1 2 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

TIMES 10:42 pm

THERESA G. ROJAS, ESQ.

Legal Counsel
Guam Waterworks Authority
Gloria B. Nelson Public Service Building
688 Route 15, Suite 304
Mangilao, Guam 96913

Telephone No: (671) 300-6848

Email: tgrojas@guamwaterworks.org

BEFORE THE GUAM PUBLIC UTILITIES COMMISSION

IN THE MATTER OF:

THE GUAM WATERWORKS AUTHORITY'S ISSUANCE OF A COMPETITIVE DESIGN PROPOSAL FOR DEEP WELL ELECTRICAL UPGRADES

GWA DOCKET NO. 25-11

PETITION FOR GWA TO PROCURE DESIGN SERVICES FOR DEEP WELL VFD AND ELECTRICAL UPGRADES

COMES NOW, the GUAM WATERWORKS AUTHORITY ("GWA"), by and through its counsel of record, THERESA G. ROJAS, ESQ., and hereby files its petition seeking PUC approval to issue a Request for Proposal ("RFP") to procure engineering design services for Deep Well Variable Frequency Drives ("VFD") and electrical upgrades.

BACKGROUND

The Guam Waterworks Authority plays a crucial role in providing potable water to the residents of Guam, operating a network of 120 deep wells to meet the community's water needs. In adherence to the Guam Primary Safe Drinking Water Requirements, GWA is required to ensure that water quality is rigorously monitored and that all GWA wells operate at optimum levels.

GWA Docket 25-11

25

26

27

28

PUC Review: Petition for GWA to Procure Design Services for Deep Well VFD and Electrical Upgrades

28 PUC Review

GWA Docket 25-11

Recent challenges, such as recurring pump and motor failures, power fluctuations, and rising chloride levels have prompted GWA to reconsider how its wells are monitored and adjusted to enhance overall service.

One potential solution is the use of Variable Frequency Drives (VFDs), which are known to regulate pump speed on demand, maintain consistent pressure, and gradually start and stop motors. This helps reduce stress from electrical surges, potentially leading to significant cost savings by extending the lifespan of pumps and motors and reducing labor costs associated with replacements.

To address these challenges, GWA is seeking professional design services to implement enhanced electrical monitoring systems at the affected wells. The goal is to ensure GWA's ability to quickly monitor and adjust production flow rates as needed, as well as to upgrade electrical control panels and related control systems to improve overall operational efficiency at the wells and throughout GWA's water production system.

REQUEST FOR APPROVAL

GWA is seeking to procure professional engineering design services, with the total contract cost anticipated to exceed \$1M dollars (\$1,000,000). This initiative will focus on resolving monitoring, adjustment, and power-related issues that impact well operations.

Specifically, the scope will include the design and integration of solutions such as Variable Frequency Drives (VFDs) to allow for adjustable production flow rates, energy storage systems to manage short-term power interruptions, and three-phase power balancing equipment to stabilize and optimize energy supply for pumping systems. Through these improvements, GWA aims to enhance operational resilience, reduce equipment failure, and improve overall service reliability.

PUC Review: Petition for GWA to Procure Design Services for Deep Well VFD and Electrical Upgrades

In accordance with the PUC's contract review protocol, GWA must secure approval before proceeding with the procurement process for projects valued at One Million Dollars (\$1,000,000) or more. This request seeks the necessary approval from the PUC to solicit proposals from experienced and qualified design engineers in ensuring GWA's continued commitment to enhance and improve its ability to operate its wells safely, reliably, and cost-effectively. Funding for the procured services will come from bonds funds.

In support of this Petition, the CCU has approved GWA's request to procure design services for Deep Well VFD and electrical upgrades by its adoption of CCU GWA Resolution 39-FY2025. This Resolution and its supporting exhibits are attached as **Exhibit A** and are incorporated by reference as if fully set forth herein.

CONCLUSION

Based on the foregoing, GWA requests the PUC approve and authorize GWA to procure design services for Deep Well VFD and electrical upgrades as it is reasonable, prudent, and necessary. Once the proposals have been received and evaluated, GWA will return to the PUC for a second approval on the proposed contract and the amounts to be awarded.

RESPECTFULLY SUBMITTED this 5th day of September 2025.

By:	/s/	
THI	ERESA G. ROJAS	
GW	A Legal Counsel	

GWA Docket 25-11

PUC Review: Petition for GWA to Procure Design Services for Deep Well VFD and Electrical Upgrades



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. 39-FY2025

//

RELATIVE TO APPROVAL OF DESIGN SERVICES PROCUREMENT FOR DEEP WELL VFD AND ELECTRICAL UPGRADES

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 operates 120 Deep Wells for potable water production; and

WHEREAS, during the first 7 months of this fiscal year, GWA documented over \$519,000 worth of pumps and motors being issued from inventory for corrective maintenance at various wells that have suffered pump and motor failures, similarly GWA documented over \$970,000 for FY2024 and over \$1,100,000 for FY2023; and

WHEREAS, in addition to these documented costs, impacts from such pump & motor failures also include material cost of other appurtenances, labor cost, opportunity cost, and loss of customer satisfaction and trust in the water service, which can be difficult to quantify; and

WHEREAS, in compliance with the Guam Primary Safe Drinking Water Requirements, the GWA Laboratory continues to collect and test water samples from all GWA potable water production facilities; and

//

WHEREAS, a number of wells are experiencing chloride levels that are trending higher,
which is a signal for saltwater intrusion, and a possible mitigation is to lower the production flow
rate at the affected wells; and

WHEREAS, the GWA is committed to protecting Guam's precious aquifer and to providing excellent water services, which includes delivery clear and great tasting water to the tap; and

WHEREAS, GWA Management believes the best course of action is to solicit for professional engineering design services to address the aforementioned concerns by exploring options to mitigate power anomalies and equip the wells with the ability to adjust production flow rate, which may include the use of Variable Frequency Drives allowing for variable speed operation for the well pumps, energy storage devices (such as batteries, inductors, and/or capacitors) to ride-through momentary power outages or brownouts, and/or three-phase power balancing equipment to ensure optimal power supply for the well pumping equipment; and

WHEREAS, GWA Management believes that now is the appropriate time to proactively plan and implement measures to mitigate these risks before they evolve into significant obstacles that could hinder GWA's ability to fulfill its mission of delivering excellent water and wastewater services in a safe, reliable, responsible, and cost-effective manner; and

WHEREAS, the GWA anticipates this professional engineering design service will cost more than One Million Dollars (\$1,000,000); and

WHEREAS, the Public Utilities Commission (PUC) contract protocol requires GWA to obtain approval prior to advertising procurement for projects with an anticipated value of One Million Dollars (\$1,000,000) or greater; and

WHEREAS, the CCU must approve all petitions that will be submitted to the PUC; and

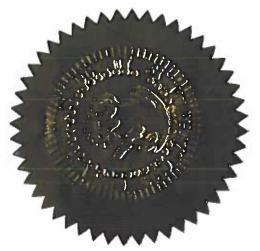
1	WHEREAS, GWA Management seeks CCU's approval to submit a petition to the PUC			
2	for the approval of the advertising for procuring design services for this project.			
3				
4	NOW BE IT THEREFORE RESO	DLVED, the Consolidated Commission on Utilities		
5	does hereby approve the following:			
6	1. The recitals set forth abov	1. The recitals set forth above hereby constitute the findings of the CCU.		
7	2. The CCU finds that the	2. The CCU finds that the advertisement to solicit Professional Engineering		
8	Design Services for Deep Well VFD and Electrical Upgrade is necessary to			
9	ensure the water system's resilience and to maintain excellent water services			
10	to the public.			
11	3. The CCU hereby authorizes the management of GWA to submit a petition to			
12	the PUC for the procuren	the PUC for the procurement of professional engineering design services for		
13	the Deep Well VFD and Electrical Upgrade project.			
14		**		
15	RESOLVED, that the Chairman cert	ified, and the Board Secretary attests to the adoption		
16	of this Resolution.			
17				
18	DULY AND REGULARLY ADOPTED, this 27th day of May, 2025.			
19				
20	Certified by:	Attested by:		
21	15/ A 1	/		
22	- Jan 199	Jun		
23	FRANCIS E. SANTOS	MELVIN F. DUENAS		
24	Chairperson	Secretary		
25	//			
26				
27	//			
28				
29	//			
30				
31	//			

SECRETARY'S CERTIFICATE

I, MELVIN F. DUENAS, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:

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

AYES:	5	
NAYS:	O	
ABSENT:	D	
ABSTAIN:	0	



///

16 ///

19 ///

22 ///

25 ///

27 | 28 | ///

///