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9 *Attorney for Guam Power Authority*

10 **BEFORE THE GUAM PUBLIC UTILITIES COMMISSION**

11 **IN THE MATTER OF:**

GPA DOCKET NO. 24-20

12 **GUAM POWER AUTHORITY'S**
13 **LEVELIZED ENERGY ADJUSTMENT**
14 **CLAUSE (LEAC)**

SUBMISSION OF ATTACHMENT
APPENDIX A TO PETITION OF THE
GUAM POWER AUTHORITY TO
MAINTAIN THE LEAC FACTOR

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17 On June 7, 2024, under the above-referenced docket number, the Guam Power Authority
18 (GPA) filed its Levelized Energy Adjustment Clause (LEAC) filing and petition to maintain the
19 current LEAC factor effective August 1, 2024, for the period of August 1, 2024, through January
20 31, 2025. This LEAC filing included CCU GPA Resolution No. FY2024-22 of May 28, 2024,
21 attached to the petition as Exhibit A, approving GPA's request to maintain the LEAC. GPA
22 hereby provides Appendix A to the LEAC filing, Progress Reporting for December 2023 to May
23 2024. *See Attach. (Appx. A - Progress Reporting for the Reduction of Unaccounted for Energy*
24 *Report).*

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28 Respectfully submitted this 14th day of June, 2024.

29 *Attorney for Guam Power Authority*

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32 By: _____

M. Wołoschuk
Marianne Wołoschuk
GPA Legal Counsel

APPENDIX A Progress Reporting for December 2023 to May 2024

KEY MANAGEMENT OBJECTIVE	TASK DESCRIPTION	STATUS
1	Accurate metering and billing of the U.S. Navy	
1.1	Process Ongoing Navy account set in CC&B for electronic meters (SEL-734, SEL-735, Q1000) at all Navy metering points.	<ul style="list-style-type: none"> Actual billing of Navy is reviewed by GPA prior to issuing to Navy. From December 2023 to May 2024, 15 out of the 23 meters (Orote, Marbo, SRF, Radio Barrigada, Cold Storage, NCTAMS, and Pott's Junction substations) continued to be downloaded at the substation. The remaining 8 meters located at Andersen, North Finegayan, Agana, Harmon, Piti, and Apra were remotely interrogated. All Navy Substation meter points utilize SEL meters (734 and 735 models) –Quantum meters have been phased out. GPA Meter Shop personnel use laptops to download the load profile data from the SEL meters at stations without network communication to GPA. The load profile data from all the meters are imported into the MV90xi application to aggregate the data and report overall consumption and demand figures. GPA SPORD is working to integrate MV90xi's with GPA's MDMS. Aggregate billing continues in CC&B and reconciled to the manual calculations each month. Navy Metering Upgrade from Quantum Meters to SEL completed in July 17, 2020. Navy Meters at Harmon, Piti, Agana, and Andersen Substations can be downloaded remotely.
1.2	Process Ongoing Exploring the feasibility of aggregate reading	
2	Accurate metering and billing of civilian loads	
2.1	Process Ongoing Meter Task Force (MTFC) continues to oversee, assess, and issue recommendations for QA/QC of metering and billing accuracy	<p>System Losses Report Data</p> <ul style="list-style-type: none"> December 2023 to May 2024: <ul style="list-style-type: none"> Accounts with meter discrepancies found & corrected: no information provided for June 2023 thru August 2023; communication between routers were down due to typhoon damage. <ul style="list-style-type: none"> ❖ 1555 Blank Display ❖ 68 No Communication ❖ 02 Defective Switch
2.2	Process Ongoing Identify all zero consumption billings and perform required field investigations	<ul style="list-style-type: none"> December 2023 to May 2024: <ul style="list-style-type: none"> 5159 accounts identified with zero consumption; they are active smart meters assigned to customer with no reading. This is with no load/minimal consumption. <p><i>*There are 25 opt out customers that GPA manually reads their consumptions.</i></p>
3	Systematic analysis of billing accounts for possible outliers	
3.1	Process Ongoing Documentation for systematic billing analysis	<ul style="list-style-type: none"> Analysis/refinements addressed on a monthly basis as problems are encountered. In the event that a meter reading is not available on the day of the reading uploads the most recent previous or subsequent day's readings (within one or two days of the read date) are used. There are some residential customers who have opted out of using a Smart Meter and continue to use the legacy meters. There have been no significant issues with these customers.
3.2	Process Ongoing Monitoring of reading exception reports in the CC&B system	<ul style="list-style-type: none"> If meter readings are not available within the window of time stated in 3.1, CC&B will calculate an estimated bill based on the previous actual data from that meter.
3.3	Process Ongoing Additional reports generated monthly in the CC&B system to	<ul style="list-style-type: none"> A monthly report of estimated billings is generated to identify accounts that were billed with estimated consumption in excess of three billing periods. These accounts are then

KEY MANAGEMENT OBJECTIVE	TASK DESCRIPTION	STATUS
	assist in billing analysis	investigated for correction.
<p>4</p> <p>Accurate Monitoring, Measurement and Reporting of System Losses</p> <p>4.1</p> <p>Process Ongoing</p> <p>Identify discrepancies present</p> <p>metering</p>		<ul style="list-style-type: none"> • December 2023: Meter Discrepancies: 184 <ul style="list-style-type: none"> ▪ Meter Change Outs: 184 ▪ Meter Preventive Maintenance: 0 • January 2024: Meter Discrepancies: 1060 <ul style="list-style-type: none"> ▪ Meter Change Outs: 1060 ▪ Meter Preventive Maintenance: 0 • February 2024 <ul style="list-style-type: none"> ▪ Meter Discrepancies: 138 ▪ Meter Change Outs: 138 ▪ Meter Preventive Maintenance: 0 • March 2024: <ul style="list-style-type: none"> ▪ Meter Discrepancies: 75 ▪ Meter Change Outs: 75 ▪ Meter Preventive Maintenance: 0 • April 2024: <ul style="list-style-type: none"> ▪ Meter Discrepancies: 168 ▪ Meter Change Outs: 168 ▪ Meter Preventive Maintenance: 3 • May 2024: <ul style="list-style-type: none"> ▪ Meter Discrepancies: 117 ▪ Meter Change Outs: 117 ▪ Meter Preventive Maintenance: 55
4.2	Procure equipment & system	<ul style="list-style-type: none"> • Ongoing meter change outs due to defective meters, RMA meters under warranty to be shipped to manufacturer. There has been a pause to this, initially due to storm recovery and now due to focus on catching up with discrepancies from previous months due to no communication from damaged routers.
4.3	Replace, install, upgrade substation metering reporting systems	<p>December 2023 to May 2024</p> <ul style="list-style-type: none"> • 2ea SEL-735 primary meters were changed out at DANDAN SUBSTATION X-390/391 • 1ea SEL-735 meter for MEC-8 generator output meter • 1ea SE-735 meter changed out for CABRAS Unit-1 • 1ea SEL-735 meter changed out for DEDEDO Unit-2

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5	<p data-bbox="237 1199 269 1604">Identification of Unlisted Electric Energy Consumer</p> <p data-bbox="542 1199 805 1604">5.1 Process Ongoing</p> <p data-bbox="542 1199 805 1604">Process in place to identify and minimize occurrences in Unlisted consuming meters. Various reports are generated to identify unlisted energy consumers (i.e., exception, UNLISTEDMTR report for meter readings that were not captured in CC&B and therefore ran after each upload).</p>	<p data-bbox="302 1031 326 1188"><u>December 2023</u></p> <ul data-bbox="334 86 513 1188" style="list-style-type: none"> RPS verified 26 meters from the MDMS Non-Consuming Active Meters report. 3 services were not in use, 16 meters were registering properly, 1 meter was found defective, 2 are net metering systems, 1 is terminated, and 3 locations were found vacant. RPS inspected 3 meters from the MDMS Zero Consumption-GOV report. 1 meter was registering properly, 1 service was not in use, and 1 service is seldom used due to ongoing renovations. RPS verified 1 meter from the CCB Consuming Inactive Meters report. The location was found vacant, service not in use. <p data-bbox="513 1031 537 1188"><u>January 2024</u></p> <ul data-bbox="545 86 724 1188" style="list-style-type: none"> RPS verified 11 meters from the MDMS Non-Consuming Active Meters report. 6 locations were vacant, 1 meter was found defective, 1 was a new net metering system, 2 services were not in use and 1 was found registering properly. RPS inspected 5 meters from the MDMS Zero Consumption-GOV report. 3 meters were registering properly and 2 were defective (FAs created) RPS verified 22 meters from the CCB Unlisted Consuming Meters report. 21 meters had active accounts, and 1 was terminated. <p data-bbox="724 1031 748 1188"><u>February 2024</u></p> <ul data-bbox="756 86 919 1188" style="list-style-type: none"> RPS verified 20 meters from the MDMS Non-Consuming Active Meters report. 15 services were not in use, 3 locations were vacant, 1 was seldom used, and 1 was registering properly. RPS inspected 3 meters from the MDMS Zero Consumption-GOV report. 1 meter was a new net metering system, and 2 were registering properly. RPS verified 17 meters from the CCB Unlisted Consuming Meters report. 16 meters had active accounts and 1 had a new net metering system. <p data-bbox="919 1031 943 1188"><u>March 2024</u></p> <ul data-bbox="951 86 1146 1188" style="list-style-type: none"> RPS verified 9 meters from the MDMS Non-Consuming Active Meters report. 2 locations were vacant, 1 was seldom used (minimal usage), 3 had seal cuts (connections inspected), 1 was not in use and 2 were registering properly. RPS inspected 8 meters from the MDMS Zero Consumption-GOV report. 1 location was vacant 5 services were not in use, and 2 were registering properly. RPS verified 13 meters from the CCB Unlisted Consuming Meters report. 12 meters had active accounts and 1 is a new net metering system. <p data-bbox="1146 1031 1170 1188"><u>April 2024</u></p> <ul data-bbox="1179 86 1325 1188" style="list-style-type: none"> RPS verified 4 meters from the MDMS Non-Consuming Active Meters report. 2 locations were vacant, 1 meter was found defective, and 1 was a new net metering system. RPS inspected 3 meters from the MDMS Zero Consumption-GOV report. 1 meter was a new net metering system, and 2 were recent change outs. RPS verified 14 meters from the CCB Unlisted Consuming Meters report. 12 meters had active accounts, 1 location was vacant, and 1 had a new net metering system. <p data-bbox="1325 1031 1349 1188"><u>May 2024</u></p> <p data-bbox="1382 653 1406 1188">Data unavailable - to be reported in next reporting period.</p>

KEY MANAGEMENT OBJECTIVE	TASK DESCRIPTION	STATUS
<p>5.2 Process Ongoing</p>	<p>Tampering and illegal connections investigated and documented through GPA Revenue Protection Section, Internal Audit Section.</p>	<p>December 2023</p> <ul style="list-style-type: none"> RPS verified 12 meters from the Command Center Reverse Rotation Detected report. 7 were new net metering systems, 2 were registering properly, 1 location was vacant, and 2 services were not in use. RPS verified 6 locations for reported or suspected theft of service or tampering. 5 were direct hook-ups to the IWPS. All were reported to GPD. The 1 remaining inspection yielded negative finding. <p>January 2024</p> <ul style="list-style-type: none"> RPS verified 6 meters from the Command Center Reverse Rotation Detected report. 2 were new net metering systems, and 4 were registering properly. RPS inspected 2 meters from the Command Center Tamper or Reverse Energy Flow report. Both were new net metering systems. RPS verified 4 locations for reported or suspected theft of service or tampering. 1 had a jumpered meter socket, 2 had inverted (upside down) meter, and 1 was a direct hook-up found on GPA service wire. <p>February 2024</p> <ul style="list-style-type: none"> RPS verified 21 meters from the Command Center Reverse Rotation Detected report. 16 were new net metering systems, 2 meters were defective, 1 location was vacant, 1 service was not in use, and 1 was registering properly. RPS inspected 3 meters from the Command Center Tamper or Reverse Energy Flow report. 2 were new net metering systems and 1 meter was defective (FA created). RPS verified 7 locations for reported or suspected theft of service or tampering. 1 jumpered meter socket and 2 were direct hook-ups found on GPA service wires. The remaining 4 yielded negative finding for tamper or theft. <p>March 2024</p> <ul style="list-style-type: none"> RPS verified 10 meters from the Command Center Reverse Rotation Detected report. 6 were new net metering systems, 2 meters were found defective, and 2 were registering properly. RPS inspected 1 meter from the Command Center Tamper or Reverse Energy Flow report. That meter was a new net metering system. RPS verified 7 locations for reported or suspected theft of service or tampering. 2 meters were missing, 4 were direct hook-ups found on GPA service, and 1 yielded negative finding for tamper or theft. <p>April 2024</p> <ul style="list-style-type: none"> RPS verified 21 meters from the Command Center Reverse Rotation Detected report. 18 were new net metering systems, 1 meter was defective, and 2 were registering properly. RPS inspected 2 meters from the Command Center Tamper or Reverse Energy Flow report. Both were new net metering systems. RPS verified 9 locations for reported or suspected theft of service or tampering. 1 meter was found vandalized, 2 had jumpered meter sockets, 4 were direct hook-ups found on GPA service wires, and 2 yielded negative finding for tamper or theft. <p>May 2024</p> <ul style="list-style-type: none"> RPS

KEY MANAGEMENT OBJECTIVE	TASK DESCRIPTION	STATUS
5.2 Process Ongoing	Tampering and illegal connections investigated and documented through GPA Revenue Protection Section, Internal Audit Section.	<ul style="list-style-type: none"> • RPS • RPS
6 6.1 Process Ongoing	<p>Power System Design and Procurement Guides Considering Optimization of System Costs and Losses</p> <p>Prepare conductor economics selection and evaluation guidelines</p>	<ul style="list-style-type: none"> • GPI work to shift load between P-210, P-211, P-250, and P-321- Completed • GPI work to shift load between P-332 and P-320 - Completed • Installation of switches between P-220 and P-223 and between P-221 and P-223 to be able to isolate Apra breakers - Completed • CIP for underground connection of P-005 and P-007 pending GPI work to install underground conductors, install switch, and re-locate station power to new Infrastructure-Completed • GPI Chalan Bada 10 pole extension to catch main line P-330 at Route 9 to remove line by Golf course pending easement issues for 3 remaining poles due to road not on easement. • GPI Route 15; 32 pole extension to reduce loading on P-332 and provide viable back feed for P-067, P-332, and Pagat Substation - Completed • P-320 breaker commissioning, installation of relay and meter, and replacement of underground cables - Completed • GPI; San Ramon Hill 4 pole extension for switch 13-252T283 between P-252 and P-283 for backfeed – Completed • CIP/GPI work for the Nikko Tsubaki hotel, installation of isolation switches and re-distribution of load completed. Upgrade of primary line completed. Re-configuration of SV1-A and SV1-B pending major outage. • Conductor upgrade and steel arm maintenance on P-047 pending procurement of arms. • P-280 line upgrade and extension for Navy back feeding completed. • P-005 line upgrade and extension for Navy back feeding pending survey. • P-087 swamp road line upgrade design completed pending scheduling. • P-322/P-310 line extension and load shifting pending installation. • P-290 line extension to relieve load on P-087, P-089 and P-046 in design. • P-112 extension to improve back feeding of P-087 and P-330 at survey. • P-203 and P-205 line upgrade and load shifting.

KEY MANAGEMENT OBJECTIVE	TASK DESCRIPTION	STATUS
		<ul style="list-style-type: none"> • P-311 conductor upgrade South Sabana completed. • Aragon Street P-253-line upgrade design completed. • New project to identify issues with solar and tankless water heater issues • Mangilao, Blas street low voltage completed • Mangilao, Tun Onca low voltage completed • Yigo, Trevor Rd. high voltage design completed • Wusstig Rd relocation and upgrade. • GPI's are being identified for transformers that are potentially overloaded and have potential voltage issues. Advanced Grid Analytics will be utilized to assist with this task. • 47 possible overloaded transformers identified; 10 GPI's created; 20 pending assessment. • Engineering and T&D currently right-sizing pad-mounted transformers as existing transformers fail.
6.2	Process Ongoing Stock appropriate transformers	
7	Metering Assessment and Correction of Customer Power Factor	
7.1	Evaluating large demand customers to define magnitude of power factor problem.	<ul style="list-style-type: none"> • No significant issues regarding power factor calculations. CC&B calculates the power factor.
7.2	Evaluating economics of power factor improvement	<ul style="list-style-type: none"> • Re-evaluation of reconfigured feeders completed; pending order for capacitor banks.
8	Cost Effective Reactive Power Compensation	
8.1	Process Ongoing Procure and install distribution capacitors	<ul style="list-style-type: none"> • Capacitor banks received under PO: 21876. 7ea. 450 kVAR and 6ea. 900 kVAR fixed capacitor banks. • Re-evaluation of Dededo Feeders due to GWA pump projects pending balancing. • Isolation of P-088 capacitor bank due to VAR feedback during low load time. • Installation of P-330 capacitor bank at Santa Ana completed. • P-321 shorted capacitor bank replaced. • Island-wide VAR analysis to be conducted. • Navy's installation of capacitor banks at the new North Fingayan Substation to assist in improving power factor and reduce losses. Capacitor banks will be operated and maintained by GPA T&D Substation personnel.
9	Quality Systems Design & Implementation	
9.1	Process Ongoing Documentation including supporting documents regularly updated & maintained	<ul style="list-style-type: none"> • Documents updated and submitted semi-annually.

**GUAM POWER AUTHORITY
GROSS GENERATION, SALES, LINE LOSSES**

	24-Month	12-Month	Apr-24	Mar-24	Feb-24	Jan-24	Dec-23	Nov-23
Gross Generation	3,296,525,786	1,609,040,226	144,481,469	139,116,167	125,943,387	134,168,615	144,134,341	141,967,724
Station Use	118,691,389	58,409,192	5,118,796	5,320,093	4,840,983	4,946,779	5,524,608	5,244,405
Net Send Out (A-B)	3,177,834,397	1,550,631,034	139,362,673	133,796,074	121,102,404	129,221,836	138,609,733	136,723,319
Sales to Navy (@34.5Kv)	609,596,166	298,211,661	26,991,850	24,590,159	25,979,038	25,271,736	26,976,442	27,448,373
GPA-metered (C-D) Power factor adj.	2,568,238,231	1,252,419,373	112,370,823	109,205,915	95,123,366	103,950,100	111,633,291	109,274,946
Adjusted (E-F)	2,568,238,231	1,252,419,373	112,370,823	109,205,915	95,123,366	103,950,100	111,633,291	109,274,946
GPA KWH Accountability: Sales to customers (accrual basis)	2,377,386,904	1,156,222,472	104,360,933	99,583,701	89,051,361	96,639,467	102,438,339	97,883,174
GPA use-KWH	7,264,638	3,560,912	305,104	300,336	297,002	290,260	312,835	304,296
No of days	731	366	30	31	29	31	31	30
Unaccounted for KWH (G-H)	183,586,689	92,635,989	7,704,786	9,321,878	5,775,003	7,020,373	8,882,117	11,087,476
<u>Ratio of Unaccounted KWH:</u> Ratio to Gross Generation (J/A)	5.57%	5.76%	5.33%	6.70%	4.59%	5.23%	6.16%	7.81%
Ratio to Net Generation (J/C)	5.79%	5.99%	5.54%	6.98%	4.78%	5.45%	6.42%	8.13%