

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., Tuesday, October 26, 2021

AGENDA *AMENDED

- 1. CALL TO ORDER
- 2. APPROVAL OF MINUTES
- 3. PUBLIC COMMENTS [Limit to 2 minutes]
- 4. GPA
 - 4.1 GM Report
 - 4.2 Financials
 - * Resolution FY2022-01 Approval to Renew Property Insurance Contract
 - 4.4 Resolution FY2022-02 Approval to Procure GPA's Fuel Bulk Storage Management
 - 4.5 Resolution FY2022-03 Approval to Procure Three (3) Bucket Trucks
- 5. GWA
 - 5.1 GM Report
 - 5.2 Financials
 - 5.3 Resolution 01-FY2022 Creation of Job Classification Standard for Plant Instrument Technician Supervisor Position
 - 5.4 Resolution 02-FY2022 Change Order #5 Groundwater Production Meter Replacement Project #W19-001-BND
 - 5.5 Resolution 03-FY2022 Change Order #2 Tai Road / S-13 and Canada-Toto Loop/Blas Street water Replacement Project
 - 5.6 Resolution 04-FY2022 Amendment for Indefinite Delivery/Indefinite Quantity Professional Project/Construction Management Services Contract
- 6. OTHER DISCUSSION
 - 6.1 CCU Rules Update
- 7. ANNOUNCEMENTS
 - 7.1 Next CCU Meetings: GWA WS: Nov. 16; GPA WS: Nov. 18; CCU Mtg: Nov. 23
- 8. ADJOURNMENT



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Regular Board Meeting CCU Conference Room, Gloria B. Nelson Public Service Building 5:30 p.m., Tuesday, September 28, 2021

AGENDA *AMENDED

1. CALL TO ORDER

The CCU Chairman called the CCU Regular Meeting of September 28, 2021 to order at 5:30 p.m. He said four [4] Commissioners were present for a quorum and that Comm. Sanchez was excused. Others in attendance include:

Commissioners:

Joseph T. Duenas CCU Chairman
Francis E. Santos CCU Vice Chairman
Michael T. Limtiaco CCU Secretary
Peter Roy Martinez Commissioner

Executive Mgmt.:

John Benavente GM / GPA
Miguel Bordallo GM / GWA
Melinda Mafnas AGMO / GPA
Tom Cruz AGMO / GWA
Tricee Limtiaco AGMA / GPA
Chris Budasi AGMA / GWA

John J. Cruz AGMET / GPA – Online

John Kim CFO / GPA
Taling Taitano CFO / GWA

Graham Botha Legal Counsel / GPA
Therese Rojas Legal Counsel / GWA

Management & Staff:

Vien Wong IT Support / GPA Vlad Navasca IT Support / GPA

Vangie Lujan Compliance & Safety / GWA

Ann Borja-Gallarde Management Analyst IV / GWA Ex. Office Joyce Sayama Management Analyst / GPA Ex. Office **Guest:**

PNC News Online

Annmarie Muna AM Insurance

2. APPROVAL OF MINUTES

The Minutes of the Special Meeting of June, 3, 2021 and the Special Meeting of June 18. 2021 were presented for approval.

Comm. Santos motioned to approve the Minutes subject to verification and written correction, second by Comm. Martinez. There was no discussion and the motion passed 4 ayes, 1 absent.

3. PUBLIC COMMENTS - None

4. GWA

4.1 GM Report

GWA Workforce availability as of September 17, 2021

	370	100%
LTD	1	0.3%
Military Leave	7	1.9%
Employee with COVID-19, active case	1	0.3%
COVID-19 Quarantined	9	2.4%
Sick, not COVID-19 related	4	1.1%
Healthy	348	94.1%

	Total	
Healthy/Reporting for duty at worksite	340	91.9%
Healthy/Reporting for duty - Teleworking	8	2.2%
Employee with COVID-19, active case	1	0.3%
Employee sick - symptoms unrelated to COVID-19	4	1.1%
Military Leave	7	1.9%
Employee (to be) tested for COVID-19 with results pending	3	0.8%
Employee's direct exposure to a household member with symptoms related to COVID-19	1	0.3%
Employee sick - symptoms related to COVID-19	3	0.8%
Employee's direct exposure to a household member - COVID-19	2	0.5%
LTD/Workers Comp	1	0.3%
	370	100%

GWA Workforce Vaccine Status as of September 17, 2021

One Shot Remaining	24	6.49%
Fully Vaccinated	300	81.08%
Did Not Receive Shot	46	12.43%
	370	100%

Operations Update Production (August 2021) Monthly Production Summary - August 2021 Deep Wells 34.9 MGD Active wells = 91 of 120 31 days Avg days in operation = Total Production = 1,081,128 Kgals 0.22 MGD Springs DW Status as of 8/31/2021 31 days Avg days in operation = 91 Total Production = 6,911 Kgals Ugum Surface Water Plant A26-D01-D03-D10-D188-F06-F13-Y16-Y20-F04-F15-Y21 Pump Failure 31 days 12 Avg days in operation = A02-A07-A28-005-D13-M14-MU01-MU05 Total Production = 62,754 Kgals Tumon Maui Well 0.93 MGD A23-A25 A29-D24-F05-M09-Y01-Y02 Avg days in operation = 31 days 28,765 Kgals Total Production = 1,179,558 Kgals 38.1 MGD TOTAL Monthly Production (kgals) 1,400,000 1,214,795 1.179,749 1,153,089 1,182,163 1,179,558 1,175,735 1,588,884 1,085,840 1,200,000

Distribution (August 2021)

Monthly	y Distribution	Summary	- August 20	21
Water Booster Pum	p Stations			
District	No. of Stations	Total Pumps	Pumps Operating	% Operational
Northern	13	26	25	96.2%
Central	7	14	12	85.7%
Southern	7	15	15	100.0%
	27	55	52	94.5%

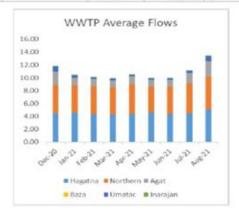


Wastewater Collections (August 2021) Monthly Collections Summary - August 2021 WWPS Operability August 2021 Wastewater Pump Stations No. of Total Pumps District Stations Pumps Operating Operational Northern 22 52 44 84.6% 29 93.7% sams Central 63 59 Southern 26 56 49 87.5% 77 171 152 88.9% Dec-29 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-21 Aug-21



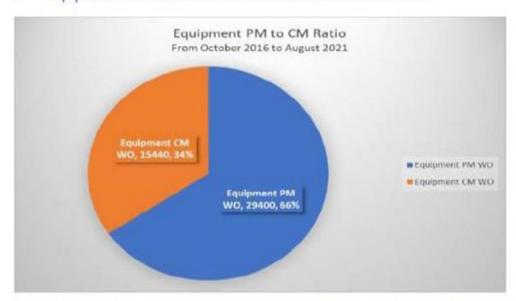
Wastewater Treatment (August 2021)

/W Treatment Plant	water Treatment :			
Facility	Avg. Daily Flows	Sludge (lbs)	Slu	dge Disp. (\$)
Hagatna	5.06	89,720	\$	8,075
Northern	5.10	606,920	\$	54,623
Agat	2.39	78,700	\$	7,083
Baza	0			
Umatac	0.78			
Inarajan	0.16			
	13.49	775,340	\$	69,781

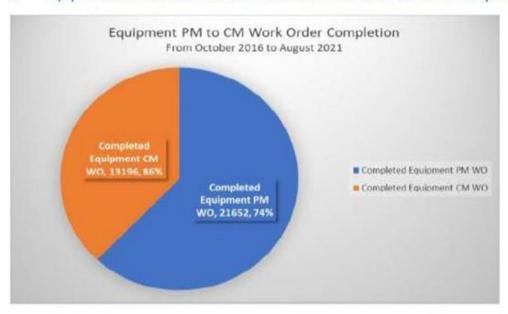


Asset Management (through August 2021)

Equipment Preventive Maintenance to Corrective Maintenance Ratio



II. Equipment Preventive Maintenance to Corrective Maintenance Work Order Completion



Asset Management (through August 2021)

III. Corrective Maintenance Work Order Ratio for Leak Repairs vs. Equipment Repair



IV. Corrective Maintenance Work Order Completion for Leak Repairs vs. Equipment Repair



One Guam Update (through August 2021)

Tumon Maui Well

- Still waiting on AAFB approval to increase the pumping rates to be consistent with the GEPA well permit.
- The license for TMW will be for 1 more year. Then next term will be fa 5-year lease. The valuation of the property will
 determine the amount of the fee for the lease.
- Next inspection will be October 20, 2021

OEA Projects

- Observation Wells/NGLA
 - DoD is working to resolve ownership issue w/ adjacent landowner. DOD met with the Department of Land Management to
 resolve the issue with the property. GWA still needs to access BPM-1 site in Mangilao for rehabilitation project.

Strategy/Framework Discussion

- Santa Rosa Intertie Still pending approval by Andersen leadership (as with TMW/AG-1).
- Route 16 Intertie Project will not start until 2023.

Property Transfers

- . Transfer of Navy Laterals at Murray Road and to Schoeffel Heights to GWA Right of Entry is being reviewed by DOD
- · Transfer of ACEORP Tunnel No new update; waiting for GovGuam to sign.
- Easement on Marbo property for Sewer Line GWA request for easement/relocation was delivered to DOD. GWA still waiting on response.
- · Amendment to the Cetti Bay easement is approved; documents will be transmitted to GWA.

Other

- · GWA is preparing a Standard Operating Procedures (SOP) for Wastewater Batch Discharge from DOD to GWA.
- DOD is considering discharge of pool water from Camp Blaz to GWA. GWA will issue a Pretreatment Permit for the discharge into GWA wastewater system. DOD will coordinate with GWA on the discharge.
- · The AWWA-HIWPS annual conference will be virtual and will be free.

Court Order Summary (August 2021 - no changes)



	Court Order Items	%	Performance
Completed/Continuous - on time	78	84%	(on-time or
Completed - late	14	15%	completed)
In Progress - on time	0	0%	
In Progress - late	1	1%	00.004
Totals	93	100%	98.9%

Court Order - Status Information (August 2021)

- . No CO delays due to approval of CO extension.
 - Final Date to complete CO 29(b) is June 30, 2023.
- Overflow or Bypass events reported to USEPA (for August up to September 1, 2021):
 - o SSO #453, Aug. 22, 2021-Aga St., Santa Rita Heavy Rain
 - SSO #454, Aug. 20, 2021-Chalan Pago/Ordot Sewer overflow, Station Pump Airlocked
 - o SSO #457, Aug. 23, 2021-Vicente Salomon, Agaña Heights FOG
 - SSO #459, Aug. 26, 2021-Chalan Canton Tasi, Merizo PS Controller issues
 - o SSO #461, Sept. 1, 2021-Chagamin Lago, Inalahan Heavy Rain

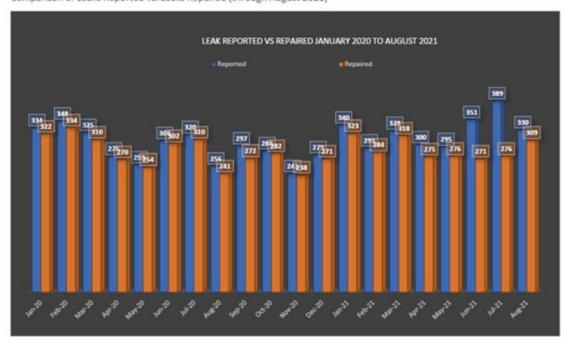
Land Acquisition Summary (for August 2021)

GWA Facility	Location	Gov. or Private Property	Land Acquisition Status
Tanks	Astumbo	Gov't CLTC	Petition of Land Registration package forwarded to Attorney General by DLM 11/04/19. AG pending court filing 06/30/2021. Follow up status sent to DLM 09/02/2021.
Tanks	Piti	Private	Received final comments from DoAg. Waiting on the archaeological report before we can submit 299 form. Waiting for permission from NPS to access the lot and perform the Archeological survey.
	Airport	Private	Escrow/Title Service for land acquisition purchase opened 08/27/2021.
Deep Wells	AG-12	Dept. of Agriculture / Manhita Farms	Right of Entry Agreement sent to Dept of AG for signature 05/24/18. 2nd follow up sent on 09/12/18. 3rd follow up sent on 04/10/19. Retracement Survey Property Map filed and recorded at DLM 7/10/19. DCA submitted parceling map to DLM for review and comments on August 18, 2021, waiting for their review comments.
Booster Pump Station	Agfayan	Private	TGE working on structural design for pump station area for L28, B19, T3734, Inarajan 11/07/19. Letter of Decision received by CLTC 06/09/2021.

Land Acquisition Summary (for August 2021 - continuation)

GWA Facility	Location	Gov. or Private Property	Land Acquisition Status
Asan Springs	Asan	Federal	In order for NPS to issue a land ROW agreement with GWA, NPS has to complete NEPA first. GWA has HDR under contract to perform this work and an Environmental Assessment (EA) will be developed. The permit for the biological survey was submitted on 6/12/2020 and was signed by NPS on 1/22/2021. Further coordination between NPS and SHPO is pending to determine necessary approach for an archaeological survey. New Chief of Resources for War in the Pacific National Historical Park, Timothy Clark, hired. Replacing Tahzay Jones, who was previously working with us. HDR following up with Tim Clark to get him up to speed on things. Biological Survey:
			 Fieldwork completed, 2/10/2021. Based on a preliminary finding by HDR's biologist they have found snails close to the site, and within NPS proposed ROW, and outside the proposed ROW. Draft report submitted to NPS, 4/1/2021. Comments received from NPS, 6/4/2021. Final Report submitted to NPS, 6/12/2021.
			DOAG Environmental Consultation Letter:
			HDR sent Request letter sent to DOAG (Dep of Ag) on 3/15/2021. GWA followed up with DOAG on 6/25/2021.
			 DOAG responded on 7/1/2021, but did not reach GWA Eng. until 8/4/2021; HDR review response letter and will respond soon.
			Pending archaeological survey requirements from SHPO. SHPO Letter sent to NPS for review, 5/29/2021. Received first comments on letter on 7/1/2021; submitted revised letter on 7/12/2021.

Comparison of Leaks Reported vs. Leaks Repaired (through August 2021)



Monthly Leak Report Cost (through August 2021)

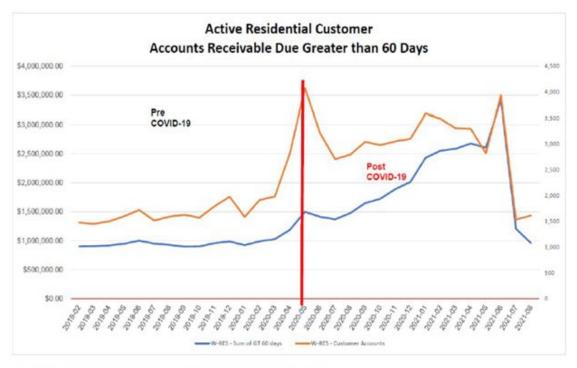


Assumptions:

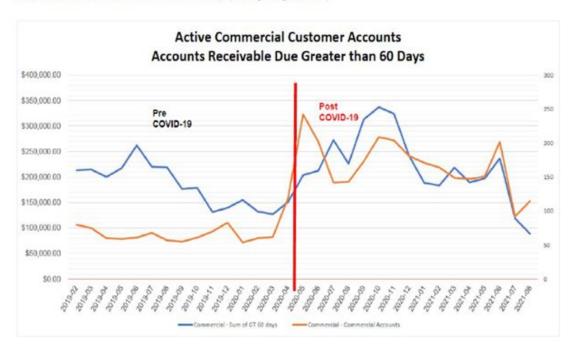
- 1. Leak rate = 4 gpm
- 2. Cost per kgal = \$4.00

10/26/21 – Approved subject to verification & written correction

Accounts Receivables Due Greater than 60 Days (through August 2021)



Accounts Receivables Due Greater than 60 Days (through August 2021)



10/26/21 – Approved subject to verification & written correction

AGM for Administration Chris Budasi reported that for August there continues to be improvement for residential customers. We are back to pre-pandemic levels for residential customers. For commercial customers we are still below pre-pandemic status.

4.2 Financials

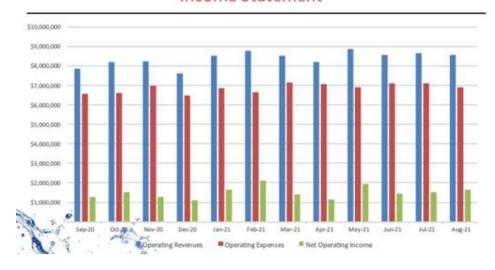


Key Financial Indicators

Indicator	Target	Jul-21	Aug-21
DSC YTD			
Per Section 6.12 of Indenture	1.25	1.35	1.35
Per PUC / CCU	1.4	1.35	1.35
Days - Cash on Hand	120 days	297 days	309 days
Collection Ratio			
Month to Date	99%	107%	94%
Year to Date	99%	98%	99%
Days Billed	30 days	30 days	30 days
Account Receivable Days	30 days	45 days	45 days
Account Payable Days	45 days	39 days	38 days
Employee Count	400 FTE	363 FTE	372 FTE
Water Demand			
Month to Date	478,754	437,864	443,188
Year to Date	5,266,296	4,444,009	4,887,197
Westewater Flow			
Month to Date	358,472	311,764	332,271
Year to Date	3,921,196	3,141,131	3,473,402
Water Customers	42,839	43,258	43,184
Wastewater Customers	29,805	29,885	29,796

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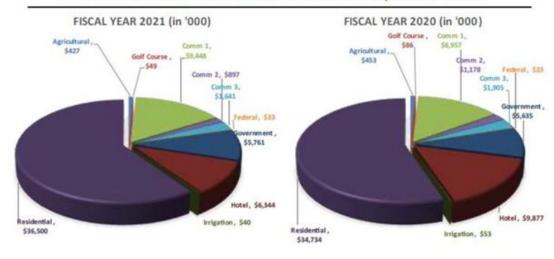
Income Statement



10/26/21 – Approved subject to verification & written correction

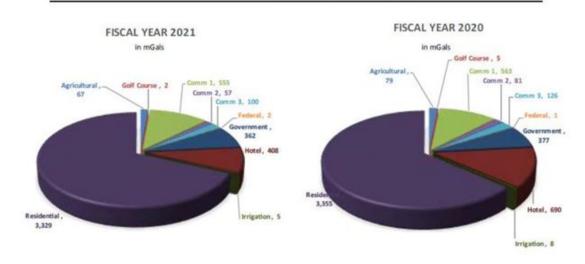


AUGUST 2021 YTD Water Revenue by Rate Class



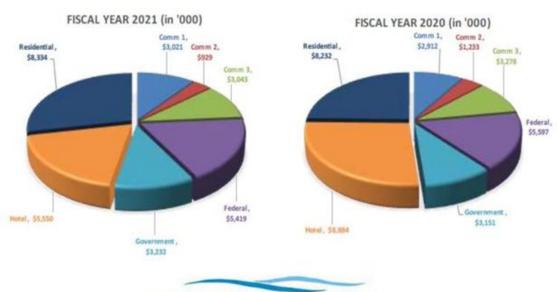
GUAM WATERWORKS AUTHORITY

AUGUST 2021 YTD Demand



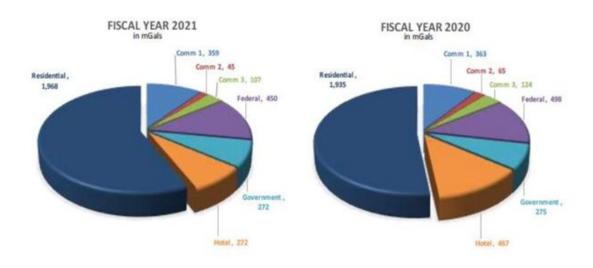


AUGUST 2021 YTD Waste Water Revenue by Rate Class



GUAM WATERWORKS AUTHORITY

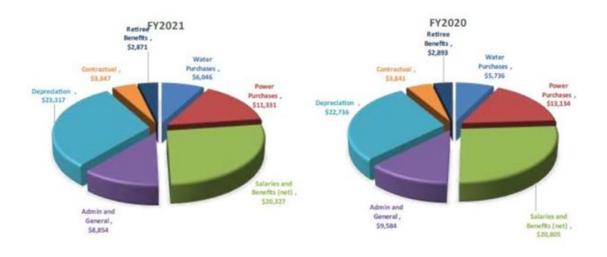
AUGUST 2021 YTD Flow



10/26/21 – Approved subject to verification & written correction

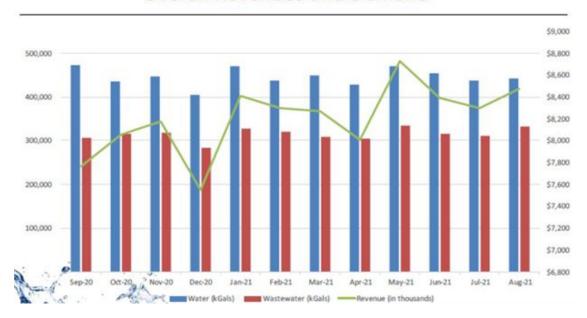


AUGUST 2021 YTD Expenses by Categories





Overall Revenues and Demand



10/26/21 – Approved subject to verification & written correction

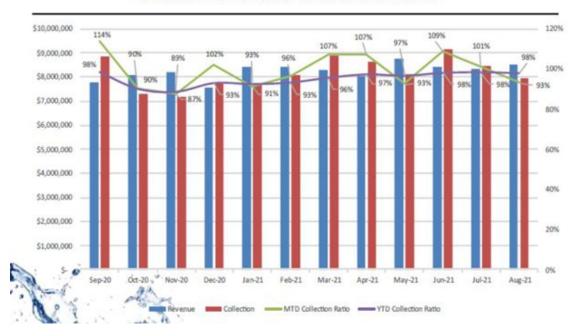


Revenues and Demand



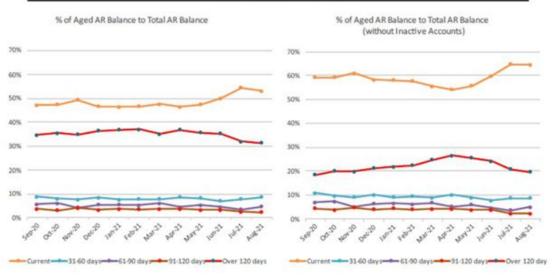
GUAM WATERWORKS AUTHORITY

Overall Revenues and Collections



10/26/21 – Approved subject to verification & written correction





4.3 Resolution No. 28-FY2021 Approval of Legislation Authorization to Set-Up Tax Exempt Commercial Paper Program

The Authority has all but exhausted its current borrowing authority and must plan for the next set of CIPs in its Master Plan, in particular, the projects that are likely to be included in the upcoming USEPA consent decree. Given the increasing cost of construction, GWA management is seeking additional borrowing authority for up to \$300 million.

Including a Commercial Paper (CP) Program in GWA's integrated financing strategy, as discussed in the PUC FY20 Rate Order and the GWA Capital Financing Alternatives Study, has the potential to reduce debt service requirements.

The financing will support CIP projects throughout the island. The borrowing costs of the 2020A Bonds resulted in coupon rates of 4% and an all in TIC (True Interest Cost) of 4.587%. The Series 2020B Bonds (taxable refunding of Series 2013 Bonds) resulted in average coupon rates of 3.61% and an all in TIC of 3.7%.

The interest rates on CP are based Federal Reserve Board publications which use data for certain trades to estimate a relation between interest rates on the traded securities and their maturities, with the final pricing on CP based on the specific short-term credit rating of the issuer. Normally, the cost of CP is calculated using the CP index, plus a spread for credit support in the form of a letter of credit (L/C) and a remarketing fee. The dealer fee, for rate

setting and dealer services, is based on market conditions and is in the range of 5 to 15 basis points. There are additional fees for obtaining a credit rating, as CP is generally rated. We hope to have legislation in place by the end of January 2022. GWA Operating Revenues are the pledged funding source to pay debt service and related fees.

Comm. Limtiaco asked if the all the interest was included in the rolling balance in the 27-year bond as well and the GM said yes. Comm. Santos asked if the commercial paper rates are at 1.6%. The GM said the Federal Reserve Board establishes data and that data is used to establish what the CP would cost. Other fees are added into the mix between 5-15 basis points and the credit rating of the issuer also is key. In terms of range it could be 1.6% as opposed to 3.4% on long term bonds. The GM said interest is accrued only on the amounts that are drawn. As the funds are drawn down administrative costs will come into play but the overall costs are minimum.

Comm. Santos asked about GEDA's fees and the GM said it would only be for the take-out bond. He has not seen any figures from GEDA yet for the Commercial Paper program. Comm. Duenas said this question is important and asked the GM could verify this.

The GM said that he hopes the Commercial Paper Program in place by the end of January next year. The additional Commercial Paper funds would not be needed until the end of the fiscal year which gives enough time.

Comm. Limtiaco asked re the line-out for the total cumulative amounts and asked if the final draft is inclusive of the line-outs. The GM said the existing law places a limit on short term borrowing. The proposed legislation removes this language and applies the new limit and borrowing authorization for the Commercial Paper Program and also ties in the take out provision.

Comm. Santos motioned to approve Resolution 28-FY2021, second by Comm. Limtiaco. There was no further discussion or objection and the motion passed - 4 ayes 1 absent.

4.4 <u>Resolution No. 29-FY2021 Approval of Amendment for the Indefinite Delivery / Indefinite Quantity Professional Project/Construction Management Service Contract</u>

GWA currently has an IDIQ contract with Brown and Caldwell (BC). Amendment No. 2 to Task Order No. 3 extends the contract time to align with the project's forecasted completion date of December 2022 and includes adding project management and contract management services for the Rt.1 Phase 2 construction (on-going). The amount of increase is \$141,435.00.

Amendment No. 4 to Task Order No. 4 extends the contract time to align with the project's current construction schedule. Due to permitting delays, the original construction completion date has passed and construction is now scheduled to be completed on December 17, 2021. This amendment to Task Order No. 4 extends BC's services to December 31, 2021 and increases the Task Order budget by \$95,964.00 (excluding tax) on a Time and Materials basis to cover project and contract management effort throughout this extension. Additionally, this

amendment to Task order No. 4 includes additional survey work needed to complete the transfer of easements for the sewer forcemain in the amount of \$8,800.00 (excluding tax).

Task Order No. 3 construction is located along Route 1 from Asan-Adelup to the Hagatna Sewer Pump Station. Task Order No. 4 construction is located at Lemai Drive, Santa Rita in the Hyundai Subdivision.

The cost for Amendment No. 2 to Task Order No. 3 is \$141,435.00 and the cost for Amendment No. 4 to Task Order No. 4 is \$110,002.00 (including tax). Therefore, the total cost of Amendment to Owner-Engineer Agreement No. 4 and change order to the IDIQ Contract is \$251,437.00.

The current authorized IDIQ contract amount is \$2,296,795.00. In total, an additional \$251,437.00 will be added to the IDIQ Contract to cover the proposed amendments for Task Order Nos. 3 and 4 that will increase the IDIQ contract amount to \$2,548,232.00.

Task Orders, and their amendments, issued to date include:

- Task Order No.1 Consulting Engineer's Report
 - o Amendment No.1 Clarification relative to the Municipal Advisor Disclosure
 - Amendment No.2 Increase in scope for additional draft reports, updating financial projections, and evaluation of COVID-19 impacts on the financial projections.
 - Amendment No.3 Increase in scope to address continuing development of changes required to the financial plan to adequately address the COVID-19 impacts, additional financial analysis and report modifications.
 - Amendment No.4 Increase in scope to add task for assistance with and attendance at the individual investor meetings.
- Task Order No.2 Project/Contract Management for Rt.4 Sewer Rehabilitation
 - Amendment No.1 Extension of performance time and associated increase in total fee due to construction period extensions.
- Task Order No.3 Project/Contract Management for Rt.1 Sewer Rehabilitation
 - Amendment No.1 Extension of performance time and associated increase in total fee due to construction period extensions; plus increasing the scope to provide PM/CM for construction of the Adelup to Hagatna section.
 - Proposed Amendment No. 2 Extends the contract time to align with the project's current construction schedule which increases the Task Order budget by \$141,435 to cover project and contract management effort.
- Task Order No.4 Project/Construction Management for SSES phase 2 Hyundai Subdivision Lift Station
 - Amendment No.1 Extension of performance time and associated increase in total fee due to construction delays; plus adding archaeological services to the scope of work.

- Amendment No.2 Extension of performance time (no-cost change order).
- o Amendment No.3 Extension of performance time (no-cost change order).
- Proposed Amendment No. 4 Extends the contract time to align with the project's current construction schedule which increases the Task Order budget by \$95,964 to cover project and contract management effort. Additional survey work needed to complete the transfer of easements for the sewer forcemain in the amount of \$8,800.
- Task Order No.5 Cost of Service Study (PUC Stipulation)
- Task Order No.6 Water Meter Technical Assistance
- Task Order No.7 Consent Decree and Hydraulic Modeling Assistance
- Task Order No.8 Water Resources Master Plan Interim Update

Task Order No. 3 is anticipated to be completed by December 31, 2022.; Task Order No. 4 is anticipated to be completed by December 31, 2021. The funding source will be from the USEPA Grant Funds.

Comm. Santos motioned to approve Resolution 29-FY2021, second by Comm. Limtiaco. There was no further discussion or objection and the motion passed – 4 ayes, 1 absent.

Comm. Santos asked the GM's the status of GPA and GWA's vaccination policy. GWA GM Bordallo said that GPA has taken action to do testing in-house and GWA will wait to see the outcome but GWA's draft policy is ready and pending GPA. GPA GM said the in-house testing is for both those that vaccinated and unvaccinated. The policy should be finalized next week.

AGMA Tricee Limtiaco reported that 2 types of testing the Abbot Binex will be available the Abbot Rapid Antigen testing and if these come up presumptive positive DPHSS have verbally confirmed that GPA would be trained to run the Abbott ID Machine – a molecular test not PCR. We would be able to confirm presumptive positive on site. The AGMA confirmed that these test will be done in a special room. There are series of steps being undertaken right now to allow GPA to put this all in place. She said this will help us become more efficient in GPA's testing and will lower the amount of time that employees are out waiting to get tested.

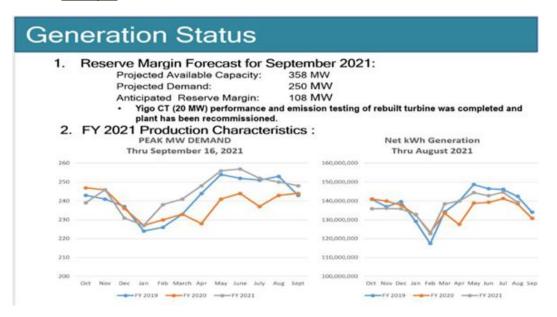
Comm. Limtiaco asked if there is a mandatory vaccination policy with the testing alternative and that the unvaccinated will still need to test weekly and those vaccinated are not being tested. He asked the current employee data statistics - how many are testing positive that are unvaccinated vs. those that are vaccinated? AGMA Limtiaco said that per the Presidential Order, GPA will arrange testing for those who are unvaccinated however employees who would like to test despite their vaccination status will be accommodated. Relative to the make-up of those who are vaccinated and unvaccinated. The AGMA reported on cased in August and September there were 14 positive cases; of the 8 cases in August, 6 were fully vaccinated, 5 of them had household contact. In Sept. there were 6 cases and 5 were fully vaccinated. Re GWA 30 cases [since the onset of COVID] were reported 40% were vaccinated and 60% were not vaccinated. Comm. Limtiaco said based on these figures how does testing only the

unvaccinated solve the problem. GM Benavente said they are moving forward and following the federal mandate. 88% of GPA's employees are fully vaccinated however there are some testimonials that even in families those that were not vaccinated had a more serious illness. At this time GPA is moving towards compliance and beyond this we want the testing to be available.

Comm. Limtiaco said testing the unvaccinated only does not make sense because current data shows that more than half were vaccinated. Comm. Duenas said his concern is how many days were the vaccinated ill vs. the unvaccinated. What was the severity of the illness from the vaccinate versus those that are unvaccinated? This would be interesting to know.

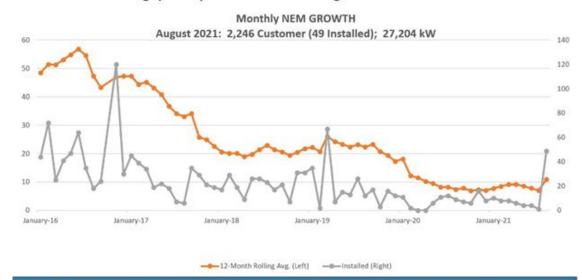
5. GPA

5.1 GM Report



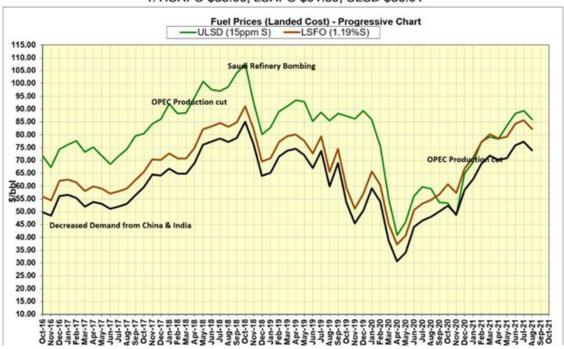
Net Metering

3. Net Metering (NEM) Growth Thru Aug 2021:



GPA Fuel Landed Cost (Per Barrel) Sept 16, 2021

4. HSRFO \$83.06; LSRFO \$91.39; ULSD \$86.01



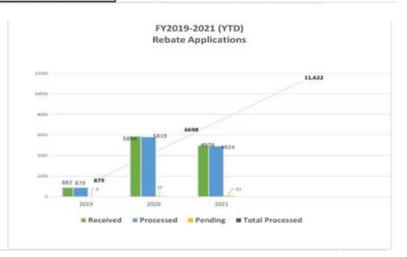
Demand Side Management (DSM)

10/26/21 – Approved subject to verification & written correction

5. DSM Funding as of Aug 31, 2021:

		FY'21 thru 8/21/21	FY'16-FY21 YTD TOTAL					Pi	aid R	ebates			
Regular/OT Pay	\$	141,399.12	\$ 299,243.12	4.1%	\$2,800.00	\$1,4	25,00						
Other Contractual	\$	72,650.00	\$ 306,481.05	4.2%	\$1,400,00	542	00,00	557,2	55,00		505.00		4.097.00
Ads & Radio Announcements	\$		\$ 9,000.00	0.1%				5400	00.00	\$110,000.0	0 398.00	W 35	4,0997,00
Paid Rebates-Split AC	5	1,454,425.00	\$ 6,358,876.00	86.3%									
Paid Rebates- Central AC	\$	2,300.00	\$ 27,200.00	0.4%		5557	275.00				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,	100.00
Paid Rebates- Washer/Dryer	5	94,097.00	\$ 363,325.00	4.9%	\$154.700.00	223	-	\$1,3	5.00	\$6,500.00			
Total Expenses	5	1,764,871.12	\$ 7,364,125.17							\$1,374.05D.0	\$1,468.0	\$1,4	58.425.0
Bank Interest (+)	\$	269.04	\$ 6,059.66										
Bank Fees	\$	425.00	\$ 5,647.32		FY16	r	(17	FY	18.	FY19	FYX		FY21

DSM Rebate Application Report 2019 to 2021:





PUC Update:

Current GPA Dockets on PUC Agenda (September 30, 2021):

 GPA Docket 21-16, Petition to Approve the Contract with Tristar Terminals Guam, Inc. for the Lease of an Additional Storage Tank for ULSD Diesel Fuel for Piti 8 & 9 supply source.

Disposition of Previous GPA Dockets:

 GPA Docket 21-17, Petition to Approve the Amendment to the Contract for Residual Fuel Oil No. 6 for the Baseload Power Generating Plants - Approved

8. GPA Budget:

 On August 24, 2021 the CCU approved for the first time a two year budget (FY'2022 & FY'2023) for GPA.

9. Phase III Renewable Project Update:

 GlidePath filed an appeal in the Superior Court of the OPA's decision which favored a GPA award to Engie for 40 MW of solar with full energy shifting ESS. Opposition briefs have been filed in Superior Court.

10. Renewable Energy - Integrated Resource Plan (IRP) & NEM Studies

Distribution Plan:

Study - Completed

Ongoing; L+G to advise

✓ Grid Controller - Completed

Load Flow Studies
 NEM Growth Impacts

Distribution Models Verification - Completed ✓ Transformer Overloads - Completed ✓ Capacity Contribution - Completed Voltage Imbalance - Completed System Voltage Analysis - Completed

Conservation Voltage Reduction
 Demand Response

Long Range Transmission Plan Study: Summaries of Renewal Integration Study & System Impact Studies - Completed

UFS NEM Rate Study:
Net Metering Rate - Ongoing, Final Draft in Review

✓ Automated Switching & Fault Circuit Indicator Comm

Solar Irradiance Sensor Network Plan - Completed

DSM Update:

- Existing Program Rebate Levels Reset Completed
 DSM Plan Update Sept 24, 2021
 EV Plan (Final Draft in Review) Sept 24, 2021

Generation System Reliability &

Adequacy:

UPDAT

ERIM (

ccu

- Power Plant and System Capacity State Models -Completed
- ✓ Analysis without ESS Completed
 ✓ Analysis with ESS Completed
- ✓ RPS to 50% by 2029 Plan Completed

Strategic Plan: 90% Completed

- Environmental Strategic Plan Update Modification
- being made, Sept 24, 2021

 ✓ IT Strategic Plan Completed

 ✓ IT Consolidation Plan Completed

Capacity Plan:

- Candidate Resources Completed
- ✓ Peak Load and Energy Forecast Completed
 ✓ Generation Hourly Load Forecast Completed
- ✓ Capacity Expansion Runs Completed
 Final Draft Report Ongoing, Sept 30, 2021

Frontier Project:

Project Summary - Completed



GAA

10. Renewable Energy - Integrated Resource Plan (IRP)

Schedule Summary

VOLUME	VOLUME TITLE	STATUS/DATE
Executive Summary	Executive Study	Oct 1, 2021
Volume 1	Generation System Reliability, Adequacy, and Resiliency	Final Draft
Volume II	Generation Expansion Plan	Sept 24, 2021
Volume III	Environmental Strategic Plan	Sept 24, 2021
Volume IV	Demand Side Management Plan	Final Draft
Volume V	Medium Range Distribution Plan	TBD
Volume VI	Information/Operational Technology Plan	Final Draft
Volume VII	Strategic Plan	Oct 1, 2021
Volume VIII	Electric Vehicle Roadmap	Final Draft
Volume IX	Net Metering Plan	Final Draft

October 21, 2021

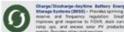
November 23, 2021



CCU Work Session Presentation

 CCU Resolution for Approval

GPA GRID TRANSFORMATION SOLUTIONS TOWARD A HIGHLY RESILIENT, RELIABLE, AFFORDABLE





























11. New Power Plant Update: GPA Activities

Completed:

- ECA Amendment: Signed on March 17, 2021.
- Archaeological & Cultural Requirements:
 - ✓ Revised Research Design for pipeline and transmission line routes submitted to GHPO
 - ✓ Revised Archaeological Inventory Survey
 - ✓ Resolution on Section 106 process between Navy/SHPO/GPA
 - Cultural Survey for boring scope fuel/water/power project areas outside the plant site boundary

Environmental Requirements:

Baseline noise study for Piti 41 MW diesel generator plant site.

Ongoing / Pending:

- Archaeological & Cultural Requirements:
 - Section 106 process for cultural survey on Navy properties (bull cart trails along pipeline route and Harmon Substation)
 - Cultural Survey for construction area. (Evaluation of <u>Pedonlisong Springs near</u> San Miguel School in <u>Mongmong-Toto</u> area for non-cultural site boundaries)
 - Cultural survey and boring for proposed site in Piti for diesel generator relocation

· Water & Wastewater Requirements:

- ✓ Water Supply and Discharge Agreement Review
- Coordinate with GWA on Change of Law issues due to update NPDES permit affecting discharge of wastewater from cooling system
- Follow up with KEPCO-EWP/Doosan on phosphate treatment proposal to address change in law issue.

Other:



Critical Path & Risk Items

Cultural Survey

(SHPO Approvals Required)

- Approx. 17 miles of pipeline requires approval for boring and construction excavation.
- Pipeline construction research design development and GHPO approval
- Section 106 process required for Navy properties

Delays on permit approvals

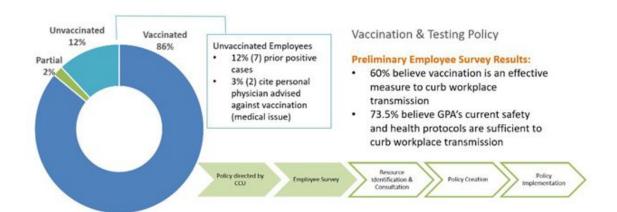
- Construction Permits
- Air Permits
- NPDES Permit

Construction Mitigation

For any wetland, biological, cultural or other findings during construction (unknowns)



12. COVID-19 Vaccination:



Streetlights:

- Basically, all streetlights have been converted to LED
- Significantly reduced cost to DPW from conversion
- DPW authorized the installation of additional LED streetlights for FY22.
- DPW FY22 budget increased to about \$5.4M
- Additional streetlight materials are being procured.
- Additional lights will improve public safety for the community.

Emergency Rental Assistance (ERA) Program:

- As of 9/16/2021: \$695,566.96 paid toward qualified customer past-due balances.
- \$587,547.68 (16 batches) received; \$108,019.28 pending receipt (2 batches).

Five Federal Grants Awarded to GPA in FY 2021

Diesel Emissions Reduction Act (DERA) - USEPA

- \$250,000.00 awarded for Diesel Engine Replacement & Powerhouse Upgrade for the Diesel Bucket Truck Replacement Project
 - **Grant Writers:**
 - William Mafnas, Engineer II (primary writer) Jessica Lazatin, Engineer II Victor A. Torres, Engineer II (former writer) John J. Cruz, Jr., P.E., AGMET

Technical Assistance Program (TAP) - DOI/OIA

- \$208,750.00 awarded for Guam's Critical Energy Infrastructure & GPA's Energy
 - Engineering Training & Certification Program
 - Grant Writers:
 - Jessica Lazatin, Engineer II (primary writer) John J. Cruz, Jr., P.E., AGMET Sandra Perez, HR Manager

Energizing Insular Communities (EIC) program - DOI/OIA

- \$1,446,464.00 awarded for UOG's LED lighting upgrades, HVAC controls and solar PV generation & Tamuning Elementary school's LED lighting upgrades.

 Grant Writers:
 - Victor A. Torres, Engineer II (primary writer) Jennifer Sablan, P.E., SPORD Manager John J. Cruz, Jr., P.E., AGMET







2021 Diesel Emissions Reduction Act (DERA) - #EPA-OAR-OTAQ-21-04

- · \$250,000 in federal assistance to support the Diesel Engine Replacement and Powerhouse Upgrade for the Diesel Bucket Truck Vehicle Replacement project received full United States Environmental Protection Agency (EPA) funding.
- · GPA is taking the lead for Guam with completing a comprehensive assessment of the impact of electric vehicles upon Guam's power grid, to ensure that GPA meets Guam's future energy needs, including providing energy at the lowest possible cost(s) to directly benefit all our customers. We are advancing to upgrade our current vehicle fleet, from one that mostly runs on gasoline and diesel fuel, to an all-electric vehicle fleet. As the nation faces one of the most important air quality challenges of reducing emissions, GPA is committed to doing its part to comply with the Diesel Emission Reduction Act

Department of Interior (DOI) under the Office of Insular Affairs (OIA)

Technical Assistance Program (TAP)

- \$159,200 awarded to GPA for the Comprehensive Security Plan for Guam's Critical Energy Infrastructure. The development of the plan will help strengthen GPA's physical and cybersecurity posture to meet and exceed industry standards.
- \$49,550 awarded to GPA for the Energy Engineering Training & Certification Program

Energizing Insular Communities (EIC) Program

- \$1,291,938 for energy upgrades at the University of Guam, including LED lighting upgrades, energy-efficient HVAC controls, and solar PV generation (BEST Schools Program).
- \$154,526 towards LED lighting upgrades at Tamuning Elementary School (BEST Schools Program).

5.2 Financials

August 2021 Monthly Financial Highlights



(in 1000)	Monthly Budget Revenues	Actual Monthly Revenues	Variance		PY FY20	CY vs PY Variance	
October	\$ 13,064	\$ 13,053	\$ (11)	1	\$ 13,440	\$ (386)	1
November	12,857	12,869	12	1	13,358	(489)	1
December	13,106	13,254	148	1	13,216	38	1
January	12,174	12,712	538	1	12,888	(176)	1
February	11,078	11,954	876	1	12,357	(403)	1
March	12,780	13,357	577	1	13,039	318	1
April	13,085	13,444	359	1	12,385	1,059	1
May	13,712	13,574	(139)	1.	13,550	24	1
June	13,682	13,121	(561)	1	13,176	(55)	1
July	13,708	13,534	(174)	1	13,514	20	T
August	13,180	14,729	1,550	T	13,220	1,510	T
September	12,574				12,567		
Total	\$ 155,000	\$ 145,602	\$3,176		\$ 156,709	\$ 1,460	



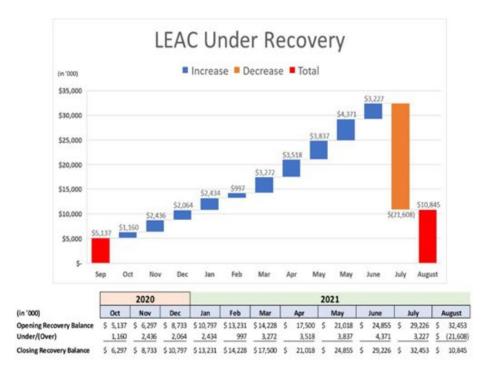
Budget (in mWh) Sales		Monthly Sales	Variance		PY FY20	CY vs PY Variance	
October	127,852	127,515	(337)	1	131,953	(4,438)	4
November	125,004	128,440	3,437	1	129,421	(981)	1
December	127,563	128,053	489	1	128,958	(905)	1
January	118,299	129,208	10,909	1	126,130	3,078	T
February	107,268	115,199	7,930	1	115,346	(147)	1
March	124,649	129,958	5,309	1	125,185	4,773	10
April	127,762	125,268	(2,494)	1	120,688	4,580	1
May	135,527	137,960	2,433	1	130,531	7,430	1
June	133,849	137,774	3,925	1	130,987	6,787	1
July	134,332	136,012	1,680	1	133,116	2,896	1
August	128,752	130,812	2,060	1	129,337	1,475	1
September	122,569				121,927		
Total	1,513,426	1,426,199	35,342		1,523,579	24,547	-

August 2021 Monthly Financial Highlights (Continued) Fuel Revenues pa 700 26,000 24,000 October \$ 11.098 \$ 10,910 \$ (187) \$ 20,165 \$ 9,255) 22,000 10,850 10,984 134 19,088 (8,104)20,000 11,072 11,435 362 19,697 (8,262)18,000 10,268 11,335 1,067 18,820 (7,485)16.000 February 16,274 13,241 (3,033)13,701 14 000 March 18,911 14,442 (4,469)15,968 (1,526)12.000 19,383 13,932 (5,451)13,254 678 10,000 May 20,561 15,547 (5,014)14,001 1,546 8.000 20,307 15,770 (4,537)10,867 4,902 July 20,380 15,446 (4,934)9,935 5,511 August 16,352 15,685 (667)10,925 4,760 September 15,566 10,438 \$148,727 \$191,023 \$176,860 \$(17,695) O&M Costs page PY FY20 \$10,000 \$5,790 \$ 275 \$ (94) October \$ 5,515 \$5,421 \$9,000 80 5,572 November 5,469 5,389 184 5,334 5,645 (311)5,460 (185)\$8,000 December 5,857 5,620 5,521 January 237 (99)\$7,000 5,417 5,193 337 February 5,530 224 \$6,000 5,723 6,143 (508)March 6,231 (88)(679)(1,277)6,634 \$5,000 April 5,956 5,357 May 6,211 6,106 104 6,215 109 \$4,000 June 5,889 6,390 (501)5,578 (812)6.363 5.957 July 5,871 492 86 6,543 5,539 August 9.806 September 7.700 \$ 58,594 \$ (52) \$ 74,892 \$ 69,461 \$ (2,372)

August 2021 Monthly Financial Highlights (Continued)

Through July 31, 2021												
	1Q2019	2Q2019	3Q2019	4Q2019	1Q2020	2Q2020	3Q2020	4Q2020	1Q2021	2Q2021	3Q2021	4Q2021
Residential	43,920	44,144	44,329	44,479	44,203	44,509	45,069	44,191	44,503	44,575	45,247	45,317
Commercial	5,273	5,291	5,303	5,289	5,154	5,352	5,309	5,366	5,301	5,307	5,330	5,338
Government	1,090	1,074	1,075	1,070	1,072	1,059	1,061	1,081	1,063	1,060	1,049	1,058
Streetlights	1,151	1,152	1,138	1,138	1,135	1,128	1,139	1,132	1,133	1,132	1,132	1,134
Navy	1	1	1	1	1	1	1	1	1	1	1	1
Total	51,435	51,662	51,846	51,977	51,565	52,049	52,579	51,771	52,001	52,075	52,759	52,848

Debt service coverage (DSC) calculation-indenture	2018	2019	2020	2021
Senior lien coverage	2.53	1.78	1.42	1.69
Debt service coverage (DSC) calculation-IPP as O&M				
Senior lien coverage	1.65	1.46	1.23	1.63



5.3 Resolution 2021-25 Piti T-7 Power Transformer Purchase

If approved, this project will provide the replacement of the Piti Substation T-7 Power Transformer that failed in January 3, 2021. Transformer placed in service since the 1960s and is over 50 years old.

The new power transformer costs \$1,034,968.00 and will be delivered 8 months from receipt of purchase order. It will be funded with revenue funds.

Niagara Power Transformer Corp., Benson Guam Enterprises, Inc., R&D Marketing and EMB submitted bids for GPA's consideration under Bid Invitation No. GPA-042-21. Benson Guam Enterprises, Inc. was determined to be the lowest responsive bidder.

The GM said that his approving authority is \$1M and he is asking the CCU to approve this purchase. The PUC's threshold for approval is \$1.5M so this procurement will not need to go before the PUC. He will move forward with the procurement with the CCU approval only. He mentioned that it would take 32 weeks in lead time.

Comm. Santos motioned to approve Resolution 2021-25, second by Comm. Martinez.

In discussion Comm. Limtiaco said that Benson Guam was not necessarily the lowest responsive bidder there were two other bids lower than them. He asked the GM to explain. The GM said the 2 other bidders did not meet the qualification relative to specifications. One bidder did not include the technical training portion of the bid.

On the motion there were 4 ayes, 1 absent and the motion passed.

The GM reported that DPW lifted the stop order on the KEPCO project. Preliminary discussion said March-April 2022 will be new completion date. The power plant will only have 4-month impact on the next LEAC – Feb-July. The GM said this will help with the LEAC recovery – the KEPCO 8.55 cents vs. 17.2 cents.

Comm. Limtiaco asked how many days did the stop work order cause KEPCO, the GM said 37 days. Comm. Limtiaco pointed out that the delay was only a month and KEPCO's new commissioning deadline is extended from December 2021 to March 2022 – 3 months. The GM explained that KEPCO lost their financing for their short term construction. They met with the GM to manage expectations and the GM said that he would come back to the Commission with an update.

There was discussion on the work that GPA needs to do in advance relative to transmission lines and the GM said that this project is 90% completed the poles and lines are up already.

6. OTHER DISCUSSION

6.1 CCU Rules Update - This matter was not discussed.

6.2 * Public Notices

Legal Counsel Rojas mentioned that the Commission wanted to ensure that this board remained compliant with open government notices. This came about due to recent passage of P.L. 36-34 in July – it created 3 amendments – 1 – live streaming. Relative to this matter she found that the CCU has been in compliant even before the law was passed. She reported that the CCU's website is user friendly and the live-streaming of Commission meetings which the website does provide. This board is compliant and is in the meeting notices and on the website. 2 – the legislature voided actions that are non-compliant. The legislation requires the agenda contains specific detail to put the public on notice. She said our agendas are very clear as to actions to be taken. The law requires that non action items like General Manager Report, Financial Report – these are fine the way it is written.

Comm. Limitaco recommended that the GM Report be more detailed to speak of the various divisions i.e. Operations, Financials, Engineering etc.

Comm. Santos asked about "paid for by government funds" and are we in compliance. Counsel Rojas said this is a good question and they will research this further and report back to the Commission.

7. ANNOUNCEMENTS

7.1 Next CCU Meetings

The Chairman announced that the next CCU meeting would be a work session for GWA on October 19; a work session for GPA on Oct. 21 and the regular monthly CCU meeting on October 26.

8. ADJOURNMENT	
There being no other business to bring bef	ore the Commission the meeting adjourned at 7:06
p.m.	
\\s\\	
Bls	
Attested	
JOSEPH T. DUENAS, Chairman	MICHAEL T. LIMTIACO, Secretary

GM REPORT

October 2021





Generation Status

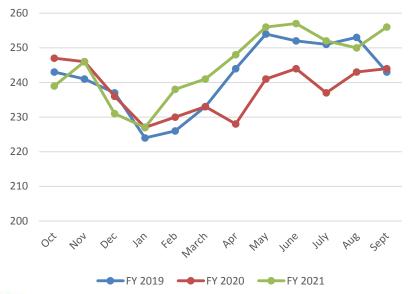
Reserve Margin Forecast for October 2021:

Projected Available Capacity: 319 MW
Projected Demand: 243 MW
Anticipated Reserve Margin: 76 MW

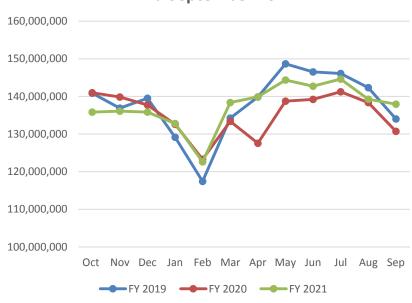
*Piti Unit #9 undergoing scheduled overhaul. ECD 11/11/2021

2. FY 2021 Production Characteristics:





Net kWh Generation Thru September 2021



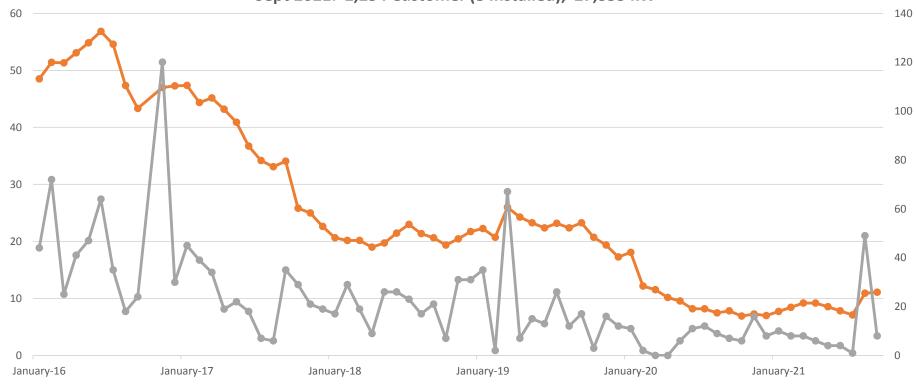




Net Metering

3. Net Metering (NEM) Growth Thru Sept 2021:

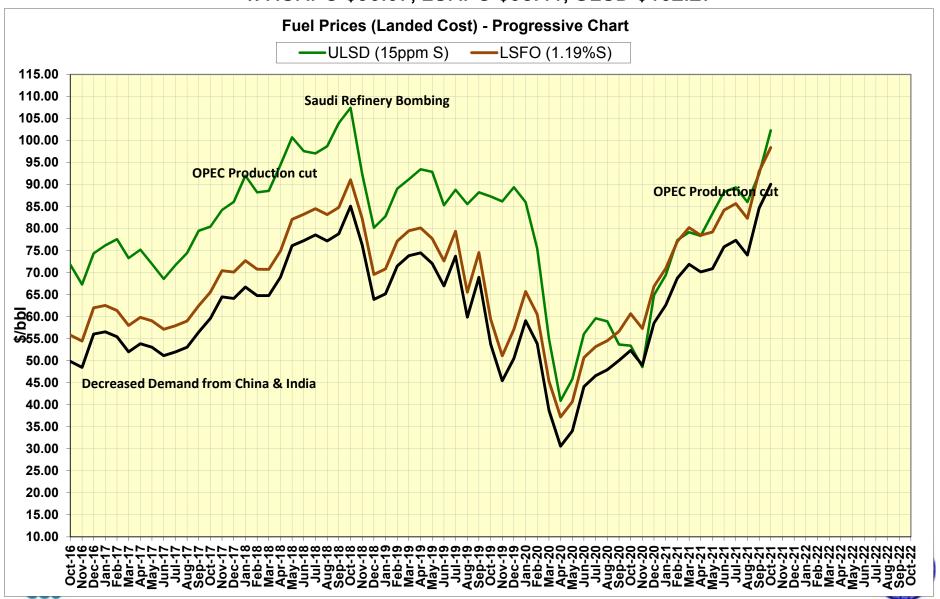
Monthly NEM GROWTH Sept 2021: 2,254 Customer (8 Installed); 27,355 kW







4. HSRFO \$90.07; LSRFO \$98.41; ULSD \$102.27

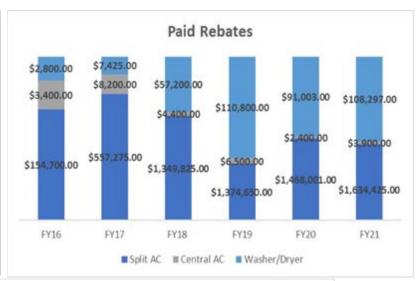


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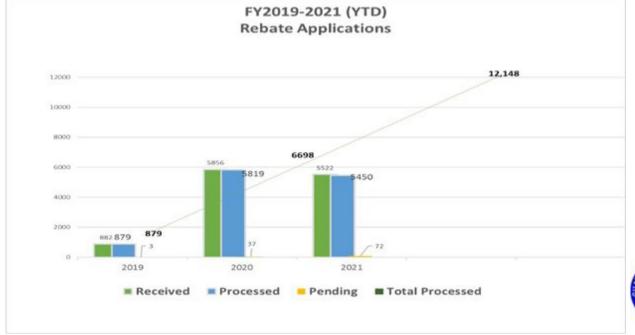
Demand Side Management (DSM)

5. DSM Funding as of Sept 30, 2021:

	FY'21 FY'16-FY21 YTD				
		thru 9/30/21		TOTAL	
Regular/OT Pay	\$	160,464.20	\$	318,308.20	4.2%
Other Contractual	\$	72,650.00	\$	306,481.05	4.0%
Ads & Radio Announcements	\$	-	\$	9,000.00	0.1%
Paid Rebates-Split AC	\$	1,634,425.00	\$	6,538,876.00	86.3%
Paid Rebates- Central AC	\$	3,900.00	\$	28,800.00	0.4%
Paid Rebates- Washer/Dryer	\$	108,297.00	\$	377,525.00	5.0%
Total Expenses	\$	1,979,736.20	\$	7,578,990.25	
Bank Interest (+)	\$	269.04	\$	6,059.66	
Bank Fees	\$	425.00	\$	5,647.32	
DSM Ending Balance (LEAC Funds): \$1,577,757.55					



6. DSM Rebate Application Report 2019 to 2021:







General Manager's Report (cont'd)

7. PUC Update:

Current GPA Dockets on PUC Agenda (October 28, 2021):

 GPA Docket 22-01, Petition for Approval of Property Insurance Contract Extension with DB Insurance Co., Ltd.

Disposition of Previous GPA Dockets:

 GPA Docket 21-16, Petition to Approve the Contract with Tristar Terminals Guam, Inc. for the Lease of an Additional Storage Tank for ULSD Diesel Fuel for Piti 8 & 9 supply source.- Approved

8. Legislative Update:

- Senator San Agustin introduced two (2) legislative bills on behalf of GPA on Wednesday, October 13, 2021.
 - Bill 212-36 (COR): An Act to Approve the Terms and Conditions of Guam Power Authority Revenue Bonds to Refund Outstanding Guam Power Authority Revenue Bonds.
 - Bill 213-36 (COR): An Act to Add New §§8119(A) to Chapter 8, Title 12, Guam Code Annotated, Establishing an Exemption for the Construction of New Forty-One Megawatt Cabras Ultra Low Sulfur Diesel Units on Lot 261 and 257, U.S. Navy Apra Harbor Reservation.

9. Memorandum of Agreement (MOA) GDOE/GPA Partnership:

MOA executed. Pre-project kick-off meeting scheduled for October 21, 2021.

10. Ukudu Power Plant Zone Variance (Height) Application:

Approved by the Guam Hybrid Land Use Commission on October 14, 2021.



11. New Power Plant Update: GPA Activities

Completed:

- ECA Amendment: Signed on March 17, 2021.
- Archaeological & Cultural Requirements:
 - ✓ Research Design for pipeline and transmission line routes submitted to GHPO
 - ✓ Resolution on Section 106 process between Navy/SHPO/GPA
 - ✓ Cultural Survey for boring scope fuel/water/power project areas (outside of plant)
- Environmental Requirements:
 - ✓ Baseline noise study for Piti 41 MW diesel generator plant site.

Ongoing / Pending:

- Archaeological & Cultural Requirements:
 - ✓ Revised Archaeological Inventory Survey (Additional comments received Oct. 5)
 - ✓ Section 106 process for cultural survey on Navy properties (pipeline route and Harmon Substation)
 - ✓ Cultural Survey for pipeline construction area. (Evaluation of Pedonlisong Springs near San Miguel School in Mongmong-Toto area for non-cultural site boundaries)
 - ✓ Cultural survey and boring for proposed site in Piti for diesel generator relocation
- Water & Wastewater Requirements:
 - ✓ Water Supply and Discharge Agreement under GWA Review
 - ✓ Change of Law issues due to update GWA NPDES permit affecting discharge of wastewater from cooling system
 - ✓ Follow up with KEPCO-EWP/Doosan on phosphate treatment proposal (change in law)
- Permit & Drawing Reviews:
 - ✓ Several construction permits received: temporary power (office/construction), new pipeline construction, new plant construction (phases 1-3)
- Site Inspections:
 - ✓ Inspection/monitoring of plant site (Ukudu) clearing/grading and cleaning of the Tanguisson fuel pipeline.

Critical Path & Risk Items

Cultural Survey

(SHPO Approvals Required)

- Approx. 17 miles of pipeline requires approval for boring and construction excavation.
- Pipeline construction research design development and GHPO approval
- Section 106 process required for Navy properties

Delays on Permit Approvals

- · Construction Permits
- Air Permits
- NPDES Permit

Construction Mitigation

 For any wetland, biological, cultural or other findings during construction (unknowns)

Zone Exemption

 Bill No. 213-36 (COR) was introduced by Senator San Agustin for the Buffer Zone Exemption for Piti 41MW diesel generator plant site (GPA).

INTERIM UPDATE

12. Renewable Energy - Integrated Resource Plan (IRP) & NEM Studies

DSM Update:

- ✓ Existing Program Rebate Levels Reset Completed
- DSM Plan Update Completed
- EV Plan Completed

Generation System Reliability & Adequacy:

- ✓ Power Plant and System Capacity State Models Completed
- √ Analysis without ESS Completed
- ✓ Analysis with ESS Completed
- ✓ RPS to 50% by 2029 Plan Completed

Strategic Plan: Completed

- Environmental Strategic Plan Update Completed
- IT Strategic Plan Completed
- √ IT Consolidation Plan Completed

Capacity Plan:

- √ Candidate Resources Completed
- ✓ Peak Load and Energy Forecast Completed
- √ Generation Hourly Load Forecast Completed
- √ Capacity Expansion Runs Completed
- Final Draft Report - Completed

Frontier Project:

√ Project Summary - Completed

Affordable Reliable Clean

Distribution Plan:

- ✓ Distribution Models Verification Completed
- ✓ Transformer Overloads Completed
- √ Capacity Contribution Completed
- √ Voltage Imbalance Completed
- ✓ System Voltage Analysis Completed
- ✓ Automated Switching & Fault Circuit Indicator Comm Study - Completed
- ✓ Solar Irradiance Sensor Network Plan Completed
- Ongoing; L+G to advise
 - Load Flow Studies
 - NEM Growth Impacts
 - Conservation Voltage Reduction
 - Demand Response

Long Range Transmission Plan Study:

- ✓ Summaries of Renewal Integration Study & System Impact Studies - Completed
- ✓ Grid Controller Completed

UFS NEM Rate Study:

Net Metering Rate - Ongoing, Final Draft in Review, Will incorporate L+G results when available.





12. Renewable Energy - Integrated Resource Plan (IRP)

Schedule Summary

VOLUME	VOLUME TITLE	STATUS/DATE
Executive Summary	Executive Study	Oct 1, 2021
Volume 1	Generation System Reliability, Adequacy, and Resiliency	Final
Volume II	Generation Expansion Plan	Final
Volume III	Environmental Strategic Plan	Final
Volume IV	Demand Side Management Plan	Final
Volume V	Medium Range Distribution Plan	TBD
Volume VI	Information/Operational Technology Plan	Final
Volume VII	Strategic Plan	Final
Volume VIII	Electric Vehicle Roadmap	Final
Volume IX	Net Metering Plan	Final Draft

GPA GRID TRANSFORMATION SOLUTIONS TOWARD A HIGHLY RESILIENT, RELIABLE, AFFORDABLE AND HIGH RENEWABLE ENERGY PRODUCTION GRID



Charge/Discharge-Anytime Battery Energy Storage Systems (BESS) - Provides spinning reserve and frequency regulation. Greatly improves grid response to FIDVR, duck curve ramp ups, and excess solar PV production events. Provides other grid services.



Time-of-Use (TOU) Rates - Provides incentives for customers to change their electricity-use behavior to match the needs of the grid.



Flexible Efficient Generation - Better follows the changes in demand and available generation online especially when large informittent sources of power are on the grid. Reduces power rates.



Daytime Charging Electric Vehicles (EV) – Prevents curtailment of synchronous generation and solar PV during excessive solar PV production events when solar PV production is high and daytime loads are low. Slows growth of system peak deferring expensive investments for new calacity.



Energy Shifting Battery Energy Storage Systems (ES BESS) - Decreases Excess Solar PV Production Events by storing 100% of energy for righttime use: Replaces expensive production from peaking generation.



Microgrids - Using synchronous generators and Solar PV + energy-shifting battery energy storage systems with grid forming capability to provide power after natural disasters such as typhoons especially in southern Guam.



Demand Response (DR) - Adjusts customer demand up or down however needed by the grid.



Grid Controller - Optimizes all resources to provide the most benefit at the least cost. Improves system stability and system economics.



Synchronous Condensers (SC) - Provides Short-Circuit MVA to power system to keep the grid stable, prevents grid-tied inverter cessation, improves fault response and voltage, and allows GPA grid to operate with 100% renewable energy.



Solar Irradiance Sensor Network - Provide real-time estimates of solar PV power production. Forecast solar PV power production. Track cloud cover.



Smart Grid (SG) - Advanced technology for getting the right information to the right people or systems at the right time to make better strategic and operational decisions and to make the right control operations actions immediately.



System Protection - Improve System Protection to operate in an environment with less synchronous generation and more inverter based resources.



Energy Efficiency - Energy efficiency has a much higher rate of return than just simply installing solar PV. Putting energy efficiency first lowers energy costs for everyone.



Improving Generator Reliability - Improving GPA generator availability results in serving more load using less generation. It also significantly lowers energy costs.

November 18, 2021

January 25, 2022



 CCU Resolution for Approval



12. Renewable Energy - Integrated Resource Plan (IRP)

GPA AFFORDABILITY TRANSFORMATION SOLUTIONS



Guam Transportation Electrification - Electric vehicles charging from the grid will increase GPA revenues allowing GPA to reduce rates for everyone. Reduces GPA fleet expenses for fuel



Energy Efficiency - Energy efficiency has a much higher rate of return than just simply installing solar PV. Putting energy efficiency first lowers energy costs for everyone.



Improving Generator Reliability - Improving GPA generator availability results in serving more load using less generation. It also significantly lowers energy costs.



Flexible Efficient Generation - Better follows the changes in demand especially when large intermittent sources of power are on the grid. Reduces LEAC rates especially when using natural gas.



Daytime Charging Electric Vehicles (EV) -Slows growth of system peak deferring expensive investments for new capacity resulting in lower future energy costs.



Smart Grid (SG) - Smart Grid systems such as Mobile Workforce Management, Advanced Grid Analytics, Distribution Automation increase work productivity reducing energy costs passed onto



Energy Shifting Battery Energy Storage Systems (ES BESS) - Decreases Excess Solar PV Production Events by storing 100% of energy for nighttime use: Replaces expensive production from peaking generation. Lowers and stabilizes LEAC rates.



GPWA Information/Operations Technology (IT/OT) Consolidation - Reduces IT/OT capital and operating costs for GPA and GWA. Reduces costs passed onto customers.



Conservation Voltage Reduction (CVR) -Reduces distribution system line losses lowering LEAC rates.



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GPA CUSTOMER EXPERIENCE TRANSFORMATION SOLUTIONS



Guam Transportation Electrification - As customers switch to electric vehicles, their relationship with GPA becomes more critical. Designing the charging experience to delight experience.



Energy Efficiency - Energy efficiency has a much higher rate of return than just simply installing solar PV. Customers who get rebates or who have better knowledge of the Energy Sense. Appliance Rebate Program do not rate GPA as a company unsatisfactory. Getting rebates is a highly positive oustomer experience.



Energy Shifting Battery Energy Storage Systems (ES BESS) - Using BESS to provide spinning reserve and frequency regulation improves power quality and reduces customer outages improving GPA customer experience. GPA addition of renewable energy improves customer satisfaction with GPA as a company.



Smart Grid (SG) - Smart Grid systems such as reduce outages improving the GPA customer experience.



Conservation Voltage Reduction (CVR) -Reduces distribution system line losses lowering LEAC rates.



Conversion of Hanual Customer-Facing Processes to Digital Ones - Customer expectations for service are being driven by the telecom, virtual commerce, and entertainment industries. Making these conversions updates and improves the customer experience of GPA service.Examples of these are online payment portals, mobile apps, and Energy Sense online rebate application processing.



Customer Outreach - Customers want to be informed about GPA outages, rates, and other GPA matters. Building this outreach improves GPA's relationships with its customers. It also defuses disinformation.



Energy Sense Program Outreach - Customers want to be informed about energy efficiency. renewable energy, and ways to lower their power bills. Building this outreach improves GPA's relationships with its customers.



GPMA Information/Operations Technology (IT/OT) Consolidation - Reduces IT/OT capital and operating costs for OPA and OWA. Reduces costs passed onto customers.





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12. Renewable Energy - Integrated Resource Plan (IRP)

GPA DIGITAL TRANSFORMATION SOLUTIONS

GPMA Information/Operations Technology (IT/OT) Consolidation - A secure, reliable, and responsive IT/OT infrastructure supported by a skilled and capable staff is critical for supporting GPA's Strategic Transformation.



Smart Grid (SG) - The technology enabler for driving operational improvements and efficiencies. The Smart Grid makes possible the transition of GPA manual processes into information-based. digitally enhanced automated processes through controls and sensors that enable reliability and resiliency in providing power to GPA's customers.

Creating Organizational Alignment & Fit -Creating a more skilled, resilient, streamlined. and effective organization through process mapping & re-engineering leveraging information and operational technology is the end goal for digital transformation.



Energy Sense Program Outreach - Customer expectations are driven by the customer connection capabilities of the telecom. streaming entertainment, and virtual shopping industries. Building this outreach through relevant content improves OPA's relationships with its customers. The conversion of the manual Energy Sense Rebate Application process to a digital platform supports the objective of digital





Simulation and the Digital Twin - In response to extreme instural events, the ability to work remotely along with utilize real-time simulation through a Digital Twin of an energy system allows. for continuous learning to GPA engineers and operators.



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GPA FOUNDATIONAL INFRASTRUCTURE SOLUTIONS



Human Resource Rebalancing - GPA will soon retire several power plants beginning with Cabras 1&2. GPA must plan to rebalance its workforce considering the displacement of these employees. This must be well in advance of the actual plant retirements.



Succession Planning - With over 50% of its workforce eligible to retire within five years, GPA must hire and train new employees to take over. GPA must update its job descriptions and eligibility requirements moving these jobs into the 21st century. Many jobs will have changed because of digital transformation and technology.



Grid Transformation Solutions - Without completion of Grid Transformation Projects, the grid will not be stable, reliable, resilient, and affordable.



Smart Grid (SG) - Smart Grid systems is the information highway driving operational improvements and efficiencies.



PWA Information/Operations Technology (IT/OT) Consolidation - A secure, reliable, and responsive IT/OT organization and infrastructure is critical for supporting GPA's Strategic Transformation.



Aging T&D Infrastructure Replacement - Like all other U.S. power utilities. GPA must plan for replacing its aging infrastructure. GPA should nvest in an Asset Management ERP capability to guide and manage the replacement process.



Creating Organizational Alignment & Fit -Creating a more resilient, streamlined, and effective organization through process mapping & re-engineering coupled leveraging information technology supporting digital transformation.



Improving Generator Reliability - Achieving GPA generator availability to 95% is a cornerstone for grid resiliency, reliability, and affordability.



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General Manager's Report (cont'd)

13. COVID-19 Vaccination:

Unvaccinated 9% Unvaccinated **Employees Partial** • 15% (6) prior 1% positive cases • 8% (3) medical reason • 5% (2) religious reasons [1 pending DPHSS response] **Vaccinated** 90%

In-House Testing & Digital Administrative Platform

Employees make testing appointment via online portal



Perform in-house rapid testing





ANTIGEN

MOLECULAR

SMS notification to view and store results on secured online platform

Your Covid-19 Test result is now available. The confirmation number is C25iii.7, click here to retrieve https://www.incomestick.net/retrieve





General Manager's Report (cont'd)

14. Emergency Rental Assistance (ERA) Program:

• \$848,435.02 payments received by DOA for payment toward customer accounts, as of October 18, 2021

15. Major Projects to Enhance Customer Experience:

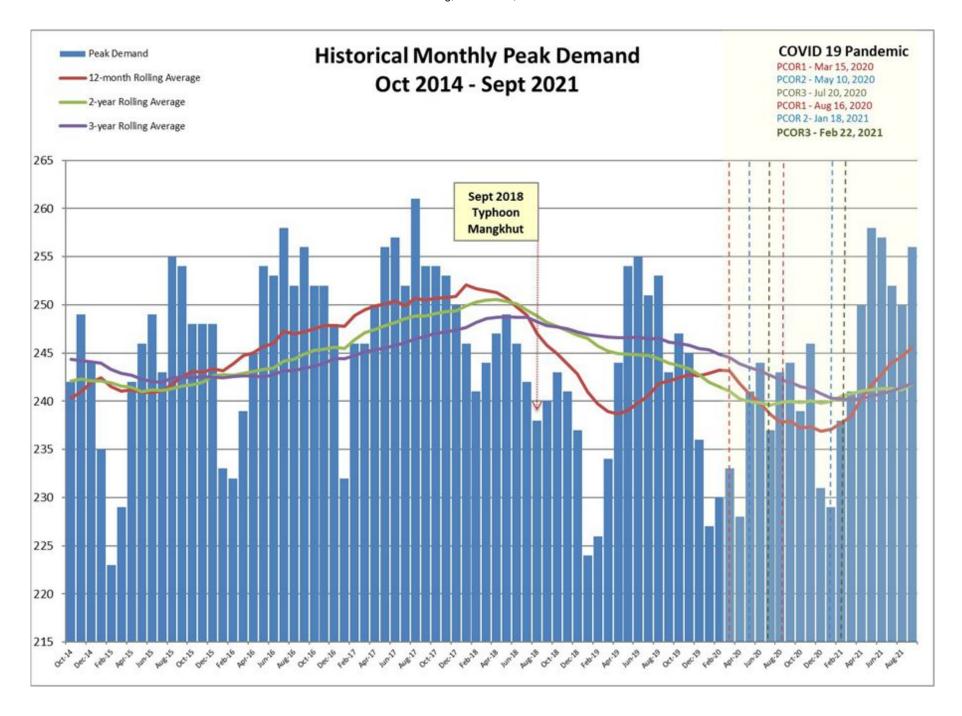
- GPA DSM Digitization Online and Mobile Application System:
 - Development is 80% complete. User Acceptance Testing (UAT) phase on-going. Go-Live is estimated around end of November 2021.
- GPWA Mobile App Bill Payment Solution:
 - New mobile pay app will offer convenient features currently available on PayGPA.com & PayGWA.com. Launch targeted for end October 2021.
- Customer Self-Service Portal:
 - New customer portal will offer online utility service requests, tracking, and edocumentation. Project kick-off targeted for November 2021.
- Customer Engagement Survey:
 - Qualitative surveys of residential and commercial customers completed early October 2021. Summary and resulting projects will be provided at Nov 2021 CCU meeting.

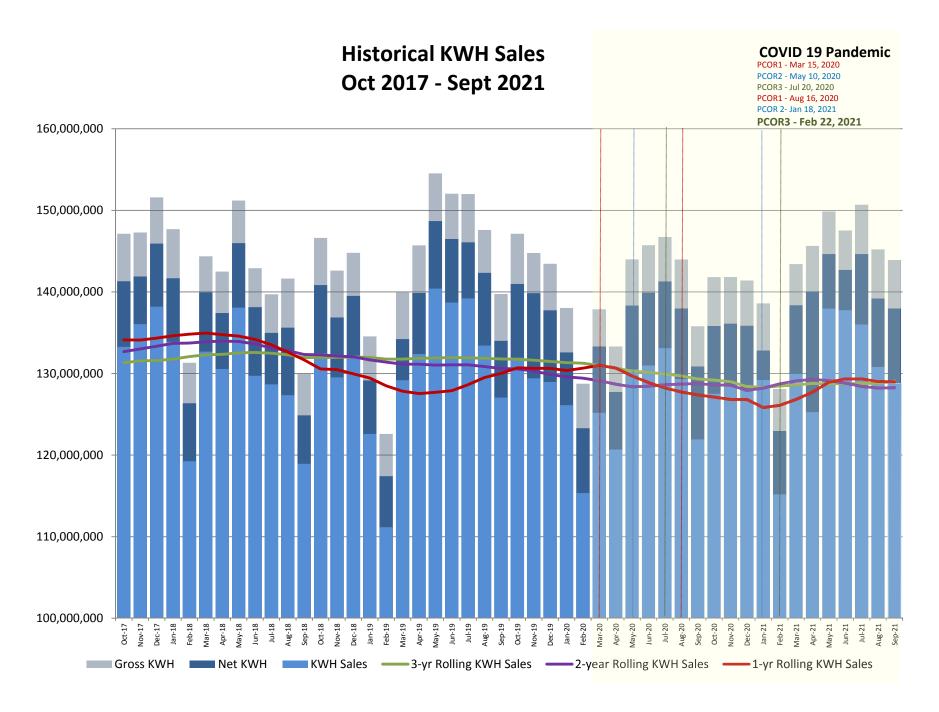
16. Generation KPIs:

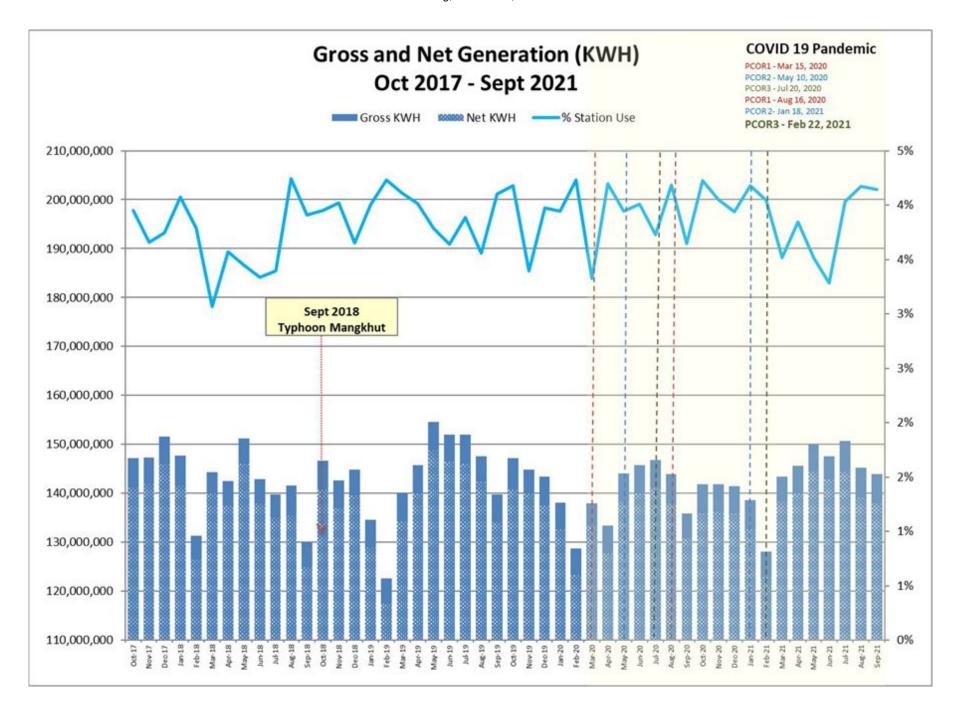
The following graphs show updated information through Sept 2021:

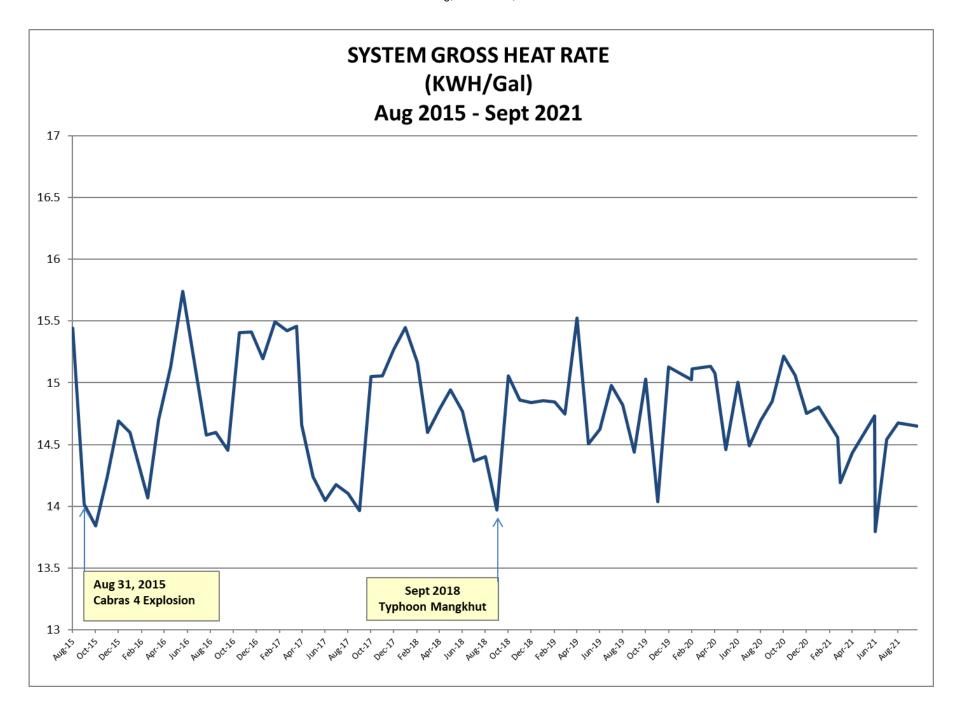








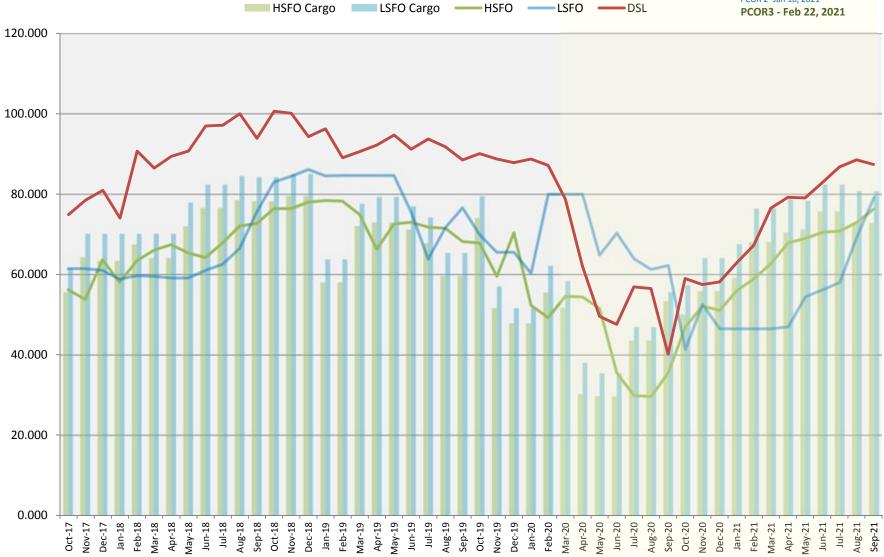




Fuel Cargo and Fuel Consumption Costs (\$/bbl) Oct 2017 - Sept 2021

COVID 19 Pandemic

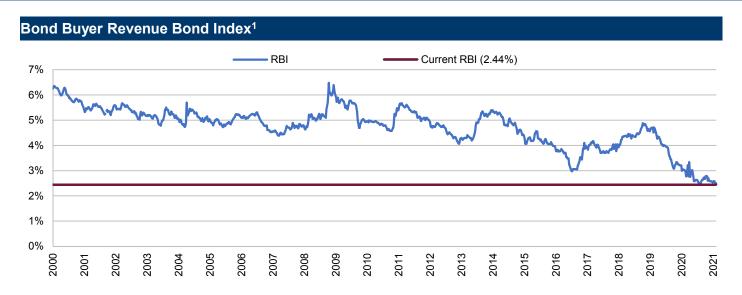
PCOR1 - Mar 15, 2020 PCOR2 - May 10, 2020 PCOR3 - Jul 20, 2020 PCOR1 - Aug 16, 2020 PCOR 2- Jan 18, 2021



2021 BOND REFUNDING

Bill 212-36 (COR): An Act to Approve the Terms and Conditions of Guam Power Authority Revenue Bonds to Refund Outstanding Guam Power Authority Revenue Bonds

2012 Bond Refunding

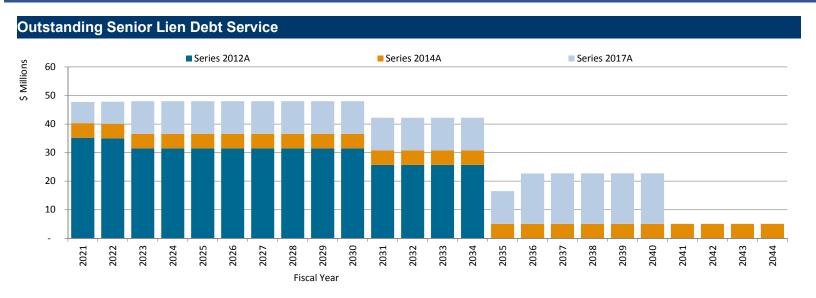


Background:

- GPA's 2012 Series A Bonds are currently outstanding in the principal amount of \$305.74 million at a rate of 5.00%, with \$265.08 million callable beginning October 1, 2022
- Under federal tax law, a tax-exempt refunding of these bonds may close no earlier than 90 days prior to the call date (i.e., early July 2022)
- Interest rates are at their all-time lows and importantly are much lower than when GPA issued its 2012 Bonds (see chart above)
- Interest rates can be secured now on a forward-delivery basis for a rate premium of around 5 basis points per month







Opportunity: Tax-Exempt Advance Refunding

- GPA could take advantage of today's historically low interest rates by executing a tax-exempt refunding now for settlement in July 2022
- Barclays will use its own balance sheet to purchase the bonds directly from GPA eliminating the need for a POS, investor road show and marketing program so GPA achieves better certainty of execution for less effort
- Interest rate risk removed; rates would be secured in 2021 and fixed for delivery in July 2022
- Savings are locked in now
- No need to produce an official statement now (must be produced near delivery in 2022)





Tax-Exempt Forward Refunding Timeline

Tax-Exempt Forward Refunding

July 3, 2022 Earliest Date to Close Refunding

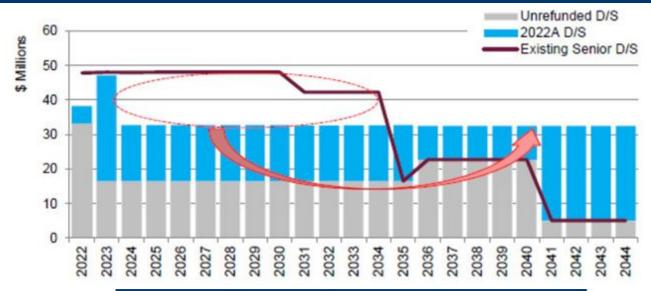


Deliver Final OS



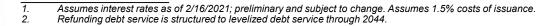


Scenario A: Series 2012 Restructuring to Maximize Savings in 2024-2030^{1,2}



Summary of Refunding Resu	Its
Closing Date	7/6/2022
Total New Par Amount	\$230,730,000
Par Refunded	\$285,795,000
All-In TIC of Bond Series	3.35%
Existing Aggregate MADS	\$48.00 million
New Aggregate MADS	\$47.16 million
Required D/S Reserve Deposit/(Reduction)	(\$0.84) million
Refunding Statistics	
Avg. Annual Cash Flow Savings, FY 2024-2030	\$15.3 million
NPV Savings	\$14.0 million
NPV Savings as % of Refunded Par	4.91%







Amortization Schedule

Year	S	Series 2014A		Series 2017A		Series 2022A		Total				
Ending						_			_			_
10/1	Principal	Interest	Total	Principal	Interest	Total	Principal	Interest	Total	Principal	Interest	Total
2020	1,520,000	3,567,000	5,087,000	0	7,417,750	7,417,750			0	20,515,000	27,221,500	47,736,500
2021	1,595,000	3,491,000	5,086,000	0	7,417,750	7,417,750			0	21,540,000	26,195,750	47,735,750
2022	1,675,000	3,411,250	5,086,250	315,000	7,417,750	7,732,750	2,315,000	2,723,896	5,038,896	26,330,750	20,697,771	47,028,521
2023	1,755,000	3,327,500	5,082,500	4,050,000	7,402,000	11,452,000	19,210,000	11,420,750	30,630,750	25,015,000	22,150,250	47,165,250
2024	1,845,000	3,239,750	5,084,750	4,245,000	7,199,500	11,444,500	5,735,000	10,460,250	16,195,250	11,825,000	20,899,500	32,724,500
2025	1,935,000	3,147,500	5,082,500	4,460,000	6,987,250	11,447,250	6,025,000	10,173,500	16,198,500	12,420,000	20,308,250	32,728,250
2026	2,035,000	3,050,750	5,085,750	4,680,000	6,764,250	11,444,250	6,325,000	9,872,250	16,197,250	13,040,000	19,687,250	32,727,250
2027	2,135,000	2,949,000	5,084,000	4,920,000	6,530,250	11,450,250	6,635,000	9,556,000	16,191,000	13,690,000	19,035,250	32,725,250
2028	2,245,000	2,842,250	5,087,250	5,165,000	6,284,250	11,449,250	6,965,000	9,224,250	16,189,250	14,375,000	18,350,750	32,725,750
2029	2,355,000	2,730,000	5,085,000	5,425,000	6,026,000	11,451,000	7,320,000	8,876,000	16,196,000	15,100,000	17,632,000	32,732,000
2030	2,470,000	2,612,250	5,082,250	5,695,000	5,754,750	11,449,750	7,685,000	8,510,000	16,195,000	15,850,000	16,877,000	32,727,000
2031	2,595,000	2,488,750	5,083,750	5,980,000	5,470,000	11,450,000	7,935,000	8,125,750	16,060,750	16,510,000	16,084,500	32,594,500
2032	2,725,000	2,359,000	5,084,000	6,280,000	5,171,000	11,451,000	8,330,000	7,729,000	16,059,000	17,335,000	15,259,000	32,594,000
2033	2,860,000	2,222,750	5,082,750	6,590,000	4,857,000	11,447,000	8,805,000	7,312,500	16,117,500	18,255,000	14,392,250	32,647,250
2034	3,005,000	2,079,750	5,084,750	6,920,000	4,527,500	11,447,500	9,240,000	6,872,250	16,112,250	19,165,000	13,479,500	32,644,500
2035	3,155,000	1,929,500	5,084,500	7,265,000	4,181,500	11,446,500	9,805,000	6,410,250	16,215,250	20,225,000	12,521,250	32,746,250
2036	3,315,000	1,771,750	5,086,750	13,815,000	3,818,250	17,633,250	3,845,000	5,920,000	9,765,000	20,975,000	11,510,000	32,485,000
2037	3,480,000	1,606,000	5,086,000	14,515,000	3,127,500	17,642,500	4,030,000	5,727,750	9,757,750	22,025,000	10,461,250	32,486,250
2038	3,655,000	1,432,000	5,087,000	15,235,000	2,401,750	17,636,750	4,235,000	5,526,250	9,761,250	23,125,000	9,360,000	32,485,000
2039	3,835,000	1,249,250	5,084,250	16,000,000	1,640,000	17,640,000	4,450,000	5,314,500	9,764,500	24,285,000	8,203,750	32,488,750
2040	4,025,000	1,057,500	5,082,500	16,800,000	840,000	17,640,000	4,675,000	5,092,000	9,767,000	25,500,000	6,989,500	32,489,500
2041	4,220,000	865,450	5,085,450			-	22,545,000	4,858,250	27,403,250	26,765,000	5,723,700	32,488,700
2042	4,420,000	664,050	5,084,050			-	23,670,000	3,731,000	27,401,000	28,090,000	4,395,050	32,485,050
2043	4,630,000	453,050	5,083,050			-	24,855,000	2,547,500	27,402,500	29,485,000	3,000,550	32,485,550
2044	4,855,000	231,950	5,086,950			-	26,095,000	1,304,750	27,399,750	30,950,000	1,536,700	32,486,700





Cost Reduction Strategy for New Power Plant

- Bond Refunding
- Retirement of Generating Units
- Reduction of Insurance Premiums
- Fuel Savings

Steps Required to Advance Refund 2012 Bond

- CCU approval.
- PUC approval.
- New legislation.





RESOLUTION 2021-08 (Board Approved April 27 2021)

Bond Issuance to Refund the Outstanding Revenue Bonds

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

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 GPA's 2012 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. The current scenario of low interest rate warrants action from the CCU. After reviewing this strategy with Barclays, GPA Bond Counsel, and GEDA, GPA believes this strategy has potential for providing significant benefit for GPA ratepayers. The CCU desires to pursue this plan for refund GPA's debt service costs in order to provide a net present value savings to ratepayers.

How much will it cost?

The present value of debt service on the refunding bonds shall 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.





EXEMPTION FOR CONSTRUCTION OF 41MW CABRAS UNIT

Bill 213-36 (COR): An Act to Add New §§8119(A) to Chapter 8, Title 12, Guam Code Annotated, Establishing an Exemption for the Construction of New Forty-One Megawatt Cabras Ultra Low Sulfur Diesel Units on Lot 261 and 257, U.S. Navy Apra Harbor Reservation.

Applicability of PL-22-23 On 41MW Diesel Plant at Cabras



John M. Benavente, P.E. General Manager Guam Power Authority

Cabras 41MW Diesel Plant Siting at Cabras

Cabras site properties transferred to GPA from Navy for use for power plants and related facilities:

- Cabras1&2 units currently burn 2.0%S RFO
- Piti 8&9 currently burn 2.0%S RFO
- Piti 7 currently burn 0.0015%S ULSD
- 41MW plant to be constructed by KEPCO as reserve for system as part of Ukudu Power Plant Project

Consent Decree Projects for compliance with USEPA regulations:

- By July 31, 2022, Piti 8&9 to burn 0.0015%S ULSD
- By December 31, 2022, Cabras 1&2 to burn 0.2%S RFO
- Piti 7 currently burns clean 0.0015%S ULSD and is USEPA compliant
- Build 198MW Combined Cycle Plant for .00015%S ULSD/Natural Gas
- Build 41MW Diesel Plant at Cabras to burn 0.0015%S ULSD as Emergency Reserve

Cabras emission scenario in 2025:

- Cabras 1&2 Retired
- Piti 8&9 burn only clean 0.0015%S ULSD and substantially less as reserve unit
- Piti 7 burn 0.0015%S ULSD only as reserve unit
- 41MW New Diesel Plant burn 0.0015%S ULSD as reserve unit
- Cabras plants compliant with USEPA regulations. All units are reserve units with greatly minimized operating hours





KEPCO Requires Assurance P.L. 22-23 is Not Applicable at Cabras

KEPCO lenders concerned and may not finance the new power plant project due to perceived legal issue:

- Jose Rios Middle School is approximately 1,000 feet from 41MW Project causing concern about PL 22-23, 1,500 feet restriction
- Department of Land Management has opined that the Cabras site was transferred to GPA and is unzoned Federal property turned over for power plant use by GPA. However, KEPCO is concerned about the conflict between special use designation and PL 22-23 which could make the project not financeable
- KEPCO has required GPA to remedy

Cabras emission scenario in 2025 substantially cleaned and USEPA compliant:

- Cabras 1&2 Retired
- Piti 8&9 burns only clean 0.0015%S ULSD and substantially less fuel as a reserve unit
- Piti 7 burn 0.0015%S ULSD only as reserve unit
- 41MW New Diesel Plant burn 0.0015%S ULSD as reserve unit
- Cabras plants compliant with USEPA regulations. All units are reserve units with substantially minimized operating hours

The Cabras environment would be substantially clean after over 50 years of burning cheap but high sulfur content fuel





KEPCO Requires Assurance PL22-23 is Not Applicable at Cabras



Over the past 5 years (2016-2020) less than 3% of time did emissions head towards school.

Plant site is between 1,000 to 1,500 feet from school. Piti 8&9 is similar

41MW Plant fuel consumption would be less than 10% of the Piti consumption. All fuel will be 0.0015%S ULSD

No alternative site for 41MW plant except Cabras because GPA owned property, availability of fuel source and major transmission lines.

Plant to be permitted by GEPA and USEPA insuring compliance with ambient air standards and safe for community including schools.





KEPCO Requires Assurance PL22-23 is Not Applicable at Cabras



Macheche CT constructed within 500 feet of JM Guerrero Elementary School in Harmon creating an issue.

Plant initially burned 0.5%S Diesel

Issue addressed by raising stack. Furthermore GPA changed fuel to 0.0015%S ULSD in 2011. Macheche operates daily to support intermittency and spinning reserve.

Basis for PL 22-23 limitation of 1,500 feet not found. It appears there is no scientific basis for limitation. Issue addressed through stack height and ULSD.

Macheche is permitted by GEPA and has been operating on clean ULSD.





RESOLUTION 2021-21 (Board Approved July 27, 2021)

Authorizing the GM to Submit Legislation to the Guam Legislature Regarding the Construction of the Cabras 41MW Diesel Units

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

The U.S. Environmental Protection Agency (USEPA) filed a complaint against GPA alleging violations of the Clean Air Act ("CAA"), and on April 20, 2020, the Court entered the Consent Decree to resolve the alleged violations of the CAA. The Consent Decree requires Guam Power Authority ("GPA") to construct the Ukudu power plant and associated 41MW diesel units by April 30, 2024.

The diesel units were required to be relocated to the Cabras industrial on Lot 261 to ensure that the Ukudu power plant could be constructed using a minor source permit. The proposed construction area on Lot 261 is within 1200 feet of Jose Rios School. The new 41MW diesel plant is for emergency/peaking use, and will use clean burning ULSD. This site is within the Cabras industrial area, and was deeded to GPA by the US Navy in March 1976 for operation of fuel oil storage and a steam power plant. An exemption is needed for the construction on Lot 261, as §8119, Title 12, Guam Code Annotated, provides that "no power generation facility, with a capacity in excess of one (1) megawatt and utilizing fossil fuels, may be constructed within one thousand five-hundred feet (1,500') of a school." In order for construction to proceed on Lot 261, an exemption is needed from the Guam Legislature. GPA has prepared a proposed bill that would grant an exemption from the provisions of §8119 for the construction of the 41MW diesel units burning ULSD on Lot 261.

When is it needed?

As soon as possible





CFO Annual Financial Review

Presented to the Consolidated Commission on Utilities October 26, 2021





2

Performance Summary

(\$000)	Actual	Actual	Actual	Preliminary	Budget	Actual Vs.
(\$000) Operating Revenues	2018	2019	2020	2021	2021	Budget
Electric Sales						
Base rate	\$ 160,762	\$ 160,863	\$ 156,575	\$ 158,432	\$ 155,000	\$ 3,432
LEAC	217,567	238,870	176,992	165,679	226,023	(60,344)
Other	2,217	3,219	3,067	6,154	2,160	3,994
Provision for bad debt	(678)	(415)	(1,091)	•	(1,045)	-
	379,868	402,537	335,543	329,220	382,138	(52,918)
Total Operating Revenues Operating and Maintenance Expenses	379,000	402,537	333,343	329,220	362,136	(32,910)
Production Fuel	217,567	238,870	176,992	165,679	226,023	60,344
Other Production & Energy Conversion	34,968	30,781	30,537	29,758	39,307	9,549
Depreciation	37,184	36,999	37,645	38,217	39,490	1,273
Transmission and Distribution	12,338	12,746	12,962	12,384	11,629	(755)
Customer Accounting	5,676	5,799	6,042	6,641	5,916	(725)
Admin & General	33,971	38,289	43,662	33,703	34,631	928
Total Operating & Maintenance Expenses	341,704	363,484	307,840	286,382	356,995	70,613
Operating Income	38,164	39,053	27,703	42,838	25,142	17,696
Non-operating revenues (expenses)						
Interest Income	3,260	5,003	3,142	1,433	1,000	433
Interest expense	(33,167)	(27,955)	(26,635)	(26,331)	(26,223)	(108)
Other income (expenses)	2,134	(934)	498	508	1,071	(563)
Total non-operating income (expenses)	(27,773)	(23,886)	(22,995)	(24,390)	(24,152)	(238)
Net Income	10,391	15,167	4,708	18,448	990	17,458





Electric Sales Information

Fiscal Year	2018	2019	2020	2021
Peak Demand (MW)	254	255	247	257
Total Electric Sales (MWh)	1,567,052	1,568,286	1,523,579	1,554,962
Sales Growth (%)	(2.7)	0.1	(2.9)	2.1
Total Customers	51,372	51,977	51,771	52,825

Number of Customers by class:

Fiscal Year	2018	2019	2020	2021
Residential	43,881	44,479	44,191	45,292
Commercial	5,261	5,289	5,366	5,341
Government	1,077	1,070	1,081	1,060
Streetlights	1,152	1,138	1,132	1,131
Navy	1	1	1	1
Total	51,372	51,977	51,771	52,825



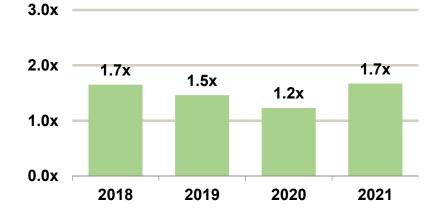


Historical Debt Service Coverage

Senior DSC - Indenture

2.5x 2.0x 1.8x 1.7x 1.0x 0.0x 2018 2019 2020 2021

Aggregate DSC – Capital Lease Payments as O&M Expense







Outstanding Bonds

Summary of Outstanding Principals				
Revenue Bonds (As of October 21, 2021)				
2012 Series A	\$ 285,795,000			
2014 Series A	69,225,000			
2017 Series A	148,355,000			
Total Principals Outstanding	\$ 503,375,000			

Outstanding Revenue Bond Debt Services Series 2012A Series 2014A ■ Series 2017A (\$Millions)

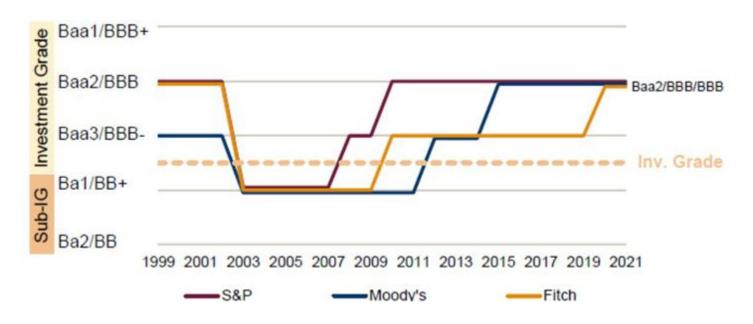




Investment Grade Credit Ratings

Credit Summary					
Long-Term Senior Debt	Rating	Long-Term Outlook			
S&P Global	BBB	Stable			
Moody's Rating	Baa2	Stable			
Fitch Ratings	BBB-	Stable			

Historical Ratings







Issues for Decision

Resolution No. FY2022-01:

Relative to Authorizing the Management of Guam Power Authority to Renew the Current Property Insurance for an Additional One-Year Policy Period

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

Guam Power Authority's Bond Indenture agreement requires GPA to "secure and maintain property insurance on all facilities constituting the system against risks of loss or damage to the extent that such insurance is obtainable at reasonable cost." The indenture further requires GPA to carry insurance "of a scope and nature as that usually carried in the industry."

GPA's current Property Insurance policy was awarded in 2018 with a term of a three (3) year period with two (2) options to renew for an additional one (1) year period. GPA's current Property Insurance policy's third year period is set to expire on November 1, 2021, and GPA would like to exercise the first one-year option to renew.

Where is the location?

The coverage will be for all GPA assets.

How much will it cost?

The annual premium will be billed at a cost of \$5,788,643

When will it be completed?

The current policy will be in place until November 1, 2022.

What is its funding source?

Revenue funded



GPA RESOLUTION NO. FY2022-01

RELATIVE TO THE AUTHORIZATION OF THE GUAM POWER AUTHORITY TO RENEW THE CURRENT PROPERTY INSURANCE FOR AN ADDITIONAL ONE-YEAR POLICY PERIOD

WHEREAS, the Consolidated Commission on Utilities has determined that it is a prudent and reasonable business practice to maintain insurance coverage on GPA's assets to the extent practical; and

WHEREAS, the Guam Power Authority's Bond Indenture agreement requires GPA to "secure and maintain property insurance on all facilities constituting the system against risks of loss or damage to the extent that such insurance is obtainable at reasonable cost"; and

WHEREAS, the indenture further requires GPA to carry insurance "of a scope and nature as that usually carried in the industry"; and

WHEREAS, GPA's current Property Insurance policy was awarded in 2018 with a term of a three (3) year period with two (2) options to renew for an additional one (1) year period; and

WHEREAS, GPA's current Property Insurance policy's third year period is set to expire on November 1, 2021, and GPA would like to exercise the first one-year option to renew; and

WHEREAS, the insurance broking team has configured, with the goal in mind of improving, to the greatest extent possible, the terms and conditions of GPA's property insurance policy for the year; and

1	WHEREAS, that GPA is now able to confirm ag	greement for this year, and accordingly
2	will commit to keeping the current policy in place until N	November 1, 2022, the underwriters are
3	prepared to offer the following:	
4	4	
5	5 1. The annual premium will be billed at a	a cost of \$5,788,643 which reflects
6	6 the challenging insurance market cond	ditions.
7	7	
8	8 WHEREAS, GPA now brings these matters be	fore the Consolidated Commission on
9	9 Utilities.	
10	0	
11	NOW, THEREFORE, BE IT RESOLVE	ED, BY THE CONSOLIDATED
12	COMMISSION ON UTILITIES, AS THE GOVE	ERNING BODY OF THE GUAM
13	POWER AUTHORITY, SUBJECT TO THE APPL	ROVAL OF THE GUAM PUBLIC
14	4 UTILITES COMMISSION, AS FOLLOWS:	
15	.5	
16	1. The GPA General Manager is author	rized to accept the terms of the annual
17	renewal premium offered by the	insurance underwriters at a cost of
18	\$5,788,643 for the policy period cov	vered between November 2, 2021 and
19	November 1, 2022.	
20	20	
21		Board Secretary attests to the adoption
22	of this Resolution.	
23		
24		.PPROVED THIS 26 th DAY OF
25	OCTOBER, 2021.	
26		
27	Certified by: Atte	sted by:
28	28	
29	9	
30		
31	R1 II	CHAEL T. LIMTIACO retary
32		solidated Commission on Utilities
	11	

I, Michael T. Limtiaco, Secretary, Consolidated Commission on Utilities (CCU), evidenced by my signature above do certify as follows: The foregoing is a full, true and correct copy of a resolution duly adopted at a regular meeting of the members of 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: Absent: Abstain:

GPA RESOLUTION FY2022-01

GUAM POWER AUTHORITY PROPERTY INSURANCE HISTORICAL PREMIUM VALUES/RATING 2008 TO DATE

YEAR	TIV	INCREASED VALUE(%)	PREMIUM	INCREASE (DECREASE) IN PREMIUM	RATE (%)	RATE (REDUCTION) (%) INCREASE (%) IN RATE
2008/09	\$1,203,675,234		\$5,237,363		0.4351%	
2009/10	\$1,275,244,000	5.95%	\$5,610,263	\$372,900	0.4399%	1.11%
2010/11	\$1,282,703,000	0.58%	\$5,100,405	-\$509,858	0.3976%	-9.62%
2011/12	\$1,347,638,000	5.06%	\$4,928,747	-\$171,658	0.3657%	-8.02%
2012/13	\$1,419,473,044	5.33%	\$5,153,717	\$224,970	0.3631%	-0.73%
2013/14	\$1,503,629,000	5.93%	\$5,406,622	\$252,905	0.3596%	-0.96%
2014/15	\$1,437,978,000	-4.37%	\$4,855,119	-\$551,503	0.3376%	-6.10%
2015/16	\$1,437,978,000	0.00%	\$6,662,309	\$1,807,190	0.4633%	37.22%
2016/17	\$1,437,978,000	0.00%	\$6,450,000	-\$212,309	0.4485%	-3.19%
2017/18	\$1,437,978,000	0.00%	\$6,694,749	\$244,749	0.4656%	3.79%
2018/19	\$1,190,984,552	-17.18%	\$4,422,692	-\$2,272,057	0.3713%	-20.24%
2019/20	\$1,229,321,733	3.22%	\$5,252,334	\$829,642	0.4273%	15.06%
2020/21	\$994,029,929	-19.14%	\$5,252,334	\$0	0.5284%	23.67%
2020/21	\$1,041,633,681	4.79%	\$5,788,643	\$536,309	0.5557%	5.17%







Issues for Decision

Resolution No. FY2022-02:

Relative to Authorizing the Management of Guam Power Authority to Solicit the Services for the Management, Operation and Maintenance of GPA's Fuel Bulk Storage Facility

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

The Guam Power Authority's current contract for the Management, Operation and Maintenance of GPA's Fuel Bulk Storage Facility is expiring in September 30, 2022. The services are required for the proper operation, maintenance and security of the Fuel Bulk Storage Facility, to ensure uninterrupted, reliable fuel supply to the GPA plants.

Where is the location?

Several on-island and off-island firms with expertise on areas related to Petroleum Handling and management of Fuel Bulk Storage Facilities can participate in the solicitation.

How much will it cost?

Services currently cost about \$1,000,000 to \$1,500,000 a year (fixed fee and additional expenses). The contract is estimated to cost about the same, subject to escalation rates and increase in fees for critical requirements such as insurance policies and membership in oil spill companies. These costs do not include expenses related to specific technical services, construction and project management.

When will it be completed?

The contract is planned for an initial period of three years, with the option to extend for two (2) additional one-year terms.

What is its funding source?

Most of the services will be funded through Fuel Revenue Funds, and some through O&M and CIP if it involves procurement of equipment, construction, modification and others.

The RFP/IFB responses:

The IFB will commence after CCU and PUC approval.



1 2

GPA RESOLUTION NO. FY2022-02

AUTHORIZING MANAGEMENT OF THE GUAM POWER AUTHORITY TO SOLICIT A CONTRACT FOR THE MANAGEMENT, OPERATION AND MAINTENANCE OF GPA'S FUEL BULK STORAGE FACILITY

WHEREAS, the Guam Power Authority (GPA), through Resolution 2017-10 awarded IFB GPA-014-17 to Isla Petroleum and Energy, LLC ("IP&E"); and

WHEREAS, the contract with IP&E is expiring on September 30, 2022; and

WHEREAS, proper management, operation and maintenance of the Fuel Bulk Storage Facility is required to ensure uninterrupted, reliable fuel supply to GPA's Power Plants; and

WHEREAS, GPA intends to procure the services of a qualified firm for the Management, Operation and Maintenance of the Fuel Bulk Storage Facility; and

WHEREAS, approval is requested to allow the General Manager to solicit these services and petition the PUC to approve the solicitation for a contract with a base period of three (3) years with an option to extend for up to two (2) additional one-year extensions.

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

 The General Manager is authorized to proceed with the solicitation for a Contract for the Management, Operation and Maintenance of GPA's Fuel Bulk Storage Facility.

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

36				
37	DULY and REGULARY	ADOPTED AND APPRO	VED THIS 26 [™] DAY of October, 2021	
38				
	Certified by:		Attested by:	
	JOSEPH T. DUENAS		MICHAEL LIMTIACO	
	Chairperson		Secretary	
	Consolidated Commission on	Utilities	Consolidated Commission on Utilities	
39 40 41	I, Michael Limtiaco, Se	cretary for the Consoli	dated Commission on Utilities (CCU), as eviden	ced by
42	my signature above do certify a	ns follows:		
43	, . 0			
44	The foregoing is a full,	true, and correct copy	of the resolution duly adopted at a regular med	eting of
45	the members of Guam Consolid	dated Commission on l	Itilities, duly and legally held at the meeting pla	ace
46	properly noticed and advertise	d at which meeting a q	uorum was present and the members who we	re
47	present voted as follows:			
48				
49	Ayes:			
50				
51	Nays:			
52				
53	Absent:			
54				
55	Abstain:			



Issues for Decision

Resolution No. FY2022-03

Relative to Authorizing the Expenditure to Procure three new Bucket Trucks for the Authority's Transmission and Distribution Operations

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

The Authority is in need of new 65-foot Bucket Trucks to provide the Authority's Transmission & Distribution personnel the capability and capacity to perform new installations to support customer growth and to repair and maintain the power system in a safe and efficient manner.

Where is it at?

The bucket trucks will be used island wide and will be stationed at the T&D Compound in Dededo.

How much will it cost?

Three bucket trucks at \$348,000 each for a total of \$1,044,000

When will it be completed?

The bucket trucks will be delivered 365 days after award.

What is its funding source?

FY2022 Revenue Capital funds

The RFP/BID responses:

Bid responses were received from Morrico Equipment, LLC and Far East Equipment Company, LLC. Morrico was the only responsive bidder.



GPA RESOLUTION NO. FY2022-03
RELATIVE TO AUTHORIZING THE EXPENDITURE TO PROCUREE THREE (3) NEW BUCKET TRUCKS
FOR THE AUTHORITY'S TRANSMISSION AND DISTRIBUTION OPERATIONS
WHEREAS, GPA is committed to providing economically sound and reliable vehicles and
equipment to service the island's power system; and
WHEREAS, the Authority is in need of new 65-foot Bucket Trucks to provide the
Authority's Transmission & Distribution personnel the capability and capacity to perform new
installations to support customer growth and to repair and maintain the power system in a safe
and efficient manner; and
WHEREAS, the Procurement Office has provided adequate public announcement to
procure three new 65-Foot Bucket Trucks through IFB GPA-048-021 providing the specifications
and the information required of each Offeror; and
WHEREAS, Morrico Equipment LLC and Far East Equipment Company LLC submitted bids
for GPA's consideration; and
WHEREAS, the GPA Evaluation Committee determined Morrico Equipment LLC to be the
only responsive bidder with a total cost of \$1,044,000; and
WHEREAS, GPA has secured CCU and PUC approval under Revenue General Plant Capital
Improvement Funds to procure these bucket trucks.
NOW, THEREFORE, BE IT RESOLVED, by the Consolidated Commission on Utilities as
follows:
1. After careful consideration, the Consolidated Commission on Utilities finds the
purchase of the Bucket Trucks to be reasonable, prudent and necessary.
2. The General Manager of the Guam Power Authority is hereby authorized an increase
in obligating authority up to \$1,044,000 for the purpose of procuring three 65-Foot

Bucket Trucks from Morrico Equipment LLC.

1	RESOLVED, that the Chair	man certifies and the Secretary attests the adoption of this
2	Resolution.	
3		
4	DULY AND REGULARLY AD	OPTED AND APPROVED THIS 26 TH DAY OF OCTOBER, 2021
5		
6	Certified by:	Attested by:
7 8		
9		
10	JOSEPH T. DUENAS	Michael T. Limtiaco
11	Chairperson	Secretary
12	Consolidated Commission on Utilit	ies Consolidated Commission on Utilities
13		
14	I Michael T Limtiaco Soc	retary for the Consolidated Commission on Utilities (CCU), as
15		
16	evidenced by my signature above of	do certify as follows:
17	The foregoing is a full, true,	and accurate copy of the resolution duly adopted at a regular
18	meeting of the members of the Gu	am Consolidated Commission on Utilities, duly and legally held
19	at a place properly noticed and a	dvertised at which meeting a quorum was present and the
20	members who were present voted	as follows:
21	Ayes:	
22	Nays:	
23	Absent:	
24	Abstain:	

OPENING TIME: -LINE LTEM 5 GDA- OUS - 31 OPENING DATE: 8 INVITATION NUMBER: 1000/11/80 Lowest Responsive Bidder Tie Bid Only Bid Other Than Lowest Responsive Bidder Ŷ LINE ITEM 4 PAGE 4200 2000 2000 * LINETTEM I LINETTEM 2 ma 106 45 dm55 68 **GUAM POWER AUTHORITY** PROCUREMENT DIVISION ABSTRACT OF BIDS CATALOG NUMBER AREIGHT LINER & TEREX MANUFACTURER A TEREST OS Specifical 348,000.00 TOTAL LUMP SUM TOTAL LUMP SUM CATALOG NUMBE MANUFACTURER PART NUMBER PART NUMBER DELIVERY ALTERNATE UNIT COST DESCRIPTION DELLVERY UNIT COST DELLIVERY BASIC PIN 4X4 BUCKET TRUCKS Lethical Standards (Wage Determination LA Restriction Against Sex Offendors I hereby certify that all bids received in response to this invitation were opened under my personal supervision, and that the names of all bidders have bene metered herein." DATE: 8 11 2 No.: [] Vendor Name: MORRICO Equipment U.C. Affidants (Copy Form): Originals submitted with

FUNDISS (1) | LINGLES | USUD.

[] Major shareholders H Non-Collusion H No Gratuities or Kickbacks Amount \$__ [] Power of Attorney Ususiness License [] Contractors License Accal Procurement Signed and Submitted DESCRIPTION OF SUPPLIES OR SERVICES 45 FOOT Wild Bond #: GPA- Cyl & all NUMBER OF INVITATIONS ISSUED: [] Cashier's or Certified Check #_ Mertificate of Authority [] Standby Letter of Credit # NUMBER OF BIDS RECEIVED: [] Letter of Credit #_ [] Statement of Qualifications LF Affidavits (Original Form) [] Wire Transfer NEW 2021 BID GUARANTEE: BIODER 82

NAMES OF PERSONS	SONS PRESENT AT THE BID OPENING AND WHOM THEY REPRESENT	NG AND WHOM THEY RE	PRESENT
PRINT NAME:		SIGNATURE:	DATE:
1 Anal Frond	MORENO FRUITMON U.C.	B	8/11/2
2 GEUSER CHARTAGES	FARE EARS. EQ. CO. UC.	H	8/11/21
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NUMBER OF INVITATIONS ISSUED:		C110		INVITATION NUMBER:	JUMBER:
	40	PROC	PROCUREMENT DIVISION	CPA-1	APA 048-21
NUMBER OF BIDS RECEIVED:	00 E			OPENING DATE:	TE: OPENING TIME:
· ·		GUAM P	GUAM POWER AUTHORITY	08/11/2021	421 10:00AM
		AB	ABSTRACT OF BIDS		
DESCRIPTION OF SUPPLIES OR SERVICES:	1				
NEW abal DO FOOT 4X4 BUCKET TRUCKS					
		UNETENT	LINETTEW 2 LINETEM 3	LINE STEM 4	UNETTEMS
	DESCRIPTION				
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	UNIT AME	CACH MANON DAYS MIL	70		
ВТООТЯ		∪ [288]			
No.: (3) Vendor Name: Tak East Eguipment CO. 11.C.	and the second				
YTEE	UNITCOST	281331.15			
() Bid Bond #:	-		38		
[] Certificate of Authority [] Power of Attorney	CATALOG NUMBER LONG	things himsen International vacconit	ADBOHUSON PARTUDACOMINA	1 12 Ear 3030 3030	
(J Standby Letter of Credit # 01-50-16 (757) Amount \$ (30,000.0)	MANUFACTURER	MANUFACTURER JAN ERROPHOLD VERSO LILY		0	
[] Letter of Credit #	DELIVERY	as specified			
[] Cashier's or Certified Check #Amount \$	3				
[] Wire Transfer					
[] Statement of Qualifications	Artessage				
Ly Affidavits (Original Form)	UNIT COST	e u			
[] Affidavits (Copy Form): Originals submitted with	PART NUMBER				
UNASTICATION A MARKET MACIOS OF CONTINUES or Kickbacks	CATALOG NUMBER				
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[Business License [] Contractors License	DELIVERY				
M Local Procurement Signed and Submitted	TOTAL LUMP SUM				
Utherature					
I hereby certify that all bids received in response to this invitation were opened under my personal supervision, and that the names of all bidders have been entered herein.				[] Lowest Responsive Bidder	

N	MEC OF DED	NAMES OF PEPCONS PRESENT AT THE BID OBENING AND WHOM THEY REPRESENT	AND WHOM THEY BE	DRESENT
PRINT NAME:	VAME:	COMPANY NAME:	SIGNATURE:	DATE:
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Management Report GPWA CCU Board Meeting, October 26, 2021



GWA Workforce availability as of October 15, 2021

Healthy	351	94.4%
Sick, not COVID-19 related	3	0.8%
COVID-19 Quarantined	11	3.0%
Employee with COVID-19, active case	1	0.3%
Military Leave	3	0.8%
LTD	3	0.8%
	372	100%

	Total	
Healthy/Reporting for duty at worksite	343	92.2%
Healthy/Reporting for duty - Teleworking	7	1.9%
Healthy/Reporting for duty - Part Teleworking and Part Reporting		
for duty at worksite	1	0.3%
Employee with COVID-19, active case	3	0.8%
Employee sick - symptoms unrelated to COVID-19	3	0.8%
Military Leave	5	1.3%
Employee (to be) tested for COVID-19 with results pending	3	0.8%
Employee's direct exposure to a household member with		
symptoms related to COVID-19	1	0.3%
Employee sick - symptoms related to COVID-19	2	0.5%
Employee's direct exposure to a household member - COVID-19		
confirmed case	3	0.8%
LTD/Workers Comp	1	0.3%
	372	100%

GWA Workforce Vaccine Status as of October 15, 2021

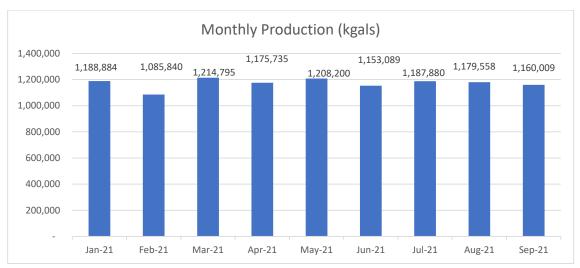
One Shot Remaining	9	2.42%
Fully Vaccinated	325	87.37%
Did Not Receive Shot	38	10.22%
	372	100%

Operations Update

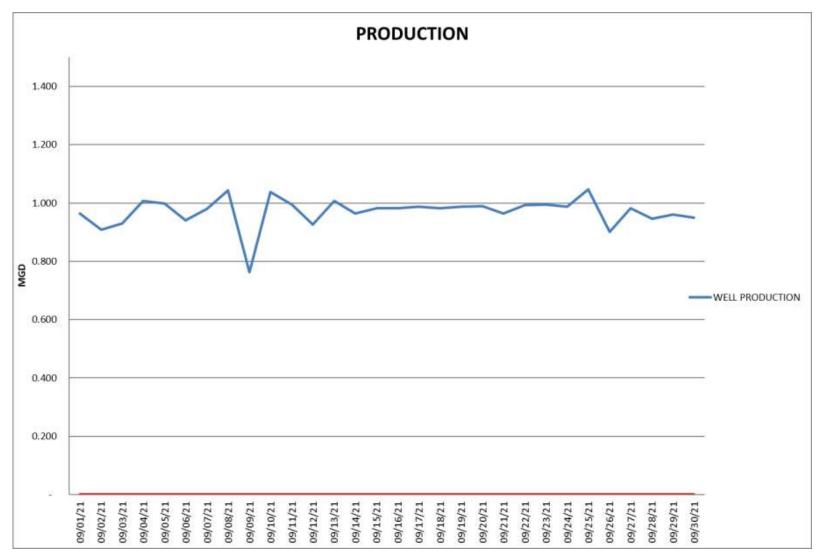
Production (September 2021)

Monthly Producti	on Summary	- Septemb	er 2021	
Deep Wells			35.4	MGD
Active wells =	89	of 120		
Avg days in operation =	30	days		
Total Production =	1,060,735	Kgals		
Springs			0.26	MGD
Avg days in operation =	30	days		
Total Production =	7920	Kgals		
Ugum Surface Water Plant			2.1	MGD
Avg days in operation =	30	days		
Total Production =	62,247	Kgals		
Tumon Maui Well			0.97	MGD
Avg days in operation =	30	days		
Total Production =	29,107	Kgals		
	1,160,009	Kgals	38.7	MGD

DW Status as of 9	/30/2021	
Active	89	
Grounded Motor, Pump Failure or Temp Secured	15	F03-M12-A26-D01-D03-D18A-D26-F06-F13 Y16-Y20-F15-F07-F02-F04
Out of commission	8	A02-A07-A28-D05-D13-M14-MJ01-MJ05
Temporarily Secured - PFO	2	A23-A25
Standby	6	A29-D02-F10-M17A-Y01-Y02
TOTAL	120	



Tumon Maui Well Production (September 2021)

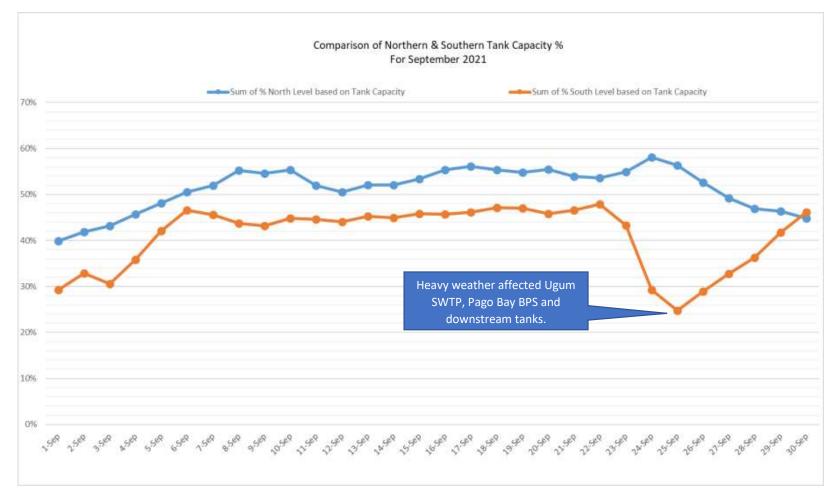


Distribution (September 2021)

	Monthly Distribution Summary - September 2021							
Water B	Water Booster Pump Stations							
	District	No. of	Total	Pumps	%			
	ASUICU	Stations	Pumps	Operating	Operational			
N	lorthern	13	26	25	96.2%			
C	Central	7	14	12	85.7%			
S	outhern	7	15	15	100.0%			
		27	55	52	94.5%			

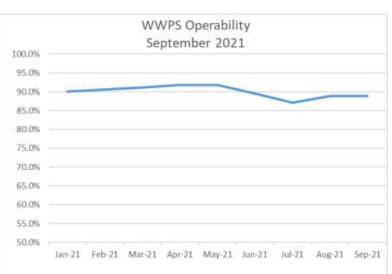


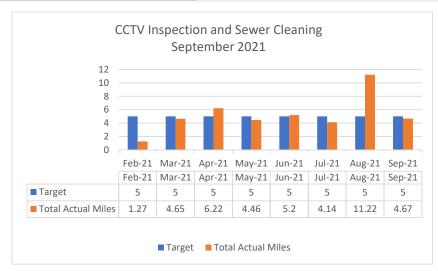
Distribution – Tank Levels (September 2021)



Wastewater Collections (September 2021)

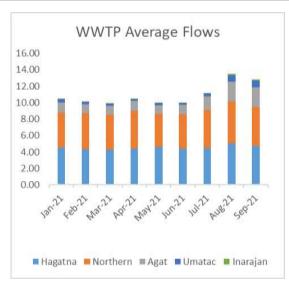
Monthly Collections Summary - September 2021								
Wastewater Pump Stations								
District No. of Total Pumps % Stations Pumps Operating Operational								
Nort	hern	22	52	43	82.7%			
Cent	ral	29	63	58	92.1%			
Sout	hern	26	56	51	91.1%			
		77	171	152	88.9%			





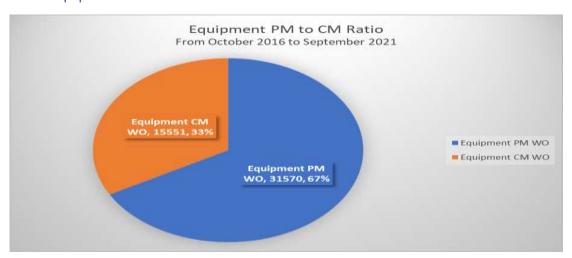
Wastewater Treatment (September 2021)

N	Monthly Wastewater Treatment Summary - September 2021								
WW T	WW Treatment Plants - Flows								
	Avg. Daily Facility Flows Sludge (lbs)								
	Hagatna	4.78	-	(\$) \$ -					
	Northern	4.66	674,200	\$ 60,678					
	Agat	2.44	156,780	\$ 14,110					
	Umatac	0.78							
	Inarajan	0.17							
		12.83	830,980	\$ 74,788					

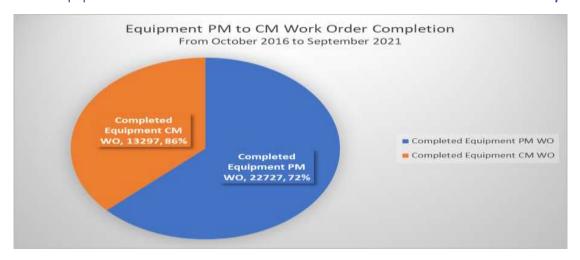


Asset Management (through September 2021)

I. Equipment Preventive Maintenance to Corrective Maintenance *Ratio*

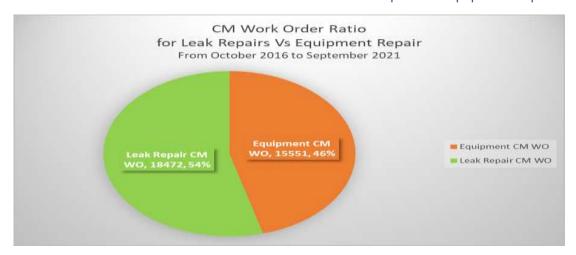


II. Equipment Preventive Maintenance to Corrective Maintenance Work Order Completion



Asset Management (through September 2021)

III. Corrective Maintenance Work Order *Ratio* for Leak Repairs vs. Equipment Repair



IV. Corrective Maintenance Work Order *Completion* for Leak Repairs vs. Equipment Repair



One Guam Update (through September 2021)

01-Tumon Maui Well

- Increase production request No update; still being reviewed.
- Next inspection date Wednesday, October 20.

02-AG-1 Intertie with Andersen

- o Increase production request –No update; still under review.
- Easement concern Awaiting update.

• 04-OEAProjects

- Observation Wells/NGLA
 - New Wells Contract Status GEPA permit issued; field work has started.
 - BPM-1 No update.

• 06-Strategy/Framework Discussion

- Santa Rosa Intertie No update; still being reviewed.
- o Route 16 Intertie Last update is that this project is being deliberated by Navy. Concern is method on how to be paid and how to facilitate once interconnected. Navy working on a draft of water sales agreement.

• 07-PropertyTransfers

- o Transfer of Navy Laterals at Murray Road to GWA
 - No update from Navy.
 - Temporary (ROE) access for GWA Awaiting approval (as well as for Schoeffel Heights).
- Transfer of ACEORP
 - No update; hope to have one at next meeting.

One Guam Update (through September 2021)

• 30-Other

- o Umatac / Cetti Bay Easement
 - Will update at next meeting.
- o Easement on Marbo Property for Sewer Line
 - No update.
- o SOP for Wastewater Batch Discharges from DoD to GWA
 - Paul K. will try to complete a rough draft of the SOP by Oct. 15 as busy with fiscal year-end.
- COV-2 Testing Status
 - Paul K. stated the equipment has been ordered and, on its way, so hope to get this month; still in limbo until it arrives. Procurement handled by DPHSS. Sampling terminated because of end of grant.

Court Order Summary (September 2021 – no changes)



	Court Order Items	%	Performance
Completed/Continuous - on time	78	84%	(on-time or
Completed - late	14	15%	completed)
In Progress - on time	0	0%	
In Progress - late	1	1%	98.9%
Totals	93	100%	98.9%

Court Order – Status Information (September 2021)

- No CO delays due to approval of CO extension.
 - o Final Date to complete CO 29(b) is June 30, 2023.
- Overflow or Bypass events reported to USEPA (for September 2021 up to October 7, 2021):
 - o SSO #474 Sept. 30, 2021 Chalan Pale San Vitores, Tumon FOG
 - o SSO #475 Sept. 30, 2021 Chalan Pale San Vitores, Tumon FOG
 - SSO #476 Sept. 30, 2021 Chagamin Lago, Inalahan PS Controller issues.
 - SSO #483 Oct. 5, 2021 Santos Street, Asan FOG.
 - o SSO #488 Oct. 6, 2021 Chagamin Lago, Inalahan WO #1238087 heavy rain
 - o SSO #493 Oct. 7, 2021 Chalan Kanton Tasi, Merizo Heavy Rain

- o SSO #491 Oct. 7, 2021 386 Joaquin LG Jesus St Asan Backflow into home heavy rain.
- o SSO #485 Oct. 7, 2021 Vietnam Veterans Memorial Highway, Barrigada Heavy Rain
- o SSO #487 Oct. 7, 2021 Serena Ave., Tamuning Heavy Rain
- o SSO #492 Oct. 7, 2021 Onward Beach Hotel, Tamuning –rocks and gravel plus Heavy Rain
- o SSO #486 Oct. 7, 2021 154 G Chalan Kalo, Ordot WO# 1238241 Backflow into home FOG.

Land Acquisition Summary (for September 2021)

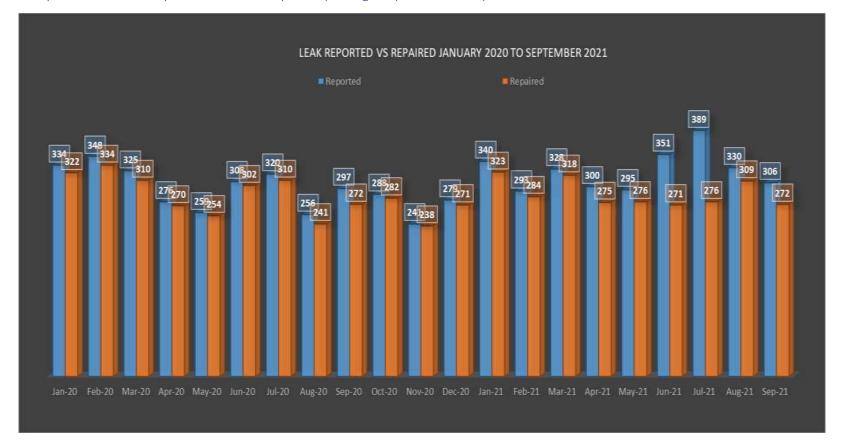
GWA Facility	Location	Gov. or Private Property	Land Acquisition Status
Tanks	Astumbo	Gov't CLTC	Petition of Land Registration package forwarded to Attorney General by DLM 11/04/19. AG pending court filing 06/30/2021. Follow up status sent to DLM 09/02/2021 and 10/06/2021.
	Piti	Private	Received final comments from DoAg. Waiting on the archaeological report before we can submit 299 form. Waiting for permission from NPS to access the lot and perform the Archeological survey.
	Airport	Private	Escrow/Title Service for land acquisition purchase opened 08/27/2021.
Deep Wells	AG-12	Dept. of Agriculture / Manhita Farms	Right of Entry Agreement sent to Dept of AG for signature 05/24/18. 2 nd follow up sent on 09/12/18. 3rd follow up sent on 04/10/19. Retracement Survey Property Map filed and recorded at DLM 7/10/19. DCA submitted parceling map to DLM for review and comments on August 18, 2021, waiting for their review comments. Follow up status email sent to DCA 10/07/2021.
Booster Pump Station	Agfayan	Private	TGE working on structural design for pump station area for L28, B19, T3734, Inalahan 11/07/19. Letter of Decision received by CLTC 06/09/2021.

(Continued on next page)

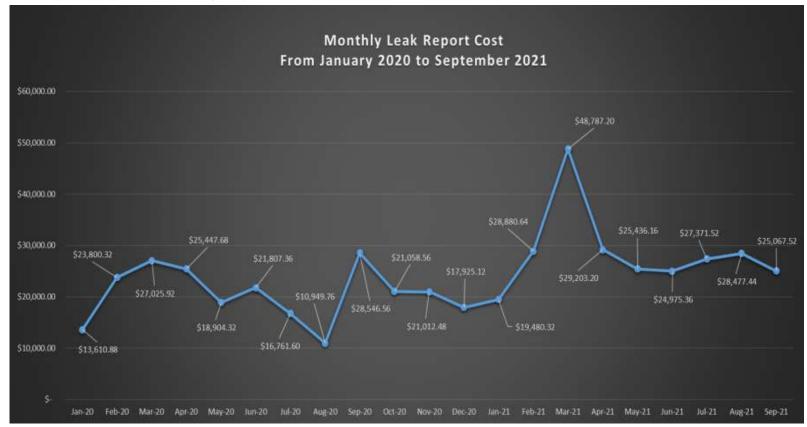
Land Acquisition Summary (for September 2021 – continuation)

GWA Facility	Location	Gov. or Private Property	Land Acquisition Status
Asan Springs	Asan	Federal	In order for NPS to issue a land ROW agreement with GWA, NPS has to complete NEPA first. GWA has HDR under contract to perform this work and an Environmental Assessment (EA) will be developed. The permit for the biological survey was submitted on 6/12/2020 and was signed by NPS on 1/22/2021. Further coordination between NPS and SHPO is pending to determine necessary approach for an archaeological survey. New Chief of Resources for War in the Pacific National Historical Park, Timothy Clark, hired. Replacing Tahzay Jones, who was previously working with us. HDR working with Tim Clark on coordinating things with NPS. Biological Survey: Fieldwork completed, 2/10/2021. Based on a preliminary finding by HDR's biologist they have found snails close to the site, and within NPS proposed ROW, and outside the proposed ROW. Draft report submitted to NPS, 4/1/2021. Comments received from NPS, 6/4/2021. Final Report submitted to NPS, 6/12/2021. NPS submitted Biological Survey to USFWS, 9/28/2021; Requested meeting with USFWS to discuss, waiting on reply. DOAG Environmental Consultation Letter: HDR sent Request letter sent to DOAG (Dep of Ag) on 3/15/2021. GWA followed up with DOAG on 6/25/2021. DOAG responded on 7/1/2021, but did not reach GWA Eng. until 8/4/2021; HDR review response letter and will respond soon.
			SHPO Letter: Pending archaeological survey requirements from SHPO. SHPO Letter sent to NPS for review, 5/29/2021. Received first comments on letter on 7/1/2021; submitted revised letter on 7/12/2021. Received comments, 8/9/2021. Resubmitted letter to NPS, 9/15/2021; Waiting on NPS to submit to SHPO.

Comparison of Leaks Reported vs. Leaks Repaired (through September 2021)



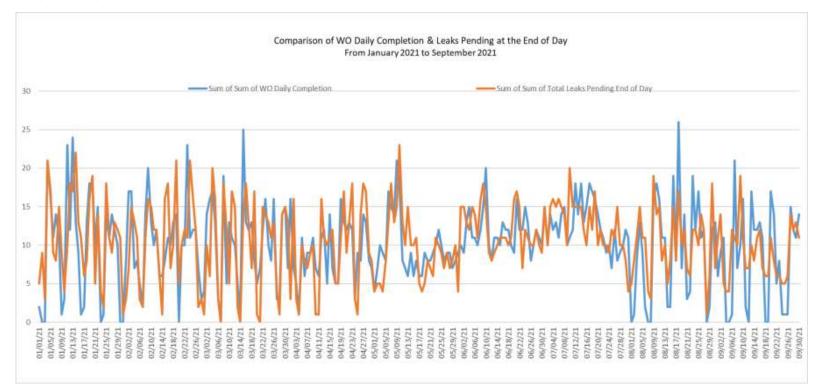
Monthly Leak Report Cost (through September 2021)



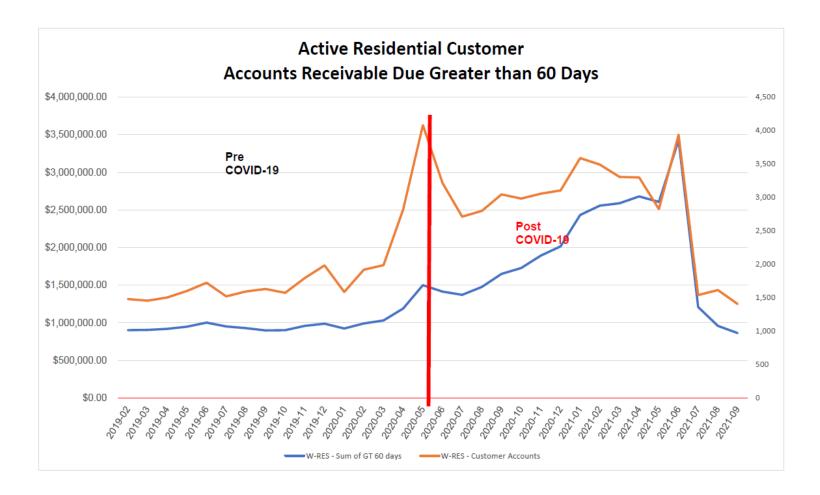
Assumptions:

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

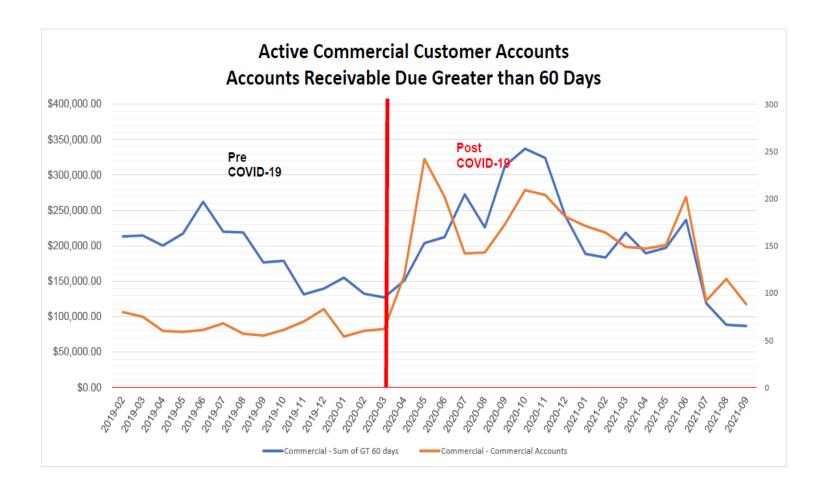
Daily Leak Repairs (September 2021)



Accounts Receivables Due Greater than 60 Days (through September 2021)



Accounts Receivables Due Greater than 60 Days (through September 2021)





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Financial Statement Overview September 2021

The September 2021 Financial Reports and accompanying schedules will not be available for several weeks as the Finance Division prepares year end entries and accruals. We have already begun to provide information to our auditors and expect to have the audit timely completed.

The FY2021 statements will be available at the November CCU meeting. However, some financial indicators are available and provided below:

Key Financial Indicators

Indicator	Target	Aug 2021	Sept 2021
Collection Ratio			
 Month to Date 	99%	94%	89%
Year to Date	99%	99%	99%
Days Billed	30 days	30 days	31 days
Employee Count	400 FTE	372 FTE	369 FTE
Water Customers	42,839	43,184	43,084
Wastewater Customers	29,805	29,796	29,897

There were 4,482 COVID-19 positive tests and 48 COVID-related fatalities reported during the month of September. Executive Order 2021-24 extended the public health emergency to October 29, 2021. While the island successfully vaccinated 119,436 persons or 87.63% of the eligible population (includes 12 -15-year-olds) by the end of September, the delta variant caused a huge increase in positive COVID tests.

On September 30, 2021, the island's COVID Area Risk (CAR) score was 24.0 and testing was available to the public at no charge at various locations throughout the island. For the month of September 2021, the average daily positive test rate was 149.

On September 22, 2021, the U.S. Food & Drug Administration authorized a booster shot of the Pfizer COVID 19 vaccine at least 6 months after the second injection for the elderly and others at high risk. Through September, GovGuam, pharmacies and clinics made available free COVID 19 vaccines in a variety of locations, the UOG Fieldhouse was reopened for vaccines

Despite the pandemic, while only 7% of payments are made in cash, more than a third of payments continue to be made in person. Beginning in August, ratepayers were able to access one walkup window in Upper Tumon to make payments; the drive through will continue to remain open.

Using social media, GWA continues to encourage customers to conduct business online or via the phone. Additionally, an automated customer service online support portal is available on the GWA website for permits, submissions related to backflow testing, payment plans, and other customer related requests.

On April 28, 2020, CCU Resolution 24-FY2020 granted the lifting of credit card limits on payments for non-residential accounts. To date, approximately 44% of payments made in FY21 were made with credit cards. Below is a summary of payments made exceeding the limit and related fees.



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Month	Customer Count	Amount Paid	Fees	% Of Fees to Payments
May - September 2020	140	\$241,335	\$4,952	2.05%
October - December 2020	100	\$194,764	\$3,916	2.01%
January - March 2021	122	\$272,887	\$5,487	2.01%
April – June 2021	150	\$333,368	\$6,703	2.01%
July 2021	50	\$106,497	\$2,141	2.01%
August 2021	50	\$108,550	\$2,183	2.01%
September 2021	54	\$103,220	\$2,075	2.01%

For the month of September, Finance posted \$24,221.43 utility payments from the Department of Administration (DOA) for eligible renters as part of the Guam Emergency Rental Assistance Program (GERAP) funded through the second federal relief act. Total GERAP payments received in FY21 were \$303.893.58. Customer Service is working with DOA to ensure that residents who qualify for the program are not disconnected while payments are in process. Once funding becomes available, DOA will also administer the homeowner assistance program which also includes assistance for utilities.

While utility assistance programs will likely be available for ratepayers through next year, September 4 marked the end of the federal-funded Pandemic Unemployment Assistance and Federal Pandemic Unemployment Compensation programs. Eligible Guam residents were able to apply for the \$800 RISE Act payments in September.

PUC Docket

The GWA Comprehensive Review and Update of its Five-Year Financial Plan & Capital Improvement Program (Financial Plan Update) and related Rate Application Model (RAM) were delivered to the PUC as required on May 1, 2021. Additionally, other analytical study related excel models were also provided.

An amended scheduling order was issued by the ALJ on August 19, 2021, setting a deadline for a third set of Requests for Information on September 3, 2021, and GWA's response by September 10, 2021. While settlement discussions were scheduled for September 27-October 1, 2021, they were not fruitful.

On October 4, 2021, the PUC Consultants asked for an extension of their deadline to submit testimony. On October 7, 2021, the ALJ issued a Third Amended Scheduling Order moving the deadline for the PUC Consultant's testimony to October 22, 2021, and the date for the ALJ Report and Proposed Order to November 22, 2021. Changes to the rate design and / or rates will likely not occur until December 2021 or January 2022.

Rate Stabilization Fund

CCU Resolution 11-FY2021 authorized the establishment of a Rate Stabilization Fund (RSF) as a mechanism for managing future uncertainties and risks as well as to promote predictable rates. In September 2021, GWA transferred the authorized \$11.4 million from GWA's Working Capital Reserves into the RSF. These funds were originally transferred into the Working Capital Reserves from the Working Capital Reserves for



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Debt Service per CCU Resolution 17-FY2020 which dissolved the Working Capital Reserves for Debt Service fund.

FY22 Budget

The FY22 budget was loaded into E1 prior to the end of FY21 to allow business units to key in critical requisitions. Budget reports are provided to the various divisions twice a week to assist them in managing expenses.

We continue to monitor revenues and will adjust as needed to ensure continuity of services to our customers while keeping the safety of our staff the highest priority.



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Gloria B. Nelson Public Service Building | 688 Route 15 | Mangilao, Guam 96913

Tel: (671) 300-6846

Issues for Decision

Resolution No. 01-FY2022

Relative to the Creation of the Plant Instrument Technician Supervisor Position at the Guam Waterworks Authority (GWA).

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

Objective is to create the Plant Instrument Technician Supervisor – GWA job standards and salary range is based on the 20th market percentile, 2017 market data.

The creation of the Plant Instrument Technician Supervisor position is for the efficient and effective performance of duties and functions of the Guam Waterworks Authority's Plant Instrument Technician Section. The creation of this position is necessary to explicitly identify utility-based job specifications for the existing Plant Instrument Technician series of positions. This position is necessary to supervise Plant Instrument Technicians and to participate in the installation, maintenance and repair of the electrical and control system, electrical equipment, instruments and components of an industrial utility plant, including System Control and Data Acquisition (SCADA) systems and components.

The Authority does not currently employ a Plant Instrument Technician Supervisor, thus limiting the GWA's ability to establish a clear and concise path and structure for the Plant Instrument Technician levels within the agency. The creation of the Plant Instrument Technician Supervisor position will allow for the proper staffing and workforce planning to increase competence, productivity and efficiency. Currently there is no Supervisor position in the Organizational Chart, and the ranking goes from a Leader position to a Superintendent, resulting in gaps in responsibility and leadership from one level to the other.

Upon approval of this creation, the position will be added to GWA's Drug and Alcohol-Free Workplace Policy as a Testing Designated Position (TDP) list, subject to random drug testing.

Where is the location?

The Plant Instrument Technician Supervisor – GWA position will be organizationally located within the Plant Instrument Technician Section.

How much will it cost?

There is no cost to create the position; however, the proposed salary range to fill the position is a minimum of \$73,395 per annum and a maximum of \$76,375.00 per annum.

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). GWA has met the posting requirements and the position creation can be acted upon the CCU at the October 26, 2021, Board Meeting.

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

2.5

CONSOLIDATED COMMISSION ON UTILITIES

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

RESOLUTION NO. 01-FY2022

APPROVAL OF THE CREATION OF THE PLANT INSTRUMENT TECHNICIAN SUPERVISOR – GUAM WATERWORKS AUTHORITY JOB CLASSIFICATION STANDARD

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

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

WHEREAS, the GWA General Manager requests the CCU to approve the creation of the Plant Instrument Technician Supervisor position in the classified status (Attachment A); and

WHEREAS, the GWA General Manager requests the CCU to approve the job classification standards of the Plant Instrument Technician Supervisor position in the classified status; and

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

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

32 || /

NOW BE IT THEREFORE RESOLVED, the Consolidated Commission on Utilities, as the Governing Body of the Guam Waterworks Authority, does hereby approve and authorize the following: 1. The recitals set forth above hereby constitute the findings of the CCU. 2. The creation of the job classification standard for the Plant Instrument Technician Supervisor position in the classified status is hereby approved and attached herein as Attachment A. 3. The Plant Instrument Technician Supervisor position is hereby added to the certified, technical and professional (CTP) list of positions and Drug and Alcohol-Free Workplace Policy testing designated positions (TDP) list at GWA, subject to random drug testing. RESOLVED, that the Chairman certified and the Board Secretary attests to the adoption of this Resolution. **DULY AND REGULARLY ADOPTED**, this 26th day of October 2021. Attested by: Certified by: **JOSEPH T. DUENAS** MICHAEL T. LIMTIACO Chairperson Secretary

1			CCO Meeting, October 20,	2021 - GWA
1			SECRETARY'S C	CERTIFICATE
2			o, Board Secretary of the ature above do hereby ce	e Consolidated Commission on Utilities a
4				
5		meeting by the memb	pers of the Guam Conso	of the resolution duly adopted at a regula lidated Commission on Utilities, duly an
6			e properly noticed and a ers who were present vot	dvertised at which meeting a quorum wa
7		_	ers who were present vot	ed as follows.
8		AYES:		<u> </u>
9		NAYS:		<u> </u>
10 11		ABSENT:		<u> </u>
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Plant Instrument Technician Supervisor (PROPOSED)

NATURE OF WORK IN THIS CLASS

Supervises and participates in the installation, maintenance and repair of the electrical and control systems, electrical equipment, instruments and components of an industrial utility plant, including System Control and Data Acquisition (SCADA) systems and components.

Supervises the programs and activities in the repair and maintenance of the Guam Waterworks Authority's plant facilities, electronic industrial control equipment and other related electrical systems.

Supervises the daily activities performing repairs and preventive maintenance in accordance with utility standards.

ILLUSTRATIVE EXAMPLES OF WORK: (Any one position may not include all the duties listed, nor do the examples cover all the duties which may be performed.)

Supervises and performs work in the test operation of instruments; analyzes defects and makes recommendation of necessary repairs on mechanical, electrical and pneumatic instruments.

Supervises and participates in the maintenance and repair of mechanical, electrical, and pneumatic instrumentation and control systems, electrical equipment, instruments and SCADA system components.

Coordinates, monitors and evaluates SCADA work performed by contracted vendors

Performs repair tasks requiring a high degree of skill in the electrical trade.

Implements agency policies for personnel, training, and safety.

Trains and instructs subordinates in work methods and procedures, proper use of tools and equipment, safety practices and regulations, work policies and electrical codes and standards.

Schedules, assigns, plan and monitor the work of the electrical shop personnel performing a variety of electrical and instrument projects.

Prioritizes tasks, schedules and distributes work assignments and ensures that personnel are completing work on schedule. Monitors and maintains the CMMS or other related software for information.

Reviews plans for future systems upgrade and installation to insure compatibility with existing electrical codes and maintenance standards.

Prepares material, labor estimates and monitors the acquisition and use of materials; ensures budgeting guidelines are met; prioritizes shop expenditures to stay within budget and assists in preparation of capital and operating budgets.

Maintains records and prepares reports.

ATTACHMENT A - page 1of 3

Performs other related work as required.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS

Knowledge of the standard principles, methods, practices, techniques, tools and test equipment used in the installation, maintenance and repair of mechanical, electrical and pneumatic instruments, and data monitoring, acquisition and control systems of an industrial utility plant.

Knowledge in the interpretation of electrical diagrams, wiring diagrams, electrical and electronic schematics. Knowledge of system functions of an industrial utility plant.

Knowledge of supervisory and personnel principles, practices and techniques an supervise the work of others.

Ability to make work decisions in accordance with laws, rules and regulations and to apply agency's policies.

Ability to apply and enforce safe work practices on the job.

Ability to read, interpret and work from blueprints, sketches and wiring diagrams.

Ability to prepare time and material cost estimates of work projects.

Ability to effectively work and communicate both verbally and in writing with the public and employees.

Ability to creates work orders and generates reports using the utility's work generating and reporting software or other related software used.

Ability to perform arduous physical tasks, including climbing, stooping, lifting of tools and equipment and working in strained and awkward positions.

Ability to maintain records and prepare reports.

Skill in the use and care of tools and equipment of the trade.

MINIMUM EDUCATION AND TRAINING

- A). Successful completion of a vocational technical training apprenticeship program in applied electrical, electronics and instrumentation technology **AND** four (4) years of experience in electrical-electronic repair, installation and maintenance of electrical plant control system, electrical equipment, instruments and components of an industrial utility plant; **AND** twenty-four (24) months of experience at the journeyman level or higher in the related field; **OR**
- B). Associates Degree of Science, in applied electrical, electronics or instrumentation technology **AND** three (3) years of experience in electrical-electronic repair, installation and maintenance of electrical plant control system, electrical equipment, instruments and components of an industrial utility plant AND eighteen (18) months of experience at the journeyman level or higher in the related field; **OR**

ATTACHMENT A - page 2 of 3

C). Six (6) years of experience at the skilled level or higher in electrical-electronic repair, installation or maintenance of electrical plant control system, electrical equipment, instruments and components of an industrial utility plant or related field.

NECESSARY SPECIAL QUALIFICATIONS:

Possess a valid Guam Driver's License.

PREFFERED CERTIFICATION

Certification in SCADA, PLCs, Automation or System Integration

Established: September 2021

JDE Points: 911

Implementation Range: Minimum: L6-D \$73,395/annum; \$35.29/hour

Maximum: L7-D \$76,375/annum; \$36.72/hour

JOSEPH T. DUENAS, Chairman Consolidated Commission on Utilities

ATTACHMENT A - page 3 of 3



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Gloria B. Nelson Public Service Building | 688 Route 15 | Mangilao, Guam 96913

Tel: (671) 300-6846

Issues for Decision

Resolution No. 02- FY2022

Relative to Approval of change Order No. 5 for the Groundwater Production Meter Replacement Project

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

The intent of the original project scope is to replace the **faulty flow meters** and to standardize well head discharge piping for **60 critical production wells** thus improving the measurement of the volume of groundwater produced from the wells and mitigating the under-or-over reported total production. Completion of this project is critical to improving GWA's water loss control program and is aligned with the overall water loss control objectives. Due to funding constraints, only the 30 deep wells listed in the Basic Bid Schedule were awarded. This change order will include the 15 deep wells listed in Additive Bid No. 1 which is in line with intent of the project.

Where is the location?

The 15 additional deep wells are located in the villages of Agana Heights, Chalan Pago, Mangilao, Dededo, and in Finegayan-Route 3 area.

How much will it cost?

The cost of this change order No.5 is **\$741,744.65** including price escalation of \$53,784.65 requested by the Contractor to cover for the increase in price of ductile iron pressure pipe, fittings, and related materials from the bidding in September 2019 to September 2021.

When will it be completed?

The change order is estimated to be completed within 215 calendar days from the approval date of this change order.

What is the funding source?

The funding for this change order will be from Bond Funds under the line items **MP-PW-Misc-02** (Master Meter Implementation and Ongoing Meter Replacement and **PW 05-07** (Meter Replacement Program).

The RFP/BID responses (if applicable):

Not Applicable

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. 02-FY2022

RELATIVE TO APPROVAL OF CHANGE ORDER NO. 5 FOR THE GROUNDWATER PRODUCTION METER REPLACEMENT PROJECT GWA PROJECT NO. W19-001-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 retained Brown and Caldwell to develop bid-ready plans and specifications to replace faulty flow meters and to correct and standardize well head discharge piping for improvement in metering accuracy for **60 critical production wells**; and

WHEREAS, in anticipation of funding shortfall, the bid schedule was divided into Basic Bid, Additive Bid No.1 and Additive Bid No.2 (See Exhibit C); and

WHEREAS, the bid schedule states in the event the lowest responsive and responsible Bid exceeds the available budget, GWA may reject individual Bid items until the Bid amount fits within the available budget. If additional funding is obtained after the contract is executed, any or all deleted Bid items may be restored via Change Order (See Exhibit C); and

WHEREAS, on October 29, 2019, the CCU approved Resolution 04-FY2020 (See Exhibit D) authorizing GWA Management to enter into a contract with Giant Construction Corporation to provide construction services for the replacement of the above-ground discharge piping and meter for 30 critical production wells to improve measurement of the volume of

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groundwater that is produced from the wells and mitigate the under-or-over reported total production; and

WHEREAS, the above noted resolution approved the funding of One million Three Hundred Seventy-Nine Thousand Four Hundred Five Dollars (\$1,379,405.00), along with a ten percent (10%) contingency of One Hundred Thirty-Seven Thousand Nine Hundred Forty Dollars and Fifty Cents (\$137,940.50) to bring the total authorized funding amount to One Million Five Hundred Seventeen Thousand Three Hundred Forty-Five Dollars and Fifty Cents (\$1,517,345.50); and

WHEREAS, to address construction and material supply issues related to the initial Basic Bid scope, GWA Management has subsequently approved Change Order Nos. 1, 2, and 3 (See Exhibit E) with Giant Construction Corporation having an aggregate cost of Sixty-Four Thousand Four Dollars and Forty-Three Cents (\$64,004.43) which increased the total authorized contract value from One million Three Hundred Seventy-Nine Thousand Four Hundred Five Dollars (\$1,379,405.00) to One Million Four Hundred Forty Three Thousand Four Hundred Nine Dollars and Forty Three Cents (\$1,443,409.43), and adjusted the balance of the authorized contingency from One Hundred Thirty-Seven Thousand Nine Hundred Forty Dollars and Fifty Cents (\$137,940.50) to Seventy-Three Thousand Nine Hundred Thirty Six Dollars and Seven Cents (\$73,936.07); and

WHEREAS, due to operational issues on isolating the wells that has been delaying the Contractor's work progress, GWA has replaced two production wells listed in the Basic Bid Schedule with two other production wells with same wellhead size and similar length of the above-ground discharge piping, and is processing a no-cost Change Order no. 4 to reflect the changes (See Exhibit E); and

WHEREAS, Giant Construction Corporation to date has substantially completed the replacement of the above-ground discharge piping and meter for the 30 critical production wells that include 28 production wells listed in the Basic Bid Schedule; and

WHEREAS, GWA Management seeks to continue replacement of the above-ground discharge piping and meter to meet the original intent of the project; and

WHEREAS, GWA Management seeks to change order the existing contract scope with Giant Construction Corporation by adding the 15 critical production wells listed in Additive Bid No. 1; and

WHEREAS, GWA Management seeks CCU approval of Change Order No. 5 (See Exhibit A) with Giant Construction Corporation for Additive Bid No. 1 at the bid price of Six Hundred Eighty-Seven Thousand Nine Hundred-Sixty Dollars (\$687,960.00) plus an escalation cost of Fifty Three Thousand Seven Hundred Eighty-Four Dollars and Sixty Five Cents (\$53,784.65) which will bring the total change order amount to Seven Hundred Forty-One Thousand Seven Hundred Forty-Four Dollars and Sixty Five Cents (\$741,744.65) (See Exhibit B); and

WHEREAS, the escalation cost claimed by Giant Construction Corporation accounts for the increase in price of ductile iron pressure pipe, fittings, and meters from suppliers and are considered reasonable bringing the bid price dated September 27, 2019 to current; and

WHEREAS, the current total authorized amount of One Million Five Hundred Seventeen Thousand Three Hundred Forty-Five Dollars and Fifty Cents (\$1,517,345.50), which consists of the current total contract value of One Million Four Hundred Forty Three Thousand Four Hundred Nine Dollars and Forty Three Cents (\$1,443,409.43) and an adjusted contingency balance of Seventy Three Thousand Nine Hundred Thirty Six Dollars and Seven Cents (\$73,936.07), plus the proposed Change Order No. 5 amount of Seven Hundred Forty-One Thousand Seven Hundred Forty-Four Dollars and Sixty Five Cents (\$741,744.65) will bring the total authorized funding amount to Two Million Two Hundred Fifty Nine Thousand Ninety Dollars and Fifteen Cents (\$2,259,090.15); and

WHEREAS, funding for Change Order no. 5 will be PW 05-07 (Meter Replacement Program) and MP-PW-Misc-02 (Master Meter Implementation and Ongoing Meter Repl.); and

WHEREAS, GWA Management further seeks CCU approval to petition the Public Utilities Commission approval of the contract given this project meets the Contract Review Protocol requirements for GWA projects for which the use of Bond funds is intended.

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

- 1. The recitals set forth above hereby constitute the findings of the CCU.
- 2. The CCU finds that the terms of the conditions set by GWA relative to commencement of work activities are fair and reasonable and serve as a measure of Quality Assurance/Quality Control (QA/QC).
- 3. The CCU hereby authorizes the management of GWA to accept the change order proposal from "Giant Construction Corporation." attached hereto as Exhibit A and which is incorporated into this Resolution in its entirety.
- 4. The CCU hereby further authorizes the management of GWA to execute the Change Order No. 5 with "Giant Construction Corporation" in the amount Seven Hundred Forty-One Thousand Seven Hundred Forty-Four Dollars and Sixty-Five Cents (\$741,744.65).
- 5. The CCU hereby further approves the funding of the current authorized amount of One Million Five Hundred Seventeen Thousand Three Hundred Forty-Five Dollars and Fifty Cents (\$1,517,345.50) plus the Change Order No. 5 amount of Seven Hundred Forty-One Thousand Seven Hundred Forty-Four Dollars and Sixty-Five Cents (\$741,744.65) to bring the total authorized funding amount to Two Million Two Hundred Fifty-Nine Thousand Ninety Dollars and Fifteen Cents (\$2,259,090.15).
- The CCU hereby further approves the funding for this Change Order No. 5
 from the 2020 Bond MP-PW-Misc-02 (Master meter Implementation and
 Ongoing Meter Replacement) and 2013 Bond PW 05-07 (Meter Replacement
 Program).
- 7. The CCU hereby further authorizes the management of GWA to petition the PUC's approval of the Change Order No. 5.

RESOLVED, that the C	hairman certified and the Board Secretary attests to the
doption of this Resolution.	
DULY AND REGULARI	LY ADOPTED, this 26th day of October 2021.
Certified by:	Attested by:
JOSEPH T. DUENAS Chairperson	MICHAEL T. LIMTIACO Secretary
SEC	CRETARY'S CERTIFICATE
•	y signature above do hereby certify as follows:
regular meeting by the meduly and legally held at a quorum was present and the AYES: NAYS: ABSENT:	full, true and accurate copy of the resolution duly adopted at a embers of the Guam Consolidated Commission on Utilities, a place properly noticed and advertised at which meeting a emembers who were present voted as follows:
regular meeting by the meduly and legally held at a quorum was present and the AYES: NAYS:	embers of the Guam Consolidated Commission on Utilities, a place properly noticed and advertised at which meeting a
regular meeting by the meduly and legally held at a quorum was present and the AYES: NAYS: ABSENT: ABSTAIN:	embers of the Guam Consolidated Commission on Utilities place properly noticed and advertised at which meeting a

EXHIBIT A



CHANGE ORDER NO. 5

Project Title:	GROUNDWATER PROI	DUCTION ME	TER REPLACEME	NT		
Project No.:	W19-001-BND	IFB No. <u>05</u>	5-ENG-2019			
Contractor:	GIANT CONSTRUCTIO	N CORPORA	TION		NTI	P Date: APRIL 29,2020
TO: GIANT CONS	STRUCTION CORPORAT	TION				
	nake changes noted belo		ect contract. The ch	nanges are accept	ed by:	
	g	,		9		
Contractor Repres	entative (PRINT)		PREPARED BY	Ernesto Villa Project Engine		Date
				r roject Engine	iei, GWA	
			REVIEWED BY	:		
				Barbara Cruz	,	Date
Contractor Represe	ntative (SIGNATURE)	Date	_ RECOMMEND APPROVAL	Senior Engine	er Supervi	sor, GWA
Contractor represen	nauve (OIOIVATOILE)	Date	AFFROVAL	Brett E. Rai	lev. P.E.	Date
				Acting Chief E		
NATURE OF CHAN	GES:					
Scope of Change						
	all the 30 deep wells include					
	wn and Caldwell was inter					
	In anticipation of a fundir					
	1 for 15 wells, and (3) Add lowest responsive and re					
	unt fits within the available					
	s may be restored via cha		aditional fariality to t	solumou anor trio	oomiaot io	oxocatoa, arry arra arr
	al intent of the project to i		surement of volume	of groundwater th	at is produ	ced from the wells
	under-or-over reported to	tal production	, this change order	will add to the orig	ginal projec	t scope the 15 deep
wells listed in Ad	ditive Bid No. 1.					
2. Net Change in C	ost - \$741,744.65					
3. Contract Time Ex	xtension - 215 calendar da	ays from the a	approval of the char	nge order.		
THE CHANGES RE	SULT IN THE FOLLOWI	NG ADJUSTN	IENT OF CONTRA	CT PRICE:		
	to this Change Order				\$	1,443,409.43
	m this Change Order				\$	741,744.65
	· ·				φ	
Revised contract pri	ce after this Change Orde	er				2,185,154.08
THE CHANGES RE	SULT IN THE FOLLOWI	NG ADJUSTN	MENT OF CONTRA	CT TIME:		
Contract time prior to	this Change Order, with	breakdown g	iven below		624	Calendar Days
Net INCREASE fro	m this Change Order with	h breakdown given b	elow (subject to approved ter	ms and conditions)"	215	CD after CO Approval
	e after this Change Order				To be adj	usted after CO Approval
	piration Date after this Ch					usted after CO Approval
	<u> </u>	-				•••
CERTIFIED FUNDS						
	18155					
	832-OS	D DW MOO 00				
	2013 BOND PW 05-07 & MF	P-PVV-MISC-02	-	T P . N. T V	004 00	
	N344.105321.420000			Taling M. Taitano		FM Date
Amount:	\$741,744.65 			Chief Financial O	Ticer	
APPROVED AS TO	FORM:			APPROVED:	·	
Theresa G. Rojas	Date		-	Miguel C. Bordalle	n P F	Date
Legal Counsel, GW/				General Manager		5410



GIANT CONSTRUCTION CORP.

P.O. Box 9578 Tamuning, Guam 96931 Tel.: (671) 649-6472 • Fax.: (671) 646-3693

E-mail: giantconst@gmail.com

Sep. 22, 2021

Miguel C. Bordallo, P.E. General Manager **Guam Waterworks Authority** Gloria B. Nelson Public Service Building 688 Route 15 Mangilao, Guam 96913

Attention :

Barbara C. Cruz P.E. / Acting Chief Engineer

Project:

Groundwater Well Production Meter Replacement

GWA Project No. W19-001-BND

Subject: Change Order No. 04 - Additive Bid No. 01

Dear Ms. Cruz,

Hafa Adai! As a result of several communications between GWA and Giant Construction Corp. about the subject matter, we are pleased to submit our cost proposal to complete the 15 deep wells listed in Additive Bid No. 01 (See attached bid proposal).

Our bid price for Additive Bid No. 01 was \$687,960.00. On july 7, 2021, we advised GWA of the \$53,784.65 price escalation for piping materials from the bidding date on September 27, 2019 to July 7, 2021, thus increasing the Additive Bid No. 01 price to \$741,744.65.

At your request, we are confirming that Giant Construction Corp. will hold-on the escalated price of \$741,744.65 until November 30, 2021, and that any price increases from the date of this letter up to November 30, 2021 will be absorbed by Giant Construction Corp..

We plan to complete the 15 deep wells included in Additive Bid No. 01 within 210 days from approval date of this change order as shown in the attached work schedule. Please note that actual replacement of the above ground discharge piping will take only 15 weeks for us to complete due experience gained from the original contract.

Your approval of the change order is greatly appreciated. Should you have any question, please feel free to contact me at 489-2713.

Sincerely yours,

Vice Preisdent



E-mail: giantconst@gmail.com

July 7, 2021

Guam Waterworks Authority

Mr. Miguel Bordalio P.E. General Manager Gloria B. Nelson Public Service Building 688 Route 15 Mangila, Guam 96913

Atten: Mr. Ernie Villarin/Project Manager

Project: GWA Project No. W19-001-BND, Additive Bid No. 1

Subject: Material Price Increase for Groundwater Well Production Meter Replacement Project

Dear Mr Villarin!

Giant Construction Corp. kindly requests that GWA reflects the increased material price to the Additive Bid No. 1 for 15 EA deep wells.

The price of materials has changed since the original quotation due to Covid-19. The total cost of Additive Bid No. 1 of 15 deep wells would be \$326,748.38. For your reference, please see the following price changes

ITEM	Original	Additive 1	Difference
1. DI Spool & Fitting	\$51,227.32	\$82,745.12	\$31,517.80
Check valve & Butterfly valve etc.,	\$97,973.67	\$96,462.21	-\$1,511.46
HDG valve and Fitting	\$12,412.27	\$13,925.60	\$1,513.33
PVC pipe and Fitting	\$3,782.53	\$5,642.78	\$1,860.25
5. Pipe support	\$19,454.69	\$24,393.14	\$4,938.45
6. Freight	\$14,643.25	\$15,049.53	\$406.28
7. Water Flow meter15 ea	\$73,470.00	\$88,530.00	\$15,060.00
TOTAL of Well 15 ea	\$272,963.73	\$326,748.38	\$53,784.65

Your kind consideration will be greatly appreciated. Should you have any questions, please feel free to contact us.

Sincerely yours,

Inchul Chung/Vice-President

Sep. 22, 2021

Guam Waterworks Authority

Project: Groundwater Well Production Meter Replacement
Subject: Sequence of construction and work schedule

		PRO	JECT TITLE	- GROUNDW	AT	ER V	WELL	PROD	DUCT	ON I	METI	ER F	REP	LACE	ME	NT P	ROJ	ECT													
		9	SEQUEN	ICE OF CO	10	IST	RUC	TIC	NC	ANE) V	VO	RK	SC	HE	DL	JLE														
ITEMS	TASKS	START	END	DURATION	Г	Dec		Т	Jan-				Feb-		T		r-22		Ap	r-22	2		May			Ju	un-22	2	J	ul-22	
			70,000	WORK DAYS	6	13	20 27	3	10 1	7 22	31	7	14	21 2	8 7	14	21	28	4 1	18	25	2	9 1	5 23	30	6 1	3 20	27	4 :	11 18	25
1	Submitaals/shop Drawing	12.06.21	12.20.21	16				ш					_	_	┸	_		4		\perp	Ш				Ш			\perp			
2	Permits	12.06.21	2.06.22	62	G	H.																									
3	Ordering of Materials	12.20.21	03.20.22	90									Ε,																		
4	Meter Testing at GWA/MTF	03.21.22	04.03.21	13																П		П	T	Т	П						
5	Assemble material for Pressure Testing	03.21.22	04.17.22	28	Г		П	П							Т				DE			П	T	Т	П		Т	\Box	\Box		
6	Pressure Test and Disinfection	04.04.22	5.01.22	27				П		Т			П	T	Т										П			П	\Box		
7	Field installation	10.11.21	12.27.21	77	Г	П		П		Т		П		Т	Т	Т			Т	Г				T	П	\top	\top				
7-1	Well A-15	05.02.22	05.08.22	6	Г			П			П	П	\neg	T	T		П	\neg		Т	П		\top		П	\top	\top	\Box	\Box	\top	
7-2	Well F-16	05.02.22	05.08.22	6	Г	П		П		Т	П	П	\neg		Т			Т		П				T	П	\top	\top	\Box	\Box		
7-3	Well D-19	05.09.22	05.15.22	7	Г	П		П		Т	П	П	7	7	Т	Т	П	1			П			T	П		T	\Box	\Box		\vdash
7-4	Well M-23	05.09.22	05.15.22	7				П					T	Т	Т	Т		T			П			T	П	\top	\top	\Box	\Box	\top	
7-5	Well A-21	05.16.22	05.22.22	7	Г			П			П	П	7	\top	T		П	T			П		1		П	\top		П	\top	\top	\vdash
7-6	Well EX-11	05.16.22	05.22.22	7	Г			П			П		\neg	\top	T	\top	П	1			П	П			П	1	\top	\Box	\top	\top	
7-7	Well A-08	05.23.22	05.29.22	7	Г	П		П			П	П	\neg	\top	†		П	7	\top	\vdash	П	П			П	\top	\top	\Box	\top		\vdash
7-8	Well D-15	05.23.22	05.29.22	7				П			П		\neg	\top	†		П	\top			П		\top				\top	\Box	\top		\vdash
7-9	Well F-19	05.30.22	06.05.22	7	Г	П		П			П		7		†					Т	П					\top	$^{+}$	\Box	\top		\vdash
7-10	Well F-20	05.30.22	06.05.22	7	Г	П		П		T	П	\exists	\neg	\top	†		П			Т	П					1	\top	\Box			\vdash
7-11	Well M-21	06.06.22	06.12.22	7		П		\Box			П	\Box	\neg		†		П	\top	\top	Т	П	\top	+	T		1	†	\Box	\top		\vdash
7-12	Well D-28	06.06.22	06.12.22	7	Г	П		П					\neg		†			1			П		+				+	Н	1	1	1
7-13	Well D-07	06.13.22	06.19.22	7		П		П					7		†		\Box	1		\top	П		+					\forall	\top	+	\vdash
7-14	Well D-06	06.13.22	06.19.22	7		П		П					7	\top	†		\Box	1		\top	П		+	T	\vdash			\forall		1	\vdash
7-15	Well D-02	06.20.22	06.23.22	4		П		П					\neg	\top	†			1		\top	П		+	T	\Box			П			\vdash
8	Fianl Clean up	06.24.22	07.04.22	10	Г	П		\Box		\top	\vdash	\top	7	$^{+}$	+		\Box	\top		+	Н	+	+	+	\vdash	_		100		+	+

Submitted By:

Chung, In Chall Color Giant Construction

EXHIBIT C

Addendum No. 1

	Groundwater Well Production Meter Replacement GWA Project No. W19-001-BND										
		ВА	SIC BID								
Item No.	Description	Unit	Est. Quantity	Unit Price	Bid Price						
1	Mobilization and Demobilization (Maximum of 5% of the sum of Bid Price Items 2 thru 31)	LS	1	\$ 64.9at	\$ 64.901.00						
2	Well Y-15	LS	1	\$ 43.800.00	\$ 43.8m,vo						
3	Well Y-07	LS	1	\$ 444. 800,00	\$ 44.800.00						
4	Well Y-20	LS	1	\$ 43,800,00	\$ 43,800,00						
5	Well Y-19	LS	1	\$ 43, 800.00	\$ 43.800.00						
6	Well AG-02A	LS	1	\$ 43.800.00	\$ 43, 800.00						
7	Well Y-09	LS	1	\$ 413.800.00	\$ 43.800.00						
8	Well HGC-2	LS	1	\$ 43,800 in	\$ 43,800.00						
9	Well F-15	LS	1	\$ 44 Boo bo	\$ 44.800.00						
10	Well H-01	LS	1	5 49,800 a	\$ 49.800.00						
11	Well Y-14	LS	1	\$ 44.200.00	\$ 44,200,00						
12	Well D-25	LS	1	\$ 39.500,00	\$ 39.500.00						
13	Well D-27	LS	1	\$ 44.200.00	\$ 44,200,00						
14	Well F-13	LS	1	\$ 444.200, by	\$ 44.200.00						
15	Well Y-21A	LS	1	\$ 43.260, W	\$ 43,200,00						
16	Well M-18	LS	1	\$ 44,200,00	\$ 44, 200,00						
17	Well Y-22	LS	1	\$ 43.200,W	\$ 43, 200,00						
18	Well Y-23	LS	1	\$ 41,500,00	\$ 41.500,00						

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19	Well Y-17	LS	1	\$ <u>44.500</u> .00	\$ 44,500.00
20	Well D-01	LS	1	\$ 49.800.00	\$ 49.800.00
21	Well EX-05	LS	1	\$ 40. BUD. 00	\$ 40,800,00
22	Well Y-18	LS	1	\$ 43,600,00	\$ 43.600.00
23	Well AG-01	LS	1	\$ <u>39.800,</u> 60	\$ 39. Bov. 00
24	Well Y-10	LS	1	\$ 40.500,00	\$ 40,500,00
25	Well D-26	LS	1	\$ 42.600.00	\$ 42,600.00
26	Well A-04	LS	1	\$ <u>49. 400,</u> 10	\$ 49.400.00
27	Well F-17	LS	1	\$ 39,100,60	\$ 39,500,00
28	Well F-18	LS	1	\$ 39,500.W	\$ 39.500.10
29	Well A-13	LS	1	\$ 48.810.00	\$ 48,800,00
30	Well Y-12	LS	1	\$ 39, (00,00	\$ 39.500.00
31	Well A-10	LS	1	\$ 49, 800.00	\$ 49.800.00
				TOTAL BASE BID	\$ 1.379,405,00

	Groundwater W GWA F		duction Me No. W19-00		nt						
	ADDITIVE BID NO. 1										
Item No.	Description	Unit	Est. Quantity	Unit Price	Bid Price						
1	Mobilization and Demobilization (Maximum of 5% of the sum of Bid Price Items 2 thru 16)	LS	1	\$ 32.760.vo	\$ 32.760.00						
2	Well A-15	LS	1	\$ 48,800.00	\$ 48,800.00						
3	Well F-16	LS	1	\$ 40,500.00	\$ 40,500.00						
4	Well D-19	LS	1	\$ 47.800.00	\$ 47.800.00						
5	Well M-23	LS	1	\$ 40.500.00	\$ 40,500,60						
6	Well A-21	LS	1	\$ 42.20 60	\$ 42,200,00						
7	Well EX-11	LS	1	\$ 42,200.00	\$ 42,200.60						
8	Well A-08	LS	1	\$ 47.800.00	\$ 47,800.00						
9	Well D-15	LS	1	\$ 42.200 W	\$ 42,700.00						
10	Well F-19	LS	1	\$ 42,200,00	\$ 42, 2N, W						
11	Well F-20	LS	1	\$ 42,200,00	\$ 42,200,00						
12	Well M-21	LS	1	\$ 40 TON	\$ 40,500,00						
13	Well D-28	LS	1	\$ 42,200,00	\$ 42,200.00						
14	Well D-07	LS	1	\$ 40, 500 or	\$ 40,500,00						
15	Well D-06	LS	1	\$ 47.800,00	\$ 41, POD, PO						
16	Well D-02	LS	1	\$ 49,800,00	\$ 47.800.00 \$ 687.960.00						
_			TOTAL AD	DITIVE BID NO. 1	\$ 687.960.00						

Section 00 41 00 Bid Form Page 6

A CONTRACTOR OF THE PERSON OF	Groundwater W GWA I		duction Met		nt							
	ADDITIVE BID NO. 2											
Item No.	Description	Unit	Est. Quantity	Unit Price	Bid Price							
1	Mobilization and Demobilization (Maximum of 5% of the sum of Bid Price Items 2 thru 16)	LS	1	\$ <u>33,265</u> ,00	\$ 33,265.00							
2	Well M-02	LS	1	\$ 49.300,00	\$ 49,300.00							
3	Well D-24	LS	1	\$ 43,200,00	\$ 43.200.00							
4	Well M-03	LS	1	\$ 48.800 w	\$ 48,800,00							
5	Well M-05	LS	1	\$ 40.500,00	\$ 40,500 00							
6	Well M-07	LS	1	\$ 40,500,00	\$ 46 100.00							
7	Well F-07	LS	1	\$ 43.2000	\$ 43,200,00							
8	Well F-06	LS	1	\$ 43,200,00	\$ 43,200,00							
9	Well F-08	LS	1	\$ 43.200.00	\$ 43,200,00							
10	Well F-11	LS	1	\$ <u>43,700,00</u>	\$ 43,200.00							
11	Well A-14	LS	1	\$ 40,500.00	\$ 40,500,00							
12	Well F-04	LS	1	\$ 40.500.00	\$ 40,500,00							
13	Well F-02	LS	1	\$ 40,800,00	\$ 40.800.00							
14	Well M-01	LS	1	\$ 48.800.00	\$ 48.800.00							
15	Well X-XX	LS	1	\$ 49. Boo. 10	\$ 49.800.00							
16	Well X-XX	LS	1	\$ 49.800.00	\$ 49,800,00							
			TOTAL AD	DITIVE BID NO. 2	\$ 698, 565.00							

Section 00 41 00 Bid Form Page 7

Groundwater Well Production Meter Replaceme GWA Project No. W19-001-BND	nt
BID SUMMARY	
TOTAL BASIC BID AMOUNT	\$ 1,379,005.00
TOTAL ADDITIVE BID NO. 1	\$ 687,960.00
TOTAL ADDITIVE BID NO. 2	\$ 698,585,00
GRAND TOTAL (BASIC BID + ADDITIVE BID 1 + ADDITIVE BID 2) Two Millian Seven Hundred Sixfy File Thousand Line Hundred Thirty Only (Price in Words)	\$ 2,765,930.00

(If the Total Base Bid is within the amount of funds available, then the award will be made to the responsive and responsible bidder submitting the lowest Base Bid Price. In the event the lowest responsive and responsible Bid exceeds the available budget, GWA may reject individual Bid Items until the Bid Amount fits within the available budget. If additional funding is obtained after the contract is executed, any or all deleted Bid items may be restored via Change Order.)

EXHIBIT D

1 2

GUAM CCU

CONSOLIDATED COMMISSION ON UTILITIES

Guam Power Authority | Guam Waterworks Authority P.O. 80x 2977 Hagatna, Guam 96932 | (671)649-3002 | guamccu.org

RESOLUTION NO. 04-FY2020

RELATIVE TO APPROVAL OF GROUNDWATER PRODUCTION METER REPLACEMENT PROJECT GWA PROJECT NO. W19-001-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 operates approximately 100 groundwater production wells that range in production capacity from 50 to 755 gallons per minute and given GWA's efforts to better account for water system losses, the measured volume of the ground water production wells will play an important role in the water audit; and

WHEREAS, GWA is working to improve measurement the volume of groundwater that is produced from the wells through properly functioning flow meters to ensure under-or-over reported total production volumes are mitigated; and

WHEREAS, these deficiencies affect non-revenue water calculations, making it difficult to track distribution system losses; and

WHEREAS, replacement of production meters will require unobstructed, straight run, and full pipe for the length of three or more pipe diameters upstream of the meter and two or more diameters downstream to be accurate; and

WHEREAS, the condition of well head discharge piping at many well sites are also in poor condition due to excessive corrosion; and

WHEREAS, well head discharge piping needs to be standardized to reduce the number of meters, valves, fittings, and accessories to be stored resulting to cost savings; and

WHEREAS, in June 2017, GWA retained Brown and Caldwell (BC) to field test 60 existing wellhead flowmeters and to develop bid-ready plans and specifications to replace faulty flowmeters and to standardize well head discharge piping; and

WHEREAS, results of Brown and Caldwell (BC) meter tests using clamp on meter showed gpm values were generally less than the existing meter's gpm values, with some reading by 50 gpm or more; and

WHEREAS, GWA has advertised on August 2019 the Invitation For Bids (IFB-05-ENG-2019) for Groundwater Production Meter Replacement Project wherein GWA is soliciting bid proposals from experienced and responsive bidders for construction of the project; and

WHEREAS, this phase of work consists of furnishing all labor, tools, equipment and materials including coordination with GWA Water Production Operations and Engineering to construct all components described in the final design drawings and technical specifications which include but are not limited to replacement of water meter and above ground well discharge piping for 60 critical wells; and

WHEREAS, the bid schedule was divided into Basic Bid, Additive Bid No.1 and Additive Bid No.2 due availability of funds; and

WHEREAS, the bid schedule states if the total Basic Bid is within the amount of funds available, then award will be made to the responsive and responsible bidder submitting the lowest Basic Bid Price and in the event the lowest responsive and responsible Bid exceeds the available budget, GWA may reject individual Bid items until the Bid Amount fits within the

available budget, and if additional funding is obtained after the contract is executed, any or all deleted Bid items may be restored via Change Order; and

WHEREAS, IFB packages were picked up by seven (7) interested parties, from which GWA received bid proposal from one (1) of the seven (7) (SEE EXHIBIT A – Abstract of Bids) before the bid proposals deadline of September 27, 2019; and

WHEREAS, GWA Engineering analyzed the bid proposal received and determined that the bid package submitted by Giant Construction Corporation, the sole bidder, was responsive and responsible, and met all the bid requirements set forth by GWA (SEE EXHIBIT B – Bid Evaluation); and

WHEREAS, GWA Management finds Giant Construction Corporation Basic Bid Price acceptable and now seeks CCU approval of the bid proposal amount of One Million Three Hundred Seventy-Nine Thousand Four Hundred Five Dollars (\$1,379,405.00) attached hereto (SEE EXHIBIT C – Bid Proposal); and

WHEREAS, GWA Management further seeks CCU approval of a ten percent (10%) contingency to the Basic Bid proposal amount or One Hundred Thirty-Seven Thousand Nine Hundred Forty Dollars and Fifty Cents (\$137,940.50) to bring the total authorized funding amount to One Million Five Hundred Seventeen Thousand Three Hundred Forty-Five Dollars and Fifty Cents (\$1,517,345.50); and

WHEREAS, GWA Management further seeks CCU approval to petition the Public Utilities Commission approval of the contract given this project meets the Contract Review Protocol requirements for GWA projects for which the use of Bond funds is intended; and

WHEREAS, funding for this project will be from the CIP Line Item PW 05-07 Meter Replacement Program, IFCIP or any other CIP line item applicable to the project intent; 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.
- The CCU finds that the terms of the conditions set by GWA relative to commencement of work activities are fair and reasonable and serve as a measure of Quality Assurance/Quality Control (QA/QC).
- The CCU hereby authorizes the management of GWA to accept the bid proposal from "Giant Construction Corporation." 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 "Giant Construction Corporation" in the amount One Million Three Hundred Seventy-Nine Thousand Four Hundred Five Dollars (\$1,379,405.00).
- 5. The CCU hereby further approves the funding total of One Million Three Hundred Seventy-Nine Thousand Four Hundred Five Dollars (\$1,379,405.00) plus a ten percent (10%) contingency of One Hundred Thirty-Seven Thousand Nine Hundred Forty Dollars and Fifty Cents (\$137,940.50) for a total funding amount of One Million Five Hundred Seventeen Thousand Three Hundred Forty-Five Dollars and Fifty Cents (\$1,517,345.50).
- 6. The CCU hereby further approves funding for this project to be from the CIP Line Item PW 05-07 "Meter Replacement Program", IFCIP or any other CIP line item applicable to the project intent

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

DULY AND REGULARLY ADOPTED, this 29th day of October 2019.

Certified by: Attested by:

JOSEPH T. DUENAS MICHAEL T. LIMTIACO

Chairperson Secretary

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SECRETARY'S CERTIFICATE

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

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

AYES: S

NAYS: O

ABSTENTIONS: U

ABSENT: _______





CHANGE ORDER NO. _1_

Project Title:	GROUNDWATER PRODUCTION METER REPLACEMENT		
Project No.:	W19-001-BND IFB No. 05-ENG-2019	·····	
Contractor:	GIANT CONSTRUCTION CORPORATION	N	TP Date: APRIL 29,2020
	ISTRUCTION CORPORATION make changes noted below in the subject contract. The changes are accepted by:	/	
Contractor Represen	ntative (PRINT) PREPARED BY: Emetto Villarin Project Engine		09/15/2 Date
	REVIEWED BY : Barbara Cruz, I		9 16 20 Date
Contractor Represen	ntative (SIGNATURE) Date RECOMMEND APPROVAL: Barbara Cruz, Acting Chief Er	P.E.	9 14 20 Date
NATURE OF CHAN	IGES:		
1. Changed water i	IGES: meter Output/Input option from 2x Pulse/Switch Output, 1x Status Input, to GSM, Anter tiput, 1x Status Input. This would allow wireless communication with the meter in the s		
Changed water in Pulse/Switch Out \$36,168.10)	meter Output/Input option from 2x Pulse/Switch Output, 1x Status Input, to GSM, Anter	absence of	SCADA. (Additive -
Changed water in Pulse/Switch Out \$36,168.10) In coordination v	meter Output/Input option from 2x Pulse/Switch Output, 1x Status Input, to GSM, Anter itput, 1x Status Input. This would allow wireless communication with the meter in the a with Operations, some fittings were deleted without affecting the system's function. (De	absence of	SCADA. (Additive -
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1. Changed water in Pulse/Switch Ou \$36,168.10) 2. In coordination with the Changes REContract price prior to the INCREASE from the Changes REContract time prior to the INCREASE from the Revised contract time Revised Contract Exercised Contr	meter Output/Input option from 2x Pulse/Switch Output, 1x Status Input, to GSM, Anterpotent, 1x Status Input. This would allow wireless communication with the meter in the switch Operations, some fittings were deleted without affecting the system's function. (Delete N COST (Additive - \$21,802.27). SULT IN THE FOLLOWING ADJUSTMENT OF CONTRACT PRICE: to this Change Order In this Change Order In this Change Order ISULT IN THE FOLLOWING ADJUSTMENT OF CONTRACT TIME: To this Change Order, with breakdowin given below. Is Change Order with breakdown given below (subject to approved terms and conditions) The after this Change Order Repiration Date after this Change Order	\$ \$ \$ \$ \$ 0 365	14,365.83) 1,379,405.00 21,802.27 1,401,207.27 Calendar Days Calendar Days Calendar Days
1. Changed water in Pulse/Switch Ou \$36,168.10) 2. In coordination with the Changes REContract price prior to the INCREASE from the INCREA	meter Output/Input option from 2x Pulse/Switch Output, 1x Status Input, to GSM, Anterpot, 1x Status Input. This would allow wireless communication with the meter in the switch Operations, some fittings were deleted without affecting the system's function. (De N COST (Additive - \$21,802.27). SULT IN THE FOLLOWING ADJUSTMENT OF CONTRACT PRICE: to this Change Order	s s s s 365 0 365 Thur	14,365.83) 1,379,405.00 21,802.27 1,401,207.27 Calendar Days Calendar Days Calendar Days Calendar Days 3day, April 29, 2021

Date

Miguel C. Bordallo, P.E

General Manager, GWA



Gloria B. Nelson Public Service Building 688 Route 15, Mangilao, Guam 96913

		CHANGE ORDER NO.	<u></u>
Project Title:	GROUNDWATER P	RODUCTION METER REPLACEM	MENT
Project No.:	W19-001-BND	IFB No. <u>05-ENG-2019</u>	
Contractor:	GIANT CONSTRUC	TION CORPORATION	NTP Date: APRIL 29,2020
TO: GIANT CO	INSTRUCTION CORPO	RATION	
You are directed	to make changes noted I	pelow in the subject contract. The	changes are accepted by:
	esentative (PRINT)	PREPARED BY	Y: Erzesto Villarin Date Project Engineer, GWA
	10	REVIEWED BY	Y: Dy Date O4 22 20;
Contractor Repre	sentative (SIGNATURE)	Date RECOMMEND	Senior Engineer Supervisor, GWA : Mauryn McDonald, P.E. Date Acting Chief Engineer, GWA
NATURE OF CHA	ANGES:	ollowina:	
Septembe arrival of v (165 days	er 21, 2020. Contractor water meters on February after arrival of complete	vas able to assemble the discharge v 4, 2021. Per Contractor's origina	ly ordered after the approval of change order on e piping for pressure testing and disinfection after the schedule, project will be completed in 5.5 months
2. NET CHANG	E IN COST - There is no	cost adjustment involved in this ch	nange order.
Contract price pri	RESULT IN THE FOLLO or to this Change Order from this Change Order	OWING ADJUSTMENT OF CONTR	RACT PRICE: \$ 1,401,207.27
	price after this Change (
THE CHANGES	RESULT IN THE FOLLO	WING ADJUSTMENT OF CONTR	RACT TIME:
Contract time price	or to this Change Order,	with breakdown given below.	·· ··· ··· ··· ₋ ·· 365 Calendar Days
	_	with breakdown given below (subject to approved	ALA A
Revised contract	time after this Change C	Order	
Revised Contract	t Expiration Date after thi	s Change Order	Monday, July 25, 2021
CERTIFIED FUN	DS AVAILABLE:	1	
Vendor No.:	18155		
Contract No.:	832-OS		200
Funding Source:	2016 BOND PW 05-0	7 & SDC	N/A
G.L. N O.:	W344.105321.420000		Taling M. Taitano, CPA, CGFM Date
Amount:	\$0.00		Chief Financial Officer

General Manager, GWA

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APPROVED:

Miguel C. Bordallo, P.E.



Gloria B. Nelson Public Service Building 688 Route 15, Mangilao, Guam 96913

CHANGE ORDER NO. 3

Project Title:	GROUNDWATER PRODUCTION	ON METER REPLACE	MENT			
Project No.:	W19-001-BND IFB N	o. <u>05-</u> ENG-2019				
Contractor:	: GIANT CONSTRUCTION CORPORATION			NTP Date: APRIL 29,2020		
TO: GIANT CON	ISTRUCTION CORPORATION					
You are directed to	make changes noted below in the	e subject contract. The	changes are accep	ted by:		
Contracto Repre	sentative (PRINT)	021 PREPARED B	Y : Erney o Ville Project Engine		06/15/21 Date	
		REVIEWED B	Y: Barbara Crus Senior Engine		6/15/2021 Date	
Contractor Represe	entative (SIGNATURE) Dat	e RECOMMENI e APPROVAL		onald, P.E.	6/16/202 Date	
the minimur above grou concrete thi b. The last fitti be changed c. Additional p	ges: to flange distance (from well head in length required for standardizati and discharge piping by excavating rust block and backfill. Additional ing (45 degree bend) before enter I to flange type which is the stand ipe support for the bypass line for	ion. To meet the standa portion of the exit pipe cost = \$26,662.16 incluing the ground for deep ard for above-ground fit	ardization length, it is , replace existing dia uding <u>Item b</u> below well AG-02 is of me ting connections.	s necessary to agonal pipe ar	e lengthen the lend fittings, install	
2. Net Change in	Cost - \$42,202.16.					
3. Contract Time	Extension - 93 calendar days.					
THE CHANGES R	ESULT IN THE FOLLOWING AD	JUSTMENT OF CONT	RACT PRICE:			
Contract price prior	r to this Change Order			\$	1,401,207.27	
Net INCREASE fi	om this Change Order			\$	42,202.16	
Revised contract p	rice after this Change Order			\$	1,443,409.43	
Contract time prior Net INCREASE fi Revised contract ti	to this Change Order, with breakdorn this Change Order with breakdorn with breakdorn this Change Order Expiration Date after this Change	down given below. wn given below (subject to approve		93 C	calendar Days calendar Days calendar Days cy, October 27, 2021	
CERTIFIED FUND	S AVAILABLE:					
Vendor No.:	18155					
Contract No.:	832-OS			٨		
Funding Source:	2013 BOND PW 05-07		mone	two	7/22/2021	
G.L. NO.:	W344.105321.420000	P	moTaling M. Taitano	, CPA, CGFN	1 Date	
Amount:	\$42,202.16	U	Chief Financial O		(gr)	
	APPROV	ED:			<u>-</u>	

General Manager, GWA

Miguel C. Bordallo, P.E.

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

DRAFT

CHANGE ORDER NO. 4

Project Title:	GROUNDWATER PRO	DDUCTION M	ETER REPLACEMEI	NT				
Project No.:	W19-001-BND	IFB No. 0	5-ENG-2019					
Contractor:	GIANT CONSTRUCTION	ON CORPORA	ATION		NTF	P Date: APRIL 29,2020		
TO: GIANT CON	ISTRUCTION CORPORA	ATION				<u> </u>		
	make changes noted bel	_	ect contract. The cha	anges are accept	ed hv			
rod dre directed to	make dranges noted bei	ow in the subj	cor contract. The one	anges are accept	ou by.			
-			PREPARED BY:	-				
Contractor Representative (PRINT)				Ernesto Villa		Date		
				Project Engine	er, GWA			
			REVIEWED BY:					
				Barbara Cruz		Date		
			DECOMMEND	Senior Engine	er Supervis	sor, GWA		
Contractor Represe	entative (SIGNATURE)	Date	RECOMMEND APPROVAL :					
Date AFTIOVAL			ATTROVAL .	Brett E. Rail	ey, P.E.	Date		
				Acting Chief E		WA		
NATURE OF CHAI	NGES:							
1. Scope of Chang								
	1, there were 3 deep well							
1 1 1	s hampered by operation		•					
	Contractor was allowed t		•			•		
issues for deep wells AG-01 and A-04 continue. To avoid further delay in the completion of the project, Engineering and Operations agreed to replace deep wells AG-01 and A-04 with deep wells F-02 and F-04. The selection of deep wells F-								
02 and F-04 was based on having same size of well head and similar length of the above-ground discharge piping.								
	is working on a change of							
	. This change order will re he contract completion da							
		ate to January	14, 2022, to allow till	lely execution of	ine proposi	ed change order		
within the contract period. 2. Net Change in Cost - \$0.00								
	Extension - 79 calendar da	01/0						
		•						
	ESULT IN THE FOLLOW				•			
Contract price prior	to this Change Order				\$	1,443,409.43		
Net INCREASE fr	om this Change Order				\$	-		
Revised contract p	rice after this Change Ord	der			\$	1,443,409.43		
THE CHANGES RI	ESULT IN THE FOLLOW	ING ADJUST	MENT OF CONTRAC	CT TIME:				
Contract time prior	to this Change Order, with	h breakdown g	given below		545	Calendar Days		
Net INCREASE fr	om this Change Order w	rith breakdown given	below (subject to approved tern	ns and conditions)"	79	Calendar Days		
	me after this Change Orde				624	Calendar Days		
	Expiration Date after this C					, January 14, 2022		
		orlange Graci			Tilday	, oandary 11, 2022		
CERTIFIED FUND								
Vendor No.:	18155							
Contract No.:	832-OS							
Funding Source:	2013 BOND PW 05-07		=					
G.L. NO.: W344.105321.420000				Taling M. Taitano, CPA, CGFM Date				
Amount: \$0.00			(Chief Financial Of	ficer			
APPROVED AS TO	FORM:			APPROVED:				
			<u>-</u>					
Theresa G. Rojas	Date			/liguel C. Bordallo		Date		
Legal Counsel, GW	/A		(General Manager,	GWA			



Gloria B. Nelson Public Service Building | 688 Route 15 | Mangilao, Guam 96913 Tel: (671) 300-6846

Issues for Decision

Resolution No. 03-FY2022

Relative to Approval of Change Order No. 2 for the Tai Road/S-13 and Canada-Toto Loop/Blas Street Waterline Replacement Project

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

The objective of this additional work is to resolve flow and pressure issues experienced by residents on Taison Road, who have service connections at Canada-Toto Loop. The existing revenue meters for residence of Taison Road are all located at the Canada-Toto Loop/Taison Road intersection leading to long runs of 1 to 1¼-inch galvanized pipe to the houses further down Taison Road. Residents located along Taison Road are experiencing water flow and pressure issues that will not be resolved by the original contract scope. The scope of work for Change Order No. 2 is to replace the existing 1 to 1¼-inch galvanized pipes along Taison Road with approximately 1,052 LF of new 6-inch diameter PVC pipe. The work includes the relocation of existing meters from the entrance of the road to the front of each house, installation of fire hydrants for fire protection, disconnection from the existing 6-inch asbestos pipe and connection of the new 6-inch diameter PVC pipe to the existing 12-inch water main along Canada-Toto Loop. This change order is necessary to improve the water distribution system in this area, correct problematic service laterals and resolve the recurring water flow and pressure issues affecting residents on Taison Road.

Where is the location?

The Taison Road is a branch road connected to Canada-Toto Loop in Mongmong-Toto-Maite village.

How much will it cost?

The final cost estimate for the change order is Five Hundred Fifty-Eight Thousand One Hundred Thirty-Five Dollars (\$558,135.00).

When will it be completed?

The contractor is expected to complete the Change Order No. 2 scope of work within 110 calendar days.

What is the funding source?

2020 Bond under the MP-PW-Pipe-12 Rehabilitation and Replacement Program funds.

The RFP/BID responses (if applicable):

Not Applicable

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. 03-FY2022

RELATIVE TO CHANGE ORDER NO. 2 CONTRACT APPROVAL FOR THE TAI ROAD/S-13 AND CANADA-TOTO LOOP/BLAS STREET WATERLINE REPLACEMENT PROJECT; GWA PROJECT NO. M19-001-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 intends to continue the waterline replacement program as part of GWA's efforts to reduce non-revenue water and make improvements to the system where service delivery has been below standard; and

WHEREAS, on April 27, 2021, the CCU approved via Resolution 19-FY2021 for GWA management to enter into contract with Giant Construction Corporation to construct the Tai Road/S-13 and Canada-Toto Loop/Blas Street Waterline Replacement project to upgrade and replace existing old and leaking waterlines of various diameters, lengths, and locations to reduce water loss in the water distribution system; and

WHEREAS, the above noted resolution approved the funding total of One Million Nine Hundred Forty-Five Thousand Seven Hundred Twenty Dollars (\$1,945,720.00), along with a ten percent (10%) contingency of One Hundred Ninety-Four Thousand Five Hundred Seventy-Two Dollars (\$194,572.00) to bring the total authorized funding amount to Two Million One Hundred Forty Thousand Two Hundred Ninety-Two Dollars (\$2,140,292.00); and

 WHEREAS, one of the line replacement locations included as part of Giant Construction's scope of work is the arterial Canada-Toto Loop Road which calls for branch waterlines, service connections and other water appurtenances to be disconnected from the existing and breakage-prone 6-inch diameter asbestos cement pipe (ACP) and reconnected to an existing 12-inch diameter polyvinyl chloride (PVC) watermain; and

WHEREAS, Taison Road, a branch road connected to the Canada-Toto Loop having existing revenue meters all located at the intersection of Canada-Toto/Taison Road connected to the existing 6-inch ACP line and leading to long runs of 1 to 1 1/4-inch galvanized pipe to the houses further down the road; and

WHEREAS, this configuration of service lateral connections for residents along Taison Road results in water flow and pressure issues which will not be improved by the original scope of construction for the waterline replacement at Canada-Toto Loop; and

WHEREAS, GWA management seeks to change order the existing contract scope with Giant Construction Corporation to replace the existing 1 to 1 ¼-inch galvanized pipe along Taison Road with new 6-inch diameter PVC pipes, install fire hydrants for fire protection, and relocate existing service water meters from the entrance of Taison Road to the front of each house; and

WHEREAS, Dueñas, Camacho & Associates, Inc. (DCA), the Construction Management (CM) consultant firm overseeing the construction of the project negotiated with Giant Construction Corporation to replace the existing 1 to 1 1/4-inch galvanized waterline to 6-inch PVC pipe (See Exhibit A) along Taison Road; and

WHEREAS, GWA Management seeks CCU approval of the Change Order No. 2 with Giant Construction Corporation to replace the existing 1 to 1 ¹/₄-inch diameter waterline along Taison Road with 6-inch diameter PVC pipes complete in place at a cost of Five Hundred Fifty-Eight Thousand One Hundred Thirty-Five Dollars (\$558,135.00); and

WHEREAS, GWA Management previously approved the Change Order No. 1 for Giant Construction Corporation to obtain the services of an archaeological firm to prepare the archaeological research design for Tai Road and Blas Street/Canada-Toto Loop intersection as required by the Department of Parks and Recreation – State Historic Preservation Office ((DPR-SHPO) at a cost of Sixteen Thousand Three Hundred Eighteen Dollars (\$16,318.00) which brought the total construction contract value to One Million Nine Hundred Sixty Two Thousand Thirty Eight Dollars (\$1,962,038.00) (See Exhibit B); and

WHEREAS, the adjusted total authorized contract value of One Million Nine Hundred Sixty-Two Thousand Thirty-Eight Dollars (\$1,962,038.00) plus the proposed Change Order No. 2 amount of Five Hundred Fifty-Eight Thousand One Hundred Thirty-Five Dollars (\$558,135.00) will bring the total authorized contract amount to Two Million Five Hundred Twenty Thousand One Hundred Seventy-Three Dollars (\$2,520,173.00); and

WHEREAS, funding for the proposed Change Order No. 2 will utilize 2020 Bond under the MP-PW-Pipe-12 Rehabilitation and Replacement Program funds; and

WHEREAS, GWA Management further seeks CCU approval to petition the Public Utilities Commission's approval of the Change Order No. 2 as may be required under the Contract Review Protocol requirements for GWA projects.

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

- 1. The recitals set forth above hereby constitute the findings of the CCU.
- 2. The CCU finds that the terms of the conditions set by GWA relative to commencement of subsequent 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 Change Order proposal from "Giant Construction Corp." attached hereto as Exhibit A, and which is incorporated into this Resolution in its entirety.

- 4. The CCU hereby further authorizes GWA management to execute the Change Order No. 2 with "Giant Construction Corp.", in the amount of Five Hundred Fifty-Eight Thousand One Hundred Thirty-Five Dollars (\$558,135.00).
- 5. The CCU hereby further approves the increase contract value of One Million Nine Hundred Sixty-Two Thousand Thirty-Eight Dollars (\$1,962,038.00) plus the Change Order No. 2 amount of Five Hundred Fifty-Eight Thousand One Hundred Thirty-Five Dollars (\$558,135.00) to bring the total authorized contract amount to Two Million Five Hundred Twenty Thousand One Hundred Seventy-Three Dollars (\$2,520,173.00);
- 6. The CCU hereby approves the funding for the Change Order No. 2 will be from the 2020 Bond proceeds under the MP-PW-Pipe-12 "Rehabilitation and Replacement Program".
- 7. The CCU hereby further approves GWA management to petition the PUC's approval of the Change Order No. 2 as may be required under the Contract Review Protocol.

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

DULY AND REGULARLY ADOPTED, this 26th day of October 2021.

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

1	CCO Meeting, Octor	Der 26, 2021 - GWA
1	SECRETARY'S	CERTIFICATE
2	i, whichaef I. Lillitiaco, Board Secretary (of the Consolidated Commission on Utilities as
3	evidenced by my signature above do here	by certify as follows:
4	The foregoing is a full, true and accura	ate copy of the resolution duly adopted at a
5	regular meeting by the members of the	Guam Consolidated Commission on Utilities, y noticed and advertised at which meeting a
6	quorum was present and the members wh	
7	AYES:	
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10	ABSENT:	
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DUEÑAS: CAMACHO

EXHIBIT - A

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

August 16, 2021

Miguel C. Bordallo, P.E.

General Manager. Guam Waterworks Authority Gloria B. Nelson Public Service Building 688 Route 15, Mangilao, Guam, 96913

Attn: Gloria Bensan, Project Manager, Guam Waterworks Authority

Via: Email: gpbensan@guamwaterworks.org

Ref: Tai Road/S-13 and Canada-Toto Loop/Blas Street Waterline Replacement

Project No. M19-001-BND

Subject: Change Order Recommendation for New 6-inches Waterline at Taison Road

Sir / Ma'am,

This letter is in referenced to the review and analysis performed by Duenas Camacho and Associates, Inc. to the latest cost proposal submitted by GIANT Construction Corporation dated August 13, 2021. The proposal is in response to Guam Waterworks Authority's additional requirement under Project No M19-001-BND to install new 6-inches waterline along Taison Road (see Attachment) and replace the existing 2-inches waterline. Comparison and analysis was done in referenced to Additive Bid #01 wherein the same scope of work at S-13 Road was submitted and being part of the existing contract. Pricing on a couple of line items such as mobilization and installation of new 6-inches PVC line that shows significant unit cost increase was discussed with the Contractor. Reasonable explanation that clarifies the Resident Project Representatives' (RPR) concern leads to the acceptance of the said change proposal which also includes the cost to cover the design aspect.

Recommendations:

DCA, Inc. recommends that Change Order #02 be awarded to the Contractor with the total lump sum amount of *Five Hundred Fifty Eight Thousand One Hundred Thirty Five and 00/100 Dollars* (\$558,135.00) that includes Tax, Bonds & Insurance, and Contractor's Fees. The total project cost is summarized below:

Original Contract Amount	\$1,945,720.00
Change Order #01 (Additive – Archeological Consultancy Service)	\$16,318.00
Current Contract Amount	\$1,962,038.00
Change Order #02 (Additive – Taison Road Waterline)	\$558,135.00
New Contract Amount (up to CO#02)	\$2,520,173.00

August 24, 2021

Time Extension Request:

Contractor did not include any time extension request related to this additive Change Order. Hence, project duration to substantial completion remains at 365 Calendar Days from issued date of notice to proceed. Should the Contractor later request for such time extension with supporting justification, evaluation will be done and separate recommendation will be submitted to the Owner for further review and acceptance.

Regards,

Kenneth M. Rekdahl, PE Dueñas, Camacho and Associates Resident Project Representative

Cc: Rodolfo Gasal, DCA Editha B. Thompson, DCA



GIANT CONSTRUCTION CORP.

P.O. Box 9578 Tamuning, Guam 96931 Tel.: (671) 649-6472 • Fax.: (671) 646-3693

E-mail: giantconst@gmail.com

Aug. 13, 2021

Guam Waterworks Authority

Mr. Miguel Bordallio General manager P.O. Box 3010 Hagatna, Guam 96913

Attention: Mr. Mauryn McDonald P.E. / Acting Chief Engineer

Project: Tai Road/S-13 and Canada-Toto Loop/Blas Street Water line Replacement

GWA Project No. M19-001-BND

Subject: Proposal of Taison Road 6 inch PVC water line and serice lateral and connection work

GUAM WATERWORKS AUTHORITY TAI ROAD/5-13 AND CANADA/TOTO LOOP/BLAS STREET WATERLINE REPLACEMENT GWA Project No. M19-001-BND

UNIT PRICE of Additional work in Taison Road

Additional Work Order Taison Road breakdown

Work consists of replacing an existing linch and 2 inch water line to a new 6 inch PVC water line along the Taison Road and reconnecting all service connections,. New 6 inch water line connect to existing 12" main line on the Canada-Toto Loops.

Item No	Description	Unit	Unit Price	Qty	Bid Amount
1	Mobilization and Demobilization (For additional costs associated with bonding, insurance and permits for this additive bid)	Lump Sum	\$ 78,000.00	1	\$ 78,000.00
2	Erosion Control Measures (Includes silt fence and all other required temporary best management practices necessary to control sediment runoff)	Lump Sum	\$ 8,400.00	1	\$ 8,400.00
3	6" PVC Pressure Pipe Class 235 psi (DR 18) (Includes excavation, bedding, pipe, backfill and any necessary asphalt or grass replacement)	Lin. Ft	\$ 175.00	1,052	\$ 184,100.00
4	1" Service Line	Lin. Ft	\$ 105.00	325	\$ 34,125.00
5	Reconnection of 3/4" Single Meter installation on 6-inch Water Main (Includes Service Saddle and all Fittings necessary to make the	EA	\$ 2,900.00	24	\$ 69,600.00
6	Fire Hydrant Assembly (Includes 5 LF of 6 inch PVC lateral service line and all pipe, bends and thrust blocks nessary to complete the installation)	EA	\$ 7,000.00	2	\$ 14,000.00
7	2" Permanent Blowoff Assembly in Valut (Complete in Place)	Lump	\$ 5,200.00	1	\$ 5,200.00
8	Combination Air Release Valve in valve box	Lump Sum	\$ 5,500.00	1	\$ 5,500.00

9	Pressure Testing and Disinfection of New Waterline (Taison Road)	Lump	\$	12,500.00	1	\$ 12,500.00
10	Fittings and thrust block	EA	\$	8,500.00	0.7	\$ 5,950.00
11	Traffic Control including traffic control work, flagman, all traffic control devices, placement and removal fo devices and detours, cleanup, restoration, and incidentals.	Lump Sum	\$	20,000.00	1	\$ 20,000.00
12	12" x 6" Connection Tapping work (Wet Tapping	LS	\$	13,500.00	1	\$ 13,500.00
13	2" HDPE pipe	LF	\$	98.00	670	\$ 65,660.00
14	Disconnect the existing water line form existing 12" water line on Canada-Toto Loop road	LS	\$	4,000.00	1	\$ 4,000.00
15	Existing service water meter relocate near house	EA	\$	1,400.00	9	\$ 12,600.00
16	As-Builts drawings	Lump Sum	\$	5,000.00	1	\$ 5,000.00
17	Design work include survey work	Lump	\$	20,000.00	1	\$ 20,000.00
1	Additional work Proposal of Taison Road (TOT	AL Item 1	L thro	ugh 17, inclus	ive)	\$ 558,135.00
	(Please write out tota				7.	
ive	Hundred Fifty Eight Thousand One Hundred Thirty					

Chung, In Chul Giant Construction Corp.



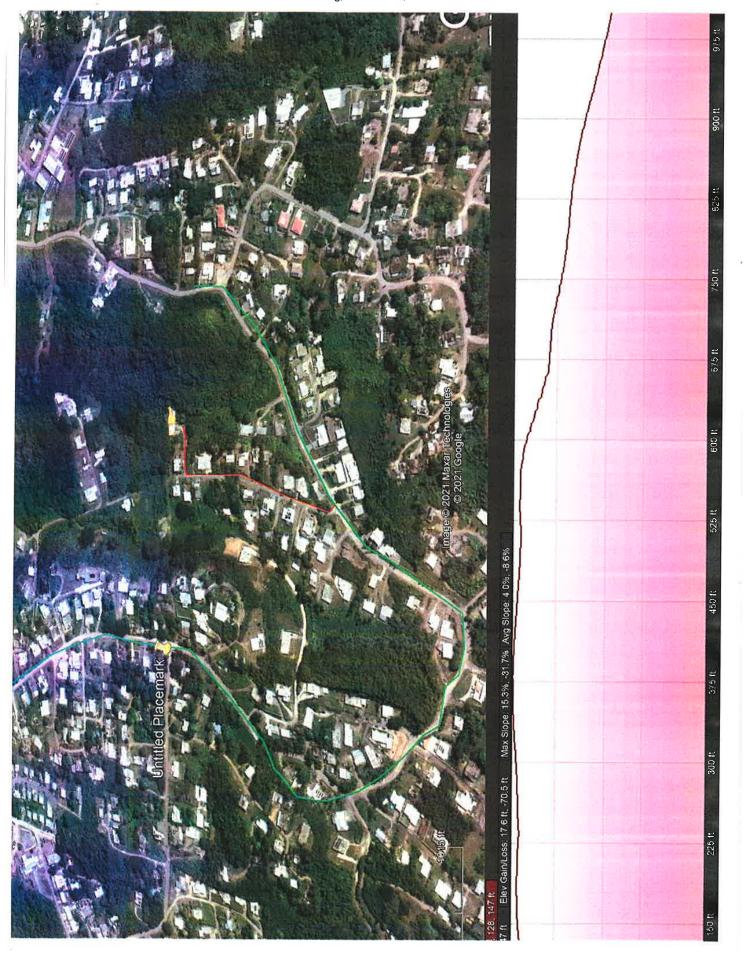


EXHIBIT B



2nd Floor, Gio ia B. Nelson Public Service Bldg. 688 Route 15, Mang lad. Giram 95013

CHANGE ORDER NO. 01

Project No. & Title:	M19-001-BND TAIR	OAD/S-13 AND CANADA	-TOTO LOOP/BLAS STREET WATE	RLINE REPLACEMENT
Contractor:	Giant Construction Co	prporation	Original Contract Appro	oved: May 12, 2021
TO: Glant C	onstruction Corporation			
You are directed to ma	ke changes noted below in	the subject contract. Ti	he changes are accepted by:	
Giant Construction Con	peration:		Prepared by:	
Mounts	Oliv -		Gloria P Bensan Digital	y signed by Gloria P Bensan 021.08.16 08:49:48 + 10'00'
IN-CHUL CHUNG,	Vice President		GLORIA P. BENSAN	
(Name an	d Title)		Project Manager	Date
//	1			
Convers on his	WALL OF			
Duenas, Camacho			Recommend Approval:	
o demos, comocno	a Hosoc, Civi		ACun.	Digitally signed by Barbara C. Cruz, P. Date: 2021.08.16 14:12:41 +10'00'
Fund Source: Bond 202	0 MP-PW-Pipe-12		BARBARA C. CRUZ, P.E.	
Contract No.:	3008 OS		Acting Chief Engineer	Date
Vendor No.:	22557			
Amount:	\$16,318.00			
Englagues	required by the Depart	tment of Parks and Recre		materials as
Enclosures:	Copy of original contra	ct, archaeological fee pr	oposal and scope of work.	
The changes result in th	e following adjustment of	contract price and time	2;	
Contract amount prior t				\$1,945,720.00
Net (increase)(decrease)	from this Change Order (s	subject to approved term	ns and conditions)	\$16,318.00
Current contract price in Contract time price to th	cluding this Change Order is Change Order 365	anton da catal	-	\$1,962,038.00
Net (increase)(decrease)	resulting from this Chang	calendar days.	days from original completion.	
Current contract time in	cluding this Change Order	365 days	days from original completion.	
Contract time extremial	will be evaluated as yorks.	teed after DPS recognise	fluctung/esic kichwest penter	
CERTIFIED FUNDS AVAIL	ABLE: APPRO ly signed by	OVED AS TO FORM:	APPROVED:	/
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TALING M. TAITANO, CP	A, CGFM	O. CLARK	MIGUEL C. BORDA	LO, P.E.
Certifying Officer	Genera	I Counsel	General Manager	,
Date:	Date:	9/20/2021	Date: 9.2 9	, 2021
		/-/		_ ,



"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. 04-FY2022

Relative to approval of funding and contract amount increase for the Indefinite Delivery/Indefinite Quantity (IDIQ) Professional Project/Construction Management Services Contract, to enable execution for multiple task orders, to include the following:

- 1. Project Management/Construction Management for Phase 3 Tank Inspection and Repairs
- 2. Project Management/Construction Management of District Metering Area (DMA) and Pressure Zone Realignment (PZR) Construction
- 3. Construction Management of Deep Wells A-23 and A-25 GAC System Installation
- 4. Construction Management Services for Groundwater Wells A-02, A-12, D-05, and F-03 Rehabilitation Construction
- 5. Construction Management for Waterline Replacement Construction; and

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

GWA currently has an IDIQ contract with Duenas, Camacho, and Associates (DCA). The amendment will increase funding to issue task orders for the projects listed above to perform project management and construction management services. The projects cited are necessary in that they are in accordance with the CCU-approved 5-Year Capital Improvement Program (CIP) to address EPA and other regulatory compliance priorities.

The projects listed are critical:

- 1. Phase 3 Tank Inspection and Repairs: Schedule and perform inspections to all storage reservoirs in GWA's inventory. GWA's plan is to develop an inspection program and schedule to evaluate reservoir condition and repairs required. Inspection team will include licensed professional civil engineer, licensed structural engineer, and API-653 inspector. Inspection will include concrete and steel reservoirs.
- 2. District Metering (DMA) and Pressure Zone Realignment (PZR): Perform construction management for the construction of meter and PRVs vaults. DMAs allow for monitoring supplied and consumed in specific zones, tracking and reducing Non-Revenue Water, and improving quality and consistency of the water supply.
- 3. Deep Wells A-23 and A-25 GAC System Installation: Perform construction management for installation of the GAC system. The GAC system will allow for Deep Well A-23 and A-25 to be placed back into service and increase water supply.
- 4. Deep Wells A-02, A-12, D-05, and F-03 Rehabilitation: Perform construction management for the rehabilitation of Deep Wells A-02, A-12, D-05, and F-03. Rehabilitation of the wells will allow for the wells to be placed into service and increase water supply.
- 5. Waterline Replacement: Perform construction inspections for waterline installation at various sites to address replacement of 2 in water lines, aged lines, and other lines identified by the Master Plan and the water loss study.

The current IDIQ contract value is \$846,164.00 for Task Order 1 Construction Management services for Tank Repairs and Bypass, Task Order 2 Construction Management services for Tai

Road/S-13 and Toto-Canada/Blas Street Waterline Replacement, Task Order 3 Project Management and Construction Management Services for Ugum Water Treatment Plant Rehabilitation, and Task Order 4 Construction Management for Yigo Sewer Pump Station Flood Mitigation and Facility Rehabilitation.

GWA's plan is to issue an amendment to increase the contract total to \$2,846,164.00. The increase in the contract amount will allow GWA to issue multiple task orders as described above.

Where is the location?

Island-wide.

How much will it cost?

Estimated cost for each task order as follows:

- 1. Project Management and Construction Management for Phase 3 Tank Inspection and Repairs:
 - a. \$600,000.00
- 2. Project Management and Construction Management of District Metering Area (DMA) and Pressure Zone Realignment (PZR):
 - a. \$200,000.00
- 3. Construction Management of Deep Wells A-23 and A-25 GAC System Installation:
 - a. \$200.000.00
- 4. Construction Management for Groundwater Wells A-02, A-12, D-05, and F-03 Rehabilitation:
 - a. \$650,000.00
- 5. Construction Management for Waterline Replacement Construction:
 - a. \$200,000.00
- 6. Contingency:
 - a. \$150,000.00

Total: \$2,000,000.00

When will it be completed?

All task orders shall be completed by the IDIQ contracting period.

What is the funding source?

The funding source will be from GWA Bonds.

The RFP/BID responses (if applicable):

The original solicitation for this IDIQ contract for professional engineering services was under RFP-04-ENG-2019. There were seven (7) total proposals received. The proposals were evaluated and ranked, with the top two (2) respondents selected. DCA was found to be one of the two most qualified for the requested services.

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. 04-FY2022

RELATIVE TO APPROVAL OF AMENDMENT FOR THE INDEFINITE DELIVERY/INDEFINITE QUANTITY PROFESSIONAL PROJECT/CONSTRUCTION MANAGEMENT SERVICES CONTRACT

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

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

WHEREAS, GWA awarded an Indefinite Delivery – Indefinite Quantity (ID-IQ) contract to Duenas, Camacho, and Associates, Inc. for Project Management/Construction Management services in the maximum amount of Seven Hundred Fifty Thousand Dollars (\$750,000.00) and has issued three (3) task orders (TO) for TO-1 Construction Management services for Tank Repairs and Bypass project; TO-2 Construction Management services for Tai Road/S-13 and Toto-Canada/Blas Street Waterline Replacement project; and TO-3 Project Management and Construction Management Services for Ugum Water Treatment Plant Rehabilitation (Exhibit A); and

WHEREAS, GWA amended the Duenas, Camacho, and Associates, Inc. IDIQ for Project Management/Construction Management services under Amendment No. 1 to increase funding by Ninety-Six Thousand Seven Hundred Fifty-Four Dollars (\$96,754.00), for a new total contract amount of Eight Hundred Forty-Six Thousand One Hundred Sixty-Four Dollars (\$846,164.00) to execute TO-4 Construction Management for Yigo Sewer Pump Station Flood Mitigation and Facility Rehabilitation (Exhibit B); and

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WHEREAS, in accordance with the CCU-approved 5-year Capital Improvement Program addressing the 2011 Court Order, upcoming EPA compliance requirements, and other regulatory priorities, GWA continues to make improvements to the water system by issuing projects that will improve water supply, reduce water loss, create pressure zones, repair/maintain water storage reservoirs, and install new waterlines; and

WHEREAS, GWA Management seeks CCU approval to increase the authorized funding by Two Million Dollars (\$2,000,000.00), for a total authorized amount of Two Million Eight Hundred Forty-Six Thousand One Hundred Sixty-Four Dollars (\$2,846,164.00) to enable execution of multiple task orders, to include Project Management and Construction Management for Phase 3 Tank Inspection and Repairs; Project Management/Construction Management of District Metering Area (DMA) and Pressure Zone Realignment (PZR) Construction; Construction Management of Deep Wells A-23 and A-25 GAC System Installation; Construction Management for Groundwater Wells A-02, A-12, D-05, and F-03 Rehabilitation Construction, and Construction Management for Waterline Replacement Construction; and

WHEREAS, GWA Management seeks CCU approval to amend the maximum contract in the amount not-to-exceed of Two Million Eight Hundred Forty-Six Thousand One Hundred Sixty-Four Dollars (\$2,846,164.00); and

WHEREAS, funding for the Amendment will be from GWA Bonds.

NOW BE IT THEREFORE RESOLVED, that 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 hereby approves the total funding by Two Million Dollars (\$2,000,000.00), for a total authorized amount of Two Million Eight Hundred Forty-Six Thousand One Hundred Sixty-Four Dollars (\$2,846,164.00) to enable execution of multiple task orders, to include Project Management and Construction Management for Phase 3 Tank Inspection and Repairs; Construction Management of District Metering Area (DMA) and Pressure Zone Realignment (PZR) Construction; Construction Management of Deep Wells A-23 and A-25

2

1	GAC System Installation; Constru	action Management for Groundwater Wells A-
2	2 02, A-12, D-05, and F-03 Re	chabilitation Construction, and Construction
3	Management for Waterline Replace	ement Construction; and
4	3. The CCU hereby further approves	to amend the maximum amount for the IDIQ
5	5 contract with Duenas, Camacho, a	nd Associates, Inc. in the amount not-to-exceed
6	of Two Million Eight Hundred	Forty-Six Thousand One Hundred Sixty-Four
7		
8		s management to pursue PUC approval for a
9		on Dollars (\$1,000,000.00) that will be
10	•	Bond money. as may be required under the
11	PUC's Contract Review Protocol.	
12	RESOLVED that the Chairman certified	and the Board Secretary attests to the adoption
13	of this Resolution	and the Board Secretary attests to the adoption
14	14	
15 16	DULY AND REGULARLY ADOPTED	, this 26 th day of October, 2021.
17		
18	Certified by:	Attested by:
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21	JOSEPH T. DUENAS Chairperson	MICHAEL T. LIMTIACO Secretary
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1	SECRETARY'S CERTIFICATE
2	I, Michael T. Limtiaco, Board Secretary of the Consolidated Commission on Utilities a
4	evidenced by my signature above do hereby certify as follows:
5 6 7	The foregoing is a full, true and accurate copy of the resolution duly adopted at a regula 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:
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9	AYES:
11	NAYS:
12 13	ABSENT:
14	ABSTAIN:
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TASK ORDER FORM

This is Task Order No. 1, consisting of 6 pages.

Task Order

In accordance with Paragraph 1.01 of the Agreement Between Owner and Engineer for Professional Services – Task Order Edition, dated June 17, 2019 ("Agreement"), Owner and Engineer agree as follows:

1. Background Data

a.	Effective Date of Task Order:	February	2021
----	-------------------------------	----------	------

b. Owner: Guam Waterworks Authority

c. Engineer: Duenas, Camacho & Associates, Inc.

d. Specific Project (title): Indefinite Delivery/Indefinite Quantity (ID/IQ) for Professional

Project/Construction Management Services

e. Specific Project (description): Construction Management Services for Tank Repairs and Bypass

2. Services of Engineer

A. The specific services to be provided or furnished by Engineer under this Task Order are:

SCOPE OF WORK:

This task will be performed by Duenas, Camacho & Associates, Inc., herein referred to as "Engineer," under the GWA ID/IQ Project Management/Construction Management contract.

CONSTRUCTION PHASE

Task 1: Administrative Services

- a. General Contract Administration: Act as the authorized agent for GWA to administer the contract for construction of the project;
- b. Arrange, conduct, and represent GWA at meetings with contractor(s) to discuss any subjects or resolve any problems related to the construction of the project improvements. The meetings may be scheduled as frequently as biweekly as acceptable to GWA.
- c. Hold meetings with GWA (at the request of GWA or DCA) to discuss contract administration policies, progress of construction, problems, or any pertinent matters.
- d. Prepare and distribute project correspondence and reports as required for proper management of the construction of project improvements.

Task Order Form

EJCDC® E-505, Agreement Between Owner and Engineer for Professional Services – Task Order Edition.

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- e. Secure and transmit to GWA or the Contractor (whichever is appropriate) required certificates, waivers, affidavits, releases and other pertinent documents.
- f. Prepare a detailed periodic construction status report acceptable to GWA.
- g. Enforce compliance by the contractor with all applicable contract requirements specifically related to the conduct of construction work.
- h. Set up and maintain a construction filing system acceptable to GWA.
- i. After acceptance of the construction of improvements, DCA will arrange and turn over to GWA all files and records relevant to project construction

Task 1.1: Review and Processing of Payment Estimates

- a. Review monthly payment requests submitted by the contractor to assure that payment estimates are in proper format and reflect actual completed work, and that appropriate sums are retained as required by the contract documents.
- b. Assure that payment estimates show work completed and payment due.
- c. Recommend approval or disapproval of payment of construction pay requests.

Task 1.2: Processing of Contract Changes

- a. Notify GWA of conditions during construction or problems with the prosecution of work that may lead to any changes in the cost or completion period. Submit recommendations on how to deal with these potential changes.
- b. Review and evaluate any changes requested by GWA or the contractor and make recommendations on how to deal with the changes.
- c. Estimate the cost of the changes and corresponding adjustments to the contract completion period, negotiate tentatively approved changes with the contractor on behalf of GWA and submit the negotiated change order request to GWA for final approval.
- d. Administer approved change orders and record costs of all change orders

Task 1.3: Claims and Disputes

- a. Notify GWA of any conditions during construction or problems in the prosecution of the work that may lead to claims by or a dispute with the contractor and prepare and present recommended solutions for GWA review and analysis.
- b. Review any claims or disputes by the contractor and submit recommendations.
- c. Maintain accurate records of claim facts, materials, labor and equipment.
- d. Assist GWA in settling claims or disputes with the Contractor.

Task 1.4: Engineering Support

Compliance Documents, Shop Drawings & Materials Submittals Review: DCA will review Compliance Documents, Shop Drawings and Material Submittals required by the contract provisions as well as the technical specifications to assure conformance with the intent of the design of improvements and contract documents. Compliance with cited construction standards will be checked.

Task 1.5: Material or Equipment Substitutions

DCA shall notify GWA of equipment or material substitutions proposed by the contractor and recommend approval or disapproval. After approval by GWA, administer the substitutions.

Task Order Form

EJCDC® E-505, Agreement Between Owner and Engineer for Professional Services – Task Order Edition.

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Task 1.6: Construction Schedule Review

- a. Evaluate the contractor's work schedule and direct the contractor, as appropriate, to make changes if required to assure that the schedule is correct, realistic and shows a sequence of construction work which conforms to the approved contract.
- b. Enforce contractor compliance with the approved schedule as may be updated.
- c. Have the contractor update or revise his schedule as required during construction of improvements.

CONSTRUCTION INSPECTION, QUALITY CONTROL & CLOSE-OUT SERVICES

Task 2: Construction Inspection

- a. Construction Inspection:
 - Inspect the construction of improvements to assure that work is done according to the
 construction documents and work schedule. DCA shall provide qualified personnel to
 properly inspect every phase of the construction of project improvements.
 - Strictly enforce all provisions of the contract specifications dealing with the prosecution of work and contractor compliance with local and federal laws.
 - Issue stop work orders for a portion of or the entire project as may be required without
 prior notice to GWA when conditions of work or actions by the contractor threaten the
 health and safety of the contractor's workers, inspectors or the public or with prior notice
 to and approval from GWA when actions by the contractor are in violation of the
 approved construction documents.
 - Direct changes to the contractor's operations if needed to minimize inconvenience to and protect the safety of the public as permitted by the specifications.
 - Maintain a daily detailed record of the progress of construction work with daily upload to project website.
 - Schedule and conduct pre-final and final inspections under each task order with representatives of GWA and others (as appropriate), and record the results in detail.
 - Secure written acceptance of the project from appropriate government agencies.
 - Periodic inspection will be conducted. Specifically during major repairs and times where GWA engineering deems it is needed. DCA will at a minimum will provide spot inspections and reports at least twice weekly once and when construction is underway.
- b. Quality Control: The requirements set for the project will be implemented by all DCA project personnel this also includes:
 - Strictly enforce all provisions of the contract specifications dealing with material testing and quality of workmanship.
 - Schedule, witness and approve or reject as appropriate all tests required to be performed by the contractor and obtain certificates and/or written verification of the test results.
 - Assure that all construction work conforms to the requirements of the construction documents, all applicable codes, and to good construction practices.

c. Survey Control

- Check the contractor's layout of project boundaries and work limits.
- Check the accuracy of all work in progress or completed to assure conformance to the contract documents. To this end, DCA will check location and elevations of project

Task Order Form

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Improvements to assure conformance with the intent of the approved construction contract documents. This work is extremely crucial as construction blunders can go unnoticed or undetected if construction check surveys are not conducted.

d. Close Out

 Project Closeout: Upon the completion and GWA acceptance of the construction of improvements, DCA will turn over all record drawings (originals and electronic files), project files and other relevant project documents.

B. Other Services

Engineer shall also provide the following services: Training for tank inspection related works as requested by owner

C. All of the services included above comprise Basic Services for purposes of Engineer's compensation under this Task Order.

3. Additional Services

Α.	Additional Services that may	be authorized or necessar	v under this Task Order are:

□ N/A

4. Owner's Responsibilities

Owner shall have those responsibilities set forth in Article 2 of the Agreement and in Exhibit B.

5. Task Order Schedule

In addition to any schedule provisions provided in Exhibit A or elsewhere, the parties shall meet the following schedule:

Not Applicable, services based on 300 calendar day construction Period

<u>Party</u>	Action	Schedule
Engineer	Construction Management Services for Tank Repairs and Bypass	Based on 300 calendar day construction period.

6. Payments to Engineer

A. Owner shall pay Engineer for services rendered under this Task Order as follows:

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Description of Service		Amount	Basis of Compensation	
1.	Ba	sic Services (Section 2.A)		
	a.	Task 1 through task 2 – Construction Phase	\$276,869	Lump Sum
	b.	Other Services (see 2.B above)	\$20,208	Direct Labor
TOTA	AL C	OMPENSATION (lines 1.a-d)	\$297,077	

^{*}Based on a 10 -month continuous construction period.

Compensation items and totals based in whole or in part on Hourly Rates or Direct Labor are estimates only. Lump sum amounts and estimated totals included in the breakdown by phases incorporate Engineer's labor, overhead, profit, reimbursable expenses (if any), and Consultants' charges, if any. For lump sum items, Engineer may alter the distribution of compensation between individual phases (line items) to be consistent with services actually rendered, but shall not exceed the total lump sum compensation amount unless approved in writing by the Owner.

- B. The terms of payment are set forth in Article 4 of the Agreement and in the applicable governing provisions of Exhibit C.
- 7. Consultants retained as of the Effective Date of the Task Order: DCA has retained EMCE for Electrical Engineering Support
- 8. Other Modifications to Agreement and Exhibits: None
- 9. Attachments: None
- 10. Other Documents Incorporated by Reference: None

Task Order Form

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11. Terms and Conditions

Execution of this Task Order by Owner and Engineer shall make it subject to the terms and conditions of the Agreement (as modified above), which Agreement is incorporated by this reference. Engineer is authorized to begin performance upon its receipt of a copy of this Task Order signed by Owner.

The Effective Date of this Task Order is	
OWNER:	ENGINEER:
By: MNOVY	Ву:
Print Name: Miguel C. Bordallo, PE	Print Name: Kenneth M. Rekdahl, PE
Title: General Manager	Title: Vice-President
	Engineer License or Firm's Certificate No. (if required): 252 State of:
DESIGNATED REPRESENTATIVE FOR TASK ORDER.	
DESIGNATED REPRESENTATIVE FOR TASK ORDER:	DESIGNATED REPRESENTATIVE FOR TASK ORDER:
Name:	Name:
Title:	Title:
Address:	Address:
E-Mail Address:	E-Mail Address:
Phone:	Phone:
CERTIFICATION OF FUNDS: Task Order Amount: \$297,077.00 - Bond 2016 PW 09-11	
Monufaco 3/3/2021	
CTaling M. Taitano, CPA, CGFM, CGMA Chief Financial Officer	

Task Order Form

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PROJECT OVERVIEW

(TASK ORDER NO. 2 - PM/CM SERVICES)

Project: INDEFINITE DELIVERY/INDEFINITE QUANTITY (ID/IQ) FOR

PROFESSIONAL PROJECT MANAGEMENT/CONSTRUCTION

MANAGEMENT SERVICES

Project Number: M19-001-BND

Consultant: Dueñas, Camacho & Associates, Inc.

Task Order No.: 02

Construction Management for Tai Road/S-13 and Toto-Canada

Road/Blas Street Waterline Replacement Project

Task Order No. 2 Amount: \$189,729.00

Fund Source: 2020 Bond PW 09-03 Water Distribution System Pipe Replacement and

Upgrades

Original Contract Approved: June 17, 2019 Approved Contract Amount: \$750,000.00

Approved Task Order No. 1: - \$297,077.00 (2016 Bond PW 09-11)

Current Contract Balance: \$452,923.00

Prepared by:

Digitally signed by Gloria P. Gloria P. Bensan Date: 2021.04.16 08:45:28 +10'00' Bensan

GLORIA P. BENSAN



TASK ORDER

This is Task Order **No. 2**, consisting of 6 pages.

Task Order

In accordance with Paragraph 1.01 of the Agreement Between Owner and Engineer for Professional Services – Task Order Edition, dated June 17, 2019 ("Agreement"), Owner and Engineer agree as follows:

1. Background Data

a. Effective Date of Task Order: April _____, 2021

b. Owner: Guam Waterworks Authority

c. Engineer: Duenas, Camacho & Associates, Inc.

d. Specific Project (title): Indefinite Delivery/Indefinite Quantity (ID/IQ) for Professional

Project/Construction Management Services

e. Specific Project (description): Construction Management Services for Tai Road/S-13 and

Canada-Toto Loop/Blas Street Waterline Replacement

GWA Project No. M19-001-BND

2. Services of Engineer

A. The specific services to be provided or furnished by Engineer under this Task Order are:

1. PRE-CONSTRUCTION PHASE

Construction Management Plan

DCA will prepare and submit to GWA a construction management plan. This management plan will help define the roles of the CM, Owner and Contractor.

2. CONSTRUCTION PHASE

2.1. Administrative Services

- a. General Contract Administration: Act as the authorized agent for GWA to administer the contract for construction of the project;
- b. Arrange, conduct, and represent GWA at meetings with contractor(s) to discuss any subjects or resolve any problems related to the construction of the project improvements. The meetings may be scheduled as frequently as biweekly as acceptable to GWA.
- Hold meetings with GWA (at the request of GWA or DCA) to discuss contract administration
 policies, progress of construction, problems, or any pertinent matters.

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- d. Prepare and distribute project correspondence and reports as required for proper management of the construction of project improvements.
- e. Secure and transmit to GWA or the Contractor (whichever is appropriate) required certificates, waivers, affidavits, releases and other pertinent documents.
- f. Prepare a detailed periodic construction status report acceptable to GWA.
- g. Enforce compliance by the contractor with all applicable contract requirements specifically related to the conduct of construction work.
- h. Set up and maintain a construction filing system acceptable to GWA.
- i. After acceptance of the construction of improvements, DCA will arrange and turn over to GWA all files and records relevant to project construction.

2.2. Review and Processing of Payment Estimates

- a. Review monthly payment requests submitted by the contractor to assure that payment estimates are in proper format and reflect actual completed work, and that appropriate sums are retained as required by the contract documents.
- b. Assure that payment estimates show work completed and payment due.
- c. Recommend approval or disapproval of payment of construction pay requests.

2.3. Processing of Contract Changes:

- a. Notify GWA of conditions during construction or problems with the prosecution of work that may lead to any changes in the cost or completion period. Submit recommendations on how to deal with these potential changes.
- b. Review and evaluate any changes requested by GWA or the contractor and make recommendations on how to deal with the changes.
- c. Estimate the cost of the changes and corresponding adjustments to the contract completion period, negotiate tentatively approved changes with the contractor on behalf of GWA and submit the negotiated change order request to GWA for final approval.
- d. Administer approved change orders and record costs of all change orders.

2.4. Claims and Disputes

- a. Notify GWA of any conditions during construction or problems in the prosecution of the work that may lead to claims by or a dispute with the contractor and prepare and present recommended solutions for GWA review and analysis.
- b. Review any claims or disputes by the contractor and submit recommendations.
- c. Maintain accurate records of claim facts, materials, labor and equipment.

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d. Assist GWA in settling claims or disputes with the Contractor.

2.5. Engineering Support

Compliance Documents, Shop Drawings & Materials Submittals Review: DCA will review Compliance Documents, Shop Drawings and Material Submittals required by the contract provisions as well as the technical specifications to assure conformance with the intent of the design of improvements and contract documents. Compliance with cited construction standards will be checked.

2.6. Material or Equipment Substitutions

DCA shall notify GWA of equipment or material substitutions proposed by the contractor and recommend approval or disapproval. After approval by GWA, administer the substitutions.

2.7. Construction Schedule Review

- a. Evaluate the contractor's work schedule and direct the contractor, as appropriate, to make changes if required to assure that the schedule is correct, realistic and shows a sequence of construction work which conforms to the approved contract.
- b. Enforce contractor compliance with the approved schedule as may be updated.
- c. Have the contractor update or revise his schedule as required during construction of improvements.

2.8. As-Built /Record Drawings

- a. Assure that the contractor prepares "As-Built" drawings as the work progresses.
- b. Review and approve the as-built drawings for content and accuracy.
- Transfer all as-built information onto the original construction drawings at the conclusion of the project and create both a hard copy and electronic copy of the drawings.

2.9. Construction Inspection, Quality Control & Close-Out Services

a. CONSTRUCTION INSPECTION:

- Inspect the construction of improvements to assure that work is done according to the construction documents and work schedule. DCA shall provide qualified personnel to properly inspect every phase of the construction of project improvements.
- Strictly enforce all provisions of the contract specifications dealing with the prosecution of work and contractor compliance with local and federal laws.
- Issue stop work orders for a portion of or the entire project as may be required without prior notice to GWA when conditions of work or actions by the contractor threaten the health and safety of the contractor's workers, inspectors or the public or with prior notice to and approval from GWA when actions by the contractor are in violation of the approved construction documents.
- Direct changes to the contractor's operations if needed to minimize inconvenience to and protect the safety of the public as permitted by the specifications.
- Maintain a daily detailed record of the progress of construction work with daily upload to project website.
- Schedule and conduct pre-final and final inspections under each task order with representatives
 of GWA and others (as appropriate), and record the results in detail.

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- Secure written acceptance of the project from appropriate government agencies.
- Periodic inspection will be conducted. Specifically during major repairs and times where GWA
 engineering deems it is needed. DCA will at a minimum will provide spot inspections and reports
 at least twice weekly once and when construction is underway.
- b. QUALITY CONTROL: The requirements set for the project QA plan will be implemented by all DCA project personnel this also includes:
 - Strictly enforce all provisions of the contract specifications dealing with material testing and quality of workmanship.
 - Schedule, witness and approve or reject as appropriate all tests required to be performed by the contractor and obtain certificates and/or written verification of the test results.
 - Assure that all construction work conforms to the requirements of the construction documents, all applicable codes, and to good construction practices.

c. SURVEY CONTROL

- Check the contractor's layout of project boundaries and work limits.
- Check the accuracy of all work in progress or completed to assure conformance to the contract
 documents. To this end, DCA will check location and elevations of project Improvements to
 assure conformance with the intent of the approved construction contract documents. This work
 is extremely crucial as construction blunders can go unnoticed or undetected if construction
 check surveys are not conducted.

d. CLOSE OUT

- Project Closeout: Upon the completion and GWA acceptance of the construction of improvements, DCA will turn over all record drawings (originals and electronic files), project files and other relevant project documents.
- B. Resident Project Representative (RPR) Services
- C. Other Services

Engineer shall also provide the following services: N/A

D. All of the services included above comprise Basic Services for purposes of Engineer's compensation under this Task Order.

3. Additional Services

A.	Additional Services that may be authorized or necessary under this Task Order are:
	N/A

4. Owner's Responsibilities

Owner shall have those responsibilities set forth in Article 2 of the Agreement and in Exhibit B.

5. Task Order Schedule

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In addition to any schedule provisions provided in Exhibit A or elsewhere, the parties shall meet the following schedule: as specified in the Scope of Work

6. Payments to Engineer

A. Owner shall pay Engineer for services rendered under this Task Order based on the attached approved Task Order No. 2 fee proposal:

Description of Service	Amount	Basis of Compensation				
 Basic Services (Section 2) 						
a. Pre-Construction Services	\$3,174.34	Lump Sum				
 b. Construction Phase Services 	\$170,952.31	Lump Sum				
c. Post Construction Services	\$8,340.01	Lump Sum				
d. Other Services	\$7,262.25	T&M				
TOTAL COMPENSATION (lines 1.a-d)	\$189,728.91					
	say \$189,729					

^{*}Based on a 13 -month continuous construction period.

Compensation items and totals based in whole or in part on Hourly Rates or Direct Labor are estimates only. Lump sum amounts and estimated totals included in the breakdown by phases incorporate Engineer's labor, overhead, profit, reimbursable expenses (if any), and Consultants' charges, if any. For lump sum items, Engineer may alter the distribution of compensation between individual phases (line items) to be consistent with services actually rendered, but shall not exceed the total lump sum compensation amount unless approved in writing by the Owner.

- B. The terms of payment are set forth in Article 4 of the Agreement and in the applicable governing provisions of Exhibit C.
- 7. Consultants retained as of the Effective Date of the Task Order: None
- 8. Other Modifications to Agreement and Exhibits: None

[Supplement or modify Agreement and Exhibits, if appropriate.]

- 9. Attachments: Negotiated Fee Proposal
- 10. Other Documents Incorporated by Reference:

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11. Terms and Conditions

Funding Source: 2020 Bond PW 09-03

Execution of this Task Order by Owner and Engineer shall make it subject to the terms and conditions of the Agreement (as modified above), which Agreement is incorporated by this reference. Engineer is authorized to begin performance upon its receipt of a copy of this Task Order signed by Owner.

OWNITER.	Guam Waterworks Authority	ENGINEER: D	Queñas, Camacho & Associates, Inc.
By:	mony	Ву:	16
Print Name:	MIGUEL C. BORDALLO, P.E.	Print Name:	KENNETH M. REKDAHL, P.E.
Title:	General Manager	Title:	Vice President
		Engineer Lice Certificate No State of:	nse or Firm's No. 252 (if required): Territory of Guam
DESIGNA ⁻	TED REPRESENTATIVE FOR TASK ORDER:		EPRESENTATIVE FOR TASK ORDER:
Name:	Gloria P. Bensan	Name:	•
Title:	Project Manager	Title:	
	Clasia D At 1 D 1 th C 1 at 1		
Address:	Gioria B. Neison Public Service Bidg.	Address	
Address:	Gloria B. Nelson Public Service Bldg. 688 Route 15	Address:	
Address:	688 Route 15	Address:	
E-Mail		Address: E-Mail Address:	-
E-Mail Address:	688 Route 15 Mangilao, Guam 96913	E-Mail	
E-Mail Address: Phone:	688 Route 15 Mangilao, Guam 96913 gpbensan@guamwaterworks.org 671-300-6042	E-Mail Address:	
E-Mail Address: Phone:	688 Route 15 Mangilao, Guam 96913 gpbensan@guamwaterworks.org	E-Mail Address:	
E-Mail Address: Phone: CERTIFIED	688 Route 15 Mangilao, Guam 96913 gpbensan@guamwaterworks.org 671-300-6042	E-Mail Address:	
Зу:	688 Route 15 Mangilao, Guam 96913 gpbensan@guamwaterworks.org 671-300-6042 FUNDS AVAILABLE:	E-Mail Address:	

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TASK ORDER

This is Task Order No. 3, consisting of 10 pages.

Task Order

In accordance with Paragraph 1.01 of the Agreement Between Owner and Engineer for Professional Services – Task Order Edition, dated June 17, 2019 ("Agreement"), Owner and Engineer agree as follows:

I. BACKGROUND DATA

A. Effective Date of Task Order: May _____ 2021

B. Owner: Guam Waterworks Authority

C. Engineer: Duenas, Camacho & Associates, Inc.

D. Specific Project (title): Indefinite Delivery/Indefinite Quantity (ID/IQ) for

Professional Project/Construction Management Services

E. Specific Project (description): Project Management, Procurement, and Construction

Management for Ugum Water Treatment Plant

Rehabilitation

II. SERVICES OF ENGINEER

The task order services will consist of preparation of plans, specifications, and estimates, which includes assessment report, construction schedule, procurement documents, relevant permit, construction bid support service, and response to request for interpretation/information. construction management services during construction will also be provided.

The specific services to be provided or furnished by Engineer under this Task Order are:

A. PROJECT MANAGEMENT

A review of existing reports, plans, and conditions of the Ugum WTP in order to ascertain site replacement item. In addition to the assessment, DCA will assist GWA in the coordination with manufacture engineers schedule to conduct conditions assessments of the site. DCA assessment will focus on all plant items to include but not limited to: Raw water process, headworks, contact and sedimentation basins, sludge settling /neutralization systems, thickening and dewatering systems, chemical feed and plant water systems. In addition, the site safety, security, and civil works will be reviewed.

DCA will assess alternatives to the handling of the membrane repairs currently done across the operations building. The intent is to perform membrane repairs above the blower room concrete roof. These alternatives will include any structural modifications/upgrades needed.

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B. PROCUREMENT SUPPORT

DCA will prepare at least three packages that will be used for: existing equipment/system replacement and future upgrade/design needs. As part of this service DCA will support the procurement process and assist GWA in coordinating with local and national vendors/suppliers

C. ASSESSMENTS

Preliminary Assessment

Define assessment objectives, design criteria, and methodology that shall be used to prepare the assessment report.

- Perform site investigation to determine existing condition and system configuration, consisting of the following:
 - i. Existing site conditions and facilities
 - ii. Existing site operation
 - iii. Propose improvements
 - iv. Demolition requirements
 - v. Piping and valving requirements
 - vi. Operational requirements
 - vii. Electrical power supply
 - viii. Future expandability
- b. Provide surveying services of the property boundary including topographic survey necessary for fencing work.
- c. Unexpected conditions may be encountered during the assessment given that the site is existing and in operation. A time and material fee will be provided. This fee is an executed and will only be used if the owner approves.

2. Procurement Support

a. Develop Procurement Report.

The Procurement Report at the minimum shall address the following:

- i. Site security requirements
- ii. Replacement of sludge collection at contact basin #2, recycle basin #2, and other equipment in relation to continuity of operation during repair or replacement.
- iii. All items listed in section 3.
- b. Prepare plans, specifications, cost estimates, construction schedule, and all other documents necessary for the project completion.
 - i. The consultant will prepare and submit the following:
 - Draft and Final procurement plans. One procurement plan will cover the replacement of existing equipment/systems and the other will provide for future design/upgrade needs

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- Specifications at draft and final completion levels, which will include front end documents and technical specifications applicable to the indicated completion levels.
 The consultant shall propose any changes to GWA's front end documents for Legal Counsel review.
- Construction cost estimate update at draft and final completion level. All costs will be in current dollars and escalated to the estimated midpoint of construction.
- The design consultant shall coordinate with relevant agencies such as Guam Environmental Protection Agency and other relevant agencies at the draft submittals.
 This includes submitting documents (full size plans and specifications at each phase) and maintaining communication throughout the duration of the project and incorporating any relevant regulation requirements in the design.
- Deliverables to GWA will be provided in accordance with the following:
 - 1. Assessment report
 - a. 3 hard copies of the Basis of Design documents
 - b. Digital copy
 - 2. Draft procurement package
 - a. 3 hard copies
 - b. Digital copy
 - 3. Final Procurement package
 - a. 3 hard copies
 - b. Digital copy of the final documents

Specific Items of Work

Treatment Plant

- a. Gate and Fence
 - Install automated security gate at the treatment plant entrance.
 - Replace fence (damaged by typhoon) along the retaining wall at the southern side of administration building and operations building.
 - iii. Install chain link fence along the property line beginning at the thickener tank and ending at the neutralization tank.
 - iv. Install chain link fence along the property line beginning at neutralization tank and ending at the existing chain link post located northeast of the property.
- b. Administration Building
 - Relocate existing eyewash adjacent to laboratory room outside the building with access from laboratory room.
 - ii.. Repair three (3) restrooms.
 - iii. Relocate air-conditioner located in the kitchen to the floor below.
- c. Operation Building
 - Furnish and install two (2) 1-ton chlorine vessel container inside the chlorine room.

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- ii. Furnish and install a pH meter at hypochlorite generation tank.
- iii. Furnish and install a flow meter at sodium hydroxide.
- Provide and install double swing access gate to the lift openings at the ground floor and second floor.
- v. Replace existing sludge feed (piping) including pumps and motors.
- vi. Rebuild and servicing of the existing centrifuge by replacing oils, seals, and bearings.
- vii. Instrumentation, electrical, and mechanical works.
- viii. Evaluate alternative for sodium hypochlorite generation
- ix. Evaluate alternatives for dewatering
- x. Replace existing elevate/lift system

d. Thickener Tank

- i. Refurbish rake and mixer.
- ii. Replace thickener feed pumps and motors.

e. Backwash (Holding Tank)

i. Install handrailing.

f. Sludge Tank

i. Install handrailing.

g. Control Room

i. Repair leak from roof hatch.

h. Membrane Cells

- i. Provide detachable railing (fall protection) on all open sides.
- Provide concrete landing (suspended slab) with railing at southern edge of the cell level to the future work area (west of cell).

i. Flocculation Tanks

 Furnish and install two (2) sluice gates with pneumatic actuator, instrumentation and electrical works,

j. Sedimentation Tanks

- i. Replace sludge collection system at contact basin #2 and recycle basin #2.
- ii. Furnish and install eight (8) sluice gates with pneumatic actuator and SCADA ready.
- iii. Replace lighting with solar panels.

k. Filter Pipe Gallery Room

- Replace steel door and jamb.
- Install access platform that can mitigate fall hazards and provide safe access to elevated valves and fittings and hard to reach areas.

Generator Room

Replace steel door.

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4. Procurement Bid Support Services

- Assist with preparing answers to questions regarding the bid packages during the bidding phase.
- b. Assist with the Pre-Bid Conference and respond to technical question involving design and specifications that prospective bidders may have at the Pre-Bid Conference, including the preparation of meeting minutes and providing formal responses to technical questions.
- c. Assist with preparation of bid addenda.
- d. Assist with reviewing construction proposals received. This shall include a bid analysis, review of bid proposal prices, and conformance with contract requirements and the Guam Procurement Code. A letter of recommendation of award shall be prepared.

D. CONSTRUCTION MANAGEMENT

Construction Management Plan

DCA will prepare and submit to GWA a construction management plan. This management plan will help define the roles of the CM, Owner and Contractor.

E. CONSTRUCTION PHASE

1. Administrative Services

- General Contract Administration: Act as the authorized agent for GWA to administer the contract for construction of the project;
- b. Arrange, conduct, and represent GWA at meetings with contractor(s) to discuss any subjects or resolve any problems related to the construction of the project improvements. The meetings may be scheduled as frequently as biweekly as acceptable to GWA.
- Hold meetings with GWA (at the request of GWA or DCA) to discuss contract administration policies, progress of construction, problems, or any pertinent matters.
- d. Prepare and distribute project correspondence and reports as required for proper management of the construction of project improvements.
- e. Secure and transmit to GWA or the Contractor (whichever is appropriate) required certificates, waivers, affidavits, releases and other pertinent documents.
- f. Prepare a detailed periodic construction status report acceptable to GWA.
- g. Enforce compliance by the contractor with all applicable contract requirements specifically related to the conduct of construction work.
- h. Set up and maintain a construction filing system acceptable to GWA.

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Page !

 After acceptance of the construction of improvements, DCA will arrange and turn over to GWA all files and records relevant to project construction.

2. Review and Processing of Payment Estimates

- a. Review monthly payment requests submitted by the contractor to assure that payment estimates are in proper format and reflect actual completed work, and that appropriate sums are retained as required by the contract documents.
- b. Assure that payment estimates show work completed and payment due.
- c. Recommend approval or disapproval of payment of construction pay requests.

Processing of Contract Changes:

- a. Notify GWA of conditions during construction or problems with the prosecution of work that may lead to any changes in the cost or completion period. Submit recommendations on how to deal with these potential changes.
- b. Review and evaluate any changes requested by GWA or the contractor and make recommendations on how to deal with the changes.
- c. Estimate the cost of the changes and corresponding adjustments to the contract completion period, negotiate tentatively approved changes with the contractor on behalf of GWA and submit the negotiated change order request to GWA for final approval.
- d. Administer approved change orders and record costs of all change orders.

4. Claims and Disputes

- a. Notify GWA of any conditions during construction or problems in the prosecution of the work that may lead to claims by or a dispute with the contractor and prepare and present recommended solutions for GWA review and analysis.
- b. Review any claims or disputes by the contractor and submit recommendations.
- c. Maintain accurate records of claim facts, materials, labor and equipment.
- d. Assist GWA in settling claims or disputes with the Contractor.

5. Engineering Support

a. Compliance Documents, Shop Drawings & Materials Submittals Review: DCA will review Compliance Documents, Shop Drawings and Material Submittals required by the contract provisions as well as the technical specifications to assure conformance with the intent of the design of improvements and contract documents. Compliance with cited construction standards will be checked.

6. Material or Equipment Substitutions

 DCA shall notify GWA of equipment or material substitutions proposed by the contractor and recommend approval or disapproval. After approval by GWA, administer the substitutions.

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7. Construction Schedule Review

- a. Evaluate the contractor's work schedule and direct the contractor, as appropriate, to make changes if required to assure that the schedule is correct, realistic and shows a sequence of construction work which conforms to the approved contract.
- b. Enforce contractor compliance with the approved schedule as may be updated.
- Have the contractor update or revise his schedule as required during construction of improvements.

8. As-Built /Record Drawings

- a. Assure that the contractor prepares "As-Built" drawings as the work progresses.
- b. Review and approve the as-built drawings for content and accuracy.
- Transfer all as-built information onto the original construction drawings at the conclusion of the project and create both a hard copy and electronic copy of the drawings.

9. Construction Inspection, Quality Control & Close-Out Services

a. Construction Inspection:

- i. Inspect the construction of improvements to assure that work is done according to the construction documents and work schedule. DCA shall provide qualified personnel to properly inspect every phase of the construction of project improvements.
- Strictly enforce all provisions of the contract specifications dealing with the prosecution of work and contractor compliance with local and federal laws.
- iii. Issue stop work orders for a portion of or the entire project as may be required without prior notice to GWA when conditions of work or actions by the contractor threaten the health and safety of the contractor's workers, inspectors or the public or with prior notice to and approval from GWA when actions by the contractor are in violation of the approved construction documents.
- iv. Direct changes to the contractor's operations if needed to minimize inconvenience to and protect the safety of the public as permitted by the specifications.
- v. Maintain a daily detailed record of the progress of construction work with daily upload to project website.
- vi. Schedule and conduct pre-final and final inspections under each task order with representatives of GWA and others (as appropriate), and record the results in detail.
- vii. Secure written acceptance of the project from appropriate government agencies.
- viii. Periodic inspection will be conducted. Specifically, during major repairs and times where GWA engineering deems it is needed. DCA will at a minimum will provide spot inspections and reports at least twice weekly once and when construction is underway.
- b. Quality Control: The requirements set for the project QA plan will be implemented by all DCA project personnel this also includes:
 - Strictly enforce all provisions of the contract specifications dealing with material testing and quality of workmanship.
 - Schedule, witness and approve or reject as appropriate all tests required to be performed by the contractor and obtain certificates and/or written verification of the test results.

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 Assure that all construction work conforms to the requirements of the construction documents, all applicable codes, and to good construction practices.

c. Survey Control

- i. Check the contractor's layout of project boundaries and work limits.
- ii. Check the accuracy of all work in progress or completed to assure conformance to the contract documents. To this end, DCA will check location and elevations of project Improvements to assure conformance with the intent of the approved construction contract documents. This work is extremely crucial as construction blunders can go unnoticed or undetected if construction check surveys are not conducted.

d. Close Out

- Project Closeout: Upon the completion and GWA acceptance of the construction of improvements, DCA will turn over all record drawings (originals and electronic files), project files and other relevant project documents.
- F. Resident Project Representative (RPR) Services: see above DCA Scope of Services
- G. Other Services: Engineer shall also provide the following services: N/A
- H. All of the services included above comprise Basic Services for purposes of Engineer's compensation under this Task Order.

1. Additional Services

Additional Services that may be authorized or necessary under this Task Order are:

□ N/A

2. Owner's Responsibilities

Owner shall have those responsibilities set forth in Article 2 of the Agreement and in Exhibit B.

3. Task Order Schedule

In addition to any schedule provisions provided in Exhibit A or elsewhere, the parties shall meet the following schedule: as specified in the Scope of Work

<u>Party</u>	Action	<u>Schedule</u>
Engineer	Furnish 3 review copies of the Report and other Study and Report Phase deliverables to Owner.	Within 150 days of the Effective Date of the Task Order.
Owner	Submit comments regarding Report and other Study and Report Phase deliverables to Engineer.	Within 14 days of the receipt of Report and other Study and Report Phase deliverables from Engineer.
Engineer	Furnish 3 copies of the revised Report and other Study and Report Phase	Within 30 days of the receipt of Owner's comments regarding the Report and other

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deliverables to Owner.	Study and Report Phase deliverables.

I. Payments to Engineer

 Owner shall pay Engineer for services rendered under this Task Order based on the attached approved Task Order No. 3 fee proposal:

Description of Service	Amount	Basis of Compensation
Basic Services (Section 2)		,
a. Assessment	\$84,156.07	Lump Sum
b. Procurement Package	\$89,334.14	Lump Sum
c. Post Procurement Services	\$5,120.17	Lump Sum
d. Other Services	\$11,213.78	T&M
Construction Management Services		
e. Pre-Construction Services	\$910.85	Lump Sum
f. Construction Phase	\$69,670.41	Lump Sum
g. Post Construction Phase	\$2,199.11	Lump Sum
OTAL COMPENSATION (lines 1.a-g)	\$262,604.54	
	Say \$262,604	

^{*}Based on a 3-month continuous construction period after the arrival of imported materials.

Compensation items and totals based in whole or in part on Hourly Rates or Direct Labor are estimates only. Lump sum amounts and estimated totals included in the breakdown by phases incorporate Engineer's labor, overhead, profit, reimbursable expenses (if any), and Consultants' charges, if any. For lump sum items, Engineer may alter the distribution of compensation between individual phases (line items) to be consistent with services actually rendered, but shall not exceed the total lump sum compensation amount unless approved in writing by the Owner.

- 2. The terms of payment are set forth in Article 4 of the Agreement and in the applicable governing provisions of Exhibit C.
- J. Consultants retained as of the Effective Date of the Task Order: EMCe
- K. Other Modifications to Agreement and Exhibits: None

[Supplement or modify Agreement and Exhibits, if appropriate.]

- L. Attachments: Negotiated Fee Proposal
- M. Other Documents Incorporated by Reference:

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N. Terms and Conditions

Execution of this Task Order by Owner and Engineer shall make it subject to the terms and conditions of the Agreement (as modified above), which Agreement is incorporated by this reference. Engineer is authorized to begin performance upon its receipt of a copy of this Task Order signed by Owner.

	ive Date of this Task Order is		ueñas, Camacho & Asso	riates inc
Ву:	Mory	By:		ctates, irc.
Print Name:	MIGUEL C. BORDALLO, P.E.	Print Name:	KENNETH M. REKDAH	IL, P.E.
Title:	General Manager	Title:	Vice President	· · · · · · · · · · · · · · · · · · ·
		Engineer Licer Certificate No State of:		No. 252
DESIGNAT	ED REPRESENTATIVE FOR TASK ORDER:	DESIGNATED R	EPRESENTATIVE FOR TAS	SK ORDER:
Name:	Ernesto Villarin	Name:		
Title:	Project Manager	Title:	1477-400	
Address:	Gloria B. Nelson Public Service Bldg.	Address:		·
E-Mail	688 Route 15 Mangilao, Guam 96913 evillarin@guamwaterworks.org	E-Mail		
Address:	evinarin@guarriwaterworks.org	Address:		
Phone:	671-300-6063	Phone:		
CERTIFIED	FUNDS AVAILABLE:	APPROVED AS	TO FORM:	1
9	MMMM	M	78-	
By:	ALING AS TATTANO COS CCENS	By:	CLARK	9
(gro.	ALING M. TAITANO, CPA, CGFM SWA Chief Financial Officer	KELLY O.		
	AAA Cilei rinanciai Officer	GWA Ge	neral Counsel	

Task Order Amount: \$262,604.00 Funding Source: MP-PW-SWTP-03

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TASK ORDER

This is Task Order **No. 4**, consisting of 6 pages.

Task Order

In accordance with Paragraph 1.01 of the Agreement Between Owner and Engineer for Professional Services – Task Order Edition, dated June 17, 2019 ("Agreement"), Owner and Engineer agree as follows:

I. BACKGROUND DATA

A. Effective Date of Task Order: June ____, 2021

B. Owner: Guam Waterworks Authority

C. Engineer: Duenas, Camacho & Associates, Inc.

D. Specific Project (title): Indefinite Delivery/Indefinite Quantity (ID/IQ) for

Professional Project/Construction Management Services

E. Specific Project (description): Construction Management for Yigo Sewer Pump Station

Flood Mitigation and Facility Rehabilitation

II. SERVICES OF ENGINEER

The task order services will consist of construction management services during construction.

The specific services to be provided or furnished by Engineer under this Task Order are:

A. CONSTRUCTION MANAGEMENT

1. Construction Management Plan

DCA will prepare and submit to GWA a construction management plan. This management plan will help define the roles of the CM, Owner and Contractor.

E. CONSTRUCTION PHASE

1. Administrative Services

- a. General Contract Administration: Act as the authorized agent for GWA to administer the contract for construction of the project.
- b. Arrange, conduct, and represent GWA at meetings with contractor(s) to discuss any subjects or resolve any problems related to the construction of the project improvements. The meetings may be scheduled as frequently as biweekly as acceptable to GWA.

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- c. Hold meetings with GWA (at the request of GWA or DCA) to discuss contract administration policies, progress of construction, problems, or any pertinent matters.
- d. Prepare and distribute project correspondence and reports as required for proper management of the construction of project improvements.
- e. Secure and transmit to GWA or the Contractor (whichever is appropriate) required certificates, waivers, affidavits, releases and other pertinent documents.
- f. Prepare a detailed periodic construction status report acceptable to GWA.
- g. Enforce compliance by the contractor with all applicable contract requirements specifically related to the conduct of construction work.
- Set up and maintain a construction filing system acceptable to GWA.
- i. After acceptance of the construction of improvements, DCA will arrange and turn over to GWA all files and records relevant to project construction.

2. Review and Processing of Payment Estimates

- a. Review monthly payment requests submitted by the contractor to assure that payment estimates are in proper format and reflect actual completed work, and that appropriate sums are retained as required by the contract documents.
- b. Assure that payment estimates show work completed and payment due.
- c. Recommend approval or disapproval of payment of construction pay requests.

3. Processing of Contract Changes:

- a. Notify GWA of conditions during construction or problems with the prosecution of work that may lead to any changes in the cost or completion period. Submit recommendations on how to deal with these potential changes.
- b. Review and evaluate any changes requested by GWA or the contractor and make recommendations on how to deal with the changes.
- c. Estimate the cost of the changes and corresponding adjustments to the contract completion period, negotiate tentatively approved changes with the contractor on behalf of GWA and submit the negotiated change order request to GWA for final approval.
- d. Administer approved change orders and record costs of all change orders.

Claims and Disputes

- a. Notify GWA of any conditions during construction or problems in the prosecution of the work that may lead to claims by or a dispute with the contractor and prepare and present recommended solutions for GWA review and analysis.
- b. Review any claims or disputes by the contractor and submit recommendations.

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- c. Maintain accurate records of claim facts, materials, labor and equipment.
- d. Assist GWA in settling claims or disputes with the Contractor.

5. Engineering Support

a. Compliance Documents, Shop Drawings & Materials Submittals Review: DCA will review Compliance Documents, Shop Drawings and Material Submittals required by the contract provisions as well as the technical specifications to assure conformance with the intent of the design of improvements and contract documents. Compliance with cited construction standards will be checked.

6. Material or Equipment Substitutions

a. DCA shall notify GWA of equipment or material substitutions proposed by the contractor and recommend approval or disapproval. After approval by GWA, administer the substitutions.

7. Construction Schedule Review

- a. Evaluate the contractor's work schedule and direct the contractor, as appropriate, to make changes if required to assure that the schedule is correct, realistic and shows a sequence of construction work which conforms to the approved contract.
- b. Enforce contractor compliance with the approved schedule as may be updated.
- Have the contractor update or revise his schedule as required during construction of improvements.

8. As-Built /Record Drawings

- a. Assure that the contractor prepares "As-Built" drawings as the work progresses.
- b. Review and approve the as-built drawings for content and accuracy.

Construction Inspection, Quality Control & Close-Out Services

a. Construction Inspection:

- i. Inspect the construction of improvements to assure that work is done according to the construction documents and work schedule. DCA shall provide qualified personnel to properly inspect every phase of the construction of project improvements.
- ii. Strictly enforce all provisions of the contract specifications dealing with the prosecution of work and contractor compliance with local and federal laws.
- iii. Issue stop work orders for a portion of or the entire project as may be required without prior notice to GWA when conditions of work or actions by the contractor threaten the health and safety of the contractor's workers, inspectors or the public or with prior notice to and approval from GWA when actions by the contractor are in violation of the approved construction documents.
- iv. Direct changes to the contractor's operations if needed to minimize inconvenience to and protect the safety of the public as permitted by the specifications.

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- Maintain a daily detailed record of the progress of construction work with daily upload to project website.
- vi. Schedule and conduct pre-final and final inspections under each task order with representatives of GWA and others (as appropriate), and record the results in detail.
- vii. Secure written acceptance of the project from appropriate government agencies.
- viii. Periodic inspection will be conducted. Specifically, during major repairs and times where GWA engineering deems it is needed. DCA will at a minimum will provide spot inspections and reports at least twice weekly once and when construction is underway.
- b. Quality Control: The requirements set for the project QA plan will be implemented by all DCA project personnel this also includes:
 - Strictly enforce all provisions of the contract specifications dealing with material testing and quality of workmanship.
 - Schedule, witness and approve or reject as appropriate all tests required to be performed by the contractor and obtain certificates and/or written verification of the test results.
 - iii. Assure that all construction work conforms to the requirements of the construction documents, all applicable codes, and to good construction practices.

c. Survey Control

- i. Check the contractor's layout of project boundaries and work limits.
- ii. Check the accuracy of all work in progress or completed to assure conformance to the contract documents. To this end, DCA will check location and elevations of project Improvements to assure conformance with the intent of the approved construction contract documents. This work is extremely crucial as construction blunders can go unnoticed or undetected if construction check surveys are not conducted.

d. Close Out

- Project Closeout: Upon the completion and GWA acceptance of the construction of improvements, DCA will turn over all record drawings (originals and electronic files), project files and other relevant project documents.
- F. Resident Project Representative (RPR) Services: see above DCA Scope of Services
- G. Other Services: Engineer shall also provide the following services: N/A
- H. All of the services included above comprise Basic Services for purposes of Engineer's compensation under this Task Order.

1. Additional Services				
Addition	al Services tha	t may be authorized or necessary under this Task Order are:		
	N/A			

2. Owner's Responsibilities

Owner shall have those responsibilities set forth in Article 2 of the Agreement and in Exhibit B.

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3. Task Order Schedule

In addition to any schedule provisions provided elsewhere, the parties shall meet the following schedule: as specified in the Scope of Work

<u>Party</u>	Action	<u>Schedule</u>
	Furnish inspection reports to Owner throughout project duration.	Within 390 days of the Effective Date of the Task Order.

Payments to Engineer

 Owner shall pay Engineer for services rendered under this Task Order based on the attached approved Task Order No. 4 fee proposal:

Description of Service	Amount	Basis of Compensation	
Construction Management Services			
a. Pre-Construction Services	\$909.36	Lump Sum	
b. Construction Phase	\$71,546.85	Lump Sum	
c. Post Construction Phase	\$2,195.52	Lump Sum	
d. Special Inspections (Electrical)	\$22,102.50	T&M	
TOTAL COMPENSATION (lines .a-d)	\$96,754.22		
	Say \$96,754		

Compensation items and totals based in whole or in part on Hourly Rates or Direct Labor are estimates only. Lump sum amounts and estimated totals included in the breakdown by phases incorporate Engineer's labor, overhead, profit, reimbursable expenses (if any), and Consultants' charges, if any. For lump sum items, Engineer may alter the distribution of compensation between individual phases (line items) to be consistent with services actually rendered, but shall not exceed the total lump sum compensation amount unless approved in writing by the Owner.

- 2. The terms of payment are set forth in Article 4 of the Agreement and in the applicable governing provisions of Exhibit C.
- J. Consultants retained as of the Effective Date of the Task Order: EMCe
- K. Other Modifications to Agreement and Exhibits: None

[Supplement or modify Agreement and Exhibits, if appropriate.]

L. Attachments: Negotiated Fee Proposal

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- M. Other Documents Incorporated by Reference:
- N. Terms and Conditions

Execution of this Task Order by Owner and Engineer shall make it subject to the terms and conditions of the Agreement (as modified above), which Agreement is incorporated by this reference. Engineer is authorized to begin performance upon its receipt of a copy of this Task Order signed by Owner.

OWNER:	Guam Waterworks Authority	ENGINEER: D	ueñas, Camacho & Associates, Inc.
Ву:	Minory	Ву:	Jh /
Print Name:	MIGUEL C. BORDALLO, P.E.	Print Name:	KENNETH M. REKDAHL, P.E.
itle:	General Manager	Title:	Vice President
		Engineer Licer Certificate No	No 252
		State of:	Territory of Guam
ESIGNAT	ED REPRESENTATIVE FOR TASK ORDER:	DESIGNATED R	EPRESENTATIVE FOR TASK ORDER:
lame:	Gerald Gattoc	Name:	
danie.	Octain Outloc	Mairie.	
	Project Manager	Title:	
itle:			
itle:	Project Manager	Title:	
itle:	Project Manager Gloria B. Nelson Public Service Bldg.	Title:	-
itle: Address:	Project Manager Gloria B. Nelson Public Service Bldg. 688 Route 15	Title:	
Fitle: Address: -Mail Address:	Project Manager Gloria B. Nelson Public Service Bldg. 688 Route 15 Mangilao, Guam 96913	Title: Address:	
Title: Address: Mail Address: Phone:	Project Manager Gloria B. Nelson Public Service Bldg. 688 Route 15 Mangilao, Guam 96913 ggattoc@guamwaterworks.org	Title: Address: E-Mail Address:	TO FORM:
Fitile: Address: Mail Address: Phone: CERTIFIED	Project Manager Gloria B. Nelson Public Service Bldg. 688 Route 15 Mangilao, Guam 96913 ggattoc@guamwaterworks.org 671-300-6047 FUNDS AVAILABLE: 7/19/2021	Title: Address: E-Mail Address: Phone: APPROVED AS By:	5
Fitle: Address: Mail Address: Phone: CERTIFIED by:	Project Manager Gloria B. Nelson Public Service Bldg. 688 Route 15 Mangilao, Guam 96913 ggattoc@guamwaterworks.org 671-300-6047 FUNDS AVAILABLE:	Title: Address: E-Mail Address: Phone: APPROVED AS By: KELLY O.	5

Task Order Amount: \$96,754.00 Funding Source: WW 09-01

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dated ___

This is EXHIBIT K, consisting of 2 pages, referred to in and part of the Agreement between Owner and Engineer for Professional Services

			AMENDMENT TO OWNER-ENGINEER AGREEMENT Amendment No. 1			
			Amendment No. 1			
Th	e Eff	ective Date of	this Amendment is:			
1.	. Background Data:					
	а.	Owner:	Guam Waterworks Authority			
	b.	Engineer:	Duenas, Camacho & Associates, Inc.			
GV		Project: Indefi Management roject No. M19				
2.	Nat	ture of Amend	ment: [Check those that are applicable and delete those that are inapplicable.]			
		<u> </u>	ditional Services to be performed by Engineer			
		Mo	odifications to services of Engineer			
		Mo	odifications to responsibilities of Owner			
		Mo	odifications of payment to Engineer			
		Mo	odifications to time(s) for rendering services			
		Mo	difications to other terms and conditions of the Agreement			
3.	Des	cription of Mo	difications:			
und to (req Flo	der ti Own: juire:	his contract tha er-Engineer Ag s additional ser litigation and F	mount was \$750,000. During the contract, GWA identified needs for services at have totaled \$749,410 through three Task Orders (No. 1-3). Amendment No. 1 reement is to increase the contract amount to \$846,164. At this time, GWA vices to manage and oversee the construction of the Yigo Sewer Pump Station facility Rehabilitation as described in Task Order No. 4 in the amount of			
in t	he a	mount of \$96,7	to the ID/IQ Owner-Engineer Agreement contract will increase contract funding 154.00 to allow for Task Order No. 4 to be executed. The total contract amount is brough this Amendment No. 1 to the ID/IQ PM CM.	s,		
Tas	k Or	der No. 4 is 390	days from effective date.			
			Exhibit K – Amendment to Owner-Engineer Agreement. C ^o E-500, Agreement Between Owner and Engineer for Professional Services. 4 National Society of Professional Engineers, American Council of Engineering Companies, and American Society of Civil Engineers. All rights reserved.	Page 1		

Agreement Summary:

a. Original agreement amount: \$750,000.00 b. Net amount for Task Orders (1-3): \$749,410.00

Task Order 1: \$297,077.00 Task Order 2: \$189,729.00 Task Order 3: \$262,604.00

> c. Net change for this amendment to include Task Order 4: \$96,754.00 d. Adjusted Agreement amount: \$846,164.00

Change in time for services (days or date, as applicable): _

The foregoing Agreement Summary is for reference only and does not after the terms of the Agreement, including those set forth in Exhibit C.

Owner and Engineer hereby agree to modify the above-referenced Agreement as set forth in this Amendment. All provisions of the Agreement not modified by this or previous Amendments remain in effect.

OWNER: **ENGINEER:**

Guam Waterworks Authority Duenas, Camacho & Associates, Inc.

By: By: Print **Print** name: MIGUEL C. BORDALLO, P.E. KENNETH M. REKDAHL, P.E. name:

Title: General Manager Title: **Chief of Special Projects**

Date Signed: Aw 4, 2021 Date Signed:

CERTIFIED FUNDS AVAILABLE: APPROVED AS TO FORM:

Gwa Chief Financial Officer

GWA Gene al Counsel

Exhibit K-Amendment to Owner-Engineer Agreement. EICDC® E-500, Agreement Between Owner and Engineer for Professional Services. Copyright © 2014 National Society of Professional Engineers, American Council of Engineering Companies, and American Society of Civil Engineers. All rights reserved.