



# CONSOLIDATED COMMISSION ON UTILITIES

Guam Power Authority • Guam Waterworks Authority  
P.O.BOX 2977 • Agana, Guam 96932

## RESOLUTION NO. 2016-49

### RELATIVE TO AUTHORIZING THE GUAM POWER AUTHORITY TO SEEK APPROVAL FROM THE PUC TO PROCEED WITH THE CABRAS UNIT #1 MAJOR OVERHAUL

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6       **WHEREAS**, Guam Power Authority (GPA) and Taiwan Electrical and Mechanical Engineering  
7 Services, Inc. TEMES entered into a five-year Performance Management Contract (PMC) for Cabras 1 &  
8 2, which commenced on October 1, 2010; and

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10       **WHEREAS**, this Performance Management Contract has been extended until December 31,  
11 2016; and

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13       **WHEREAS**, Cabras Unit #1's last major overhaul was completed in December 2013 and the unit  
14 has been in operation for 33 months without a major overhaul and will be running for 40 months before  
15 the scheduled overhaul; and

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17       **WHEREAS**, Cabras Unit 1 is scheduled for its next overhaul in July of 2017; and

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19       **WHEREAS**, this overhaul is expected to last 50-days; and

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21       **WHEREAS**, the PMC recommends the overhaul of Cabras Unit 1 to restore reliability and  
22 availability of plant equipment, restore overall plant efficiency, and support economic dispatching of the  
23 generation system; and

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25       **WHEREAS**, key items designated for overhaul include the main steam turbine generator,  
26 archway tubes, burner front system and flame detectors, and air preheaters; and

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28       **WHEREAS**, the total overhaul cost is anticipated to be \$5,490,000; and

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30       **WHEREAS**, this project will be programmed under revenue funds and a breakdown of cost can  
31 be seen in Attachment 1; and

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33       **WHEREAS**, approval is requested to petition the PUC to utilize revenue funds for the Cabras Unit  
34 1 Overhaul in the amount of \$5,490,000.

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36       **NOW, THEREFORE, BE IT RESOLVED**, by the Consolidated Commission on Utilities as follows:

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38       1. After careful consideration, the Consolidated Commission on Utilities finds the Cabras Unit 1  
39 overhaul to be reasonable, prudent, and necessary for the reliable operation of the generating  
40 plant.  
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42       2. The General Manager of Guam Power Authority may petition to PUC to utilize revenue funds in  
43 the amount of \$5,490,000, for the Cabras Unit 1 Overhaul.

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DULY AND REGULARLY ADOPTED this 27<sup>th</sup> day of September, 2016.

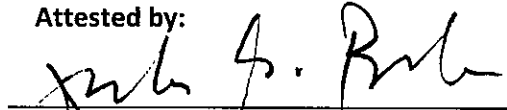
Certified by:



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JOSEPH T. DUENAS  
Chairman

Attested by:



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J. GEORGE BAMBA  
Secretary

**SECRETARY'S CERTIFICATE**


1 I, J. George Bamba, Secretary for the Consolidated Commission on Utilities do hereby certify  
2 that the foregoing is a full, true, and correct copy of the resolution duly adopted at a regular meeting of  
3 the members of Guam's Consolidated Commission on Utilities, duly and legally held at the meeting place  
4 thereof on September 27, 2016, at which meeting of all said members had due notice and at which at  
5 least a majority thereof were present, and

6 At said meeting said resolution was adopted by the following vote:

7  
8 Ayes: 3  
9 Nays: 0  
10 Absent: 2  
11 Abstain: 0

12  
13 Said original resolution has not been amended, modified, or rescinded since the date of its  
14 adoption, and the same is now in full force and effect.

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16 **SO CERTIFIED** this 27<sup>th</sup> day of September, 2016.

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19 J. George Bamba  
20 Secretary  
21 Consolidated Commission on Utilities  
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Attachment 1 – Cabras Unit 1 Overhaul Cost Summary

<b>NO.</b>	<b>DESCRIPTION</b>	<b>Cost</b>	<b>Purpose</b>
1	Unit 1 main turbine generator major overhaul ( 50 days)	\$ 2,100,000	Reliability, Availability, Efficiency
2	Turbine exhaust hood expansion joint replacement	\$ 160,000	Life Extension
3	Upgrade the unit 1 burner front system with electronic ignition oil lighter control system: ignition probe tips (sparks), cylinder and flame detectors for all 4 burners	\$ 500,000	Upgrade, Reliability
4	API standard open inspection and repairs for light diesel oil tank	\$ 200,000	Life Extension
5	Boiler casing and refractory Renewal during overhaul, including soot waste and insulation waste disposal (\$100,000.00)	\$ 170,000	Availability, Efficiency
6	Boiler water wall tube replacement based on NDE (UT) Inspection results	\$ 95,000	Availability, Efficiency
7	A.H. duct expansion joint replacement	\$ 120,000	Efficiency
8	Components and part preparation for unit overhaul: boiler system and auxiliaries, including oil injection spray plates, oil guns, air register parts, APH rotating components, and lks (for soot blowing parts), etc.	\$ 250,000	Reliability
9	Plant Safety Valve Replacement after verification by Basin Valve Inc.	\$ 95,000	Safety, Reliability
10	Upgrade the heavy oil heater temperature control system with better control valve and instruments	\$ 40,000	Upgrade, Efficiency
11	Procurements of DCS/BMS system critical control components for spares which failure of these components would require instant replacements to prevent long term shutdown of the unit	\$ 95,000	Reliability, Availability
12	Stack refurbishment and support structure painting	\$ 300,000	Safety
13	Water treatment system (RO+EDI) inspection, repairs, and component replacement	\$ 35,000	Availability
14	Fire protection systems annual inspection, repair, and certification.	\$ 50,000	Safety
15	Waste oil sludge cleaning and disposal	\$ 150,000	Efficiency
16	Inlet vane control assembly and Venturi cone replacement for Unit 1 FDF.	\$ 150,000	Availability, Increased Capacity
17	Air preheater basket replacement	\$ 230,000	Efficiency
18	Archway tube replacement	\$ 750,000	Efficiency
	<b>TOTAL OVERHAUL COST</b>	<b>\$ 5,490,000</b>	