaiian Dredging, LLC

Name (typed): Conchita D. Bathan

Attach appropriate Authorization to Sign on behalf of Proposer

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. 38–FY2017

RELATIVE TO APPROVAL OF THE LAND SURVEY PHASE II CONTRACT WITH DUENAS CAMACHO AND ASSOCIATES

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, through a "Grant Deed" (DLM Instrument Number 567559) and an "Assignment" (DLM Instrument Number 567695) to GWA in 1997, real properties owned by the Government of Guam/Public Utilities of Guam were transferred, assigned and conveyed to GWA for only area required by GWA to which survey real estate requirement maps are required pursuant to the grant deed for lots indicated in the deed (SEE Exhibit A – Grant Deed & Assignment Letter); and

WHEREAS, to address the requirements of the grant deed and assignment letter, GWA entered into a contract on November 16, 2007 with Duenas Camacho and Associates for land survey work per GWA RFP-2006-05 to complete land survey and associated services such as Ownership and Encumbrance Reports (OER) and Brokers Price Opinion (BPO) for GWA facilities identified in grant deed and assignment letter; and

WHEREAS, completion of DCA's research work has identified a listing of 93 properties ready for field survey work that are not covered in the current contract due to the limits in contract value and as such GWA is working towards completing the next phase in survey real estate requirement map process as part of Land Survey Phase II project; and

WHEREAS, the survey real estate requirement maps required under Phase II will be properly documented and filed with DLM; and

WHEREAS, GWA has advertised the Request for Proposal (RFP-03-ENG-2017) soliciting a statement of qualification from experienced and qualified surveying firms to provide survey services to complete the severance map requirements as stated in the above noted Grant Deed and Assignment to GWA; and

WHEREAS, Request for Proposal (RFP) packages were downloaded by twenty (20) individual parties, from which GWA received proposal submittals from four (4) survey firms before the RFP submittal deadline; and

WHEREAS, the GWA A-E Selection Committee reviewed and evaluated the four (4) proposals (see EXHIBIT B-Evaluation Summary) and made a recommendation to award a contract to the firm Duenas Camacho and Associates ("DCA") and any successor at interest thereto (see EXHIBIT C- GM Determination); and

WHEREAS, DCA and GWA negotiated the scope and fee for the survey services to be provided in the fixed fee amount of One Million Forty Eight Thousand Six Hundred Fifty Seven Dollars and Seventy Seven Cents ($1,048,657.77) (see EXHIBIT D – Fee Proposal) for survey services related to the 93 properties ready for field survey work; and

WHEREAS, GWA Management seeks approval of the fee proposal amount of One Million Forty Eight Thousand Six Hundred Fifty Seven Dollars and Seventy Seven Cents ($1,048,657.77), plus a ten percent (10%) contingency of One Hundred Four Thousand Eight Hundred Sixty Five Dollars and Seventy-Seven Cents ($104,865.77), for a total amount of One Million One Hundred Fifty Three Thousand Five Hundred Twenty Three Dollars and Fifty Four Cents ($1,153,523.54); and

WHEREAS, funding for this project will be from GWA 2016 Bond Funds under CIP line Item MC 05-02; 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 fee proposal submitted by DCA are fair and reasonable.
3. The CCU finds that the terms and 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).
4. The CCU hereby authorizes the management of GWA to enter a contract with DCA in the amount of One Million Forty Eight Thousand Six Hundred Fifty Seven Dollars and Seventy Seven Cents ($1,048,657.77) (Exhibit D), plus a ten percent (10%) contingency of One Hundred Four Thousand Eight Hundred Sixty Five Dollars and Seventy Seven Cents ($104,865.77), to bring the total authorized funding amount to a maximum of One Million One Hundred Fifty Three Thousand Five Hundred Twenty Three Dollars and Fifty Four Cents ($1,153,523.54).
5. The CCU hereby further approves the funding source will be from GWA 2016 Bond Funds under CIP line Item MC 05-02.

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

DULY AND REGULARLY ADOPTED, this 6th day of June, 2017

Certified by:

JOSEPH T. DUENAS
Chairperson

Attested by:

J. GEORGE BAMBA
Secretary

//

//

//

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

///

///

///

///

///

///

///

Exhibit A

TERRITORY OF GUAM, DEPARTMENT OF LAND MANAGEMENT
OFFICE OF THE RECORDER
INSTRUMENT NUMBER 567559
This instrument was filed for record on the 23
Day of July 19 97, at 12:39 PM
and duly recorded in Book Page
Recorded OFFICIO
Deputy Recorder

RECORDATION)
FOR)
THE)
DEPARTMENT)
OF)
LAND)
MANAGEMENT)

(Space above this line for Recorder's use only)

GRANT DEED

RECEIVED
JUL 23 1997
ATTORNEY GENERAL'S OFFICE

TO ALL WHOM THESE PRESENTS MAY COME, GREETINGS:

It is declared in 10 G.C.A. Sections 45102, 46101, 47102, 52102, and 53012, and in Public Laws 22-47 and 22-28, that it is the policy of the Government of Guam that the public health and welfare mandates that the water resources of Guam shall be protected from environmental degradation and pollutants of any kind. As expressed in said statutes and laws, it is the duty of the Government of Guam to safeguard the conservation and development of Guam's limited water resources for all inhabitants of Guam. To this end, Public Law 20-06:7 provides that all surface waters and ground waters are public assets and that first priority for utilization of any waters shall be for the use or resale of the Guam Waterworks Authority.

In recognition and furtherance of its stated policies and duties, therefore, and pursuant to the authority of Guam Public Law 23-119 (12 G.C.A. Section 14115), Guam Public Law 22-18,

and the provisions of 10 G.C.A. Section 46101, 21 G.C.A. Section 1202, and 21 G.C.A. Sections 9202 and 9203, the Government of Guam on behalf of itself and the former line agency, the Public Utility Agency of Guam (hereinafter collectively "GRANTOR"), for TEN DOLLARS ($10.00) plus other good and valuable consideration, the receipt of which is hereby acknowledged, does hereby grant, transfer, assign, and convey to the Guam Waterworks Authority, a public corporation and autonomous instrumentality of the Government of Guam (hereinafter "GRANTEE"), in fee simple absolute, the real property interests for only that area required by the Grantee, the severance of which ("real estate requirement map(s)") shall be pursuant to the convenants expressed herein for the lots identified below:

1. **Lot 1361-1-B-R1, Agana**, Water Booster Pump Station, containing an area of ±2,221.2 square meters, as shown in Map/Instrument Number LM103FY81, Department of Land Management, Government of Guam;

2. **Lot 2062-PART-2, Agana**, Reservoir, containing an area of ±1.65 acres, as shown in Map/Instrument Drawing Number E4-61T541, Department of Land Management, Government of Guam;

//

3. **Agana Main Sewer Pump Station, Agana,** containing an area of ±7,439 square feet, adjacent to the Chamorro Village Compound, bounded to the south by Route 1, West Marine Drive and situated at the west corner entrance to Paseo de Susana, as referenced to in Map/Instrument Drawing Number E1-58T415, Department of Land Management, Government of Guam;

4. **Agana Sewage Treatment Plant Facilities and Access Road, Agana, (Artificial Island and Accretion),** containing an area of ±210,520 square feet, adjacent to the west of Agana Boat Basin, and bounded to the south by Route 1, West Marine Drive and elsewhere by the navigable tidal waters of Agana Bay;

5. **Lot 64-3, Agana Heights,** Deep Well A-32, containing an area of ±5,120.23 square meters, as shown in Instrument Number MA11092, Department of Land Management, Government of Guam;

6. **Lot 3465-1, Agana Springs,** Deep Well A-29, containing an area of ±65,943 square feet as shown in Map/Instrument Number LM216FY84, Document Number 354460, Department of Land Management, Government of Guam;

7. **BLK16, Lot 11-REM, Agat,** Water Booster Pump Station, containing an area of ±425,243 square feet as shown on Map/Instrument Drawing Number B4-69T345, Document Number 93567, Department of Land Management, Government of Guam;

//

//

8. **Lot 275, Agat,** Water Booster Pump Station and Reservoir, containing an area of ±341.03 hectares, as shown in Map/Instrument Number LM524FY91, Department of Land Management, Government of Guam;

9. **Lot 350-R4, Agat,** Water Storage Reservoir, containing an area of ±6,389,552 square feet, as shown in Map/Instrument Number LM117FY79, Document Number 299444, Department of Land Management, Government of Guam;

10. **Lot 439-R1, Agat,** Water Storage Reservoir, containing an area of ±116.25 hectares, as shown in Map/Instrument Drawing Number C4-68T523, Document Number 98442, Department of Land Management, Government of Guam;

11. **Lot 443-PART-1-R3, Agat,** containing an area of ±37,886.67 square meters, as shown in Drawing Number B4-62T267, Department of Land Management, Government of Guam;

12. **Lot 455, Agat,** Booster Pump Station (WBP-23), containing an area of ±30 acres, as shown in Map/Instrument Number LM670FY73, Department of Land Management, Government of Guam;

13. **Lot 470-1, Agat,** Water Storage Reservoir, containing an area of ±7,137 square meters, as shown in Map/Instrument Number LM117FY80, Department of Land Management, Government of Guam;

14. **Lot 473, Agat,** Water Storage Reservoir, containing an area of ±22.03 hectares, as shown in Map/Instrument Number LM099FY85, Document Number 358910, Department of Land Management, Government of Guam;

15. **Lot 477-1, Agat**, Water Storage Reservoir, containing an area of ±1,860 square meters, as shown in Map/Instrument Number LM555FY94, Department of Land Management, Government of Guam;

16. **Lot 401-21-G, Apra Heights**, Water Storage Reservoir, containing an area of ±1,616.5 square meters, as shown in Map/Instrument Number LM014FY79, Department of Land Management, Government of Guam;

17. **Lot 69, Asan**, Sewer Pump Station, containing an area of ±771 square feet as shown in Map/Instrument Number LM132FY76, Department of Land Management, Government of Guam;

18. **Lot 300-D, Asan**, Asan Springs & Water Booster Pump Station, containing an area of ±702.34 square meters, as shown in Map/Instrument Number LM300FY86, Department of Land Management, Government of Guam;

19. **Lot 407-1, Asan**, Asan Springs & Water Booster Pump Station, containing an area of ±1,043.39 square meters, as shown in Map/Instrument Number LM300FY86, Department of Land Management, Government of Guam;

20. **Lot 469-R1, Asan**, Water Storage Reservoir, containing an area of ±287,601 square meters, as shown in Map/Instrument Number LM269FY90, Department of Land Management, Government of Guam;

21. **Lot 495, Asan**, Reservoir, containing an area of ±257,829.41 square feet, as shown in Map/Instrument Drawing Number B4-57T166, Department of Land Management, Government of Guam;

22. **Lot 2285-2-R3, Asan**, Deep Well A-24, containing an area of ±8,382.46 square meters, as shown in Map/Instrument Number LM091FY83, Department of Land Management, Government of Guam;

23. **Blk F, Lot 16, Barrigada**, Water Storage Reservoir, containing an area of ±10,113.54 square meters, as shown in Map/Instrument Drawing Number E4-53T210, Department of Land Management, Government of Guam;

24. **Lot 14, Tract 109, Barrigada**, Deep Well A-16, containing an area of ±32,800 square meters as shown in Map/Instrument Drawing Number D4-64T205, Department of Land Management, Government of Guam;

25. **Lot 31-1A, Tract 1537, Barrigada**, Sewer Pump Station, containing an area of ±83.61 square meters as shown in Map/Instrument Number LM223FY82, Department of Land Management, Government of Guam;

26. **Lot 143-A, Tract 317, Barrigada**, Water Booster Pump Station (WBP-11), containing an area of ±111,521 square feet as shown in Map/Instrument Number LM145FY75, Document Number 256446, Department of Land Management, Government of Guam;

27. **Lot 1085-1-4, Barrigada**, Sewer Lift Station, containing an area of ±386 square meters, as shown in Map/Instrument Number LM096FY74, Document Number 255351 Department of Land Management, Government of Guam;

28. **Lot 2289-2, Barrigada**, Deep Well A-14, containing an area of ±9,721 square meters, as shown in Map/Instrument Number LM091FY83, Department of Land Management, Government of Guam;

29. **Lot 2322-1, Barrigada**, Deep Well A-21, containing an area of ±5,010 square meters, as shown in LM Sepia #PS Fldr 10/2A, Department of Land Management, Government of Guam;

30. **Lot 2323-2, Barrigada**, Sewer Pump Station, containing an area of ±89,898 square meters, as shown in LM Sepia #PS Fldr 10/2A, Department of Land Management, Government of Guam;

31. **Lot 2395-R5, Barrigada**, Deep Well A-18, Document Number 429029, containing an area of ±18,675 square meters as shown in Map/Instrument Number LM492FY89, Department of Land Management, Government of Guam;

32. **Lot 3319, Barrigada**, Deep Well A-19, containing an area of ±52,438.66 square meters as shown in Map/Instrument Drawing Number C4-57T376, Department of Land Management, Government of Guam;

33. **Lot 5380-1, Barrigada**, Water Booster Pump Station and Storage Reservoir, containing an area of ±7,167 square meters as shown in Map/Instrument Number LM100FY81, Department of Land Management, Government of Guam;

34. **Lot 5380-2, Barrigada**, Water Booster Pump Station and Storage Reservoir, containing an area of ±20,029 square meters as shown in Map/Instrument Number LM479FY92, Document Number 483929, Department of Land Management, Government of Guam;

35. **Lot 5387, Barrigada**, Deep Well A-15, containing an area of ±45,879.75 square meters as shown in Map/Instrument Drawing Number C4-59T417, Department of Land Management, Government of Guam;

36. **Lot 5401-Nor-1, Barrigada**, Sewer Pump Station #1, containing an area of ±232 square meters, as shown in Map/Instrument Number LM367FY89, Department of Land Management, Government of Guam;

37. **Lot 5401-Nor-2, Barrigada**, Sewer Pump Station #2, containing an area of ±232 square meters, as shown in Map/Instrument Number LM367FY89, Department of Land Management, Government of Guam;

38. **Lot 5402-R5-NEW-R2, Barrigada**, Deep Well M-01, M-02, M-03, and M-16, containing ±1,029,566 square meters as shown in Map/Instrument Number LM572FY93, Document Number 497897, Department of Land Management, Government of Guam;

39. **Lot 5419-3, Barrigada**, Water Storage Reservoir, containing an area of ±12,230 square meters, as shown in Map/Instrument Number LM139FY81, Document Number 322313, Department of Land Management, Government of Guam;

40. **Tract 317, Lot 9-A, Barrigada**, Sewer Pump Station, containing an area of ±24,483 square feet, as shown in Map/Instrument Number LM622FY73, Department of Land Management, Government of Guam;

41. **Tract 317, Lot 157A, Barrigada**, Sewer Pump Station, containing an area of ±47,628 square feet, as shown in Map/Instrument Number LM145FY75, Department of Land Management, Government of Guam;

42. **Tract 1447 (Ponding Basin "A"), Barrigada**, Sewer Pump Station, containing an area of ±19,847 square feet as shown in Map/Instrument Number LM420FY79, Department of Land Management, Government of Guam;

43. **Lot 3324-8-1, Chalan Pago,** Collector & Sewer Pump Station, containing an area of ±5,398 square meters as shown in Map/Instrument Number LM317FY86, Document Number 377895, Department of Land Management, Government of Guam;

44. **"Buffer Strip," Deep Well D-14, Dededo,** containing an area of ±1,010 square meters, as shown in Map/Instrument Drawing Number 91465, Department of Land Management, Government of Guam;

45. **Tract "H," Dededo,** Sewer Pump Station and Deep Well F-07, containing an area of ±10 acres, as shown in Map/Instrument Drawing Number E2-60T527, Department of Land Management, Government of Guam;

46. **Tract 100, Parcel B, Unit 1-A, Dededo,** Deep Well M-12, containing an area of ±71,668 square feet, as shown in Map/Instrument Number LM018FY71, Department of Land Management, Government of Guam;

47. **Tract 100, Parcel B, Unit 2-A, Dededo,** Deep Well M-14, containing an area of ±104,895 square feet, as shown in Map/Instrument Number LM066FY71, Department of Land Management, Government of Guam;

48. **Tract 170 (Part), Dededo,** Deep Well D-16, containing an area of ±57,025 square meters, as shown in Map/Instrument Number LM016FY80, Department of Land Management, Government of Guam;

49. **Tract 170REM-2-R2, Dededo,** Deep Well D-17, containing an area of ±28,534 square meters, as shown in Map/Instrument Number LM074FY82, Department of Land Management, Government of Guam;

50. **Tract 170REM-2-2, Dededo**, Deep Well D-18, containing an area of ±216.12 square meters, as shown in Map/Instrument Number LM074FY82, Department of Land Management, Government of Guam;

51. **Tract 240, Blk. 5, Dededo**, Deep Well F-05, containing an area of ±27,443 square meters, as shown in Map/Instrument Number LM377FY92, Document Number 482808, Department of Land Management, Government of Guam;

52. **Tract 240, Blk. 7, Lot 29, Dededo**, Sewer Lift Station, containing an area of ±3,081 square meters, as shown in Map/Instrument Number LM377FY92, Document Number 482808, Department of Land Management, Government of Guam;

53. **Tract 240, Blk. 25, Lot 31, Dededo**, Sewer Lift Station, containing an area of ±2,489 square meters, as shown in Map/Instrument Number LM377FY92, Document Number 482808, Department of Land Management, Government of Guam;

54. **Tract 240, Block 2, Lot 15, Dededo**, Deep Well F-06, containing an area of ±772 square meters, as shown in Map/Instrument Number LM377FY92, Document Number 482808, Department of Land Management, Government of Guam;

55. **Tract 1314, Blk. 17, Dededo**, Sewer Pump Station, containing an area of ±352 square meters, as shown in Map/Instrument Number LM271FY87, Document Number 441188, Department of Land Management, Government of Guam;

//

56. **Tract 198, Chaot,** Water Storage Reservoir, containing an area of ±1 acre, as shown in Map/Instrument Number LM131FY73, Document Number 116969, Department of Land Management, Government of Guam;

57. **Tract 14114, Lot 152, Dededo,** Water Storage Reservoir, containing an area of ±4,035 square meters, as shown in Map/Instrument Number LM127FY89, Department of Land Management, Government of Guam;

58. **Tract 14114, Lot 154, Dededo,** Sewer Pump Station, containing an area of ±249.12 square meters, as shown in Map/Instrument Number LM127FY89, Department of Land Management, Government of Guam;

59. **Lot 4-NEW-R/W, Tract 314, Dededo,** Sewer Pump Station, containing an area of ±81,052 square feet as shown in Map/Instrument Number LM008FY90, Department of Land Management, Government of Guam;

60. **Lot 4-NEW-9B, Blk. 2, Tract 314, Dededo,** Stop Lift Station, containing an area of ±144 square feet, as shown in Map/Instrument Number LM008FY90, Department of Land Management, Government of Guam;

61. **Lot 4-NEW-12B, Blk. 1, Tract 314, Dededo,** Stop Lift Station, containing an area of ±144 square feet, as shown in Map/Instrument Number LM008FY90, Department of Land Management, Government of Guam;

//

62. **Lot 4-NEW-18P, Blk. 1, Tract 314, Dededo**, Ponding Basin, containing an area of ±13,960 square feet as shown in Map/Instrument Number LM008FY90, Department of Land Management, Government of Guam;

63. **Lot 19, Block 2, Tract 1034, Dededo**, Deep Well GHURA 501, containing an area of ±137,844 square feet, as shown in Map/Instrument Number LM375FY78, Department of Land Management, Government of Guam;

64. **Lot 105, Tract 276, Dededo (Ypaopao)**, Sewer Pump Station, containing an area of ±485 square meters as shown in Map/Instrument Number LM192FY74, Document Number 230751, Department of Land Management, Government of Guam;

65. **Lot 2122#1REM-3-1, Dededo**, Sewer Lift Station, containing an area of ±141.15 square meters, as shown in Map/Instrument Number LM315FY89, Document Number 419971, Department of Land Management, Government of Guam;

66. **Lot 5024-1-1, Dededo**, Sewer Pump Station, containing an area of ±1,544.99 square meters, as shown in Map/Instrument Number LM144FY89, Document Number 422432, Department of Land Management, Government of Guam;

67. **Lot 5075REM-3-1, Dededo**, Water Storage Reservoir, containing an area of ±16,972 square feet, as shown in Map/Instrument Number LM149FY80, Document Number 311820, Department of Land Management, Government of Guam;

//

68. **Lot 5115-1-3-R1, Dededo**, Sewer Pump Station containing an area of ±27,155 square feet as shown in Map/Instrument Number LM283FY89, Document Number 420168, Department of Land Management, Government of Guam;

69. **Lot 5120-5NEW-R3NEW/5120-R5, Dededo**, GWA Main Office, containing an area of ±85,518 square meters, as shown in Map/Instrument Number LM055FY79, Document Numbers 296442 and 273769, Department of Land Management, Government of Guam;

70. **Lot 5133-1-R2, Dededo**, Deep Well, containing an area of ±12,734 square meters, as shown in Map/Instrument Number LM258FY89, Department of Land Management, Government of Guam;

71. **Lot 5139-1-R4, Dededo**, Sewer Pump Station, containing an area of ±5,484 square meters, as shown in Map/Instrument Number LM295FY79, Document Number 305722, Department of Land Management, Government of Guam; MAMAJAVO

72. **Lot 5174-C-R3, Dededo**, Sewer Pump Station containing an area of ±112,670 square meters, as shown in Map/Instrument Number LM356FY88, Document Number 401446, Department of Land Management, Government of Guam;

73. **Lot 10114-New-1, Dededo**, Deep Well D-15, containing an area of ±6.78 hectares as shown in Map/Instrument Number LM002FY95, Department of Land Management, Government of Guam;

//

74. **Lot 10119-12, Dededo**, Deep Well Y-04A, containing an area of ±140,982 square meters, as shown in Map/Instrument Number LM 303FY93, Department of Land Management, Government of Guam;

75. **Lot 10120-3, Dededo**, Deep Well, containing an area of ±1 acre, as shown in Map/Instrument Number LM043FY89, Document Number 412425, Department of Land Management, Government of Guam;

76. **Lot 10120-7, Dededo**, Deep Well, containing an area of ±199,280 square meters, as shown in LM Sketch Number 1544, Department of Land Management, Government of Guam;

77. **Lot 10122-12, Dededo**, Deep Well D-09 and Water Storage Reservoir, containing an area of ±829,124 square meters, as shown in Map/Instrument Number LM184FY88, Document Number 397895, Department of Land Management, Government of Guam;

78. **Lot 10122-13-2, Dededo**, Water Storage Reservoir, containing an area of ±26,891 square meters as shown in Map/Instrument Number LM144FY93, Document Number 494170, Department of Land Management, Government of Guam;

79. **Lot 10122-13-R2, Dededo**, containing an area of ±26,009 square meters as shown in Map/Instrument Number LM144FY93, Document Number 494170, Department of Land Management, Government of Guam;

80. **Lot 10125-2, Dededo**, Deep Well, containing an area of ±5 acres, as shown in Map/Instrument Number LM391FY85, Document Number 393756, Department of Land Management, Government of Guam;

81. **Lot 10125-11-R1, Dededo**, Deep Well D-19, containing an area of ±1,220,078 square meters as shown in Map/Instrument Number LM022FY94, Department of Land Management, Government of Guam;

82. **Lot 10129-R2, Dededo**, Deep Well F-01, containing an area of ±52,816 square meters as shown in Map/Instrument Number LM273FY89, Document Number 421326, Department of Land Management, Government of Guam;

83. **Lot 10133-R2, Dededo**, Deep Well D-22 and F-14, containing an area of ±1,023,013 square meters as shown in Map/Instrument Number LM142FY81, Document Number 323946, Department of Land Management, Government of Guam;

84. **Lot 10133-R6NEW, Dededo**, Water Storage Reservoir, containing an area of ±3,306,550 square meters as shown in Map/Instrument Number LM089FY87, Document Number 383837, Department of Land Management, Government of Guam;

85. **Lot 10140-1, Dededo**, Deep Well, containing an area of ±14,328 square meters, as shown in Map/Instrument Number LM249FY86, Document Number 378726, Department of Land Management, Government of Guam;

86. **Lot 10154-R5, Dededo**, Deep Well AG-03/HGC-2, containing an area of ±216,721 square meters, as shown in Map/Instrument Number 176FY86, Document Number 538914-0001, Department of Land Management, Government of Guam;

//

87. **Lot 10141-R4, Dededo**, Deep Well F-09, containing an area of ±280,262 square meters, as shown in Map/Instrument Number LM163FY86, Document Number 378729, Department of Land Management, Government of Guam;

88. **Tract 14113, Lot 12, Blk. 2, Dededo**, Sewer Pump Station, containing an area of ±143.4 square meters, as shown in Map/Instrument Number LM213FY85, Department of Land Management, Government of Guam;

89. **Lot 5166-1-R7-1, Harmon**, Sewer Pump Station, containing an area of ±1,512 square feet, as shown in Map/Instrument Number LM184FY87, Document Number 391924, Department of Land Management, Government of Guam;

90. **Parcel A, Inarajan**, Water Booster Pump Station, containing an area of ±446 square meters as shown in Map/Instrument Number LM081FY76, Document Number 264616, Department of Land Management, Government of Guam;

91. **Parcel 2, Inarajan**, Pump Station and Water Treatment Plant, containing an area of ±2,376 square meters, as shown in Map/Instrument Number LM420FY89, Department of Land Management, Government of Guam;

92. **Lot 1, Inarajan**, Sewer Pump Station, containing an area of ±4,631 square meters, as shown in Map/Instrument Number LM354FY90, Document Number 440777, Department of Land Management, Government of Guam;

//

//

93. **Lot 112-1, Blk. 12, Inarajan**, Sewer Lift Station, containing an area of ±257 square meters, as shown in Map/Instrument Number LM098FY85, Document Number 367991, Department of Land Management, Government of Guam;

94. **Lot 116-1-1, Inarajan**, Main Sewer Pump Station, containing an area of ±556 square meters, as shown in Map/Instrument Number LM244FY84, Department of Land Management, Government of Guam;

95. **Lot 203-3, Inarajan**, Water Booster Pump Station, containing an area of ±111.48 square meters, as shown in Map/Instrument Number LM515FY73, Department of Land Management, Government of Guam;

96. **Lot 360-2-R2, Inarajan**, Water Storage Reservoir, containing an area of ±4,513 square meters, as shown in Map/Instrument Number LM145FY96, Document Number 544009, Department of Land Management, Government of Guam;

97. **Lot 361-4G, Inarajan**, Water Booster Pump Station (WBP-12), containing an area of ±269 square meters as shown in Map/Instrument Number LM065FY87, Document Number 391106, Department of Land Management, Government of Guam;

98. **Lot 368, Inarajan**, Sewage Treatment Plant, containing an area of ±36,000 square meters, as shown in Map/Instrument Number LM307FY86, Document Number 375041, Department of Land Management, Government of Guam;

//

//

99. **Tract 212, Lot 9-R7, Blk. 1, Inarajan,** Deep Well MJ-01, containing an area of ±342,903 square feet, as shown in Map/Instrument Number LM064FY83, Department of Land Management, Government of Guam;

100. **Lot 3339-6-1G, Mangilao,** Sewer Pump Station, containing an area of ±1,759 square meters as shown in Map/Instrument Number LM009FY82, Document Number 325978, Department of Land Management, Government of Guam;

101. **Lot 5423-R7, Mangilao,** Deep Well A-09, containing an area of ±74,301 square meters as shown in Map/Instrument Number LM035FY81, Document Number 322769, Department of Land Management, Government of Guam;

102. **Lot 100, Merizo,** Sewer Pump Station, containing an area of ±35 square meters, as shown in Document Number 295710, Department of Land Management, Government of Guam;

103. **Lot 107-1-5-1, Merizo,** Sewer Pump Station, containing an area of ±130 square meters, Document Number 295710, Department of Land Management, Government of Guam;

104. **Lot 138-R2, Merizo,** Sewer Pump Station, containing an area of ±41 square meters, as shown in Map/Instrument Number LM034FY71, and Document Numbers 295710 and 97877, Department of Land Management, Government of Guam;

105. **Lot 151-2-2-1G, Merizo,** Sewer Pump Station, containing an area of ±263.02 square meters, as shown in Map/Instrument Number LM181FY78, Department of Land Management, Government of Guam;

106. **Lot 152-1G, Merizo**, Dam River Diversion, containing an area of ±1,439 square meters, as shown in Map/Instrument Number LM247FY78, Document Number 295710, Department of Land Management, Government of Guam;

107. **Lot 246G-R1, Merizo**, Sewer Pump Station, containing an area of ±564 square meters, as shown in Map/Instrument Drawing Number I4-82T188, Document Number 334837, Department of Land Management, Government of Guam;

108. **Lot 265-3, Merizo**, Sewer Pump Station, containing an area of ±74 square meters, as shown in Document Number 295710, Department of Land Management, Government of Guam;

109. **Lot 268, Merizo**, Sewer Pump Station, containing an area of ±45 square meters, as shown in Document Number 295710, Department of Land Management, Government of Guam;

110. **Lot 272-6G, Merizo**, Sewer Pump Station, containing an area of ±391 square meters, as shown in Map/Instrument Number LM333FY82, Document Number 331406, Department of Land Management, Government of Guam;

111. **Lot 290-1G, Merizo**, Sewer Pump Station, containing an area of ±589 square meters, as shown in Map/Instrument Number LM359FY82, Department of Land Management, Government of Guam;

112. **Lot 347, Merizo**, Dosing Siphon, containing an area of ±48 square meters, Document Number 295710, Department of Land Management, Government of Guam;

113. **Lot 424-1G, Merizo**, Water Booster Pump Station (WBP-14), containing an area of ±462 square meters as shown in Map/Instrument Number LM051FY76, Department of Land Management, Government of Guam;

114. **Lot 505-7, Merizo**, Water Booster Pump Station, containing an area of ±15,644.43 square meters, as shown in Map/Instrument Number LM052FY80, Department of Land Management, Government of Guam;

115. **Lot 505-11-NEW, Merizo**, Water Booster Pump Station and Reservoir, containing an area of ±26.3 hectares, as shown in Map/Instrument Number LM370FY90, Department of Land Management, Government of Guam;

116. **Lot 505-R11, Merizo**, Water Storage Reservoir, containing an area of ±141,631 square meters as shown in Map/Instrument Drawing Number LM370FY90, Document Number 445747, Department of Land Management, Government of Guam;

117. **Lot 516, Merizo**, Water Booster Pump Station, containing an area of ±19.27 hectares, as shown in Map/Instrument Number LM161FY91, Department of Land Management, Government of Guam;

118. **Lot 523, Merizo**, Water Dam, containing an area of ±335.37 hectares, as shown in Map/Instrument Number LM329FY90, Document Number 539034, Department of Land Management, Government of Guam;

//

//

119. **Lot 525, Merizo**, Water Booster Pump Station #15 and Reservoir, containing an area of ±41 hectares, as shown in Map/Instrument Number LM420FY90, Department of Land Management, Government of Guam;

120. **Umatac/Merizo Sewer Pump Station, Merizo**, containing an area of ±712,500 square feet, adjacent to the Umatac/Merizo Sewage Treatment Plant Compound, as referenced to in Map/Instrument Drawing Number LM247FY78, Department of Land Management, Government of Guam;

121. **Lot 1150-3-R1, Mongmong**, Sewer Pump/Lift Station, containing an area of ±37 square meters, as shown in Map/Instrument Number LM439FY88, Document Number 406200, Department of Land Management, Government of Guam;

122. **Lot 3269-R4, Ordot-Chalan Pago**, Deep Well A-12, containing an area of ±265,503 square feet, as shown in Map/Instrument Number LM029FY70, Department of Land Management, Government of Guam;

123. **Lot 3395-R1, Ordot-Chalan Pago**, Deep Well A-11, containing an area of ±82,014 square meters, as shown in Map/Instrument Number LM410FY89, Document Number 429480, Department of Land Management, Government of Guam;

124. **Lot 3396, Ordot**, Sewer Pump Station, containing an area of ±12 acres, as shown in Map/Instrument Drawing Number B4-68T343, Department of Land Management, Government of Guam;

//

//

125. **Lot 3471, Ordot-Chalan Pago**, Sewer Pump Station, containing an area of ±0.69 acres, as shown in Map/Instrument Number LM498FY92, Document Number 482397, Department of Land Management, Government of Guam;

126. **Pre-War Old Agana-Piti Road, Piti**, Sewer Pump Station, containing an area of ±1,515 square meters as shown in Map/Instrument Number LM150FY94, Document Number 522731, Department of Land Management, Government of Guam;

127 **Parcel 1, Piti**, Sewer Lift Station, containing an area of ±13 hectares, as shown in Map/Instrument Number LME4-665638, Document Number 91523, Department of Land Management, Government of Guam;

128. **Parcel 2, Piti**, Commercial Port Sewage Treatment Plant, containing an area of ±10.94 acres as shown in Map/Instrument Number LM134FY82, Document Number 338680, Department of Land Management, Government of Guam;

129. **Lot 258, Piti**, containing an area of ±2 acres, as shown in Instrument Number 23697, Department of Land Management, Government of Guam;

130. **Tract 1925-A, Lot 1-G, Sinajana**, Sewer Pump Station, containing an area of ±35 square meters, as shown in Map/Instrument Number LM049FY92, Department of Land Management, Government of Guam;

131. **Lot P19, 5-3-1, Sinajana**, Deep Well A-05, containing an area of ±865.01 square meters as shown in Map/Instrument Number LM459FY73, Department of Land Management, Government of Guam;

132. **Lot P19, 5-3(REM), Sinajana**, Deep Well A-06, containing an area of ±865 square meters as shown in LM Sketch Number 1227, Department of Land Management, Government of Guam;

133. **Lot 28-REM, Sinajana**, Water Storage Reservoir, containing an area of ±2,797.13 square meters as shown in Map/Instrument Drawing Number D4-60T251, Department of Land Management, Government of Guam;

134. **Lot L17, Tract 310, Sinajana**, Sewage Treatment Plant, containing an area of ±744,880 square feet as shown in Map/Instrument Number LM855FY72, Department of Land Management, Government of Guam; PAGO BAY ESTATE

135. **Lot L70, Tract 232, Block 10, Sinajana,** Sewer Lift Station, containing an area of ±125,359 square feet as shown in Map/Instrument Number LM071FY74, Department of Land Management, Government of Guam;

136. **Lot 2404-7, Sinajana**, containing an area of ±1,814 square meters as shown in Map/Instrument Drawing 256445, Department of Land Management, Government of Guam;

137. **Lot 2417-1-6, Sinajana**, Deep Well A-17, containing an area of ±190,905 square feet, as shown in Map/Instrument Sketch Number 1118, Department of Land Management, Government of Guam;

138. **Lot 3262-1A-1, S**[redacted]ion, containing an are[redacted]eet, as shown in [redacted]mber LM477FY73, Docu[redacted]995, Department of Lan[redacted]ment of Guam;

139. **Lot 3323-1, Sinajana**, Deep Well, containing an area of ±2,980 square meters, as shown in Map/Instrument Number LM435FY90, Document Number 446110, Department of Land Management, Government of Guam;

140. **Lot 3339-5-1G, Sinajana**, Deep Well A-13 containing an area of ±7,425.48 square feet as shown in Map/Instrument Drawing Number D4-71S231, Department of Land Management, Government of Guam;

141. **Lot 3375-1, Sinajana**, Deep Well A-04, containing an area of ±445 square meters as shown in Map/Instrument Drawing Number C4-66T496, Department of Land Management, Government of Guam;

142. **Lot 3376-1, Sinajana**, Deep Well A-04, containing an area of ±484 square meters as shown in Map/Instrument Drawing Number C4-66T541A, Department of Land Management, Government of Guam;

143. **Lot 3396, Sinajana**, Deep Well A-20 and Sewer Pump Station, containing an area of ±12 acres, as shown in Map/Instrument Drawing Number B4-68T343, Department of Land Management, Government of Guam;

144. **Lot 3420, Sinajana**, Sewage Treatment Plant, containing an area of ±24,987.33 square meters, as shown in Map/Instrument Drawing Number #C4-72T541A, Document Number 237392, Department of Land Management, Government of Guam;

145. **Lot 3458, Sinajana**, Deep Well, containing an area of ±37,900 square meters, as shown in Map/Instrument Number LM149FY78, Department of Land Management, Government of Guam;

146. **Lot 3463, Sinajana**, Water Storage Reservoir, containing an area of ±157,134 square meters, as shown in Map/Instrument Number LM387FY91, Department of Land Management, Government of Guam;

147. **Lot 1, Block 15, Tract 2831, Talofofo**, Water Storage Reservoir, containing an area of ±28,017 square meters, as shown in Map/Instrument Number LM068FY91, Department of Land Management, Government of Guam;

148. **Lot 50A-6, Talofofo**, Water Storage Reservoir, containing an area of ±122,204 square feet, as shown in Map/Instrument Number LM250FY81, Document Number 321801, Department of Land Management, Government of Guam;

149. **Lot 295-43, Talofofo**, Water Storage Reservoir and Treatment Plant, containing an area of ±5,919 square meters, as shown in Map/Instrument Number LM420FY89, Department of Land Management, Government of Guam;

150. **Lot 5182 (part), Tamuning**, Water Storage Reservoir, containing an area of ±6.4 acres, as shown in Map/Instrument Number LM114FY77, Department of Land Management, Government of Guam; SEPIA No. I-037

151. **Deep Well, Tiyan-NAS**, adjacent to the north of Guam Main U.S. Post Office Facility, measuring ±900 feet east to west and ±600 feet north to south (±40,470 square meters), and bounded to the west by Fury Road and to the east by Security Road/Route 16;

//

//

152. **Galley and General Mess Hall, Building 13-8A, Tiyan-NAS**, bounded to the northwest by Mariner Avenue, to the southwest by Corsair Road, to the southeast by Seagull Avenue, and to the northeast by Fury Road;

153. **Parcel 1-R/W, Umatac**, Water Storage Reservoir, containing an area of ±34,529 square meters as shown in Map/Instrument Number LM312FY87, Department of Land Management, Government of Guam;

154. **Tract 3241, Blk. 12, Lot 1G, Umatac**, Water Boost Pump Station (WBP-1), containing an area of ±439 square meters, as shown in Map/Instrument Number LM700FY93, Department of Land Management, Government of Guam;

155. **Lot 53-1, Umatac**, Water Storage Reservoir, containing an area of ±1 acre, as shown in Map/Instrument Number LM315FY91, Department of Land Management, Government of Guam;

156. **Lot 152-1G, Umatac**, containing an area of ±1,439 square meters, as shown in Document Number 295710, Department of Land Management, Government of Guam;

157. **Lot 153, Umatac**, Sewer Pump Station, containing an area of ±5,187 square meters as shown in Map/Instrument Number LM247FY78, Department of Land Management, Government of Guam;

158. **Lot 182-1, Umatac**, Sewer Pump Station, containing an area of ±30 square meters, as shown in Document Number 295710, Department of Land Management, Government of Guam;

//

159. **Lot 253-R2, Umatac**, Water Storage Reservoir, containing an area of ±14.84 acres, as shown in Map/Instrument Number LM191FY79, Department of Land Management, Government of Guam;

160. **Lot 257-R1, Tract 3241, Umatac**, Water Storage Reservoir, containing an area of ±3,232 square meters, as shown in Map/Instrument Number LM700FY93, Department of Land Management, Government of Guam;

161. **Lot 258, Umatac**, Sewage Treatment Plant & Lagoon, containing an area of ±36,154 square meters as shown in Map/Instrument Number LM247FY78, Department of Land Management, Government of Guam;

162. **Lot 260G, Umatac**, Sewer Pump Station, containing an area of ±348 square meters, as shown in Map/Instrument Number LM180FY78, Department of Land Management, Government of Guam;

163. **Parcel 7A, United States Naval Station**, New Agat/Santa Rita Sewage Treatment Plant, containing an area of ±17.95 hectares, as shown in Map Reference Number Apra Harbor Reservation Area "F," SA Control No. 9-N-GU-420, Real Estate Facilities Management, Commander Naval Forces Marianas;

164. **Deep Well AG-01, Yigo, USAF Property**, containing an area of ±4,900 square feet, as shown in Air Force Drawing Tab No. G-1, Exhibit "A,", License Number N6286593RP00006, 336 Civil Engineering Squadron, Real Property Section, AAFB, Guam;

//

165. **Tract 299, Blk. 5, Lot 1, Yigo**, Water Storage Reservoir, containing an area of ±3,435 square meters, as shown in Map/Instrument Number LM720FY72, Department of Land Management, Government of Guam;

166. **Lot 7001-1, Yigo**, Deep Well, containing an area of ±860.78 square meters as shown in Map/Instrument Drawing Number C4-66T477, Department of Land Management, Government of Guam;

167. **Lot 7003-1, Yigo**, Deep Well, containing an area of ±50,034 square meters, as shown in Map/Instrument Drawing Number C4-66T477, Department of Land Management, Government of Guam;

168. **Lot 7003-2, Yigo**, Deep Well, containing an area of ±2,276.32 square meters as shown in Map/Instrument Drawing Number C4-66T477, Department of Land Management, Government of Guam;

169. **Lot 7004-6, Yigo**, Deep Well, containing an area of ±50,034 square meters, as shown in Map/Instrument Drawing Number C4-66T477, Department of Land Management, Government of Guam;

170. **Lot 7004-6-1, Yigo**, Deep Well Y-03, containing an area of ±1,579.37 square meters, as shown in Map/Instrument Drawing Number LMD4-72T234, Document Number 273760, Department of Land Management, Government of Guam;

171. **Lot 7019-3, Yigo**, Deep Well Y-01, containing an area of ±929.03 square meters, as shown in LM Sketch Number 973, Department of Land Management, Government of Guam;

172. **Lot 7022-2, Yigo**, Deep Well Y-05, containing an area of ±113,688 square meters, as shown in Map/Instrument Number LM547FY72, Department of Land Management, Government of Guam;

173. **Lot 7024-4-1G, Yigo**, Sewer Pump Station, containing an area of ±390 square meters as shown in Map/Instrument Number LM367FY80, Document Number 318603, Department of Land Management, Government of Guam;

174. **Lot 7037-1-R1-3-R1, Yigo**, Booster Pump Station (WBP-9), containing an area of ±1,556 square feet, as shown in Map/Instrument Number LM535FY75, Department of Land Management, Government of Guam;

175. **Lot 7116-1-1, Yigo,** Deep Well, containing an area of ±2,270 square meters, as shown in Map/Instrument Number LM277FY84, Document Number 357633, Department of Land Management, Government of Guam;

176. **Lot 7116-5, Yigo**, Deep Well, containing an area of ±232 square meters, as shown in Map/Instrument Number LM266FY89, Document Number 428181, Department of Land Management, Government of Guam;

177. **Lot 7117-3-R1, Yigo**, Water Storage Reservoir, containing an area of ±11,639 square meters as shown in Map/Instrument Number LM161FY80, Department of Land Management, Government of Guam;

178. **Lot 7117-3-1, Yigo**, Water Storage Reservoir, containing an area of ±9,852 square meters, as shown in Map/Instrument Number LM161FY80, Department of Land Management, Government of Guam;

179. **Lot 7117-7, Yigo**, Water Booster Pump Station, containing an area of ±5,025 square meters as shown in Map/Instrument Drawing Number LM070FY72, Department of Land Management, Government of Guam;

180. **Lot 7165, Yigo**, Maui Well, containing an area of ±7.16 acres, as shown in Map/Instrument Number LM040FY95, Document Number 523133, Department of Land Management, Government of Guam;

181. **Lot 10119-R15, Yigo**, Deep Well Y-04, containing an area of ±255,544 square meters as shown in Map/Instrument Number LM303FY93, Department of Land Management, Government of Guam;

182. **Lot 10154-5, Yigo**, Deep Well AG-04, containing an area of ±371,689 square meters as shown in Map/Instrument Number LM176FY86, Department of Land Management, Government of Guam;

183. **Lot 10154-2, Yigo**, Deep Well AG-02, containing an area of ±3,716 square meters, as shown in Map/Instrument Number LM176FY86, Department of Land Management, Government of Guam;

184. **Tract 1018, Blk. 3, Lot 6, Yigo**, Sewer Pump Station, containing an area of ±306 square meters, as shown in Map/Instrument Number LM314FY91, Document Number 508467, Department of Land Management, Government of Guam;

185. **Tract 1046, Lot 190, Block 3, Yigo**, Deep Well Y-06, containing an area of ±30,860 square feet, as shown in Map/Instrument Number LM161FY79, Department of Land Management, Government of Guam;

186. **Tract 268, Blk. 1, Yona**, Sewer Pump Station, containing an area of ±148,065 square feet, as shown in Map/Instrument Number LM721FY72, Department of Land Management, Government of Guam;

187. **Tract 2913, Lot 95-2A-NEW-R2, Yona**, Sewer Pump Station, containing an area of ±118,265 square meters, as shown in Map/Instrument Number LM172FY85, Department of Land Management, Government of Guam;

188. **Lot 71G, Yona,** Sewage Treatment Plant, containing an area of ±112,798 square feet as shown in Map/Instrument Number LM623FY74, Document Number 238869, Department of Land Management, Government of Guam;

189. **Lot 72G, Yona,** Sewage Treatment Plant, containing an area of ±72,975 square feet as shown in Map/Instrument Number LM623FY74, Document Number 238869, Department of Land Management, Government of Guam;

190. **Lot 90-8-1, Yona**, Water Storage Reservoir, containing an area of ±1,752.74 square meters, as shown in Map/Instrument Drawing Number C7-66T476, Document Number 75978, Department of Land Management, Government of Guam;

191. **Lot 117, Yona**, Water Booster Pump Station, containing an area of ±50,583 square meters, as shown in Map/Instrument Drawing Number E4-71T678, Department of Land Management, Government of Guam;

192. **Lot 163-New-1G, Yona**, Booster Pump Station (WBP-18), containing an area of ±229 square meters, as shown in Map/Instrument Number LM007FY83, Document Number 342855,

Department of Land Management, Government of Guam;

193. **Lot 180-4-1G, Yona**, Water Storage Reservoir, containing an area of ±4,682.99 square meters as shown in Map/Instrument Number LM263FY81, Document Number 323371, Department of Land Management, Government of Guam;

194. **Lot 400-1-R1, Yona**, Water Storage Reservoir, containing an area of ±1,942,391 square meters, as shown in Map/Instrument Number LM340FY89, Document Number 433880, Department of Land Management, Government of Guam;

195. **Easement, Northern District Sewage Treatment Plant, Harmon, USAF Grant of Easement**, as shown in Map/Instrument Drawing Numbers 312261 and 312262, License Number N6274280RP00019, 336 Civil Engineering Squadron, Real Property Section, AAFB Guam;

196. **Portion of the Waterline Installed at the Start of Taragüe Beach**, behind Oscar's Beach Bar up to the area next to Taragüe Cave or the beginning of the Government of Guam property where the water meter is installed, Jinapsan Private Beach, Lot No. 9994;

197. **Maite Ejector Sewer Lift Station, Barrigada**, located on Lot Number 2053A-3-5A-R2 (private), said lot which contains an area of ±1,392 square meters as shown in Map/Instrument Number LM471FY70, Department of Land Management, Government of Guam;

//

//

198. **Deep Well A-02, Sinajana,** located on Lot Number 3232-NEW-R8 (private), said lot which contains an area of ±17,822.66 square meters as shown in Document Number 77715, Department of Land Management, Government of Guam;

199. **Deep Well A-07, Sinajana,** located on Lot Number 3232-N-2 (private), said lot which contains an area of ±18,704.20 square meters as shown in Document Number 77715, Department of Land Management, Government of Guam;

200. **Deep Well A-08, Sinajana,** located on Lot Number 3255-5-4 (private), said lot which contains an area of ±929 square meters as shown in Map/Instrument Number LM334FY80, Document Number 96622, Department of Land Management, Government of Guam;

201. **Flora Pago Gardens Sewer Lift Station, Sinajana,** located on Lot Number 3235-2-4NEW-R2 (private), said lot which contains an area of ±25,783 square meters as shown in Map/Instrument Number LM175FY90, Department of Land Management, Government of Guam;

202. **Toto Gardens Sewer Lift Station, Sinajana,** located on Lot Number 145-3 (private), said lot which contains an area of ±2,800 square meters as shown in Map/Instrument Number LM308FY69, Department of Land Management, Government of Guam;

203. **Alupang Sewer Pump Station, Tamuning,** located on Lot Number 5172-3-R9NEW-NEW-R2 (private), said lot which contains an area of ±1,200 square feet as shown in Map/Instrument Number LM236FY94, Department of Land Management, Government of Guam;

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

204. **Brigade (BB3) Water Booster Pump Station, Yona**, located on Lot Number 90-3-R1 (private), said lot which contains an area of ±411,837 square meters as shown in Map/Instrument Number LM324FY77, Department of Land Management, Government of Guam;

205. **Manengon Hills Water Storage Reservoir & Pump Station, Yona**, located on Lot Number Phase 2, Tract 2511 (private), said lot which contains an area of ±4,256,731 square meters, as shown in Map/Instrument Number LM323FY96, Department of Land Management, Government of Guam.

TOGETHER with all and singular any improvements, riparian rights, littoral rights, watercourses, waters, water resources, streams, rivers, ponds, lakes, wells, pumps, stations, easements, water and sewer rights-of-ways, buildings, facilities, fixtures, tenements, privileges, hereditaments, appurtenances, reversions, remainders, rents, issues and profits thereof and therein, and all the estate, rights, title, interest, property, claim and demand of said Grantor, its successors and assigns, at law or in equity, in and to the same forever, subject to the laws of the Territory of Guam.

//

//

//

Additionally, Grantor does also grant, transfer, convey, and assign to Grantee, its successors, and assigns, all the estate, rights, title, interest, powers, property, claim and demand of Grantor, its successors and assigns, in the following property and interests, to hold the same in fee simple absolute forever, subject to the laws of the Territory of Guam:

> **Easements.** All known and identified public rights-of-ways and public easements of access, ingress, egress, maintenance, and repair, in and over the Territory of Guam, surface or subsurface, used or unused, together with all land connecting and running with any water or sewer systems, surface or subsurface, wherever situated. Said public rights-of-ways and public easements shall run with the land and the dominant estates thereof, and shall bind and inure to the benefit of the Grantee, its successors, and assigns in fee simple absolute forever.
>
> **Water Resources.** All waters, water or sewer resources, groundwaters, watercourses, streams, rivers, ponds, lakes, wells, aquifers, and water lenses of the Territory of Guam, surface and subsurface, tidal and non-tidal, navigable and non-navigable, inland and upland, together with any riparian rights, littoral rights, aquifer sectors, aquifer systems, water and aquifer management zones, tidelands, shorezones, accretions, alluvions, and surface or submerged lands and beds below or abutting, including to the low-water and high-water marks thereof, of any nature whatsoever and wherever situated, with any leases, options, improvements, buildings, facilities, easements, or rights-of-ways thereon, and any rights of reservation, intending said rights, powers and interests to be superior above all others, to bind and inure to the benefit of the Grantee, its successors, and assigns in fee simple absolute forever.

Northern Guam Lenses and Aquifers, Agana Sector, Fadian Sector, Mangilao Sector, Pati Sector, Tarague Sector, Finegayan Sector, and Yigo-Tumon Sector, including all aquifer basins, aquifer systems, and management zones, to bind and inure to the benefit of the Grantee, its successors, and assigns in fee simple absolute forever.

Public Lands. All government lands reserved for the future use of the government of Guam, wherever situated, including any surface or subsurface lands reserved by Guam Public Law 22-18, its exhibits, appendices, amendments, as well as the lots assigned to Grantee by the Chamorro Land Trust Commission in the companion Assignment to this Grant Deed, to bind and inure to the benefit of the Grantee, its successors, and assigns in fee simple absolute forever.

Grantee is expressly granted the right to enter upon any government or public property, territorial or federal, for the purpose of conducting exploratory well drilling activities and identifying viable water well sites, together with the right of temporary ingress and egress over and across these lands, said right which shall be superior above all others.

TOGETHER with all and singular any improvements, riparian rights, littoral rights, watercourses, waters, water resources, streams, rivers, ponds, lakes, wells, pumps, stations, easements, water and sewer rights-of-ways, buildings, facilities, fixtures, tenements, privileges, hereditaments, appurtenances, reversions, remainders, rents, issues and

profits thereof and therein, and all the estate, rights, title, interest, property, claim and demand of said Grantor, its successors and assigns, at law or in equity, in and to the same forever, subject to the laws of the Territory of Guam.

Grantee expressly acknowledges the provisions of 10 G.C.A. Sections 46101 *et. seq.* (Water Resources Conservation Act), 21 G.C.A. Sections 75101 *et. seq.* (Chamorro Land Trust Act), Public Law 22-145, Public Law 23-23, and Public Law 23-141. Grantee covenants that all provisions of these laws will be respected in accordance with the land disposal requirements of said laws.

Grantee further acknowledges and incorporates by reference herein Resolution Number 97-13, passed by the Board of Directors of the Guam Waterworks Authority on July 9, 1997. Grantee covenants that the declarations and decrees set forth in said Resolution will be respected. Grantee agrees to pay for the survey process of the real property interests identified herein.

All parties to this Grant Deed agree that the "real estate requirement survey map(s)" will be completed within five years from the date of the filing of this Grant Deed, unless an extension is granted by the Director of the Department of Land

Management and the Governor of Guam. All lots for which the "real estate requirement map(s)" has not been completed shall revert automatically to the Government of Guam.

The Department of Land Management covenants that for and on behalf of itself, the Government of Guam, and the departments, agencies, and commissions of the Government of Guam, it will initiate the normal inter-agency review process of the survey maps.

Grantee expressly reserves the exclusive right to determine its real estate requirements, both existing and future, subject only to the approval of the Department of Land Management and the Governor of Guam. However, it is specifically covenanted by Grantor that Grantee's determination of its real estate requirements will be respected and deferred to, and that said approvals shall not be unreasonably withheld.

Grantor expressly reserves the right to perform surveys to sever out parcels directed by law. At all times, however, Grantor will respect and honor the superior right of Grantee to go upon any lots or parcels and explore or sever out Grantee's portion first before all others, including Grantor.

All of the provisions, conveyances, grants, and descriptions contained in this Grant Deed and the companion

Assignment are distinct and severable, and if any provision, conveyance, grant, or description is deemed to be illegal, void, or unenforceable, it shall independently be severed herefrom and shall not affect the validity, legality, or enforceability of any other provision, conveyance, grant, description, or portion thereof.

WATER AND POWER (ELECTRICITY) ARE IMMEDIATELY AVAILABLE ON THE PROPERTIES OR WITHIN 100 FEET OF THE PROPERTIES.

IN WITNESS WHEREOF, I have hereunto set my hand this 23rd day of July, 1997.

GRANTOR:
GOVERNMENT OF GUAM

Dated: 7-23-97

By _____
CARL T.C. GUTIERREZ, Governor

DEPARTMENT OF LAND MANAGEMENT

By _____
CARL J.C. AGUON
Director

Dated: 7/22/97

//

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

APPROVED AS TO FORM:
ATTORNEY GENERAL OF GUAM
CALVIN E. HOLLOWAY, SR.

By _____
GUS F. DIAZ
Acting Attorney General of Guam

Dated: 7/22/97

GRANTEE:
GUAM WATERWORKS AUTHORITY

Dated: 7-21-97

By _____
EDWARD M. CALVO, Chairman
Board of Directors

APPROVED AS TO FORM:
MAIR, MAIR, SPADE & THOMPSON
Attorneys for Guam Waterworks Authority

By _____
SANDRA E. CRUZ

Dated: July 21, 1997

//

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

TERRITORY OF GUAM)
) ss:
CITY OF AGANA)

On this _____ day of July, 1997, before me, the undersigned notary, personally appeared, **CARL T.C. GUTIERREZ**, the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose as Governor of Guam for the Territory of Guam.

)SEAL(NOT REQUIRED OR NECESSARY

//
//
//
//
//
//
//
//

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

TERRITORY OF GUAM)
) ss:
CITY OF AGANA)

On this 22ND day of July, 1997, before me, the undersigned notary, personally appeared, **CARL J.C. AGUON**, the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose as the Director of the Department of Land Management, Government of Guam.

)SEAL(

CHRISTINE M. QUITUGUA
NOTARY PUBLIC
In and for the Territory of Guam, U.S.A.
My Commission Expires: Jan 15, 2001
P. O. Box 2950 Agana, Guam 96932

TERRITORY OF GUAM)
) ss:
CITY OF AGANA)

On this _____ day of July, 1997, before me, the undersigned notary, personally appeared, **GUS F. DIAZ**, the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose on behalf of Calvin E. Holloway, Sr., and as the legal counsel for the Government of Guam, the Department of Land Management, and as the Acting Attorney General for the Territory of Guam.

)SEAL(NOT REQUIRED OR NECESSARY

Grant Deed
Gov't. of Guam and/or PUAG, Grantor
Guam Waterworks Authority, Grantee

TERRITORY OF GUAM)
) ss:
CITY OF AGANA)

On this 21st day of July, 1997, before me, the undersigned notary, personally appeared, **EDWARD M. CALVO**, the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose as the Chairman of the Board of Directors of Guam Waterworks Authority, Government of Guam.

)SEAL(

Elsie C. Souder

ELSIE C. SOUDER
NOTARY PUBLIC
In and for the Territory of Guam U.S.A.
My Commission Expires: JUNE 13, 1999
P. O. Box 1651 Agana, Guam 96910

TERRITORY OF GUAM)
) ss:
CITY OF AGANA)

On this 21st day of July, 1997, before me, the undersigned notary, personally appeared, **SANDRA E. CRUZ**, the person whose name is signed on the preceding or attached document, and acknowledged to me that she signed it voluntarily for its stated purpose as the legal counsel for the Guam Waterworks Authority, Government of Guam.

)SEAL(

Elsie C. Souder

ELSIE C. SOUDER
NOTARY PUBLIC
In and for the Territory of Guam U.S.A.
My Commission Expires: JUNE 13, 1999
P. O. Box 1651 Agana, Guam 96910

MS97531c

TERRITORY OF GUAM, DEPARTMENT OF LAND MANAGEMENT
OFFICE OF THE RECORDER
567698
This instrument was duly recorded
25
Day of July, 19 97 at 1136
and duly recorded in Book
Recorder
DE-OFFICIO
Deputy Recorder

FOR THE DEPARTMENT OF LAND MANAGEMENT

(Space above this line for Recorder's use only)

RECEIVED
JUL 25 1997
CUNLIFFE & COOK

ASSIGNMENT

TO ALL WHOM THESE PRESENTS MAY COME, GREETINGS:

It is declared in 10 G.C.A. Sections 45102, 46101, 47102, 52102, and 53012, and in Public Laws 22-47 and 22-28, that it is the policy of the Government of Guam that the public health and welfare mandates that the water resources of Guam shall be protected from environmental degradation and pollutants of any kind. As expressed in said statutes and laws, it is the duty of the Government of Guam to safeguard the conservation and development of Guam's limited water resources for all inhabitants of Guam. To this end, Public Law 20-06:7 provides that all surface waters and ground waters are public assets and that first priority for utilization of any waters shall be for the use or resale of the Guam Waterworks Authority (GWA).

It is recognized that pursuant to Public Law 23-119, GWA was required to assume in writing from the Government of Guam and the Public Utility Agency of Guam (PUAG) all real property

under PUAG's administration and any items of property, materials, and supplies which PUAG owned or controlled, including construction work in progress. Under Public Law 23-119, the transfer of real property interests to GWA, including but not limited to, fee estates, easements and land use rights evidenced by easements, leases, and licenses are required to be filed in the form of deeds or assignments signed by the Governor of Guam in good form at the Department of Land Management (DLM). To this end, GWA has accepted a Grant Deed from the Government of Guam. The Grant Deed is a companion document to this Assignment. However, the two documents shall be construed independently.

Several of the real property interests contemplated by Public Law 23-119 include portions of properties that have previously been reserved for use by other public agencies, and said properties are, and continue to be, unsurveyed, undivided, and unregistered. It is in the best interests of all public agencies and the people of the Territory of Guam that said properties be surveyed, divided, and registered. However, it is critical to the public health and welfare of the people that any survey or division of land within the Territory of Guam be accomplished only after due consideration for future

infrastructure development and environmental and wildlife protection.

Pursuant to 21 G.C.A. Section 60103, DLM has cognizance of all government real property. Pursuant to 21 G.C.A. Section 75105, the Chamorro Land Trust Commission (CLTC) has control over all Chamorro Homelands. With the approval of the Governor of Guam, DLM, and CLTC are charged with exercising their duties to the agencies and departments of the government of Guam in a fair and impartial manner.

In furtherance of their common mission to serve the people and Territory of Guam, CLTC, GWA, and DLM are willing to work together and assume on behalf of the government and people of Guam, the laborious and financial burden of initiating a survey and division of any reserved or public properties. Assignee agrees to pay for the survey process of the real properties identified herein.

With particular respect to land distributions by CLTC, GWA pledges to extend all efforts to cooperate and coordinate with CLTC so that the distributions are fairly made pursuant to Guam law. It is recognized that legal counsel for GWA has been authorized to initiate the process of surveying, dividing, and registering any and all of the conveyed property interests, and

that there is established an office and division within GWA for the purposes of managing the real property interests of GWA.

In recognition and furtherance of these stated policies and duties, therefore, and pursuant to the authority of Public Law 23-119 (12 G.C.A. Section 14115), Public Law 22-18, and the provisions of 10 G.C.A. Section 46101, 21 G.C.A. Section 1202, and 21 G.C.A. Sections 9202 and 9203, the Chamorro Land Trust Commission (hereinafter "ASSIGNOR"), on behalf of itself, for TEN DOLLARS ($10.00) plus other good and valuable consideration, the receipt of which is hereby acknowledged, does hereby assign and transfer to the Guam Waterworks Authority, a public corporation and autonomous instrumentality of the Government of Guam (hereinafter "ASSIGNEE"), all of the following interests, and portions thereof, as specified below:

1. The Water Booster Pump Station (WBP-2), Agat/Umatac (1.0 mg) Reservoir, and Wells located on **Tract "FA," Agat**, which lot contains an area of ±229.66 hectares, as shown in Map/Instrument Drawing Number E4-66T640, Department of Land Management, Government of Guam;

2. The Deep Wells M-17A, M17B, M-20A, and Wells located on **Lot 5382, Barrigada**, which lot contains an area of ±833,450.36 square meters as shown in Map/Instrument Drawing Number C4-54T308, Department of Land Management, Government of Guam;

3. The Deep Wells D-12, D-13, and Wells located on **Lot 10120-R16, Dededo**, which lot contains an area of ±2,168,348.92 square meters, as shown in Map/Instrument Number LM103FY91, Document Number 450102 Department of Land Management, Government of Guam;

4. The Deep Wells D-07, D-08, D-10, Y-12, and Wells located on **Lot 10122-R18, Dededo**, which lot contains an area of ±1,712,915 square meters, as shown in Map/Instrument Number LM398FY88, Document Number 436089, Department of Land Management, Government of Guam;

5. The Proven Viable Water Source and Wells located on **Lot 10125-1-2, Dededo**, which lot contains an area of ±929 square meters, as shown in Map/Instrument Number LM464FY91, Document Number 464796, Department of Land Management, Government of Guam;

6. The Deep Well D-23 and Wells located on **Lot 10125-3, Dededo**, which lot contains an area of ±202,839 square meters as shown in Map/Instrument Number LM151FY86, Document Number 377138, Department of Land Management, Government of Guam;

7. The Deep Well D-24 and Wells located on **Lot 10125-4-R1, Dededo**, which lot contains an area of ±4.53 acres as shown in Map/Instrument Number LM339FY87, Document Number 517147, Department of Land Management, Government of Guam;

//

//

8. The Proven Viable Water Source and Wells located on **Lot 10125-4-1, Dededo**, which lot contains an area of ±4.21 acres as shown in Map/Instrument Number LM339FY87, Document Number 517147, Department of Land Management, Government of Guam;

9. The Deep Well F-15 and Wells located on **Lot 10141-1-1, Dededo**, which lot contains an area of ±10.08 acres as shown in Map/Instrument Number LM339FY87, Document Number 517147, Department of Land Management, Government of Guam;

10. The Deep Well F-08 and Wells located on **Lot 10141-2, Dededo**, which lot contains an area of ±293 square meters as shown in Map/Instrument Number LM163FY86, Document Number 378729, Department of Land Management, Government of Guam;

11. The Deep Well HCG-03 and Wells located on **Lot 10148, Dededo**, which lot contains an area of ±48.90 hectares, as shown in Map/Instrument Number LM281FY82, Department of Land Management, Government of Guam;

12. The YsengSong #1 (1.0 mg) Water Storage Reservoir, the YsengSong #2 (2.0 mg) Water Storage Reservoir, and Wells located on **Lot 10150, Dededo**, which lot contains an area of ±6,178 square meters, as shown in Map/Instrument Number LM142FY81, Document Number 323946, Department of Land Management, Government of Guam;

//

//

13. The Inarajan (.20 mg) Water Storage Reservoir and Wells located on **Lot 354-R4, Inarajan**, which lot contains an area of ±18.75 hectares, as shown in Map/Instrument Number LM207FY82, Department of Land Management, Government of Guam;

14. The Water Storage Tank, Malojloj Elevated Reservoir, Malojloj Office Facility, and Wells located on **Lot 382-R1, Inarajan**, which lot contains an area of ±1,233,321 square meters as shown in Map/Instrument Number LM342FY89, Document Number 421325, Department of Land Management, Government of Guam;

15. The Deep Wells F-16, F-17, F-18, and Wells located on **Lot 10090-1, Machanao**, which lot contains an area of ±25.92 hectares, as shown in Map/Instrument Number LM130FY76, Document Number 261662, Department of Land Management, Government of Guam;

16. The Pago Double Shaft Sewer Pump Station and Wells located on **Lot 3323-2, Pago Bay**, which lot contains an area of ±6,450 square meters as shown in Map/Instrument Number LM435FY90, Document Number 446110, Department of Land Management, Government of Guam;

17. The Water Storage Reservoirs, Deep Well Y-15, and Wells located on **Lot 7116-1-R2, Yigo**, which lot contains an area of ±50,332 square meters, as shown in Map/Instrument Number LM277FY84, Document Number 357633, Department of Land Management, Government of Guam;

//

18. The Santa Rosa Water Booster Pump Station and Wells located on **Lot 7117-4, Yigo,** which lot contains an area of ±357,751.88 square meters, as shown in Map/Instrument Drawing Number E4-71T686, Department of Land Management, Government of Guam; and

19. The Mataguac Booster (WBP-13) and Chiguian Booster (WBP-18) Pump Stations, the Yigo (2.5 mg) Water Storage Reservoir, the Yigo (0.5 mg) Reservoir, and Wells located on **Lot 7150-R4NEW-R8, Yigo,** which lot contains an area of ±501,263 square meters, as shown in Map/Instrument Number LM504FY89, Document Number 433410, Department of Land Management, Government of Guam.

To have to hold unto Assignee, its successors and assigns, at law or in equity, in and to the same forever, including possession thereto.

With regard to the following properties identified below, Assignor assigns and transfer all of the rights reserved by the former Public Utility Agency of Guam under Public Law 22-18. Upon Assignee's determination of the specific portions needed by the reservation of Public Law 22-18, Assignor will further transfer said reserved portions in the following properties to Assignee by deed:

20. **Lot 5369-1-7, Barrigada,** which lot contains an area of ±1,137 square meters, as shown in Map/Instrument Number 77251, Document Number 77251, Department of Land Management, Government of Guam;

Assignment
Chamorro Land Trust Commission, Assignor
Guam Waterworks Authority, Assignee

21. **Lot 10125-1-1, Dededo**, which lot contains an area of ±1,137 square meters, as shown in Map/Instrument Number 77251, Document Number 77251, Department of Land Management, Government of Guam;

22. **Lot 10171, Dededo**, which lot contains an area of ±50.83 hectares, as shown in Map/Instrument Number LM418FY91, Document Number 468100, Department of Land Management, Government of Guam;

23. **Lot 1, Inarajan**, which lot contains an area of ±984,531 square meters, as shown in Map/Instrument Number LM461FY94, Document Number 524533, Department of Land Management, Government of Guam;

24. **Lot 5403-R4, Mangilao**, which lot contains an area of ±209,597 square meters, as shown in Map/Instrument Number LM217FY93, Department of Land Management, Government of Guam;

25. **Lot 5403-1, Mangilao**, which lot contains an area of ±73,523 square meters, as shown in Map/Instrument Number LM217FY93, Document Number 520841, Department of Land Management, Government of Guam;

26. **Lot 286, Piti**, which lot contains an area of ±61.71 hectares, as shown in Map/Instrument Number LM229FY91, Document Number 475062, Department of Land Management, Government of Guam;

27. **Lot 421, Talofofo**, which lot contains an area of ±32.22 hectares, as shown in Map/Instrument Number LM163FY93, Document Number 522918, Department of Land Management, Government of Guam;

Assignment
Chamorro Land Trust Commission, Assignor
Guam Waterworks Authority, Assignee

28. **Lot 7055, Yigo**, which lot contains an area of ±11.8 hectares, as shown in Map/Instrument Drawing Number LM296FY35C, Department of Land Management, Government of Guam;

29. **Lot 7116-1-2-R2, Yigo,** which lot contains an area of ±8,208 square meters, as shown in Map/Instrument Number LM358FY88, Department of Land Management, Government of Guam;

30. **Lot 7116-1-2-1, Yigo,** which lot contains an area of ±12,253 square meters, as shown in Map/Instrument Number LM358FY88, Document Number 418879, Department of Land Management, Government of Guam;

31. **Lot 7116-3, Yigo,** which lot contains an area of ±25.60 acres, as shown in Map/Instrument Number SK# 1605, LM Sketch 1605, Department of Land Management, Government of Guam; and

32. **Lot 153-R1, Yona**, which lot contains an area of ±74,803 square meters, as shown in Map/Instrument Drawing Number D4-72T233, Document Number 105960, Department of Land Management, Government of Guam.

To have to hold unto Assignee, its successors and assigns, at law or in equity, in and to the same forever, including possession thereto.

Assignee and Assignor expressly acknowledge the provisions of 10 G.C.A. Sections 46101 *et. seq.* (Water Resources Conservation Act), 21 G.C.A. Sections 75101 *et. seq.* (Chamorro

Land Trust Act), Public Law 20-06:7, Public Law 22-18, Public Law 22-145, Public Law 23-23, and Public Law 23-141. Assignee and Assignor covenant that all provisions of these laws will be respected in accordance with the land disposal requirements of said laws.

Assignee acknowledges and incorporates by reference herein Resolution Number 97-13, passed by the Board of Directors of the Guam Waterworks Authority on July 9, 1997. Assignee covenants that the declarations and decrees set forth in said Resolution will be respected.

It is understood that DLM will initiate the normal inter-agency review process of the survey maps. The "real estate requirement map(s)" of Assignee are subject to the approval of DLM, Assignor, and the Governor of Guam, however, it is specifically covenanted by Assignor that its approval shall not be unreasonably withheld.

Assignee expressly reserves the exclusive right to determine its real estate requirements, both existing and future. Pursuant to Public Law 22-18(d)(iv), Assignor acknowledges that Assignee is authorized to conduct exploratory

well drilling activities within any government property for the purpose of identifying viable water well sites, the identification of which shall subordinate any other uses.

It is agreed that Assignor, Assignee, and DLM will enter into a detailed administrative agreement which specifies with particularity the terms, conditions, and scope of the survey and mapping process.

All of the assignments, transfers, provisions, and lot descriptions contained in this Assignment and the companion Grant Deed are distinct and severable, and if any assignment, transfer, provision, or lot description is deemed to be illegal, void, or unenforceable, it shall independently be severed herefrom and shall not affect the validity, legality, or enforceability of any other assignment, transfer, provision, lot description, or portion thereof.

WATER AND POWER (ELECTRICITY) ARE IMMEDIATELY AVAILABLE ON THE PROPERTIES OR WITHIN 100 FEET OF THE PROPERTIES.

//

//

//

//

Assignment
Chamorro Land Trust Commission, Assignor
Guam Waterworks Authority, Assignee

IN WITNESS WHEREOF, I have hereunto set my hand this 24th day of July, 1997.

ASSIGNOR:
CHAMORRO LAND TRUST COMMISSION

Dated: JULY 24, 1997

By _____
JOSEPH M. BORJA
Administrative Director

ATTESTED BY:

_____
CARL T.C. GUTIERREZ
Governor of Guam

Dated: 7-23-97

//

//

//

Assignment
Chamorro Land Trust Commission, Assignor
Guam Waterworks Authority, Assignee

APPROVED AS TO FORM:
CUNLIFFE & COOK, P.C.
Attorneys for Chamorro Land Trust
Commission

By _____
F. RANDALL CUNLIFFE

Dated: 7/25/97

ASSIGNEE:
GUAM WATERWORKS AUTHORITY

Dated: 7-24-97

By _____
EDWARD M. CALVO, Chairman
Board of Directors

//

//

//

//

Assignment
Chamorro Land Trust Commission, Assignor
Guam Waterworks Authority, Assignee

TERRITORY OF GUAM)
) ss:
CITY OF AGANA)

On this 24th day of July, 1997, before me, the undersigned notary, personally appeared, **JOSEPH M. BORJA**, the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose as the Administrative Director for the Chamorro Land Trust Commission.

)SEAL(

Elsie C. Souder

ELSIE C. SOUDER
NOTARY PUBLIC
In and for the Territory of Guam U.S.A.
My Commission Expires: JUNE 13, 1999
P. O. Box 1651 Agana, Guam 96910

TERRITORY OF GUAM)
) ss:
CITY OF AGANA)

On this 25th day of July, 1997, before me, the undersigned notary, personally appeared, **F. RANDALL CUNLIFFE**, the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose as the legal counsel for the Chamorro Land Trust Commission.

)SEAL(

Ryta S. Barcinas

RYTA S. BARCINAS
NOTARY PUBLIC
In and for the Territory of Guam, U.S.A.
My Commission Expires: Sept. 14, 1997
P. O. Box 4756 Agana, Guam 96932

//

Assignment
Chamorro Land Trust Commission, Assignor
Guam Waterworks Authority, Assignee

TERRITORY OF GUAM)
) ss:
CITY OF AGANA)

On this _____ day of July, 1997, before me, the undersigned notary, personally appeared, **CARL T.C. GUTIERREZ**, the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose as the Governor of Guam for the Territory of Guam.

)SEAL(_____

TERRITORY OF GUAM)
) ss:
CITY OF AGANA)

On this 21st day of July, 1997, before me, the undersigned notary, personally appeared, **EDWARD M. CALVO**, the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose as the Chairman of the Board of Directors of Guam Waterworks Authority, Government of Guam.

)SEAL(Elsie C. Souder

ELSIE C. SOUDER
NOTARY PUBLIC
In and for the Territory of Guam U.S.A.
My Commission Expires: JUNE 13, 1999
P.O. Box 1651 Agana, Guam 96910

MS97575

Exhibit B (1 of 1)

GUAM WATERWORKS AUTHORITY
Gloria B. Nelson Public Service Building • 688 Route 15 • Mangilao, Guam 96913

April 24, 2017

To: Thomas F. Cruz, P.E., Chief Engineer

From: Gloria P. Bensan
Chairperson, Consultant Selection Board

Subject: RFP-03-ENG-2017
Professional Survey Services for the GWA Islandwide Real Property Survey and Mapping – Phase II
GWA Project No. M17-001-BND

The following information is intended to document the evaluation process undertaken for the referenced solicitation.

EVALUATION COMMITTEE MEMBERS	
Name	**Title**
Clinton Huntington II	Senior Engineer
Garrett Yeoh	Senior Engineer
Rodney Toves	GIS/LIS Manager
Bobbie Cruz	Land Agent III

Consultant	Evaluation Score				Total	Rank
1. AECOM	81	86	85	40	292	4
2. Guam Surveyor, LLC	96	92	95	80	363	2
3. Duenas, Camacho & Associates, Inc.	87	88	100	95	370	1
4. TG Engineers, PC	91	86	90	90	357	3

Scores were evaluated based on sum of the individual scores. The recommendation of the evaluation committee is shown in the ranking above.

Please review and approve at your earliest convenience so that we may proceed with the notification letters.

Exhibit C (1 of 1)

GUAM WATERWORKS AUTHORITY
"Better Water. Better Lives."
Gloria B. Nelson Public Service Building
688 Route 15, Mangilao, Guam 96913

MEMORANDUM

To: Miguel C. Bordallo, P.E., General Manager

From: Thomas F. Cruz, P.E., Chief Engineer

Subject: RFP-03-ENG-2017
Professional Survey Services for the GWA Islandwide Real Property Survey and Mapping – Phase II
GWA Project No. M17-001-BND

Date: April 24, 2017

The Selection Committee has completed all necessary actions for selecting the most qualified consultant for the referenced solicitation. All proposals were reviewed and scored according to the conditions established in the solicitation. The evaluation summary sheet is attached for your information.

The committee recommends the following top three (3) firms in order of preference for the project:

1. Duenas, Camacho & Associates
2. Guam Surveyor, LLC
3. TG Engineers, PC

Concurred:

VINCENT E. GUERRERO
Supply Management Administrator

April 24 2017
Date

GENERAL MANAGER'S DETERMINATION

Consultant Firm Selected:

DUENAS, CAMACHO & ASS.

Remarks:

MIGUEL C. BORDALLO, P.E.
General Manager

4-24-17
Date

Exhibit D (1 of 4)

DUEÑAS · CAMACHO & ASSOCIATES, INC.

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

May 15, 2017

Guam Waterworks Authority
Gloria B. Nelson Public Service Building
688, Route 15, Mangilao, Guam 96913

Attention: Bobbie C. Cruz
Land Agent III

Subject: GWA Island-Wide Real Property Survey & Mapping Phase II
GWA Project No. M17-001-BND

Re: Effort and Fee Estimate for the Survey & Mapping for Ninety Three (93) Properties

As requested, enclosed is the original copy of our effort and fee estimate for the survey and mapping of ninety three (93) properties identified in a list furnished to DCA.

Please contact me or Frank Songsong, Jr. at 477-7991 or via email if you have any questions. We look forward to discussing the detail of the effort and fee estimate if needed.

Sincerely,

Nestorio C. Ignacio

NESTORIO C. IGNACIO, PLS
Chief of Surveys
Duenas, Camacho & Associates, Inc.

Doc. No. 34GL17-0809

Exhibit D (2 of 4)

GWA RFP-03-ENG-2017
PROFESSIONAL SURVEY SERVICES FOR GWA ISLANDWIDE
REAL PROPERTY SURVEY AND MAPPING - PHASE II
GWA PROJECT NO. M017-001-BND

SUMMARY OF COST ESTIMATES
SURVEYING AND MAPPING OF 93 PARCELS

RETRACEMENT SURVEY AND MAPPING

NO.	LOT NUMBER	CADASTRAL REQUIREMENTS	COST
1	1, BLOCK 5, TRACT 299, WSR, (PROPOSED) DEDEDO / YIGO	RETRACEMENT SURVEY & MAPPING	$13,806.45
2	10150, WSR, DEDEDO	RETRACEMENT SURVEY & MAPPING	$12,022.42
3	10154-2, DW AG-02A, DEDEDO / YIGO	RETRACEMENT SURVEY & MAPPING	$10,409.07
4	112-1, BLOCK 12, SL5, INARAJAN	RETRACEMENT SURVEY & MAPPING	$8,769.94
5	116-1-1, SPS, INARAJAN	RETRACEMENT SURVEY & MAPPING	$7,890.89
6	15, BLOCK 2 TRACT 240, DW F-06, DEDEDO	RETRACEMENT SURVEY & MAPPING	$8,786.04
7	152-1G, SPS, UMATAC	RETRACEMENT SURVEY & MAPPING	$10,177.02
8	154, TRACT 14114, SPS, DEDEDO	RETRACEMENT SURVEY & MAPPING	$8,194.29
9	163-NEW-1G, BPS, YONA	RETRACEMENT SURVEY & MAPPING	$7,448.62
10	1G, BLOCK 12, TRACT 3241, WBP, UMATAC	RETRACEMENT SURVEY & MAPPING	$8,901.91
11	203-3, WBP, INARAJAN	RETRACEMENT SURVEY & MAPPING	$8,180.96
12	2062 PART-2, WSR	RETRACEMENT SURVEY & MAPPING	$10,751.04
13	2122-1REM-3-1, SLS, TAMUNING (BAYSIDE PUMP STATION)	RETRACEMENT SURVEY & MAPPING	$7,332.40
14	3, BLOCK 1, TRACT 240, DW-F-07, DEDEDO	RETRACEMENT SURVEY & MAPPING	$8,432.13
15	3255-5-4, DW A-08 CHALAN PAGO-ORDOT	RETRACEMENT SURVEY & MAPPING	$10,132.00
16	3262-1A-1, SPS CHALAN PAGO-ORDOT	RETRACEMENT SURVEY & MAPPING	$5,726.40
17	3339-5-1G, DW A-13 CHALAN PAGO - ORDOT	RETRACEMENT SURVEY & MAPPING	$8,635.52
18	361-10 (FORMERLY 361-4G) WBPS, INARAJAN	RETRACEMENT SURVEY & MAPPING	$5,898.56
19	407-1, SPRINGS RESERVOIR & WBP, ASAN	RETRACEMENT SURVEY & MAPPING	$10,294.32
20	477-1, WSR, ROUTE 2, AGAT	RETRACEMENT SURVEY & MAPPING	$11,634.70
21	4NEW-12B, BLOCK 1, TRACT 314, SLS, DEDEDO	RETRACEMENT SURVEY & MAPPING	$4,957.91
22	4NEW-18B, BLOCK 1, TRACT 314, SLS, DEDEDO	RETRACEMENT SURVEY & MAPPING	$4,957.91
23	4NEW-9B, BLOCK 2, TRACT 314, SLS, DEDEDO	RETRACEMENT SURVEY & MAPPING	$5,029.81
24	5024-1-R1NEW-2 (5024-1-1) SPS, HARMON, DEDEDO	RETRACEMENT SURVEY & MAPPING	$7,808.57
25	5120-5NEW-R3NEW, GWA OFFICE, UPPER TUMON	RETRACEMENT SURVEY & MAPPING	$12,147.14
26	5139-1-R4, SPS, MAMAHANAO, TAMUNING	RETRACEMENT SURVEY & MAPPING	$7,841.28
27	53-1, WSR, UMATAC	RETRACEMENT SURVEY & MAPPING	$11,953.42
28	5401 NORTH-1, SPS, ADACAO, MANGILAO	RETRACEMENT SURVEY & MAPPING	$7,456.27
29	5401 NORTH-2, SPS, ADACAO, MANGILAO	RETRACEMENT SURVEY & MAPPING	$7,312.47
30	69, SPS, ASAN-PITI	RETRACEMENT SURVEY & MAPPING	$6,930.33
31	90-8-1, WSR, YONA	RETRACEMENT SURVEY & MAPPING	$10,874.40
32	BLOCK 17, TRACT 1314, SPS, ROYAL GARDENS, TAMUNING	RETRACEMENT SURVEY & MAPPING	$7,294.53
33	P19.1B-4, DW A-05, AFAME, SINAJANA	RETRACEMENT SURVEY & MAPPING	$7,018.33
34	P19.5-3-1, DW A-06, SINAJANA	RETRACEMENT SURVEY & MAPPING	$8,389.13
35	PARCEL "A", BPS, MATALA, INARAJAN	RETRACEMENT SURVEY & MAPPING	$6,278.99
36	ROAD LOT 2B, TRACT 5312, DW, DEDEDO	RETRACEMENT SURVEY & MAPPING	$7,042.33
		SUBTOTAL=	**$306,717.50**

PARCELING SURVEY AND MAPPING

NO.	LOT NUMBER	CADASTRAL REQUIREMENTS	COST
37	1, SEWER PUMP STATION, MERIZO	PARCELING SURVEY & MAPPING	$11,148.58
38	1, TRACT 1112, DW D-23, DEDEDO	PARCELING SURVEY & MAPPING	$10,660.51
39	10090-1, DW F16, F17, F18, F15	PARCELING SURVEY & MAPPING	$16,986.28
40	10120, DW D-09, DEDEDO	PARCELING SURVEY & MAPPING	$13,210.81
41	10120-R38-DW D-12, D-13, DEDEDO	PARCELING SURVEY & MAPPING	$14,488.87

Exhibit D (3 of 4)

42	10122-R18, DW D-07, D-08, D-10, Y-12, DEDEDO	PARCELING SURVEY & MAPPING	$17,501.88
43	10125-4-R1, DW D-24, DEDEDO	PARCELING SURVEY & MAPPING	$11,409.75
44	10154-5, DW-AG-03, AG-04, DEDEDO, YIGO	PARCELING SURVEY & MAPPING	$14,132.73
45	14, BLOCK 1 TRACT 109, DWA-16, BARRIGADA	PARCELING SURVEY & MAPPING	$11,430.49
46	145-3, SLS, MONGMONG-TOTO	PARCELING SURVEY & MAPPING	$11,522.40
47	152, TRACT 14114, PONDING BASIN, DEDEDO	PARCELING SURVEY & MAPPING	$11,077.36
48	152-1G, RIVER DIVERSION, MERIZO	PARCELING SURVEY & MAPPING	$15,438.37
49	17, TRACT 310, STP, PAGO BAY ESTATES, CHALAN PAGO	PARCELING SURVEY & MAPPING	$10,406.29
50	182-1, SPS, UMATAC	PARCELING SURVEY & MAPPING	$7,203.13
51	2053A-3-5A-NEW-R2, SLS, MONGMONG-TOTO-MAITE	PARCELING SURVEY & MAPPING	$5,725.08
52	2417-1-R6, DW A-17, MANGILAO (PUBLIC HEALTH)	PARCELING SURVEY & MAPPING	$14,328.06
53	253-R2, WSR, UMATAC	PARCELING SURVEY & MAPPING	$17,437.65
54	292-7-1 & BULL CART TRAIL	PARCELING SURVEY & MAPPING	$14,860.33
55	3395-R2, DW A-11, CHALAN PAGO - ORDOT	PARCELING SURVEY & MAPPING	$12,732.17
56	354-R6, WSR, INARAJAN	PARCELING SURVEY & MAPPING	$14,119.97
57	439-R1, WSR (PROPOSED), SANTA RITA - PITI	PARCELING SURVEY & MAPPING	$16,577.80
58	469-R1, WSR (PROPOSED), ASAN	PARCELING SURVEY & MAPPING	$15,886.57
59	5115-1-3-R2, SPS, TUMON	PARCELING SURVEY & MAPPING	$11,308.10
60	5133-1-R2, DEEP WELL, TAMUNING	PARCELING SURVEY & MAPPING	$12,050.79
61	5166-1-R7-1, SPS, TAMUNING	PARCELING SURVEY & MAPPING	$9,696.91
62	5172-3-R9NEW-NEW-R2, SPS, TAMUNING	PARCELING SURVEY & MAPPING	$5,813.52
63	5382 PORTION DWM-17A, M17B, M-20A	PARCELING SURVEY & MAPPING	$17,229.10
64	5402-R5-NEW-R2, MANGILAO	PARCELING SURVEY & MAPPING	$43,895.76
65	7022-2, DW Y-05, SIMON SANCHEZ HIGH SCHOOL, YIGO	PARCELING SURVEY & MAPPING	$11,386.00
66	70, BLOCK 10, TRACT 232, SLS, GHURA, SINAJANA	PARCELING SURVEY & MAPPING	$10,228.63
67	95-2A-NEW-R2, TRACT 2913, SPS, WINDWARD HILLS, YONA	PARCELING SURVEY & MAPPING	$13,788.69
68	9-R7, BLOCK 1, TRACT 212 DW MJ-01, INARAJAN	PARCELING SURVEY & MAPPING	$12,402.28
69	BLOCK 9A, DEDEDO VILLAGE EXTENSION, DW-D14, DEDEDO	PARCELING SURVEY & MAPPING	$8,840.15
70	PONDING BASIN "A" SPS, SUNRISE VILLA, MANGILAO	PARCELING SURVEY & MAPPING	$10,262.92
71	TARAGUE NATURAL WELLS BDRY (AJJY), DWAG-01, AAFB DW-S	PARCELING SURVEY & MAPPING	$15,042.05
		SUBTOTAL=	**$470,229.98**

LAND REGISTRATION SURVEY AND MAPPING

NO.	LOT NUMBER	CADASTRAL REQUIREMENTS	COST
72	100, SPS, MERIZO	LAND REGISTRATION SURVEY & MAPPING	$7,610.60
73	10141-1-1, DW F15 (NOT EXISTING)	LAND REGISTRATION SURVEY & MAPPING	$9,339.76
74	10141-2, DW F08, YSENGSONG, DEDEDO	LAND REGISTRATION SURVEY & MAPPING	$6,117.25
75	10141-R4	LAND REGISTRATION SURVEY & MAPPING	$13,569.93
76	153-R1, SPS, UMATAC	LAND REGISTRATION SURVEY & MAPPING	$10,371.42
77	248-2, WSR, WBP, AGAT	LAND REGISTRATION SURVEY & MAPPING	$11,970.37
78	258-R1, STP, UMATAC	LAND REGISTRATION SURVEY & MAPPING	$17,138.71
79	260-G, SPS, UMATAC	LAND REGISTRATION SURVEY & MAPPING	$10,160.90
80	275, WBP, WSR (PRPOPOSED), UMATAC	LAND REGISTRATION SURVEY & MAPPING	$17,256.49
81	3323-1 (DW RESERVED), CHALAN PAGO-ORDOT	LAND REGISTRATION SURVEY & MAPPING	$8,590.52
82	3375-1, DW-A-04, CHALAN PAGO-ORDOT	LAND REGISTRATION SURVEY & MAPPING	$7,187.69
83	3376-1, DW A-04, CHALAN PAGO - ORDOT	LAND REGISTRATION SURVEY & MAPPING	$9,234.92
84	3463, WSR (PROPOSED), SINAJANA	LAND REGISTRATION SURVEY & MAPPING	$16,940.39
85	3471, SPS, CHALAN PAGO-ORDOT	LAND REGISTRATION SURVEY & MAPPING	$11,868.90
86	400-1-2NEW, WSR (PROPOSED), YONA	LAND REGISTRATION SURVEY & MAPPING	$15,424.33
87	455, WBP, AGAT	LAND REGISTRATION SURVEY & MAPPING	$11,883.09
88	495, WSR (PROPOSED), NIMITZ HILL, ASAN	LAND REGISTRATION SURVEY & MAPPING	$15,761.22
89	5174-C-R3, SPS IPAO PARK TAMUNING	LAND REGISTRATION SURVEY & MAPPING	$11,585.64
90	523, WATER DAM, MERIZO	LAND REGISTRATION SURVEY & MAPPING	$22,213.82

Exhibit D (4 of 4)

91	7003-1-R5, DW Y-09, D.L. PEREZ ELEMENTARY SCHOOL, YIGO	LAND REGISTRATION SURVEY & MAPPING	$11,479.46
92	90-3-R1, WBP (PRIVATE), YONA	LAND REGISTRATION SURVEY & MAPPING	$12,657.42
93	PARCEL 1 (PORTION LOT 267) SLS, COMMERCIAL PORT, PITI	LAND REGISTRATION SURVEY & MAPPING	$13,347.46
		SUBTOTAL=	**$271,710.29**
		GRAND TOTAL=	**$1,048,657.77**