

Appendix H.

4.1.2. Performance Testing Results

Description of test results: McHale and Associates, Inc. conducted performance testing of Unit 1 in July 1998, March 2004, April 2005 and Unit 2 on December 1997, March 2004, April 2005. Unit net & gross heat rate testing in addition to individual component testing was performed. The following tables are the summary results of the latest tests:

History:

Table 24. 2005 Performance Test Summary Table – Unit 1

Description	Units	40 MW 3 Burners	40 MW 4 Burners	45 MW 4 Burners	55 MW 4 Burners	60 MW Average of 2 Tests	Peak Load Test
Measured Steam Turbine Gross Output	kW	40,208	39,621	45,029	55,062	60,095	65,885
Unit Net Output	kW	37,380	36,824	42,098	51,861	56,723	62,295
Steam Turbine Gross Heat Rate	Btu/kWh	8,281	8,299	8,190	8,201	8,216	8,365
Boiler Efficiency	%	86.78%	87.12%	87.12%	87.18%	85.90%	85.83%
Unit Net Heat Rate (Boiler Losses Method)	Btu/kWh	10,538	10,518	10,380	10,271	10,416	10,596

Table 25. 2005 Performance Test Summary Table – Unit 2

Description	Units	40 MW 3 Burners	40 MW 4 Burners	45 MW 4 Burners	55 MW 4 Burners	60 MW Average of 2 Tests	Peak Load Test
Measured Steam Turbine Gross Output	kW	40,970	40,711	45,840	55,720	60,855	64,551
Unit Net Output	kW	37,988	37,782	42,793	52,504	57,366	60,983
Steam Turbine Gross Heat Rate	Btu/kWh	8,597	8,507	8,441	8,601	8,406	8,379
Boiler Efficiency	%	86.47%	87.10%	86.89%	N/A(+)	N/A(+)	N/A(+)
Unit Net Heat Rate (Boiler Losses Method)	Btu/kWh	10,985	10,826	10,763	10,373	10,387	10,352

+The Air Heater O2 analyzer system developed leaks during the 55 MW Test. This affected the boiler efficiency calculations at the 55 MW, 60 MW, and Peak Load Tests. In order to determine the Unit Net Heat Rate at the 55 MW, 60 MW, and Peak Load tests the 45 MW boiler efficiency of 86.89% was used.

Condition Assessment: New heat rate testing is needed since, both turbines have been overhauled, both main condensers have been cleaned and both boilers and air preheaters have undergone major repairs since the 1997 and 1998 performance tests were performed. The heat rate of both units should have improved, but without current test results we cannot give a new base line of unit performance at this time. Both of the McHale unit performance test reports, should be reviewed by the prospective PMC proponents to gain a more complete understanding of the individual equipment performance and their short comings.

4.2. Operating Limitations

Description of current operating limits: Both units are available for full load but Unit 2 is currently operating at lower operating temperature due to a weak boiler arch way section. Plans are such to replace several of the worn out tubes in this year's outage.

4.3. Minimum Load and Ramp Rates

History: Currently both units can change load at 7 MW per minute from the 20 MW to 66 MW load range. With all four burners in service and the unit at 40 MW the units can ramp up to 66 MW at a rate of 5 MW per minute.

Expectations Assessment: Both units can operate at a current low load of 20 MW gross, however this low limit may not be low enough for cost effective system wide operation if economic conditions force loads to decrease significantly. If this should occur, the PMC may be required to operate each Cabras units at 16 MW gross or lower if possible at extremely light loads.

5. Operations and Maintenance

5.1. Operational Characteristics

History: When the Cabras facility began operation over 30 years ago, it was the largest pair of electric production units on the island. With its reheat cycle and new equipment, the plant was a very good, low cost producer because:

- 1) Cabras 1 & 2 had a better heat rate than any other unit on the island;
- 2) Cabras 1 & 2 could burn low cost #6 residual fuel oil; and,
- 3) Cabras 1 & 2 achieved an impressively large economy of scale advantage when compared to the other generating units on the island based on the number of personnel to operate and maintain the unit versus its large output capability.

With the advent of the large slow speed diesels of Cabras 3 & 4 and the recent additions of the MEC 8 & 9 units, Cabras 1 & 2 is required to take on a new operating role. Since Cabras 3 & 4 and MEC 8 & 9 have lower heat rates, and burn the same high sulfur, #6 residual fuel oil as that of Cabras 1 & 2, they are now the islands base load units. Thus, Cabras 3 & 4 and MEC 8 & 9 are dispatched before Cabras 1 & 2 due to over all system economics. For this reason Cabras 1 & 2 are now required to

operate efficiently at a different mode that being cycling, compared to its past method of operation, that of a base loaded unit.

Needs Assessment: The aforementioned operating requirements will be one of the PMC's challenges in the near future. Improvements in equipment reliability and operator techniques will be required to achieve these results.

5.2. Cabras Operations/Maintenance Practices

5.2.1. Operations Procedures Index

Description of system: Cabras has a Table of Standard Operating Procedures, to guide employees through various issues associated with daily production. Many of these procedures are general to the company but a few assist in the day-to-day operation of the plant. A complete listing of these procedures will be made available for review through a CD-ROM provided as part of the RFP documents and the Virtual Website that GPA has developed.

Cabras employees continue to utilize the original Operation Manual, dated July 1974, as provided by Mitsui and Co. Inc., New York, U.S.A. & Tokyo Electric Power Services CO., LTD., of Tokyo, Japan. The manual covers issues such as:

- Starting of unit when Cold, Warm or Hot, with curves and limits
- Continuous operation
- Increasing and decreasing load
- Shutdown of unit
- Plant auxiliaries
- Operator equipment check points and inspections
- Normal operating ranges of temperatures, pressures and flows
- Lead and Lag operations
- Power transformer operation

History: The Cabras operations department has relied on the original Operation Manual for operating procedures.

Needs Assessment: The next PMC will need to continue with the future training functions in support of operational excellence goals and develop detailed procedures to support long term operation.

5.2.2. Maintenance Procedures

Description of system & History: The Cabras maintenance departments rely on the OEM manuals and employee's historical knowledge and learned skills to perform required maintenance activities.

Needs Assessment: Certain maintenance procedures need to be developed to support future maintenance activities.

5.2.3. Water Production Procedures

Description of system & History: The Cabras operation department does not have specifically developed water production procedures. They rely on the OEM manuals and employee's historical skills to perform required maintenance activities.

Needs Assessment: Certain water production procedures need to be developed to support future operations activities. All water production procedures will be the property of GPA and transferred to GPA for use, and are to be developed in electronic format such as Microsoft Word.

5.2.4. Boiler Water Treatment Procedures

Description of system & History: The Cabras operation department has specifically developed boiler water treatment procedures, but requires revision.

Needs Assessment: Certain boiler water treatment procedures need to be developed/ revised to support future operations activities. The PMC will be required to better organize this function during the life of the contract. All boiler water treatment procedures will be the property of GPA and transferred to GPA for use, and are to be developed in electronic format such as Microsoft Word. The Microsoft Word documents shall be archived as development copies. Most documents will be delivered to users as Adobe PDF files or in hardcopy.

5.3. Central Support Services

5.3.1. Central Maintenance Capabilities

Description of department & capabilities of personnel: The Central Maintenance department (CM) supports Cabras 1, 2, 3 & 4 in addition to the fleet of combustion turbines and medium speed diesels across the entire island. Central Maintenance has good in-house maintenance capabilities for a plant this size with the following equipment and shop support:

- Three engine lathes capable of turning 40+ inches, 15 feet in length;
- Milling machine;
- Surface grinder;
- A pair of band saws;
- Two drill presses (one large radial and one small);
- Four electric welding machines rated at 300 amps;
- Two portable (diesel powered) welding machines with AD/DC power and compressed air capabilities;
- Plasma cutter;
- Tool storage locks up with various portable hand tools, estimated value approximately \$100,000.

The CM department personnel receive their training through on-the-job efforts. There is no formal training or apprenticeship program. The majority of the CM personnel are currently Journeymen mechanics. Currently there is only one Utility Worker position employee in the CM department.

History: the CM department personnel typically have supported the major outages and large equipment repair activities at Cabras such as:

- Air heater basket and seal repairs;
- Boiler welding and repairs;
- Turbine / Generator outages;
- Pump, motors, fans;
- Piping, valves, condenser, feedwater heaters.

The CM department has a staff of 22 employees, with a Superintendent, support staff, 2 foremen and 18 hourly employees.

5.3.2. Central Planning Capabilities

Description of department & capabilities of personnel: In 1997 GPA initiated the implementation of the Computerized Maintenance Management System (CMMS) under the J.D. Edwards (JDE) Financial Management Software for all operations division sections, but primarily for generation, T&D and transportation. Prior to this program, GPA tracked maintenance with a simple database or spreadsheet program, with no standardized maintenance management program in place. History files were not easily accessible and most history resources were retiring. In addition, labor and other project costs tracking became difficult tasks when projects were not setup with appropriate tracking accounts.

Currently, there are two full time dedicated maintenance planners at the Cabras 1 & 2 plant that handle the processing, coordinating, scheduling and closing of maintenance work orders. The planner's areas of responsibilities are generally split to handle either mechanical or electrical/instrument work orders. Planning meetings for each discipline occurs two to three times a week to review work order backlog, scheduling and work order progress. These meetings typically involve the planners, assistant plant superintendent of maintenance and maintenance supervisors.

5.3.3. Central Warehousing Capabilities

Description of department & capabilities of personnel: The warehouse stores spare and replacement parts and components required for reliable operation of the Cabras facility. One full time employee staffs the warehouse. GPA will continue to provide this person since the warehouse stores parts for Cabras 3 & 4 and other operating units within the GPA system.

Currently there is an estimated total valuation of \$3,100,000 in spare parts assigned to the Cabras 1 & 2 plant.

5.3.4. Station Engineering Capabilities

Description of department & capabilities of personnel: The station-engineering department is located next to the planning department on the Cabras plant property. The group is comprised of six

mechanical engineers:

History: This department's employees handle projects to improve the long term reliability and operation /maintenance of the plant. Department personnel also coordinate with contractors, determine budget inputs, support major outages, monitor heat rate and determine what needs to be accomplished to help the long-term viability of the plant.

5.3.5. General Engineering Capabilities

Description of department: The Engineering Division is responsible for the overall implementation of new capital improvements projects for the Guam Power Authority. These projects range from multi-million dollar construction projects such as the installation of Cabras 3 & 4 Slow-speed Diesel Plant to the line extensions for individual customer services. Additionally, the Division is responsible for managing the Authority's, Demand Side Management (DSM) program in addition to performing various system planning studies such as the Long Range Transmission Study and the Integrated Resource Plan. Lastly, General Engineering is also responsible for the overall system protection needs.

The General Engineering Division is comprised of eight sections:

- Engineering Administration;
- Customer Service;
- Distribution;
- Project Management;
- Real Estate;
- Substation / Transmission;

The Division has 35 personnel with varying skill levels from the licensed professional engineers to engineering technicians and the field survey crews.

5.4. Computerized Maintenance Management System (CMMS)

Description of department & capabilities of personnel: In 1997 GPA initiated the implementation of the Computerized Maintenance Management System (CMMS) under the J.D. Edwards (JDE) Financial Management Software for all operations division sections, but primarily for generation, T&D and transportation. Prior to this program, GPA tracked maintenance with a simple database or spreadsheet program, with no standardized maintenance management program in place. History files were not easily accessible and most history resources were retiring. In addition, labor and other project costs tracking became difficult tasks when projects were not setup with appropriate tracking accounts.

The CMMS provided an on-line access to equipment for completed, ongoing and upcoming maintenance work orders with an up to date status. Backlog, project costs and labor tracking were easily available through system reporting. The integrated inventory program allowed parts to be

viewed on-line and staged before they were to be picked up from the warehouse. The CMMS also provided the capability of downloading system data onto a spreadsheet to graph equipment readings or test results for trending analysis.

Formal and onsite CMMS training has been conducted to all positions at Cabras for work order entry and backlog review. For other positions a more detailed training was provided for adding labor routing and parts, plus the closing of work orders.

A computer network was developed to provide access to the CMMS as well as the financial management system. This allows for system access in almost all plant office areas. In the Cabras plant, there are 15 computers and one network printer, which all access the JDE system. Nine computers and one network printer are located in the Administrative Offices on the first floor. One computer is located in the control room on the second floor. Three computers and one printer are located in the Electrical/Instrument shop on the third floor. Two computers and one printer are located in the plant maintenance shop, on the northeast side of the plant.

The CMMS still has a number of pending installations for the JDE system as well as equipment nameplate data to be input. This includes the integration of the spare parts component listing and inventory identification. In order to complete this, a component parts list must be developed for all major/critical equipment and matched with inventory part numbers. Additionally, the inventory items should be reviewed and obsolete items cleared out of the warehouse inventory system. This will be a large undertaking but is required for proper material management and control.

The payroll module has not been integrated with the CMMS module either. This requires all actual labor hours to be manually inputted into each work order as opposed to an automatic CMMS update from the payroll module. Presently, actual hours are being entered against work orders in the payroll time entry and this information can be reported through a custom made report.

5.5. Plant Organizational

5.5.1. Existing Organization Chart

The organization chart is provided in Appendix H.

5.6. Training Requirements

Description of Personnel Training Capabilities: Currently, the Performance Management Contract (PMC) provides training to the Cabras operation and maintenance employees. A detailed listing of all the training modules and who is to receive which level of training will be provided. From this listing, the PMC will be required to develop and present an on-going training program in their proposal package.

5.6.1. Operations Department

5.6.1.1. Control Board Operators

Description of Department Structure & Capabilities: Two Control Board Operators (CBO) staff the plants per shift. The CBO's are responsible for bringing the units up and down, or, on and off-line as requested by the system dispatch operators and ensuring the safe and reliable operation of the major and auxiliary equipment of the plant. Specific operational duties are described in the Operation Manual for Cabras Steam Power Plant, dated July 1974. Specific job duties are described in the GPA position descriptions. These descriptions will be made available at the plant indicative proposal and plant tour meetings.

Skill Levels: CBO's are the highest trained operating personnel, excluding the shift leaders. The CBO will understand all operational functions for the plant and that of the power plant operators. Skill levels were determined through testing by the IMC in 2001. These results will be made available for summary review.

Formal Training summary: There is no formal documented training program for the CBO's. CBO's receive on the job training from other GPA employees who have established the required skills to perform the work requirements.

5.6.1.2. Power Plant Operators

Description of Department Structure & Capabilities: Current staffing has two Power Plant Operators (PPO) per shift. The PPO's are responsible for operating all the equipment outside the control center area. These operators inspect, operate and turn on and off the auxiliary equipment as requested by the CBO and ensure the safe and reliable operation of the major and auxiliary equipment of the plant. Specific operational duties are described in the Operation Manual for Cabras Steam Power Plant, dated July 1974.

Specific job duties are described in the GPA position descriptions. These descriptions will be made available at the plant indicative proposal and plant tour meetings.

Skill Levels: PPO's are the second highest trained operating personnel, excluding the shift leaders. The PPO will understand all operational functions of the auxiliary equipment and report to and receive direction and skills training from the CBO and Shift Leaders. Skill levels were determined through testing by the IMC in 2001. These results will be made available for summary review.

Formal Training summary: There is no formal documented training program for the PPO's. AO's receive on-the job training from other GPA employees who have established the required skills to perform the work requirements.

5.6.2. Maintenance Department

5.6.2.1. Plant Maintenance Mechanic

Description of Department Structure & Capabilities: The plant maintenance mechanic employees (PMM) work a normal eight-hour day shift, Monday through Friday. No second or third shift exists,

and any work beyond the basic shift requires over time or the possibility of changing shift schedules within the pre-established work rules. Plant maintenance mechanic employees provide repair services of the mechanical nature to all the plant equipment as required. They also help to ensure the safe and reliable operation of the major and auxiliary equipment of the plant. Specific maintenance duties are described in the GPA established position descriptions for Cabras Steam Power Plant. GPA will provide these descriptions.

Skill Levels: Skill levels were determined through testing by the IMC in 2001. These results will be made available for summary review.

Formal Training summary: There is no formally documented, on-going training program for the PMM. PMM receive on-the job training from other GPA employees who have established the required skills to perform the work requirements.

5.6.2.2. Electrical Maintenance Employees

Description of Department Structure & Capabilities: The electrical maintenance employees (EME) work a normal eight-hour day shift, Monday through Friday. No second or third shift exists, and any work beyond the basic shift requires over time or the possibility of changing shift schedules within the pre-established work rules. Electrical maintenance employees provide repair services of the electrical nature of all the plant equipment as required. They also help to ensure the safe and reliable operation of the major and auxiliary equipment of the plant. Specific maintenance duties are described in the GPA established position descriptions for Cabras Steam Power Plant. These descriptions will be made available.

Skill Levels: Skill levels were determined through testing by the IMC in 2001. These results will be made available for summary review.

Formal Training summary: There is no formal documented training program for the EME's. EME's receive on-the job training from other GPA employees who have established the required skills to perform the work requirements.

5.6.2.3. Instrument & Control Maintenance Employees

Description of Department Structure & Capabilities: The Instrument and Control (I&C) maintenance employees work a normal eight-hour day shift, Monday through Friday. No second or third shift exists, and any work beyond the basic shift requires over time or the possibility of changing shift schedules within the pre-established work rules. I&C maintenance employees provide repair services to the instrument and control nature of all the plant equipment as required. They also help to ensure the safe and reliable operation of the major and auxiliary equipment of the plant. Specific maintenance duties are described in the GPA established position descriptions for the Cabras Steam Power Plant. These descriptions will be made available at the plant indicative proposal and plant tour meetings.

Skill Levels: Skill levels were determined through testing by the IMC in 2001. These results will be made available for summary review.

Formal Training summary: There is no formally documented, on-going training program for the I&C's. I&C's receive on-the job training from other GPA employees who have established the required skills to perform the work requirements.

5.7. Capital and O&M Performance Improvement Projects

Table 26 summarizes the Performance Improvement Project assignments.

The following is a brief description of the estimated outstanding activities to be accomplished by the new PMC:

- R1. Boiler Chemical Cleaning – Routine chemical cleaning of the boiler. Last cleaning was done using the alkaline copper removal (ACR) process.
- R2. Turbine Generator Overhaul – Perform the overhaul for the turbine generators in 2009 (unit 2) and 2010 (unit 1).
- R5. Boiler Condition Assessment – Perform detailed NDE activities on all major components of both boilers, to determine remaining useful life & budgeting.
- R6. Reheater Tubes Replacement – Replace partial of the tubes. It was recommended by B&W (Boiler & major Steam Piping Assessment Study – Unit 1, 2003) and TEMES to replace the entire tube bank due its poor condition.
- R18. Water Treatment Facility – Construct a new reverse osmosis (RO) water treatment facility in 2009.
- R27. Hydrogen Piping Replacement - Replace hydrogen piping on both units to improve usability, avoid costly leakage and upgrade the system.
- R30. Turbine Overhaul Parts – Purchase turbine blades and necessary spare parts in conjunction with the 2009 turbine outage. It was recommended by TEMES and GE to replace the turbine blades of HP 2nd and 3rd stage, IP 11th stage for unit #2.
- R32. DCS and BMS Upgrade – Replace the existing unit boiler control system with a new digital control system and upgrade the boiler management system for both units.
- R33. AGC Implementation Activities – Integrate Boiler and Turbine Controls with SCADA/EMS EMSYS.
- R39. Foam-Water Fire Protection System – Purchase and install a foam-water fire protection system for the fuel oil storage tanks.
- R41. Fire Protection System for the Boilers – Purchase and install fire detection and alarm system at the boiler burner.
- R42. Fire Protection for the Transformers – Purchase and install fire detection and alarm system at the generator transformer.
- R46. Safety Valve Routine Inspection – Perform the routine inspection of the safety valves on the boilers and other auxiliary equipment.
- R48. Air Pre-heater Cold & Hot End Basket Replacement – Replace cold end baskets in Unit 2 and hot end baskets in Unit 1 for the 2009 and 2010 outages.
- R49. Instrument Air Compressor Replacement – Purchase and install new instrument air compressor for Unit #2 in 2010.
- R56. Plant Paging System Replacement – Purchase and install new paging system for the plant. Existing system is in bad condition.
- R62. Boiler Arch Tube Replacement – Install furnished tubes in the archway in the boiler furnace for the upcoming outages beginning in 2010.

- R66. Condenser Re-tubing – Completed.
 - R71. Plant Major Equipment & Structural Painting – Painting of turbine/generator, MCC, control panel, and the building structural.
 - R72. Establish QA Function & SOP's – Establish the plant's Quality Assurance process, update and establish standard operation procedures for the plant.
 - R77. Generator Rotor Rewinding – Perform rotor rewinding on Unit #2 generator during the 2009 overhaul.
 - R79. Smoke Stack Refurbishment – Replace the inner lining of the smoke in phases for both units. Phase 1 – repair of the bottom half portion of the stack. Phase 2 – repair of the remaining portion of the stack.
 - R80. Assorted Pumps/Motors Replacement – Replace various pumps and motors that are in severe condition. It has become difficult and costly to repair them.
 - R81. New Economizer Header for Unit 1 – completed.
 - R82. Air Pre-heater Assembly Replacement – Replace complete assembly for both units. Air pre-heater components are badly deteriorated.
 - R83. Fuel Oil Tank Inspection – Perform the inspection of the fuel oil day tanks in accordance to the requirements of the API. Inspection is done every 5 years. The last one was in 2006.
 - R84. Boiler Casing & Refractory Renewal – Remove and replace any damaged refractory on the boiler. Inspect the casing including buck stay and perform repairs as necessary.
 - R89. Asbestos Abatement Work – Removal and disposal of asbestos contaminated material throughout the plant.
 - R90. Upgrade Control Valves – Upgrade the major boiler control valves for both units such as main feedwater control valves, superheater sprays, sootblower control valves, auxiliary control valves, minimum flow control valves, etc.
 - R91. Raw Water System Renovation – Repair the leaks on the piping for the Raw Water system (city water) to lessen the plant's water consumption.
 - R92. Boiler Drum Internal Parts Preparation – Purchase the internal parts (stock parts) for the boiler steam drum.
 - R93. No. 2 Low Pressure Heater Inspection & Repair – Inspect the no. 2 low pressure feedwater heater on Unit 1. Perform repairs based on the result of inspection. Inspection results will be used to determine replacement will be needed.
 - R95. D.C. Battery Cell Replacement – Replace the D.C. battery cells including racks for Unit 1.
 - R96. Plant Power Block Lighting Refurbishment – Replace lighting fixtures, electrical outlets and upgrade the power block circuits. Several areas in the plant have inadequate lighting or lighting fixtures are old and in bad condition. The existing electrical circuits have become inadequate for the electrical load.
 - R97. Construction of Maintenance Shop – Construct a new shop for the plant maintenance section.
 - R99. Service Water Cooler Retubing – Purchase and install new tubes in the service water cooler. Several tubes are plugged with marine debris that is extremely difficult to remove.
- Boiler Routine Inspection – Routine internal and external examination to determine the operating condition of the boiler and to ascertain the true condition of the boiler.
- New. Distributed Control System (DCS) and Burner Management System (BMS) Upgrade Feasibility Study – Perform an economic feasibility study for the upgrades. Preliminary study was done in 2007 for the DCS.
- New. Heater Drain Pump Assembly – Purchase and install new heater drain pump assembly.

- Obtaining parts for this pump has become difficult and expensive.
- New. No. 4 Feedwater Heater Replacement – Purchase and install new feedwater heater for unit 1.
 - New. Main A/C System - Upgrade the main A/C system for the plant. The existing system is undersized and it can't handle the load.
 - New. New Force Draft Fan (FDF) Motor – Purchase a new spare motor for the FDF.
 - New. Plant External Lighting – Upgrade and/or install new external lighting around the Cabras Compound to meet Homeland Security requirements.
 - New. New Boiler Feed Pump (BFP) Motor – Purchase a new spare motor.
 - New. Turbine Room Window Repairs – Replace or repair several damaged windows on the turbine deck.
 - New. Plant Elevator Replacement – Replace the existing elevator with an upgrade model. The existing one is in bad conditions. It has become difficult and costly to repair it.
 - New. New Circulating Water Pump (CWP) Motor – Purchase a spare new motor.

Table 26. Performance Improvement Projects Assignments By Calendar Year

Item #	Item Description	Capital or O&M	Items Completed	PMC 2009	PMC 2010	PMC 2011	PMC 2012	PMC 2013
R1	Boiler Chemical Cleaning	O&M		Unit 2	Unit 1			
R2	Turbine Generator Overhaul	O&M		Unit 2	Unit 1			
R5	Boiler Condition Assessment	O&M		Unit 2	Unit 1			
R6	Reheater Tubes Replacement	O&M			Unit 1	Unit 2	Unit 1	Unit 2
R18	Water Treatment Facility	Capital		Unit 1&2				
R27	Hydrogen Piping Replacement	O&M					Unit 1	Unit 2
R30	Turbine Overhaul Parts & Materials	O&M		Unit 2	Unit 1			
R32	DCS & BMS Upgrade	Capital				Unit 1&2		
R39	Foam-Water Fire Protection System	Capital				Unit 1&2		
R41	Fire Protection System for the Boilers	Capital					Unit 1&2	
R42	New Generator Transformer Fire Protection	Capital						Unit 1&2
R46	Safety Valve Routine Inspection				Unit 1	Unit 2		
R48	Air Pre-heater Cold and Hot End Basket	Capital		Unit 2	Unit 1	Unit 2	Unit 1	

	Replacement							
R49	Instrument & Service Air Compressor Replacement	Capital	Unit 1		Unit 2	Unit 1		
R56	Plant Paging System Replacement	Capital		Unit 1&2				
R62	Boiler Arch Tube Replacement	O&M			Unit 1		Unit 2	Unit 1
R66	Condenser Retubing	Capital	Unit 1&2 (2006/08)					
R71	Plant Major Equipment & Structural Painting	O&M						
R72	Establish QA Function & SOP's	O&M					Unit 1&2	
R77	Generator Rotor Rewinding	O&M		Unit 2				
R79	Smoke Stack Refurbishment	O&M	Unit 2		Unit 1			
R80	Assorted Pumps/Motors Replacement	Capital			Unit 1&2		Unit 1&2	
R81	New Economizer Header for Unit 1	O&M	Unit 1					
R82	Air Pre-heater Assembly Replacement	Capital				Unit 1	Unit 2	
R83	Fuel Oil Tank Inspection					Unit 1&2		
R84	Boiler Casing & Refractory Renewal	O&M		Unit 2	Unit 1		Unit 2	Unit 1
R89	Asbestos Abatement Work	O&M		Unit 1&2	Unit 1&2	Unit 1&2	Unit 1&2	Unit 1&2
R90	Upgrade Control Valves	Capital		Unit 2	Unit 1	Unit 2	Unit 1	Unit 2
R91	Raw Water System Renovation	Capital				Unit 1&2		
R92	Boiler Drum Internal Parts Preparation	O&M		Unit 2	Unit 1	Unit 2	Unit 1	Unit 2
R93	No. 2 Low Pressure Heater Inspection & Repair	O&M			Unit 1	Unit 2		
R95	D.C. Battery Cell Replacement	O&M	Unit 1 & 2					
R96	Plant Power Block Lighting Refurbishment	Capital				Unit 1&2		

R97	Construction of Maintenance Shop	Capital					Unit 1&2	
R99	No. 1 Service Water Cooler Replacement	Capital	Unit 2		Unit 1			
New	DCS & BMS Upgrade Feasibility Study	Capital					Unit 1&2	
New	Heater Drain Pump Assembly	O&M					Unit 1&2	
New	No. 4 Feedwater Heater Replacement	Capital			Unit 2			Unit 1
New	Main A/C System	Capital					Unit 1&2	
New	New Force Draft Fan (FDF) Motor	Capital					Unit 1&2	
New	Fuel Oil Tank Inspection	O&M						Unit 1&2
New	Plant External Lighting	O&M						
New	New Boiler Feed Pump (BFP) Motor	Capital			Unit 1			
New	Turbine Room Window Repairs	O&M						Unit 1&2
New	Plant Elevator Replacement	Capital					Unit 1&2	
New	New Circulating Water Pump (CWP) Motor	Capital						Unit 1&2
	Boiler Routine Inspection	O&M			Unit 1	Unit 2		Unit 1

5.8. Historic Spending Patterns

Table 23 summarizes the Calendar Year 2003 through Calendar Year 2008 historic spending patterns for the Cabras 1&2 Power Plant.

Table 27. Cabras 1&2 Power Plant Historic Spending Patterns

Object Code	Description	CY 2003 Actual \$	CY 2004 Actual \$	CY 2005 Actual \$	CY 2006 Actual \$	CY 2007 Actual \$	CY 2008 Actual \$
2	Overtime	861,903	585,073	667,970	712,705	466,962	839,566
15	Heavy Equipment Rental	3,690	2,620			2,620	1,684
17	Other Rentals	22,178	27,053	5,820	289	1,722	
25	Technical Services				18,142	5,955	108,456
26	EPA Services	22,055	53,370	69,545	112,368	100,370	59,625
27	Other Professional Services	181,195	248,852	340,724	50,291	39,811	64,833
29	Grounds Maintenance	512	24,600	65,019	59,891	49,343	49,436
32	Office Equipment Maintenance	751		842	100	6,748	
33	Power Plant Accessory Equip. Maint.	52,272	21,482	24,283	21,829	47,689	75,400
35	Other Maintenance				124,365	79,721	54,039
38	Water	291,031	183,155	242,590			
40	Telephone (Overseas)	2,316	6,138	10,017	8,225	8,807	7,514
43	Other Contractual Services	28,790	24,757	207,513	54,133	130,153	348,808
44	Boiler & Assoc. Equip. Parts (Inventory Issue)	316,133	150,231	282,341	269,168	112,150	268,198
45	Turbine & Assoc. Equip. Parts (Inventory Issue)						13,890
46	Accessory Equipment	57,161	143,609	195,290	298,144	454,439	529,129
48	EPA & Others						15,669
49	Conductors, Poles & Line Hardware	2,231	428			15,138	15,424
55	Diesel Plant Part	36,339	179	817	1,365	164,364	143,825
56	Chemicals	84,482	270,588	347,184	298,148	341,614	385,290
57	Gases	24,241	41,524	73,597	91,766	89,979	101,953
58	Lubrication	12,938	22,673	43,427	12,359	76,277	78,691
62	Other Materials	111,278	94,319	224,906	320,660	123,986	264,201
64	Janitorial Supplies	9,411	5,839				
65	Office Supplies	8,574	5,601	5,419	2,288	2,072	8,763
66	Safety Supplies	9,917	20,363	31,768	27,806	24,119	36,558
67	Printed Forms	5,179	5,132	7,782	841	1,559	1,255
68	Xerox Supplies	889	1,560	307	3,265	3,158	4,701
69	Uniform/Coveralls	6,445	3,816	2,356	3,153	4,289	1,276
70	Tools	19,582	22,812	30,026	31,754	41,792	21,490
72	Other Administrative/General Supplies	20,495	25,603	39,883	34,674	34,680	47,939
77	Training & Materials	10,648	483	840		132,893	432
80	Travel (Local)			10,829			
81	Off-Island Travel						
82	Others	429	1,680	5,040		11,700	
Total Non-Labor (Codes 15-82)		1,378,408	1,408,466	2,268,165	1,845,025	2,107,144	2,708,480

<i>CIPs/PIPs</i>		92,462	9,886,025	4,486,274	1,144,670	2,922,724
<i>Fixed Management Fees</i>	1,570,000	1,596,690	1,623,834	1,651,439	1,679,513	1,789,570
<i>Grand Total</i>	2,948,408	3,097,618	13,778,025	7,982,737	4,931,328	7,420,773

6. **Plant Documentation Summary**

The Authority has provided, on CD-R media, the following Cabras 1&2 Plant documents listed in Table 24.

Table 28. Cabras 1&2 Plant Document List

NO.	DESCRIPTION	TYPE
1	Auxiliary One Line Diagram, EA-1010S1-7	DRAWING
2	Auxiliary One Line Diagram, EA-1010S2-5	DRAWING
3	Cabras 1 Main Condenser A-Box Eddy Current Report	DOCUMENT
4	Cabras 1 Main Condenser B-Box Eddy Current Report	DOCUMENT
5	Cabras 1&2 Inventory Listing (10-23-01)	
6	Cabras 2 Feedwater Heaters 1,2,4,5 Eddy Current Report	DOCUMENT
7	Cabras 2 Main Condenser A-Box Eddy Current Report	DOCUMENT
8	Cabras 2 Main Condenser B-Box Eddy Current Report	DOCUMENT
9	Cabras Unit 1 Component and Net Unit Performance Test Report	DOCUMENT
10	Cabras Unit 1 Heat Exchanger Examination & Long Term Strategies	DOCUMENT
11	Cabras Unit 2 Heat Exchanger Inspection & Long Term Strategies	DOCUMENT
12	Circulating Water & Misc Piping at Intake Structure - Plan & Section, MT-1002-3	DRAWING
13	Circulating Water Piping Plan - Section & Detail, MT-1001-1	DRAWING
14	City Water & Misc Fire Protection - Piping Plan, Section & Details (Original), MT-1003-6	DRAWING
15	Diagram of Steam Seal Piping, MT-1005-2	DRAWING
16	Drainage Pit & Piping-Ground Floor Plan, MB-1009-8	DRAWING
17	Flow Diagram -Aux. Steam System, GPA-002-6, MB-1011	DRAWING
18	Flow Diagram -Boiler Drain & Blow-Off System, GPA-003-3, MB-1012	DRAWING
19	Flow Diagram -Chemical Feed & Sampling System, MG-3002-3	DRAWING
20	Flow Diagram - City, Fire, & Misc. Water, MG-1012-5	DRAWING
21	Flow Diagram - Cooling Water System, GPA-006-4, MB-1015	DRAWING
22	Flow Diagram - Drainage, MG-1013-5	DRAWING
23	Flow Diagram -Feedwater & Steam Flow, GPA-001-5, MB-1010	DRAWING

24	Flow Diagram -Flue Gas & Air Duct, GPA-004-2, MB-1013	DRAWING
25	Flow Diagram - Fuel & Ignition Oil System, GPA-005-4, MB-1014	DRAWING
26	Flow Diagram - Fuel & Ignition Oil System, MG-1011-1	DRAWING
27	Flow Diagram - Instrument & Service Air, GPA-007-4, MB-1016	DRAWING
28	Flow Diagram - Instrument Supply Air, MC-2003-0	DRAWING
29	Flow Diagram -Seal & Aspirating Air System, GPA-009-5, MB-1018	DRAWING
NO.	DESCRIPTION	TYPE
30	Flow Diagram -Shaft Seal Oil & Bearing Drain Enlargement Vent System, MT-1004-0	DRAWING
31	Flow Diagram - Washing Water System, GPA-008-4, MB-1017	DRAWING
32	Fuel System Misc. Details, MB-1003-2	DRAWING
33	Fuel System Storage Tank Yard Plan, MB-1001-3	DRAWING
34	General Arrangement - Boiler Area-Upper Platform (#1), MG 1006-2	DRAWING
35	General Arrangement - Boiler Area-Upper Platform (#2), MG 1006-2	DRAWING
36	General Arrangement - Deaerator Floor Plan, MG-1005-2	DRAWING
37	General Arrangement - Ground Floor Plan, MG-1002-6	DRAWING
38	General Arrangement - Laboratory, MG-3005-0	DRAWING
39	General Arrangement - Mezzanine Floor Plan, MG-1004-3	DRAWING
40	General Arrangement - Operating Floor Plan, MG-1003-2	DRAWING
41	General Arrangement - Section A-A, MG-1007-3	DRAWING
42	General Arrangement - Section B-B, MG 1008-1	DRAWING
43	General Arrangement - Section C-C, MG-1009-1	DRAWING
44	Key Aux One Line Wiring Diagram, EA-1005-6	DRAWING
45	Machine Shop Layout Plan, MG-3004-1	DRAWING
46	Main One Line Wiring Diagram, EA 1001-7	DRAWING
47	Phasor Diagram, EA-1002-4	DRAWING
48	Plant Interlock Diagram, ED-1003-2	DRAWING
49	Power Plant Site Layout Plan (Original), MG-1001-5	DRAWING
50	Raw Water, Makeup Water, & Condensate Water Piping - Plan Section & Details, MT-1006-3	DRAWING
51	Typical Hanger & Support Details, MG-1015-0	DRAWING
52	Weld End Preparation & Backing Ring Detail, MG-1014-0	DRAWING
53	Yard Piping - Fuel Oil & Drainage, MB-1008-6	DRAWING
54	Boiler & Major Steam Piping Condition Assessment Study – Cabras Power Plant, Unit 1	DOCUMENT
55	Boiler Tube, Outlet Headers and Major Steam Piping Condition Assessment Study - Cabras Power Plant, Unit 2	DOCUMENT
56	Cabras Unit 2 Economizer Replacement, Report No. 22128	DOCUMENT
57	Component And Net Unit Performance Test Report Volume 1, Cabras Power Plant Unit 1 (2005)	DOCUMENT
58	Component And Net Unit Performance Test Report Volume 1, Cabras Power	DOCUMENT

	Plant Unit 2 (2005)	
59	Maintenance Skill & Training Needs Assessment, Cabras Units 1 & 2	DOCUMENT

Re-Bid For Multi-Step Bid

No. GPA-013-07

PERFORMANCE MANAGEMENT CONTRACT

FOR THE

**GUAM POWER AUTHORITY
CABRAS #1 AND #2 STEAM POWER PLANT**



Volume IV

Proposal Scoring Mechanism

APRIL 2009



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3.	Step 2 — Priced Proposal: Fixed Management Fee, Staffing Proposal, O&M Spending Budget and Performance Guarantee Evaluation.....	4

1. Introduction

1.1 Overview

GPA will use the Proposal Scoring Procedures described in this volume of the Invitation for Bid (IFB) to qualify BIDDERS for the participation in the final bid stage. The Proposal Scoring Procedures provide the BIDDERS the opportunity to highlight their qualifications to bid in terms of their resources, skills, operating philosophy and commitments to perform specific tasks and originality.

The IFB proposal evaluation shall be based on such specifications and based on the relative ranking of each BIDDER's qualifications, financial information, fixed management fees, staffing proposal, O&M spending budget and performance guarantees.

1.2 Proposal Scoring Worksheets

PROPOSERS shall complete the following:

- Qualitative Proposal Scoring.xls.
- Priced Proposal Evaluation.xls

Note that the BIDDER must state that he or she will be able to meet the performance guarantees for relative heat rate. Proposed Guarantees for relative heat rate will be re-negotiated after the performance test.

2. Qualitative Proposal Scoring

2.1 Overview

The qualitative proposal scoring is designed to assess the quality of the BIDDER's resources, skills, comprehensiveness and responses to open-ended topical questions. Each GPA evaluator shall score each BIDDER separately under a point system to determine the acceptability of each Proposal. The majority of the determinations of GPA evaluators shall prevail in the decision to Qualify or not Qualify a BIDDER for Step 2 — Price Proposal.

2.1.1 Qualitative Proposal Scoring Procedure

The instructions for filling out the Qualitative Proposal Scoring Workbook are listed in the **Proposal Instructions** tab in the Workbook. The BIDDER must complete all entries in the **Part 1- Qual Support References** tabs of the Workbook.

GPA may elect to have up to five (5) evaluators for this IFB.

Each GPA evaluator will score BIDDER responses in the **Part 1- Qual Support References** Worksheet Tab using the following steps in filling out the Part 2 – Qual Eval Scoresheet tab:

- Review each BIDDER's response to each question;

- Assign a relative score to each BIDDER's response to each question;
- Determine each BIDDER's weighted average raw score using pre-specified weights for each question.

The Total Qualitative Score is 720 points.

Each GPA evaluator will analyze the contents of the Proposals and categorize the Proposals as:

- a. Acceptable $\geq 80\%$
- b. $80\% >$ potentially acceptable, that is reasonably susceptible of being made acceptable $\geq 75\%$
- c. unacceptable $< 75\%$.

A percent score of less than 75% indicates that a GPA evaluator has determined that the BIDDER has not supplied sufficient evidence of qualifications and should not be allowed to participate in Step 2 – Price Proposal.

After each GPA evaluator has completed the evaluation of BIDDERS, GPA shall complete the Table below. The Procurement Officer will enter for each GPA evaluator and BIDDER one and only one of the following in the appropriate table cell below:

- Acceptable
- Potentially Acceptable
- Unacceptable.

If the majority of the GPA evaluators rate the BIDDER as Acceptable, that BIDDER is determined to be Qualified and will be allowed to participate in Step 2– Price Proposal.

The Procurement Officer may initiate Step Two if there are sufficient acceptable Unpriced Technical Proposals to assure effective price competition in the second phase without technical discussions. If the Procurement Officer finds that such is not the case, the Procurement Officer shall issue an amendment to this Invitation for Bid or engage in technical discussions with BIDDERS who are rated by a majority of the GPA evaluators as Acceptable or Potentially Acceptable. During the course of such discussions, the Procurement officer shall not disclose any information derived from one Unpriced Technical Proposal to any other BIDDER. Once discussions are begun, any BIDDER, who has not been notified that its Offer has been finally found acceptable, may submit supplemental information amending its technical Offer at any time. Such submission may be made at the request of the Procurement Officer or upon the BIDDER's own initiative.

BIDDERS who are rated by the majority of the GPA evaluators as Unacceptable is determined to be Not Qualified and will not be allowed to participate in Step 2– Price Proposal.

The Procurement Officer shall record in writing the basis for finding a Bidder Not Qualified and make it part of the procurement file.

Table 1. Final Evaluation of Bidder Qualification

GPA Evaluator	BIDDER 1	BIDDER 2	BIDDER 3	BIDDER 4	BIDDER 5	BIDDER 6
1						
2						
3						
4						
5						

3. **Step 2 — Priced Proposal: Fixed Management Fee, Staffing Proposal, O&M Spending Budget and Performance Guarantee Evaluation**

GPA shall score each Qualified BIDDER's Fixed Management Fees, Staffing Proposal, Proposed O&M Spending Budget, and Proposed Performance Guarantees for Unit/Plant Availabilities by:

- Evaluating the Net Present Value (NPV) to GPA for each BIDDER's proposed Fixed Management Fees, O&M Spending Budget and Performance Guarantees with GPA Plant Staffing.

GPA will perform its Net Present Value evaluation by entering the BIDDER's proposal for **Fixed Management Fee, O&M Spending Budget, Performance Guarantees and Proposed PMC Plant Staffing Organization and Fees** as found in the MS EXCEL workbook **Priced Proposal Evaluation.xls**.

GPA will award the PMC Contract to the BIDDER whose proposal yields the highest positive Net Present Value.

Re-Bid For Multi-Step Bid

No. GPA-013-07

PERFORMANCE MANAGEMENT CONTRACT

FOR THE

**GUAM POWER AUTHORITY
CABRAS #1 AND #2 STEAM POWER PLANT**



Volume V

Appendices

APRIL 2009



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- Appendix B – Performance Bond
- Appendix C – List of Surety Companies Licensed To Do Business In Guam
- Appendix D – Major Shareholders Disclosure Affidavit
- Appendix E – Non-Collusion Affidavit
- Appendix F – Performance Guarantees
- Appendix G – Incentive & Penalty Assessments
- Appendix H – Cabras Units #1 & #2 Organization Chart
- Appendix I – Fuel Specifications
- Appendix J – Bid Bond Form and Instructions
- Appendix K – Local Procurement Preference Application
- Appendix L – Capital vs. Expense Transaction Standard Operation Procedures (SOP)



APPENDIX A

PROPOSAL CHECKLISTS



DOCUMENT RECEIPT CHECKLIST

Document Title	Proponent Initial
Volume I Commercial Terms and Conditions	_____
Volume II Technical and Functional Requirements	_____
Volume III Plant Technical Description	_____
Volume IV Proposal Scoring Mechanism	_____
Volume V Appendices	
APPENDIX A – Proposal Checklist	_____
APPENDIX B – Performance Bond	_____
APPENDIX C – List of Surety Companies Licensed To Do Business In Guam	_____
APPENDIX D – Major Shareholders Disclosure Affidavit	_____
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APPENDIX F – Performance Guarantees	_____
APPENDIX G – Incentive & Penalty Assessments	_____
APPENDIX H – Cabras 1 & 2 Employee Organization Chart	_____
APPENDIX I – Fuel Specifications	_____
APPENDIX J – Bid Bond Form and Instructions	_____
APPENDIX K – Local Procurement Preference Application	_____
APPENDIX L – Capital vs. Expense Transactions Standard Operating Procedures (SOP)	_____
Qualitative Proposal Scoring.xls	_____
Price Proposal Evaluation.xls	_____
Contiguous Amendment Notifications From Amendment No. 1 through	_____
Others:	_____



TECHNICAL PROPOSAL SUBMITTAL CHECKLIST¹

	ITEM	QUANTITY (ORIGINALS)	QUANTITY (COPIES)	GPA INITIAL
1	Technical Proposal	_____	_____	_____
2	Written Responses and Supporting Information to the Questions Raised in the Qualitative Self-Scoring Workbook	_____	_____	_____
3	Electronic Copy of the Completed Qualitative Scoring Workbook	_____	_____	_____
4	Performance Guarantee Proposal	_____	_____	_____
5	Electronic Copy of the Completed Price Proposal Evaluation Workbook	_____	_____	_____
6	Supplementary Information:			
6.1	Drawings, Diagrams, Catalogs, Illustrations, etc.	_____	_____	_____
6.2	Project Organization Chart	_____	_____	_____
6.3	Articles of Incorporation and By-Laws ²	_____	_____	_____
6.4	Affidavit of Disclosure of Major Shareholders (Appendix D) ²	_____	_____	_____
6.5	Audited Financial Information on Bidder and Sub-Contractors ²	_____	_____	_____
6.6	Certificate of Good Standing ²	_____	_____	_____
6.7	Non-collusion Affidavit (Appendix E) ²	_____	_____	_____
6.8	Client References	_____	_____	_____
6.9	Bid Bond ²	_____	_____	_____
6.10	Organizational, Functional and Staffing Charts and related expository information	_____	_____	_____

¹ Quantities supplied for each item must comply with minimums established in Volume I of the Invitation for Bid documents.

² Proposal is subject to automatic disqualification if this article is not provided.



APPENDIX B

Performance Bond



PERFORMANCE BOND NUMBER: _____

KNOW ALL MEN BY THESE PRESENTS that _____,
as Principal, hereinafter called **CONTRACTOR**, and _____,
a corporation hereinafter called **SURETY**, are held and firmly bound unto the **GUAM
POWER AUTHORITY** as Obligee, in the amount of _____
Dollars (\$ _____), an amount negotiated for the first partial **GUAM POWER
AUTHORITY** fiscal year within the term of the **CONTRACT**, for the payment whereof
CONTRACTOR and **SURETY** bind themselves, their heirs, executors, administrators,
successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, **CONTRACTOR** has by written agreement dated _____,
2009, entered into a **PERFORMANCE MANAGEMENT CONTRACT FOR CABRAS
#1 & #2 STEAM POWER PLANT** with the **GUAM POWER AUTHORITY** through
midnight of _____, 2013, with the **AUTHORITY**'s option to extend the
CONTRACT for additional five-year term beginning _____, 2014, in accordance
with forms and specifications prepared by the **GUAM POWER AUTHORITY** which
CONTRACT is by reference made a part hereof, and is hereinafter referred to as the
"**CONTRACT**".

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if
CONTRACTOR shall promptly and faithfully perform said **CONTRACT** then this
obligation shall be null and void; otherwise it shall remain in full force and effect. The
SURETY hereby waives notice of any alteration or extension provided the same is within the
scope of the **CONTRACT**. Whenever **CONTRACTOR** shall be and is declared by the
GUAM POWER AUTHORITY to be in default under the **CONTRACT**, **GUAM
POWER AUTHORITY** having performed its obligation thereunder, the **SURETY** may
promptly remedy the default or shall promptly:

- (1) Complete the **CONTRACT** in accordance with its terms and conditions;
or,
- (2) Obtain a bid or bids for completing the **CONTRACT** in accordance with
its terms and conditions and upon determination by the **GUAM POWER
AUTHORITY** and the **SURETY** jointly of the lowest responsive,
responsible **BIDDER**, arrange for a **CONTRACT** between such
BIDDER and the **GUAM POWER AUTHORITY** and make available as
work progresses (even though there should be a default or a succession of
defaults under the **CONTRACT** or **CONTRACTS** of completion
arranged under this paragraph) sufficient funds to pay the cost of
completion less the balance of the **CONTRACT** price; but not exceeding,
including other costs and damages for which the **SURETY** may be liable
hereunder, the amount set forth in the first paragraph hereof.



The term "balance of the **CONTRACT** price", as used in this paragraph shall mean the total amount payable by the **GUAM POWER AUTHORITY** to **CONTRACTOR** under the **CONTRACT** for the current fiscal year and any amendments thereto, less the amount properly paid by the **GUAM POWER AUTHORITY** to **CONTRACTOR** for that partial or full fiscal year.

The term fiscal year shall mean the time between October 1 in the calendar year to September 30 of the next calendar year.

No right of action shall accrue on this bond to or for the use of any person or corporation other than the **GUAM POWER AUTHORITY** or successors of the **GUAM POWER AUTHORITY**.

Signed and sealed this _____ day of _____, 20_____.

(Principal)

(Seal)

(Witness)

(Bonding Company)

(Title)

(Title)

(Witness)

By: _____

(Attorney-In-Fact)



APPENDIX C

**List of Surety Companies Licensed To Do
Business In Guam**



NAMES AND ADDRESSES OF ALL INSURANCE COMPANIES
AND THEIR GENERAL AGENTS
LICENSED TO TRANSACT INSURANCE BUSINESS IN GUAM
AS OF DECEMBER 31, 1999

<u>NAME AND HOME ADDRESS OF INSURANCE COMPANY</u>	<u>NAME AND ADDRESS OF GENERAL AGENT</u>
Academy Life Insurance Co 20 Moores Road Frazer PA 19355	Prescott R. Hoeck 1036S Route 1 Yigo GU 96929
Admiral Life Insurance Co of America 206 Eight Street Des Moines IA 50309	Francisco B. Salas 145 Aspinall Avenue Hagatna GU 96910
Alexander Hamilton Life Insurance Co 100 North Greene Street Greensboro NC 27401	Money Resources Inc 415 Chalan San Antonio #210 Tamuning GU 96911
All American Life Insurance Co 707 North Eleventh Street PO Box 2074 Milwaukee WI 53201	Independent Research Agency for Life Insurance Hong's Building Suite 5 Route 10 & 32 Mangilao GU 96923
Ambac Assurance Corporation One State Street Plaza New York NY 10004	Joseph M. Casey Holiday Tower Condo, Apt. 615 Route 4 Sinajana GU 96926
American Family Life Assurance Co 1932 Wynnton Road Columbus GA 31999	Moylan's Insurance Underwriters Inc 101 Agana Shopping Center Hagatna GU 96910
American Fidelity Life Insurance Co 4060 Barrancas Avenue Pensacola FL 32507	Pioneer Pacific Financial Services Inc of Guam 231 Hesler Place Hagatna GU 96910
	Dale M. Donovan 790 N Marine Drive # 496 Tumon GU 96911

NAME AND HOME ADDRESS
OF INSURANCE COMPANY

NAME AND ADDRESS
OF GENERAL AGENT

American Home Assurance Co
70 Pine Street
New York NY 10270

Calvo's Insurance Underwriters Inc
115 Chalan Santo Papa
Hagatna GU 96910

American International Assurance
Company (Bermuda) LTD
29 Richmond Road
Pembroke HKO8 Bermuda

Calvo's Insurance Underwriters Inc
115 Chalan Santo Papa
Hagatna GU 96910

American International Life
Assurance Company
P O Box 727
Wall Street Station
New York NY 10268

Calvo's Insurance Underwriters Inc
115 Chalan Santo Papa
Hagatna GU 96910

American National Insurance Co
One Moody Plaza
Galveston TX 77550

Randolph C. Biscoe
130 Aspinall Avenue Suite 1 E
Hagatna GU 96910

American National Life Insurance
Company of Texas
One Moody Plaza
Galveston TX 77550

Randolph C. Biscoe
130 Aspinall Avenue Suite 1 E
Hagatna GU 96910

American-Amicable Life Insurance
Company of Texas
425 Austin Avenue
Waco TX 76702

Winfred T. Proffitt
106 Lily Court
Mangilao GU 96923

Amwest Surety Insurance Co
5230 Las Virgenes Road
Calabasas CA 91302

Takagi & Associates Inc
414 W Soledad Avenue Suite 100
Hagatna GU 96910

Argonaut Insurance Co
250 Middlefield Road
Menlo Park CA 94025

Cassidy's Associated Insurers Inc
376 West O'Brien Drive
Hagatna GU 96910

Cassidy's Associated Insurers Inc
376 West O'Brien Drive
Hagatna GU 96910

NAME AND HOME ADDRESS
OF INSURANCE COMPANY

NAME AND ADDRESS
OF GENERAL AGENT

Balboa Insurance Co
18581 Teller Avenue
Irvine CA 92612

Cassidy's Associated Insurers Inc
376 West O'Brien Drive
Hagatna GU 96910

Balboa Life Insurance Co
18581 Teller Avenue
Irvine CA 92612

Cassidy's Associated Insurers Inc
376 West O'Brien Drive
Hagatna GU 96910

Best Life Assurance Co of California
P O Box 19721
Irvine CA 96612

D B Davis & Associates
Staywell Building
430 West Soledad Avenue
Hagatna GU 96910

Canada Life Assurance Co The
330 University Avenue
Ontario Toronto Canada M5G1 R

Joaquin C. Arriola
259 Martyr Street Suite 201
Hagatna GU 96910

Capital Markets Assurance
Corporation
113 King Street
Armonk NY 10504

Moylan's Insurance Underwriters Inc
101 Agana Shopping Center
Hagatna GU 96910

Central States Health & Life
Co of Omaha
P O Box 34350
Omaha NE 68134-0350

The Brass Group Inc
479 West O'Brien Drive Suite 102
Hagatna GU 96910

Central States Indemnity Co.
of Omaha
P O Box 34350
Omaha NE 68134

Moylan's Insurance Underwriters Inc
101 Agana Shopping Center
Hagatna GU 96910

Moylan's Insurance Underwriters Inc
101 Agana Shopping Center
Hagatna GU 96910

Centurion Life Insurance Co
206 Eighth Street
Des Moines IA 50309

Francisco B. Salas
267 S Marine Drive Suite 2F
Tamuning GU 96911

NAME AND HOME ADDRESS
OF INSURANCE COMPANY

CGU International Insurance PLC
Multinational Bancorporation Ctr 10th Flr
6805 Ayala Avenue
Makati City Philippines

Chung Kuo Insurance Co Ltd
10th Floor ICBC Bldg
No 100 Chilin Road
Taipei Taiwan

Conseco Life Insurance Co
11815 N Pennsylvania Street
Carmel IN 46032

Continental Insurance Co
CNA Plaza
Chicago IL 60685

Cumberland Casualty & Surety Co
4311 W Waters Avenue #401
Tampa FL 33614

NAME AND ADDRESS
OF GENERAL AGENT

AON Insurance Micronesia (Guam) I
Hengi Plaza #203
278 South Marine Drive
Tamuning GU 96911

Great National Ins Underwriters Inc
Great National Insurance Building
Chalan San Antonio
Tamuning GU 96911

Alpha Insurers
123 Archbishop Flores Street
Hagatna GU 96910

Rodolfo B. Batimana
Suite 202 Julale Center
Hagatna GU 96910

Carmencita C. Estrada
114 Abas Court Liguana Terrace
Dededo GU 96912

Pacific Financial Corporation
973 S Marine Drive Suite 101
Tamuning GU 96911

Edward B. Senato
P O Box 11945
Tamuning GU 96931

Farley A. Young
132 Kayen Mapagahes
Dededo GU 96912

Cassidy's Associated Insurers Inc
376 West O'Brien Drive
Hagatna GU 96910

Cassidy's Associated Insurers Inc
376 West O'Brien Drive
Hagatna GU 96910

NAME AND HOME ADDRESS
OF INSURANCE COMPANY

NAME AND ADDRESS
OF GENERAL AGENT

Dai-Tokyo Fire & Marine Insurance
Company Ltd The
25-3, Yoyogi 3-Chome Shlbuya-ku
Tokyo Japan

Takagi & Associates Inc
414 W Soledad Avenue
GCIC Building Suite 100
Hagatna GU 96910

Delaware American Life Insurance Co
P O Box 667
Wilmington DE 19899

Calvo's Insurance Underwriters Inc
115 Chalan Santo Papa
Hagatna GU 96910

Dongbu Insurance Co
21-9 Cho-Dong, Chung-Gu
CPO Box 658
Seoul Korea 100

Moylan's Insurance Underwriters Inc
101 Agana Shopping Center
Hagatna GU 96910

Eagle Pacific Insurance Co
2101 4th Avenue Suite 1700
Seattle WA 98121

Moylan's Insurance Underwriters Inc
101 Agana Shopping Center
Hagatna GU 96910

Federal Insurance Co
P O Box 1615
Warren NJ 07061

Cassidy's Associated Insurers Inc
376 West O'Brien Drive
Hagatna GU 96910

Fireman's Fund Insurance Company
777 San Marin Drive
Novato CA 94998

Calvo's Insurance Underwriters Inc
115 Chalan Santo Papa
Hagatna GU 96910

First American Title Insurance Co
114 East Fifth Street
Santa Ana CA 92702

Pacific American Title Insurance &
Escrow Company
715 Chalan Machaute Suite 101
Maite GU 96927

First Fire & Casualty Insurance
Hawaii Inc
P O Box 2866
Honolulu HI 96803

Cassidy's Associated Insurers Inc
376 West O'Brien Drive
Hagatna GU 96910

First Indemnity Insurance of Hawaii Inc
P O Box 2866
Honolulu HI 96803

Cassidy's Associated Insurers Inc
376 West O'Brien Drive
Hagatna GU 96910

NAME AND HOME ADDRESS
OF INSURANCE COMPANY

First Insurance Company of Hawaii Ltd
P O Box 2866
Honolulu Hi 96803

First Liberty Insurance Corporation
175 Berkeley Street
Boston MA 02117

First Net Insurance Company
101 Agana Shopping Center
Hagatna GU 96910

Fortis Benefits Insurance Company
P O Box 62471
St Paul MN 55164

General Security Insurance Company
Two World Trade Center
New York NY 10048

Globe Life & Accident Ins Company
204 North Robinson Avenue
Oklahoma City OK 73102

GMHP Health Insurance LTD
177 Chalan Pasaheru Suite A
Tamuning GU 96911

NAME AND ADDRESS
OF GENERAL AGENT

Cassidy's Associated Insurers Inc
376 West O'Brien Drive
Hagatna GU 96910

Takagi & Associates Inc
414 W Soledad Avenue
GCIC Building
Hagatna GU 96910

Anne Palacios
414 West Soledad Avenue
GCIC Building
Hagatna GU 96910

Moylan's Insurance Underwriters Inc
101 Agana Shopping Center
Hagatna GU 96910

World Marketing Alliance Inc Guam
Calvo's Insurance Bldg Suite 200
115 Chalan Santo Papa
Hagatna GU 96910

Cassidy's Associated Insurers Inc
376 West O'Brien Drive
Hagatna GU 96910

Joseph M. Casey
Holiday Tower Condo Apt 615
788 Route 4
Sinajana GU 96926

Calvo's Insurance Underwriters Inc
115 Chalan Santo Papa
Hagatna GU 96910

TS Inc
845 N Marine Drive Suite 11
Tumon GU 96911

NAME AND HOME ADDRESS
OF INSURANCE COMPANY

Grand Pacific Life Insurance Co Ltd
1164 Bishop Street Suite 500
Honolulu HI 96813

Grand Pacific Life Insurance Co Ltd
1164 Bishop Street Suite 500
Honolulu HI 96813

Great American Life Insurance Co
P O Box 5420 Mail Drop 250-23-5 C
Cincinnati OH 45201

Great-West Life & Annuity Insurance Co
8515 East Orchard Road
Englewood CO 80111

Gulf Insurance Company
4600 Fuller Drive
Irving Texas 75038

Hartford Life & Accident Insurance Co
P O Box 2999
Hartford CT 06104

Individual Assurance Company
Life Health & Accident
1600 OAK Street
Kansas City MO 64108

Insurance Company of North America
1601 Chestnut Street
P O Box 7716
Philadelphia PA 19192

NAME AND ADDRESS
OF GENERAL AGENT

Great National Insurance Underwriter
Great National Insurance Bldg
Chalan San Antonio
Tamuning GU 96911

Pacific Financial Corporation
973 S Marine Drive Suite 101
Tamuning GU 96911

Takagi & Associates Inc
414 W Soledad Avenue
GCIC Building
Hagatna GU 96910

Guam Imperial International Inc
231 Hesler Place
Hagatna GU 96910

Benefits Communication Corp
424B Route 8
Mongmong GU 96927

Cassidy's Associated Insurers Inc
376 West O'Brien Drive
Hagatna GU 96910

Primo Mabesa
1296 North Marine Drive Suite 2
Tamuning GU 96911

Joaquin C. Arriola
259 Martyr Street Suite 201
Hagatna GU 96910

Anne M. Palacios
414 W Soledad Avenue
GCIC Building Suite 9
Hagatna GU 96910

NAME AND HOME ADDRESS
OF INSURANCE COMPANY

NAME AND ADDRESS
OF GENERAL AGENT

Insurance Company of North America
1601 Chestnut Street
P O Box 7716
Philadelphia PA 19192

Takagi & Associates Inc
414 W Soledad Avenue
GCIC Building Suite 100
Hagatna GU 96910

Intercargo Insurance Company
1450 E American Lane 20th Floor
Schaumburg IL 60173

Takagi & Associates Inc
414 W Soledad Avenue
GCIC Building Suite 100
Hagatna GU 96910

Jefferson Pilot Financial Insurance
One Granite Place
Concord NH 03301

Money Resources Inc
415 Chalan San Antonio #210
Tamuning GU 96911

Jefferson-Pilot Life Insurance Company
100 North Greene Street
Greensboro NC 27401

Money Resources Inc
415 Chalan San Antonio # 210
Tamuning GU 96911

John Alden Life Insurance Company
5100 Gamble Drive
St Louis Park MN 55416

William A. Dippel
Terrace Condominium #D 50
Tumon GU 96911

John Hancock Life Insurance Company
PO Box 111
Boston MA 02117

Money Resources Inc
415 Chalan San Antonio #210
Tamuning GU 96911

Knights of Columbus
One Columbus Plaza
New Haven CT 06510

Jesus A. Baza
125 Granada Lane
Sinajana GU 96910

Liberty National Life Insurance Company
P O Box 2612
Birmingham AL 35202

Joseph M. Casey
Holiday Tower Condo Apt 615
Route 4
Sinajana GU 96926

Independent Research Agency for
Life Insurance
Hong's Building Suite 5
Route 10 & 32
Mangilao GU 96923

NAME AND HOME ADDRESS
OF INSURANCE COMPANY

Lincoln Benefit Life Company
3075 Sanders Road H2C
Northbrook IL 60062

Lincoln National Life Insurance Co
1300 South Clinton Street
Fort Wayne IN 46802

LM Insurance Corporation
175 Berkeley Street
Boston MA 02117

NAME AND ADDRESS
OF GENERAL AGENT

Jesus Dela Cruz
231 Hesler Street
Hagatna GU 96910

Patrocel N. Duque
231 Hesler Street
Hagatna GU 96910

Jacqueline T. Flores
231 Hesler Street
Hagatna GU 96910

Roger Surban
615 Harmon Loop Road Suite 201
(C) Tonko Reyes Comm Complex
Dededo GU 96912

Takagi & Associates Inc
414 W Soledad Avenue
GCIC Building Suite 100
Hagatna GU 96910

The Money Tree Inc
231 Hesler Street
Hagatna GU 96910

Dale M. Donovan
790 N Marine Drive #496
Tumon GU 96911

David W. Cassidy
376 West O'Brien Drive
Hagatna GU 96910

Anne M. Palacios
414 W Soledad Avenue
GCIC Building Suite 9
Hagatna GU 96910

NAME AND HOME ADDRESS
OF INSURANCE COMPANY

LM Insurance Corporation
175 Berkeley Street
Boston MA 02117

Lumbermens Mutual Casualty Co
One Kemper Drive
Long Grove IL 60049

Lyndon Life Insurance Company
520 Maryville Center Drive Suite 500
St Louis MO 63141

Manufacturers Life Insurance Co (USA)
P O Box 6400
Buffalo NY 14201-0604

MBIA Insurance Corporation
113 King Street
Armonk NY 10504

Merrill Lynch Life Insurance Co.
4804 Deer Lane Drive East 4th Floor
Jacksonville FL 33246

Midland Life Insurance Company The
250 East Broad Street
Columbus OH 43215

Midland National Life Insurance Co
One Midland Plaza
Sioux Falls SD 57193

Mitsui Marine & Fire Insurance
Company LTD
9 Kanda Surugadai, 3-Chome
Chiyoda-Ku, Tokyo, Japan

NAME AND ADDRESS
OF GENERAL AGENT

Takagi & Associates Inc
414 W Soledad Avenue
GCIC Building Suite 100
Hagatna GU 96910

Cassidy's Associated Insurers Inc
376 West O'Brien Drive
Hagatna GU 96910

Joaquin C. Arriola
259 Martyr Street Suite 201
Hagatna GU 96910

Moylan's Insurance Underwriters Inc
101 Hagatna Shopping Center
Hagatna GU 96910

Moylan's Insurance Underwriters Inc
101 Hagatna Shopping Center
Hagatna GU 96910

Merrill Lynch Life Agency Inc
134 Soledad Avenue Suite 406
Hagatna GU 96910

Billy C. Acebron
119 South Marine Drive Suite B1
Tamuning GU 96911

Earl F. Foley
Julale Shopping Center Suite 216
424 W O'Brien Drive
Hagatna GU 96910

AON Insurance Micronesia (Guam) I
Hengi Plaza Suite 203
278 South Marine Drive
Tamuning GU 96911

NAME AND HOME ADDRESS
OF INSURANCE COMPANY

MMI General Insurance Limited
135 C Kayen Chando
Sateena Mail Suite 207/208
Dededo GU 96912

Monumental Life Insurance Company
2 East Chase Street
Baltimore MD 21202

MONY Life Insurance Company
1740 Broadway
New York NY 10019

National Travelers Life Company
5700 Westown Parkway West
Des Moines IA 50266

National Union Fire Insurance
Company of Pittsburgh PA
70 Pine Street
New York NY 10270

National Western Life Insurance Co
850 East Anderson Lane
Austin TX 78752

Nationwide Life Insurance Company
One Nationwide Plaza 1-27-08
Columbus OH 43215

Nauru Insurance Corporation
P O Box 82 AIWO District
Republic of Nauru
Central Pacific Nauru

NAME AND ADDRESS
OF GENERAL AGENT

Moylan's Insurance Underwriters Inc
101 Agana Shopping Center
Hagatna GU 96910

Joseph M. Casey
Holiday Tower Condo Apt 615
788 Route 4
Sinajana GU 96926

Independent Research Agency for
Life Insurance
Hong's Building Suite 5
Route 10 & 32
Mangilao GU 96923

Gayle & Teker
300 Hernan Cortez Avenue #200
Hagatna GU 96910

Joaquin C. Arriola
259 Martyr Street Suite 201
Hagatna GU 96910

Calvo's Insurance Underwriters Inc
115 Chalan Santo Papa
Hagatna GU 96910

Moylan's Insurance Underwriters Inc
101 Agana Shopping Center
Hagatna GU 96910

BWC Investment Services, Inc.
1855 Gateway Blvd Suite 500
Concord CA 94590

Calvo's Insurance Underwriters Inc
115 Chalan Santo Papa
Hagatna GU 96910

NAME AND HOME ADDRESS
OF INSURANCE COMPANY

Netcare Life & Health Insurance
101 Agana Shopping Center
Hagatna GU 96910

New Hampshire Insurance Company
70 Pine Street
New York NY 10270

Nichido Fire & Marine Insurance Co
N0 3-16 Ginza 5-Chome Chuo-Ku
Tokyo 104 Japan

Nippon Fire & Marine Insurance
Company, Ltd.
2-10 Nihonbashi 2-Chome
Tokyo 103 Japan

North Coast Life Insurance Company
1116 West Riverside Avenue
Spokane WA 99201

Occidental Life Insurance Company
of America
425 Austin Avenue
P O Box 2595
Waco TX 76702

Old Line Life Insurance Company
of America The
707 North Eleventh Street
P O Box 401
Milwaukee WI 53201

Old Republic Insurance Company
414 West Pittsburgh Street
Greensboro PA 15601

NAME AND ADDRESS
OF GENERAL AGENT

Moylan's Insurance Underwriters Inc
101 Agana Shopping Center
Hagatna GU 96910

Calvo's Insurance Underwriters Inc
115 Chalan Santo Papa
Hagatna GU 96910

Calvo's Insurance Underwriters Inc
115 Chalan Santo Papa
Hagatna GU 96910

Nanbo Guam Ltd DBA:
Nanbo Insurance Underwriters
434 West O'Brien Drive
Hagatna GU 96910

Moylan's Insurance Underwriters Inc
101 Agana Shopping Center
Hagatna GU 96910

Moylan's Insurance Underwriters Inc
101 Agana Shopping Center
Hagatna GU 96910

Joseph M. Casey
Holiday Tower Condo Apt 615
788 Route 4
Sinajana GU 96926

Independent Research Agency for
Life Insurance
Hong's Building Suite 5
Route 10 & 32
Mangilao GU 96923

David W. Cassidy
376 W O'Brien Drive
Hagatna GU 96910

NAME AND HOME ADDRESS
OF INSURANCE COMPANY

Old Republic National Title Ins Co
400 Second Avenue S
Minneapolis MN 55401

Pacific Guardian Life Insurance
Company Ltd
1440 Kapiolani Boulevard
Suites 1600 & 1700
Honolulu HI 96814

Pacific Indemnity Insurance Company
P O Box 3580
Hagatna GU 96932

Pacific Indemnity Insurance Company
P O Box 3580
Hagatna GU 96932

Pacificare Life Assurance Company
3515 Harbor Boulevard
Costa Mesa CA 92626

NAME AND ADDRESS
OF GENERAL AGENT

Takagi Title Security Inc
414 W Soledad Avenue
GCIC Building
Hagatna GU 96910

Dwayne K. Brown
866 Chalan Palasyo (Rt.7) Ste.205
Maina, Guam 96927

Calvo's Insurance Underwriters, Inc.
115 Chalan Santo Papa
Hagatna, Guam 96910

Citadel Trading Corporation DBA:
Citadel Insurance Underwriters
615 Harmon Loop Road Suite 201 C
Tonko Reyes Comm Complex
Dededo GU 96912

Nanbo Guam Ltd DBA
Nanbo Insurance Underwriters
434 West O'Brien Drive
Hagatna GU 96910

Anacleto Q. Nicholas
145 Chichirica Street
Kaiser Dededo GU 96912

Cassidy's Associated Insurers Inc
376 W O'Brien Drive
Hagatna GU 96910

Prescott Hoeck dba:
Guam Ventures
121 Taison Way
Barrigada GU 96913

The Baldwin Corporation
790 S Marine Drive #1
Tamuning GU 96911

NAME AND HOME ADDRESS
OF INSURANCE COMPANY

PFL Life Insurance Company
4333 Edgewood Road NE
Cedar Rapids IA 52499

Primerica Life Insurance Company
3120 Breckinridge Boulevard
Duluth GA 30199

Progressive Casualty Insurance Co
6300 Wilson Mills Road
Mayfield Village OH 44143

Protective Life Insurance Company
2801 Highway 280 South Birmingham
Birmingham AL 35223

Pruco Life Insurance Company
213 Washington Street
Newark NJ 07102

NAME AND ADDRESS
OF GENERAL AGENT

William A. Dippel
Terrace Condominium #D 50
Tumon GU 96911

Carmelita S. Concepcion
Ada's Comm & Proff Center #202 B
130 Marine Drive
Hagatna GU 96910

Primerica Financial Services
Insurance Marketing Inc
Ada's Comm & Proff Center #202 B
130 Marine Drive
Hagatna GU 96910

Bernadita S. Quitugua
136 Sampaguita Lane Latte Heights
Mangilao GU 96923

The Baldwin Corporation
790 South Marine Drive #1
Tamuning GU 96911

Nanbo Guam Ltd., dba:
Nanbo Insurance Underwriters
434 West O'Brien Drive
Hagatna GU 96910

Pacific Financial Corporation
973 S Marine Drive Suite 101
Tamuning GU 96911

John S. Pillsbury
267 South Marine Drive 2F
Tamuning GU 96911

Francisco B. Salas
267 South Marine Drive Suite 2F
Tamuning GU 96911

NAME AND HOME ADDRESS
OF INSURANCE COMPANY

NAME AND ADDRESS
OF GENERAL AGENT

Prudential Insurance Company
of America
751 Broad Street
Newark NJ 07102

John S. Pillsbury
267 South Marine Drive Suite 2F
Tamuning GU 96911

QBE Insurance (International) Limited
82 Pitt Street
Sydney NSW 2000 Australia

Sally E. Mondia
674 Harmon Loop
Dededo GU 96912

Reliance Insurance Company
Three Parkway
5th Floor Compliance Department
Philadelphia PA 19102

Takagi & Associates Inc
414 West Soledad Avenue
GCIC Building Suite 100
Hagatna GU 96910

Reliance National Indemnity Company
Three Parkway
5th Floor Compliance Department
Philadelphia PA 19102

Takagi & Associates Inc
414 West Soledad Avenue
GCIC Building Suite 100
Hagatna GU 96910

Royal State National Insurance
Company LTD
819 South Beretania Street
Honolulu HI 96813

Gayle & Teker
330 Hernan Cortez Avenue
Hagatna GU 96910

Safeco Insurance Co of America
Safeco Plaza
Seattle WA 98185

Calvo's Insurance Underwriters Inc
115 Chalan Santo Papa
Hagatna GU 96910

Seaboard Surety Company of NY
6225 Centennial Way
Baltimore MD 21209

Calvo's Insurance Underwriters Inc
115 Chalan Santo Papa
Hagatna GU 96910

Security Benefit Life Insurance Co
700 Harrison Street
Topeka KS 66636

Independent Research Agency for
Life Insurance
Hong's Building Suite 5
Route 10 & 32
Mangilao GU 96923

Security-Connecticut Life Insurance Co
20 Security Drive
Avon CT 06001

Life Investment Consultants Inc
121 Basa Street
Tamuning GU 96911

NAME AND HOME ADDRESS
OF INSURANCE COMPANY

Security-Connecticut Life Insurance Co
20 Security Drive
Avon CT 06001

St Paul Fire & Marine Insurance Co
100 Water Street
St Paul, MN 55102

Standard Surety Company
1100 SW Sixth Avenue
Portland, OR 97204

Stewart Title Guaranty Company
PO Box 2029
Houston TX 77252

Surety Life Insurance Company
3075 Sanders Road H2C
Northbrook IL 60062

Surety Life Insurance Company
3075 Sanders Road H2C
Northbrook IL 60062

NAME AND ADDRESS
OF GENERAL AGENT

Pacific Financial Corporation
973 South Marine Drive Suite 101
Tamuning GU 96911

Primo Mabesa dba: PM Ins
& Financial Planning Svcs
790 North Marine Drive Suite 880
Tamuning GU 96911

Regis Insurance Inc
118 East Marine Drive Suite B2
Dededo GU 96912

Calvo's Insurance Underwriters Inc
115 Chalan Santo Papa
Hagatna GU 96910

Moylan's Insurance Underwriters Inc
101 Agana Shopping Center
Hagatna GU 96910

Joaquin C. Arriola
259 Martyr Street Suite 201
Hagatna GU 96910

Manu P. Melwani
715 Chalan Machaute Suite 101
Maite GU 96927

Jesus M. Dela Cruz
166 Carlos Lane
Mangilao GU 96923

Jacqueline T. Flores
231 Hesler Place
Hagatna GU 96910

Moylan's Insurance Underwriters Inc
101 Agana Shopping Center
Hagatna GU 96910

NAME AND HOME ADDRESS
OF INSURANCE COMPANY

Surety Life Insurance Company
3075 Sanders Road H2C
Northbrook IL 60062

Terrace Guam Ltd
134 West Soledad Avenue
Bank of Hawaii Building Suite 401
Hagatna GU 96910

Ticor Title Insurance Company
171 North Clark Street 6th Floor
Chicago IL 60601

Tokio Marine & Fire Insurance
Company Limited
2-1 Marunouchi 1-Chome Chiyoda-Ku
Tokyo Japan

Trans World Assurance Company
885 South El Camino Real
San Mateo CA 94402

Transamerica Assurance Company
PO Box 2101
Los Angeles CA 90051

Transamerica Life Insurance &
Annuity Company
PO Box 54178
Los Angeles CA 90054

Transamerica Occidental Life Ins Co
1150 South Olive Street
Los Angeles CA 90054

NAME AND ADDRESS
OF GENERAL AGENT

Roger S. Surban
46 Anaco Lane
Nimitz Hill Estate
Piti GU 96910

The Money Tree Inc
231 Hesler Place
Hagatna GU 96910

Title Guaranty of Guam
Hernan Cortez Avenue
Hagatna GU 96910

Nanbo Guam Ltd dba:
Nanbo Insurance Underwriters
434 West O'Brien Drive
Hagatna GU 96910

Dale M. Donovan
790 North Marine Drive Suite 496
Tumon GU 96911

Ralph G. Taitano
130 Aspinall Street Suite 2BE
Hagatna GU 96910

Ralph G. Taitano
130 Aspinall Street Suite 2BE
Hagatna GU 96910

Ralph G. Taitano
130 Aspinall Street Suite 2BE
Hagatna GU 96910

NAME AND HOME ADDRESS
OF INSURANCE COMPANY

Travelers Casualty and Surety Co
One Tower Square
Hartford CT 06183

Travelers Indemnity Company
One Tower Square
Hartford CT 06183

Travelers Insurance Company
One Tower Square
Hartford CT 06183

United of Omaha Life Insurance Co
Mutual of Omaha Plaza
Omaha NE 68175

United Pacific Insurance Company
Three Parkway
Compliance Department 5th Floor
Philadelphia PA 19102

United Services Automobile Assn
9800 Fredericksburg Road
San Antonio TX 78288

United States Fire Insurance Company
305 Madison Avenue
Morrison NJ 07960

UNUM Life Insurance Company
of America
2211 Congress Street
Portland ME 04122

USAA Casualty Insurance Company
9800 Fredericksburg Road
San Antonio TX 78288

NAME AND ADDRESS
OF GENERAL AGENT

Moylan's Insurance Underwriters Inc
101 Agana Shopping Center
Hagatna GU 96910

Moylan's Insurance Underwriters Inc
101 Agana Shopping Center
Hagatna GU 96910

Moylan's Insurance Underwriters Inc
101 Agana Shopping Center
Hagatna GU 96910

Earl L. Foley
P O Box BO
Hagatna GU 96910

Takagi & Associates Inc
414 West Soledad Avenue
GCIC Building Suite 100
Hagatna GU 96910

Calvo's Insurance Underwriters Inc
115 Chalan Santo Papa
Hagatna GU 96910

Cassidy's Associated Insurers Inc
376 West O'Brien Drive
Hagatna GU 96910

Moylan's Insurance Underwriters
101 Agana Shopping Center
Hagatna GU 96910

Calvo's Insurance Underwriters Inc
115 Chalan Santo Papa
Hagatna GU 96910

Cassidy's Associated Insurers Inc
376 West O'Brien Drive
Hagatna GU 96910

NAME AND HOME ADDRESS
OF INSURANCE COMPANY

USAA General Indemnity Company
9800 Fredericksburg Road
San Antonio TX 78288

Western Reserve Life Assurance
Company of Ohio
P O Box 5068
Clearwater FL 33758

Western-Southern Life Assurance Co
P O Box 1119
Cincinnati OH 45202

Westport Insurance Corporation
P O Box 2979
Overland KA 66201

Zurich Insurance (Guam) Inc
GCIC Building Suite 900
414 West Soledad Avenue
Hagatna GU 96910

NAME AND ADDRESS
OF GENERAL AGENT

Nanbo Insurance Underwriters
434 West O'Brien Drive
Hagatna GU 96910

Calvo's Insurance Underwriters Inc
115 Chalan Santo Papa
Hagatna GU 96910

Billy C. Acebron
119 South Marine Drive Suite B1
Tamuning GU 96911

Glenn Meno
400 Route 8
Maite GU 96927

AON Insurance Micronesia (Guam) I
Hengi Plaza #203
278 South Marine Drive
Tamuning GU 96911

D B Davis & Associates
430 West Soledad Avenue
Staywell Building
Hagatna GU 96910



APPENDIX D

Major Shareholders Disclosure Affidavit



TERRITORY OF GUAM)

HAGATNA, GUAM)

I, undersigned, _____,
(partner or officer of the company, etc.)
being first duly sworn, deposes and says:

1. That the persons who have held more ten percent (10%) of the company's shares during the past twelve (12) months are as follows:

Name	Address	Percentage Of Shares Held
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
Total number of shares		_____

2. Persons who have received or are entitled to receive a commission, gratuity or other compensation for procuring or assisting in obtaining business related to the bid for which this Affidavit is submitted are as follows:

Name	Address	Amount of Commission, Gratuity or Other Compensation
_____	_____	_____
_____	_____	_____

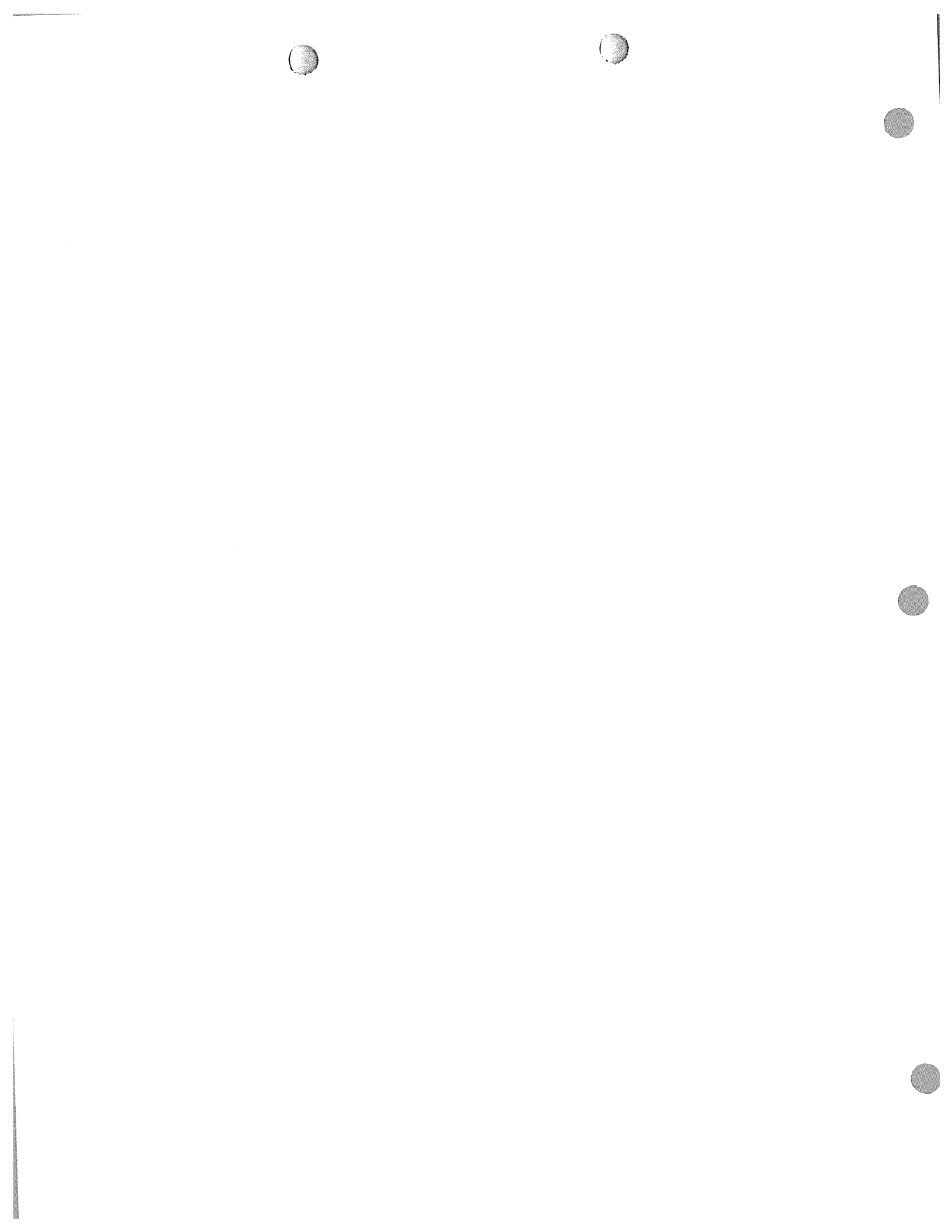
Further, affiant sayeth naught.

Date: _____

Signature of individual if Proponent is a sole proprietorship; Partner, if the Proponent is a partnership Officer, if the Proponent is a corporation.

Subscribed and sworn to before me this _____ day of _____, 20 _____

Notary Public _____
In and for the Territory of Guam
My commission expires _____



SPECIAL PROVISIONS

All bidders are required to submit a current affidavit as required below, failure to do so will mean disqualification and rejection of the bid.

Excerpt form Public Law #1844:

Section 44. A new Section 6961.3 is added to the Government of Guam to read:

“Section 6961.3 Disclosure of Major Shareholders. As a condition of offering any partnership, sole proprietorship or corporation doing business with the Government of Guam shall submit an affidavit executed under oath that lists the name and address of any person who has held more than ten percent (10%) of the outstanding interest or shares in said partnership, sole proprietorship or corporation at any time during the last twelve (12) month period immediately preceding submission of a proposal. The affidavit shall contain the number of shares or the percentage of all assets of such partnership, sole proprietorship or corporation which have been held by each such person during the twelve (12) month period. In addition, the affidavit shall contain the name and address of any person who has received or is entitled to receive a commission, gratuity or other compensation for procuring or assisting in obtaining business related to the proposal for the offeror and shall also contain the amounts of any such commission, gratuity or other compensation. The affidavit shall be open and available to the public for inspection and copying.”

- (1) If the affidavit is a copy, indicate the BID/RFP number and where it is filled.
- (2) Affidavits must be signed within 60 days of the date the bids or proposals are due.



APPENDIX E

Non-collusion Affidavit



NON-COLLUSION AFFIDAVIT

GUAM)
(ss:
TAMUNING)

I, _____, first being duly sworn, depose and say:
Name of Declarant

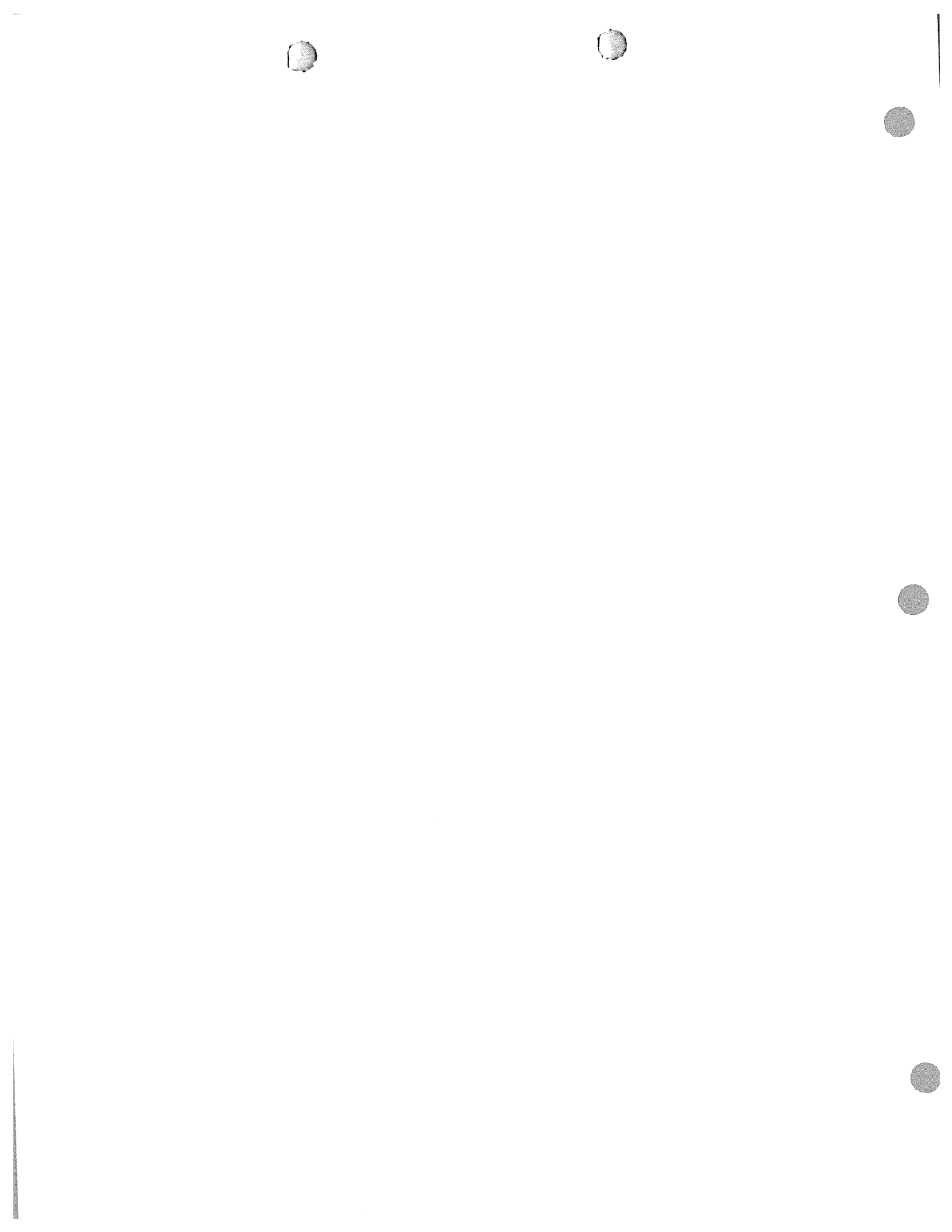
1. That I am the _____ of _____.
Title Name of Bidding Company
2. That in making the foregoing proposal or bid, that such proposal or bid is genuine and not collusive or sham, that said bidder has not colluded, conspired, connived or agreed, directly or indirectly, with any bidder or person, to put in a sham or to refrain from bidding and has not in any manner, directly or indirectly, sought by agreement or collusion, or communication or conference, with any person, to fix the bid price of affiant or any other bidder, or to secure any overhead, profit or cost element of said bid price, or of that of any bidder, or to secure any advantage against the GUAM POWER AUTHORITY or any person interested in the proposed contract; and
3. That all statements in said proposal or bid are true.
4. This affidavit is made in compliance with 2 Guam Administrative Rules and Regulations §3126(b).

Declarant

SUBSCRIBED AND SWORN to before me this _____ day of _____, 2009.

)Seal(

NOTARY PUBLIC



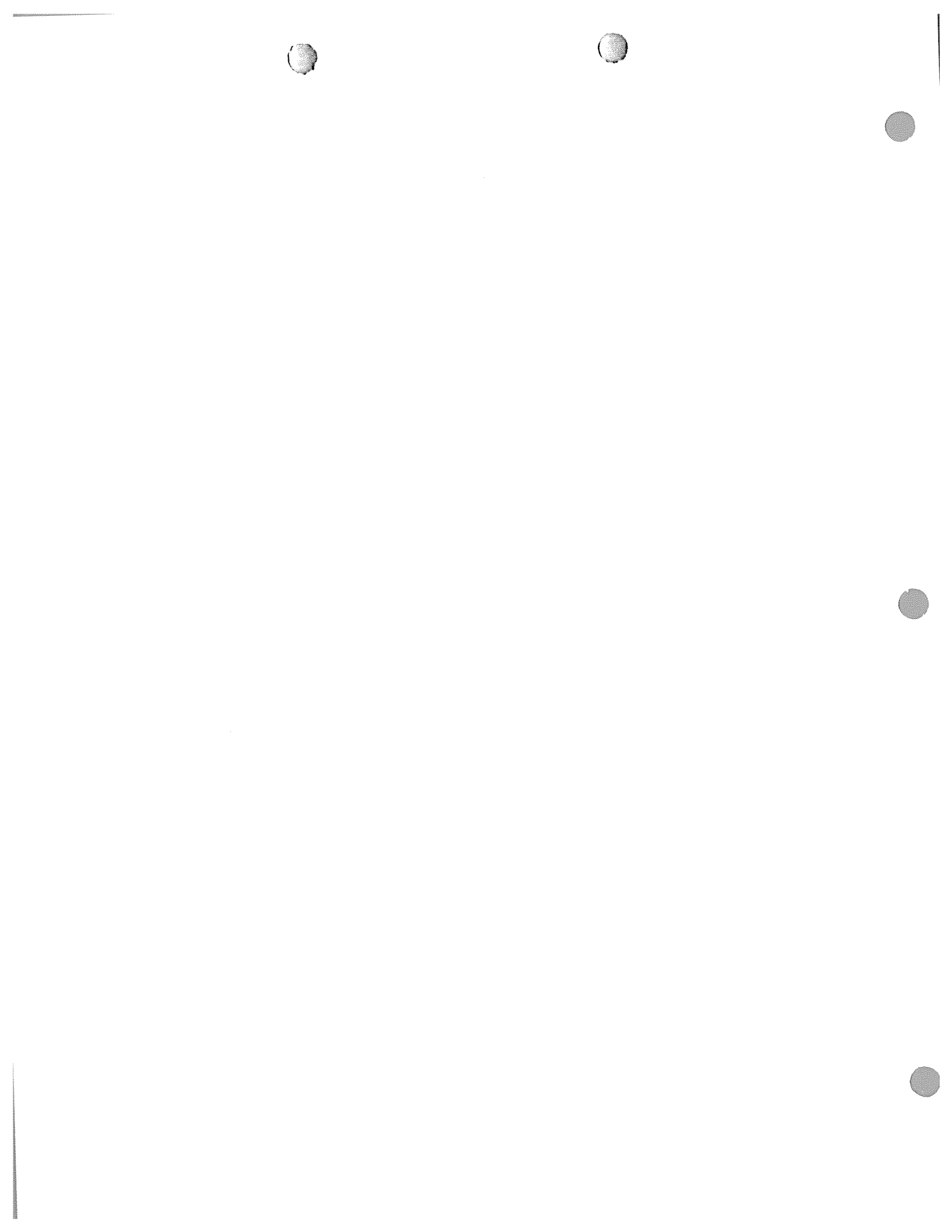
SPECIAL PROVISIONS

All offerors are required to submit a current affidavit; failure to do so will mean disqualification and rejection of the proposal.



APPENDIX F

PERFORMANCE GUARANTEES



1. Performance Compensation Specifications

1.1. Overview

The PMC Compensation shall consist of annual fixed management fees and reimbursable O&M spending not to exceed the annual O&M Spending Budget. The BIDDER may specify their fixed management fee as either constant or escalated at a BIDDER specified positive annual escalation rate. The BIDDER must also propose the annual O&M Spending Budget for each contract year. Furthermore, the BIDDER must specify their Minimum Performance Guarantees that meet or exceed GPA's Minimum Performance Standards for EAF performance measure for each contract year. The Bidder shall be disqualified if he or she does not comply with the GPA's Minimum Performance Standards requirement. GPA will specify the Minimum Performance Standards for Heat Rate performance measure for the first contract year. The subsequent contract years' Minimum Performance Standards will be based on the results of the Performance Testing performed every two years.

1.2. Fixed Compensation

Proposed fixed management fees shall be specified separately for the standard "five - year" contract period. The proposals may be specified as an annual fee with or without annual escalation. "Front-end loaded", declining fees are expressly prohibited.

The annual management fee proposals shall be computed from a base annual management fee and an annual escalation rate.

The official proposed annual management fees for each contract year shall equal the calculated annual management fee rounded to the nearest thousand dollars per year.

1.2.1. Base Annual Management Fee

Base Annual Management Fee shall be specified for the five-year contract period. Each of these base fees is the starting point for any escalation and, in the absence of any escalation, is the constant value of the calculated annual management fee for all full fiscal years.

1.2.2. Annual Escalation Rate

A non-negative annual escalation rate shall be specified for the five-year contract period.

1.3. Reimbursable Compensation

Proposed O&M Spending Budget shall be specified for each contract year. GPA will pay the PMC for actual O&M expenses on a reimbursable basis not to exceed the annual O&M Spending Budget. Request for payments must be accompanied with certification and receipts indicating the cost of goods and services. The PMC shall also furnish satisfactory evidence that all O&M expenses have been paid and delivered on site to be qualified for compensation.

2. Performance Measures & Guarantees



The Performance Guarantees for Heat Rates and Equivalent Availabilities Factor (EAF) proposed by the Vendor in the Price Proposal Evaluation spreadsheet (Excel) shall be based solely on the proposed annual O&M Budget. GPA expects the PMC to develop proposals for CIP and PIP projects that will improve plant performance. Future performance guarantees will be adjusted to the PMC's proposed incremental Heat Rate and EAF improvements upon completion of approved CIP and PIP projects with the exception of projects not affecting performance (building repairs, vehicles, etc.). The Vendor should consider the GPA recommended CIP and PIP projects that it proposes to complete during the next PMC contract listed in Volume III, Section 5.

The Vendor would be required to submit an estimated incremental improvement for Heat Rate and EAF and list of priority projects they believe would be required. These may be used to identify funding requirements for PMC CIP/PIPs and not necessarily be used in the actual bid selection.

2.1. Performance Measures

2.1.1 Equivalent Availability Factor

The Equivalent Availability Performance Measure shall be measured for each contract year by:

- Computing the individual unit equivalent availability of each of the Cabras Units 1 & 2 for the contract year;
- Taking the weighted average of the individual unit equivalent availabilities using the units' maximum rated operation capacities as weighting factors.

The individual unit equivalent availabilities shall be calculated in accordance with standard NERC GADS definitions including the effects of all full and partial, scheduled and maintenance outages and planned and forced deratings.

2.1.2 Equivalent Force Outage Rate

The Equivalent Forced Outage Rate Performance Measure shall be measured for each contract year by:

- Measuring the individual unit equivalent forced outage rate of each of the Cabras Units 1 & 2 for the contract year;
- Taking the weighted average of the individual unit equivalent forced outage rate using the units' maximum rated operation capacities as weighting factors.

The individual unit equivalent forced outage rate shall be calculated in accordance with standard NERC GADS definitions.



2.1.3 Relative Heat Rate

The Relative Heat Rate Performance Measure shall be measured quarterly by calculating the ratio (expressed in percentage) of the actual plant average heat rate divided by the calculated standardized plant average heat rate.

2.2. Minimum Performance Guarantee

GPA has specified the Minimum Acceptable Performance Standard parameter for each performance measure. Each BIDDER must specify performance guarantees for each adopted performance measure for each contract year of the contract period. The Minimum Acceptable Performance Standard specify the acceptable performance and will constrain the PMC's Proposed Minimum Performance Guarantee. The Minimum Performance Guarantees are derived as weighted averages of unit level specifications. Furthermore, the Equivalent Availabilities of each unit are entered in terms of unit forced and scheduled outage rates. The unit level specification is done to facilitate a general understanding of the basis for the plant level specifications. Such understanding is expected to be helpful in any future negotiated adjustments to these specifications.

The Minimum Performance Guarantee values are shown in the following tables.

2.2.1. Performance Measure – Equivalent Availability

The Minimum Acceptable Performance Standards for the Equivalent Availability Factor (EAF) is given in Table F-1.

Table F-1 Minimum Acceptable Performance Standards

Contract Year	Year	#1	#2	Plant
1	2009	88.00	84.00	86.00
2	2010	84.00	88.00	86.00
3	2011	88.00	88.00	88.00
4	2012	88.00	88.00	88.00
5	2013	88.00	88.00	88.00

When specifying the Minimum Guarantees the bidder must take into consideration the year that a Turbine Overhaul is scheduled is 84% for a unit.

2.2.2. Performance Measure – Relative Heat Rate

The Relative Heat Rate will be established by performance tests to be conducted every two year The baseline for performance evaluation for the first-year performance period will be based on the 2005 Performance Test. The results of the tests are given in the table below:

Table F-2 2005 Performance Test Results



UNIT #1		UNIT #2	
MW	BTU/KWH (All Points)	MW	BTU/KWH (All Points)
12.70	14013	13.66	15309
22.70	11768	22.57	12253
29.38	10957	30.12	11363
32.40	10864	33.01	11014
36.82	10518	37.78	10826
37.38	10538	37.99	10985
42.10	10380	42.79	10763
51.86	10271	52.50	10373
56.66	10423	57.28	10320
56.79	10410	57.45	10454
62.30	10596	60.98	10352

The PMC will be given a no penalty bandwidth of 102% of the baseline performance curve during the first-year performance period. The 2nd and 3rd year's performance periods will be evaluated based on the Performance Test done in the first contract year. For the 4th and 5th year performance period will be evaluated based on the Performance Test done in the third contract year. A $\pm 1\%$ bandwidth will be used in computing the bonus or penalty for 2nd to 5th year performance periods as shown in Appendix G, Section 4.

2.2.3. Weighting Factors

Unit Maximum Rate Operating Capacities are used as the weighting factors for developing the plant weighted averages of unit level specifications. The respective specified weighting factors are:

- Cabras Unit 1: 62.3 Net MW (Was 63.3 MW)
- Cabras Unit 2: 61.0 Net MW (Was 61.4 MW)

3. Performance Guarantee Accounting

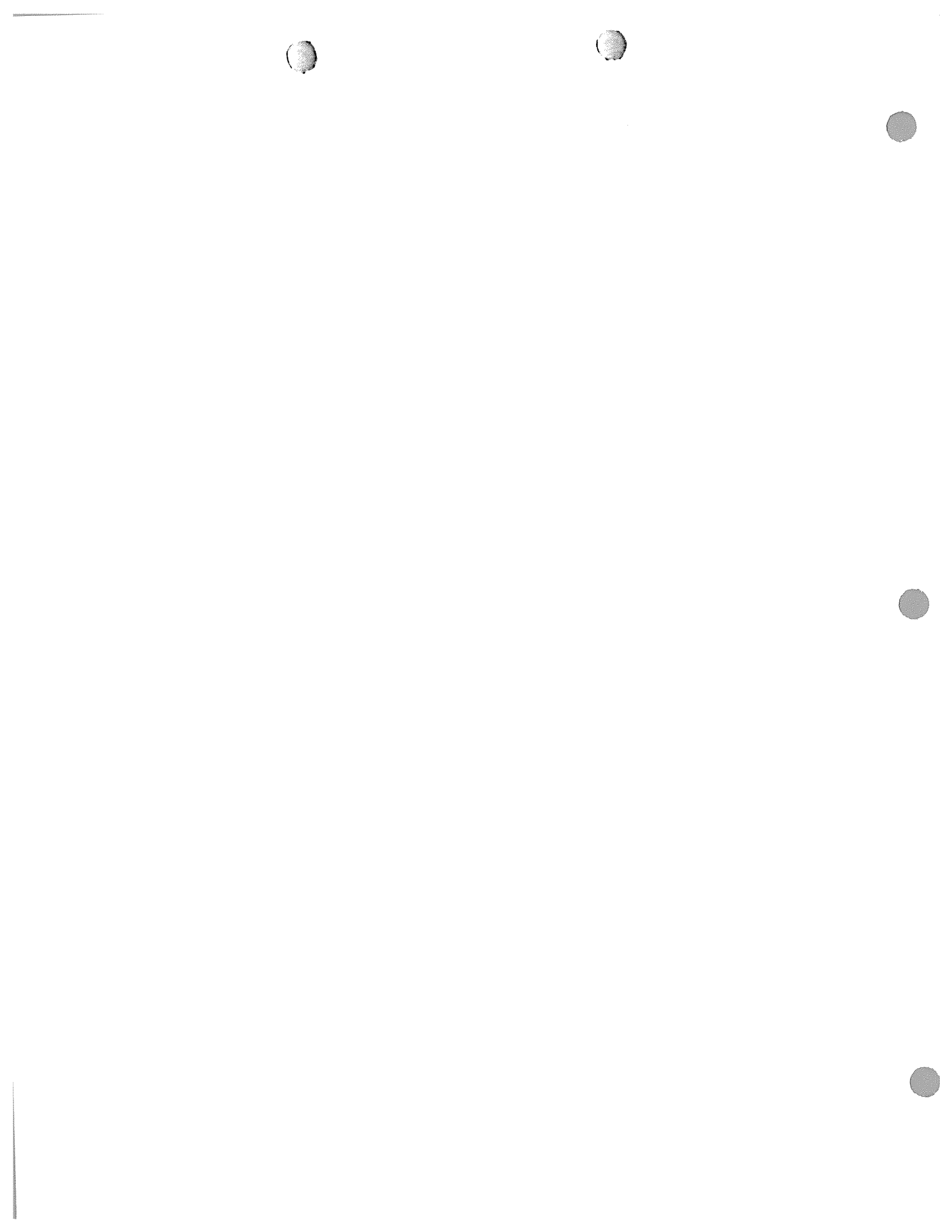
3.1. Measurement of Actual Performance

3.1.1. Overview

This section describes the official measurement of actual performance for the adopted performance measures and of actual experience for the adopted external influences. The measurement of the performance measures shall be consistent with their definitions as specified elsewhere.

3.1.2. Externalities

GPA will track the externalities that influence the value of the PMC Performance.



3.1.2.1 Average Fuel Prices

GPA shall determine actual monthly average fuel prices in \$/Mbtu for #6 high sulfur oil, #6 low sulfur oil and diesel (#2) oil based on documented purchase costs and sample heat content measurements. Such determinations shall exclude the effects of financial hedges unless such hedges directly impact the incremental cost of fuel, i.e. the cost of the last Mbtu of fuel burned.

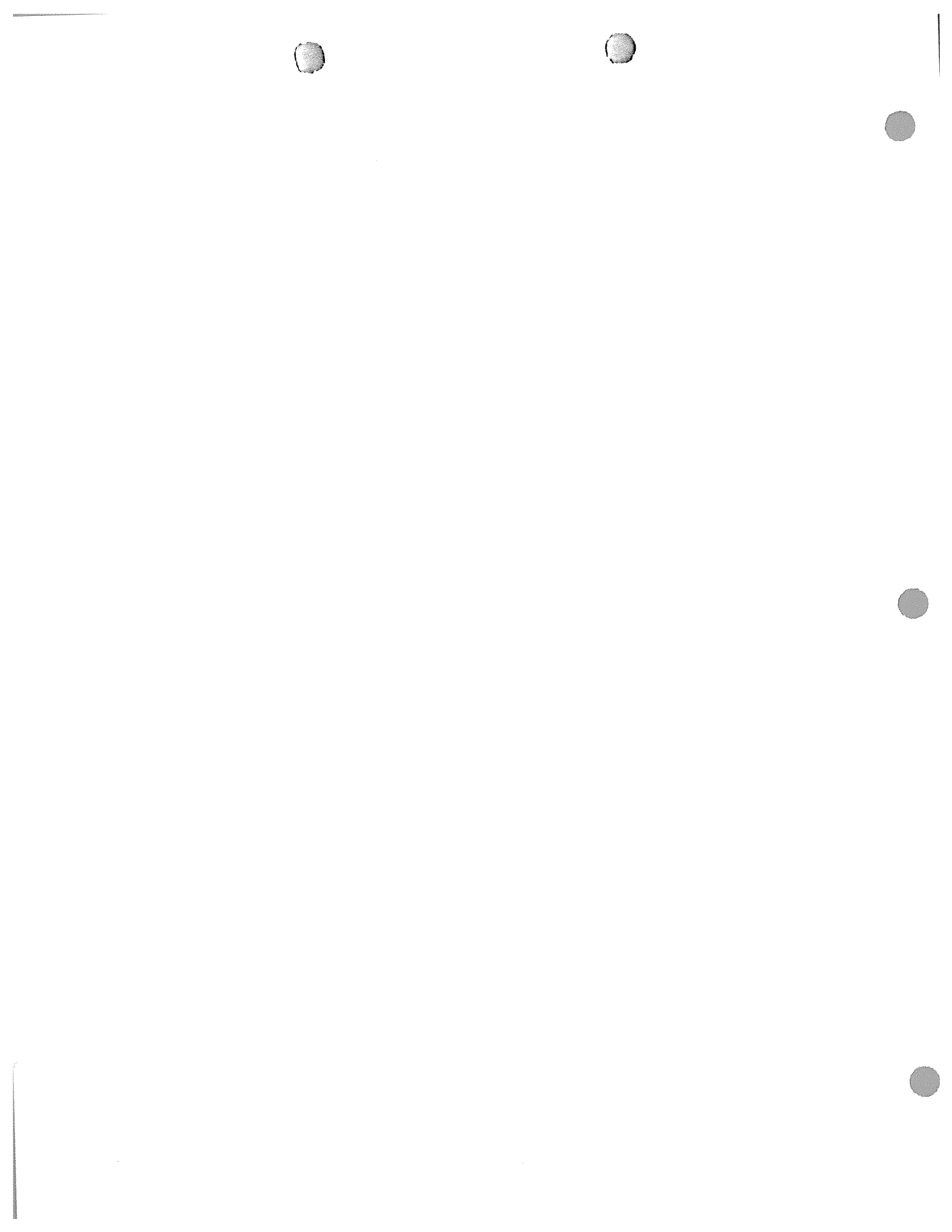
Average fuel prices for each contract year shall equal the weighted average of the monthly prices, where the weighting factors are the actual monthly system-wide fuel consumption in Mbtu. The average fuel price for #6 oil for the contract year shall be the weighted average of the contract year average fuel prices of #6 high sulfur and #6 low sulfur fuels, where the weighting factor is the fiscal year system-wide MBTU consumption of each of the #6 fuel types.

3.1.2.2. Average System Load

GPA shall determine actual average system load (MW) based on the documented measured total system-wide net generation output (MWh) for the contract year divided by the number of hours in the contract year.

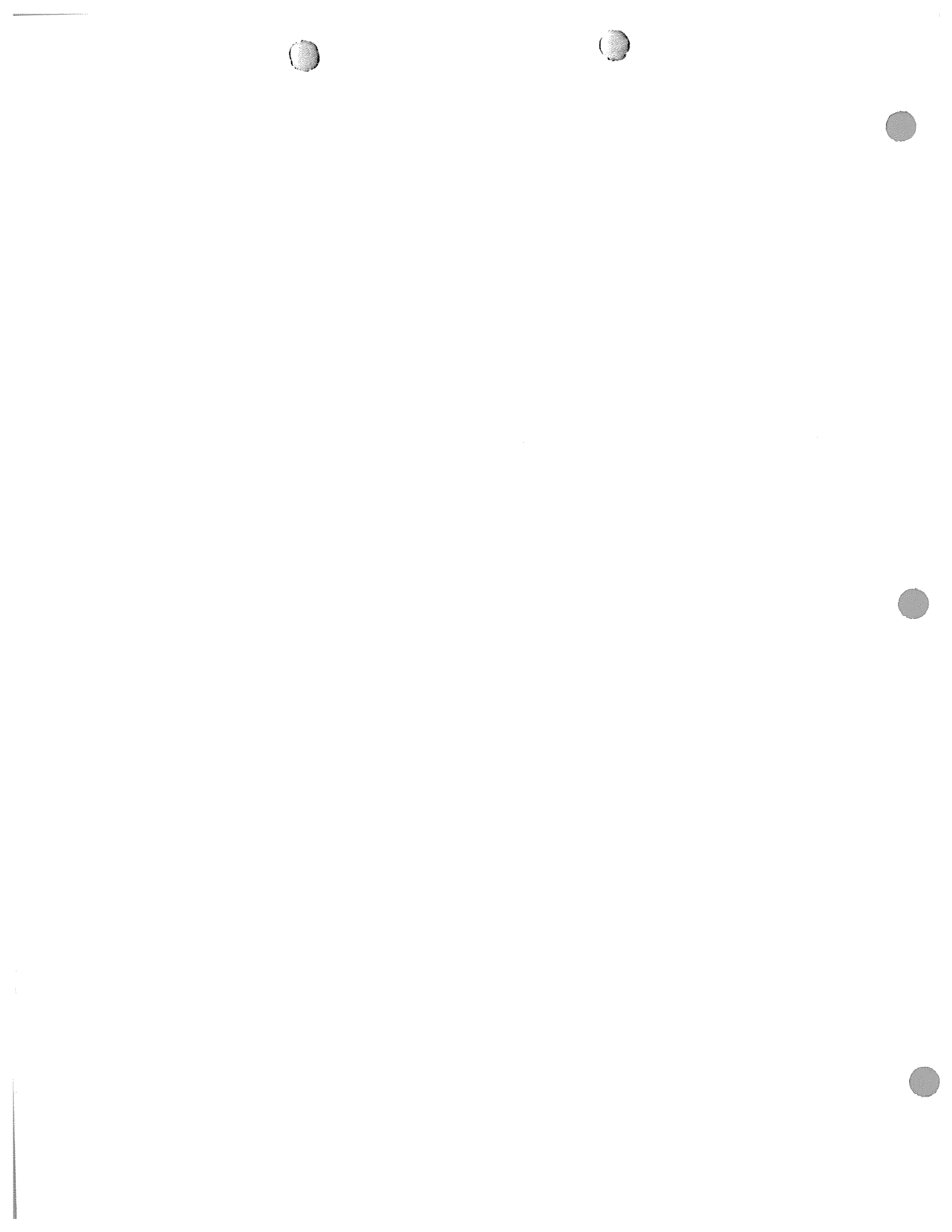
3.1.2.3. Average Baseload Generation

GPA shall determine actual average baseload generation (MW) based on the documented measured total net generation output (MWh) of all baseload units for the contract year divided by the number of hours in the contract year. Baseload units include MEC Units 8 & 9, Cabras Units 3 & 4, and any future units that are dispatched prior to Cabras Units 1 & 2.



APPENDIX G

Incentive and Penalty Assessments



PERFORMANCE MEASURES INCENTIVES AND PENALTY ASSESSMENTS

1. Introduction

GPA is contracting a PMC to perform against the following key performance indicators:

- Equivalent Availability Factor (EAF)
- Equivalent Forced Outage Rate (EFOR)
- Relative Heat Rate

2. Equivalent Availability Performance Measure

GPA is contracting a PMC to assure that the Cabras Units #1 and #2 Steam Power Plant achieves a high equivalent availability factor (EAF). The PMC shall track and compute the EAF for each unit as defined by the North American Electric Reliability Council (NERC) or its successors. The EAF computation shall be computed to two decimal places.

Should plant unavailability be caused by any factor which is completely and totally beyond the control of the PMC, such as forced majeure or catastrophic equipment failure, or unavailability solely caused by the failure of GPA to provide sufficient manpower, fuel or water, GPA and the PMC shall meet an discuss appropriate adjustments in accordance with the following procedures:

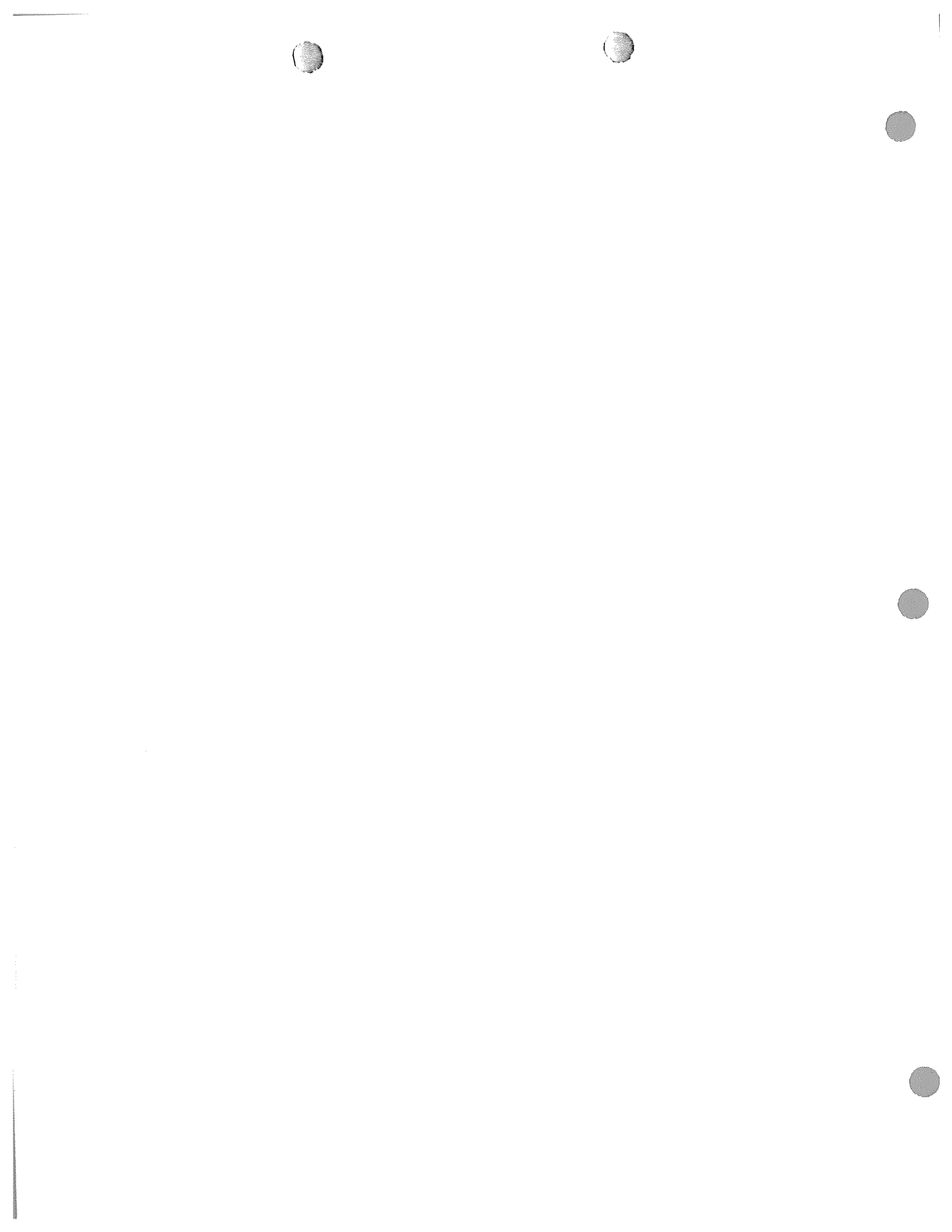
- EAF credit shall start from the determination of the root-cause of the outage and terminate when the unit is restored into service, except for forced majeure events, where the EAF shall start upon the occurrence of such event; and
- Throughout the EAF credit period, the outage unit shall be assumed to be in the pre-failure unit condition as per the NERC guidelines.

The Equivalent Availability Performance Period shall commence from the PMC's contract commencement date to the first anniversary of the commencement date. Subsequent performance periods shall fall between contract commencement anniversary dates except for the last contractual year where the performance period is the contract termination date. The Plant Equivalent Availability Performance minimum Guarantees are listed in Table G-1.

Table G-1 Equivalent Availability Performance Guarantees

CY 09	CY 10	CY 11	CY 12	CY 13
86%	86%	88%	88%	88%

The PMC shall compute the EAF for each unit for each performance period.



The EAF benefit or penalty shall be computed as follows to address costs for single-unit outages:

EQ-1 (Unit 1): $[(1 - \text{EAF}_{\text{Guarantee Unit 1}}) * \text{EAF}_{\text{Guarantee Unit 2}} - (1 - \text{EAF}_{\text{Unit 1}}) * \text{EAF}_{\text{Unit 2}}] * \text{Penalty for Down Time Percent Per Unit Downtime (\$/Percent)} * 100.$

EQ-2 (Unit 2): $[(1 - \text{EAF}_{\text{Guarantee Unit 2}}) * \text{EAF}_{\text{Guarantee Unit 1}} - (1 - \text{EAF}_{\text{Unit 2}}) * \text{EAF}_{\text{Unit 1}}] * \text{Penalty for Down Time Percent Per Unit Downtime (\$/Percent)} * 100.$

Where:

$\text{EAF}_{\text{Unit 1}}$ is the EAF achieved for Unit 1 in decimal

$\text{EAF}_{\text{Unit 2}}$ is the EAF achieved for Unit 2 in decimal

$\text{EAF}_{\text{Guarantee Unit 1}}$ is the EAF guarantee for Unit 1 in decimal

$\text{EAF}_{\text{Guarantee Unit 2}}$ is the EAF guarantee for Unit 2 in decimal.

The Penalty for Downtime Percent per unit or plant will be computed quarterly based on the average fuel price and the average system load.

The EAF benefit or penalty shall be computed as follows to address costs for simultaneous-unit outages:

EQ-3:

$[(1 - \text{EAF}_{\text{Guarantee Unit 1}}) * (1 - \text{EAF}_{\text{Guarantee Unit 2}})] - [(1 - \text{EAF}_{\text{Unit 1}}) * (1 - \text{EAF}_{\text{Unit 2}})] * \text{Penalty for Down Time Percent Per Plant Downtime (\$/Percent)} * 100$

Total EAF benefit or penalty is the sum of EQ-1, EQ-2 and EQ-3 divided by 2.

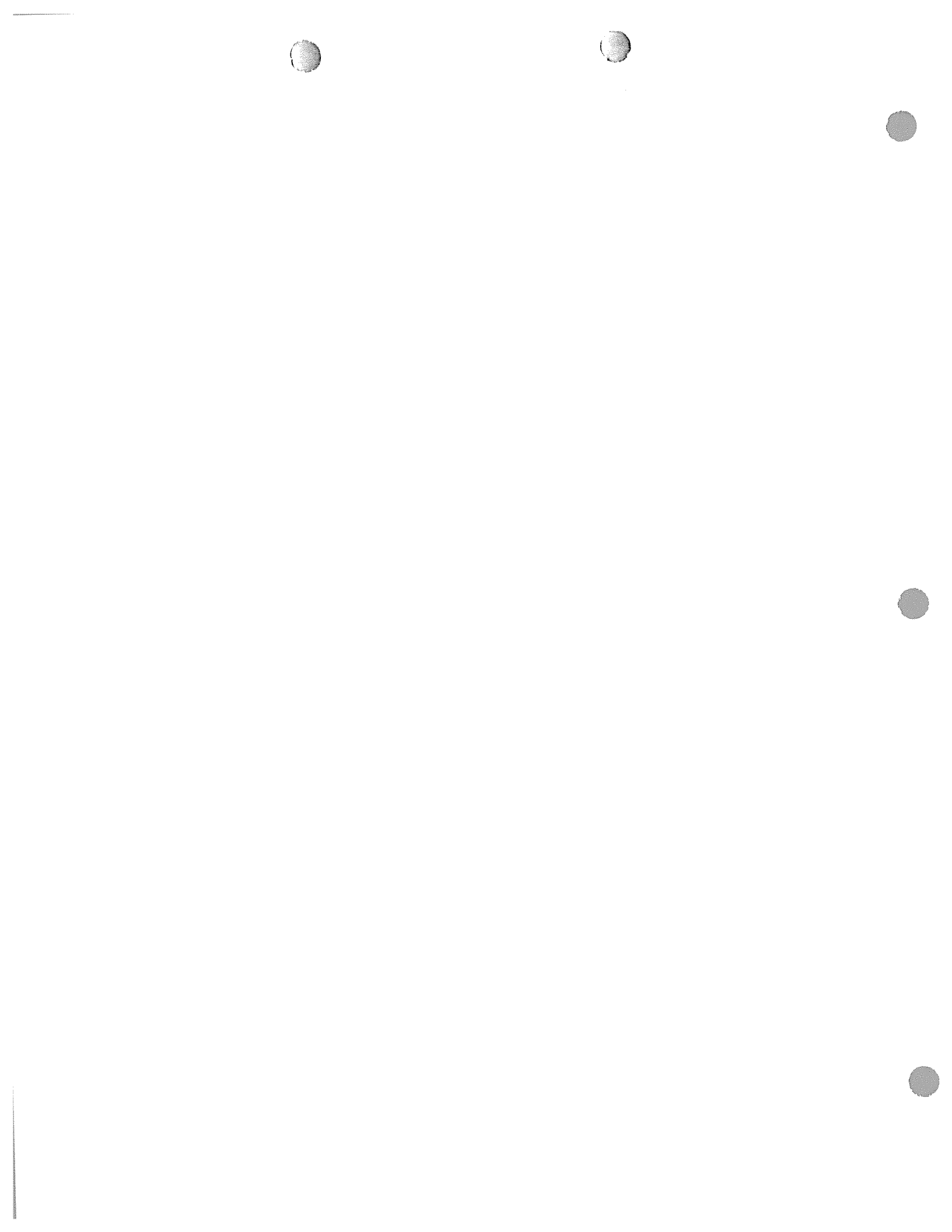
If the computed values are negative, the PMC shall pay the absolute value of the computed amount to GPA. If the computed values are positive, GPA shall pay the computed value to the PMC. Payments will be rounded up to the nearest dollar.

For example, if the EAF guarantee for Unit 1 and Unit 2 is 88% and Unit 1's actual performance is 90% and Unit 2 is 92%, and the Penalty for Down Time Percent per unit and plant is \$ 40,150 and \$222,650, respectively then the benefit payment is computed as follows:

Unit 1: $(1 - .88) * .88 - (1 - .90) * .92 * \$40,150 * 100 = \$54,604.00$

Unit 2: $(1 - .88) * .88 - (1 - .92) * .90 * \$40,150 * 100 = \$134,904.00$

Both units out:



$$[(1 - .88) * (1 - .88) - ((1 - .90) * (1 - .92))] * \$222,650 * 100 = \$142,496.00$$

If both units were out simultaneously in same period then GPA will pay the PMC $((\$54,604.00 + \$134,904.00 + \$142,496.00) / 2)$ \$166,002.00, for superior performance.

For example, if the EAF guarantee for Unit 1 and Unit 2 is 88% and Unit 1's actual performance is 85% and Unit 2 is 87%, then the benefit payment is computed as follows:

$$\begin{aligned} \text{Unit 1: } & (1 - .88) * .88 - (1 - .85) * .87 * \$40,150 * 100 = - \$99,973.50 \\ \text{Unit 2: } & (1 - .88) * .88 - (1 - .87) * .85 * \$40,150 * 100 = - \$19,673.00 \end{aligned}$$

Both units out:

$$[(1 - .88) * (1 - .88) - ((1 - .85) * (1 - .87))] * \$222,650 * 100 = -\$113,551.50$$

If both units were out simultaneously in same period then the PMC will pay GPA $((\$99,973.50 + \$19,673.00 + \$113,551.50) / 2)$ \$116,599.00 for not meeting the performance guaranteed for the units.

3. Equivalent Forced Outage Performance Measure

In addition to achieving a high EAF, GPA is contracting a PMC to assure that the Cabras Units #1 and #2 Steam Power Plant achieves a low equivalent force outage rate (EFOR). The PMC shall track and compute the EFOR for each unit as defined by the North American Electric Reliability Council (NERC) or its successors. The EFOR computation shall be computed to two decimal places.

There will be no bonus or penalty associated with EFOR. However, the Authority will not consider an option for an additional 5-year extension if the contract average performance for EFOR is greater than 8.2%. The Authority reserves the right to extend this PMC contract for a year by year extension up to five extensions if the EFOR performance measure is met.

4. Relative Heat Rate Performance Measure

GPA is contracting a PMC to assure that the Cabras Units #1 and #2 Steam Power Plant achieves a low Relative Heat Rate (RHR).

The Relative Heat Rate Performance Period shall be the period between the contract commencement date and the next contract commencement anniversary date for any given contract year. Subsequent performance period shall fall between contract commencement anniversary date.



The bonus or penalty for heat rate performance for the first performance period shall be based on the first year Guaranteed Energy Input Calculation and Actual Energy Input Calculation for the evaluation period as follows:

Table G-1 – Heat Rate Bonus/Penalty for the first performance period

	Penalty	Bonus
Actual Energy Input (MBTU)	> 102% of Guaranteed Energy Input	≤ 102 % of Guaranteed Energy Input

The baseline input/output curves and the 102% no-penalty curves are shown in Figures G1-1 and G1-2 for Cabras Unit 1 and Unit 2 respectively. Table G-4 shows the tabulated values.

The baseline heat input/output curve for the first performance period will be based on coefficients developed using the heat rate performance test data for both units in 2005. These coefficients are defined in table G-2.

Table G-2. Baseline Heat Input/Output Curve Regression Coefficients

Coefficients	Units	Cabras Unit 1	Cabras Unit 2
A	(MBTU/hr/MW ²)	0.045	0.002
B	(MBTU/hr/MW)	5.905	8.979
C	(MBTU/h)	109.677	72.629

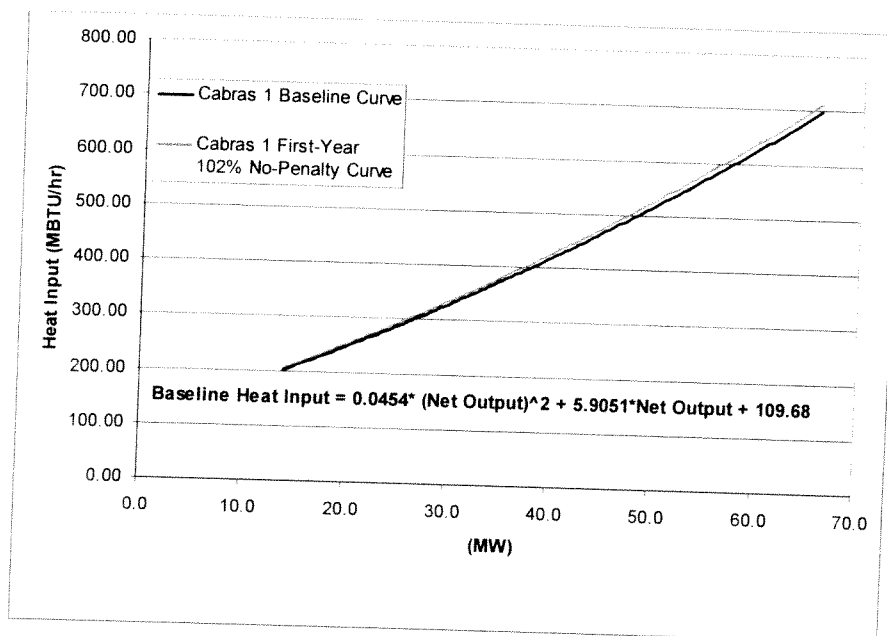




Figure G1-1. Cabras 1 Baseline and First-Year Target Input/Output Curves

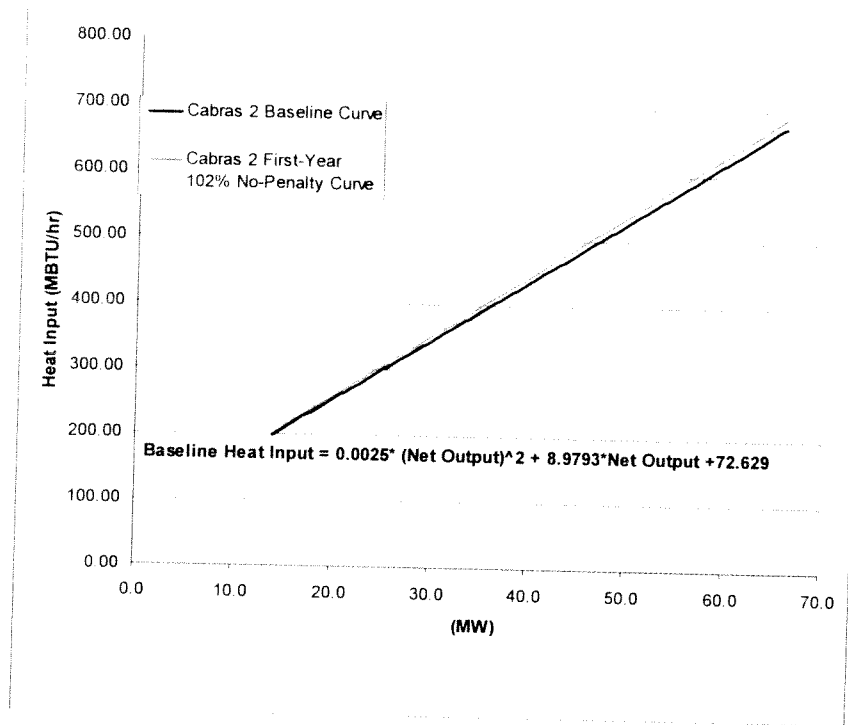
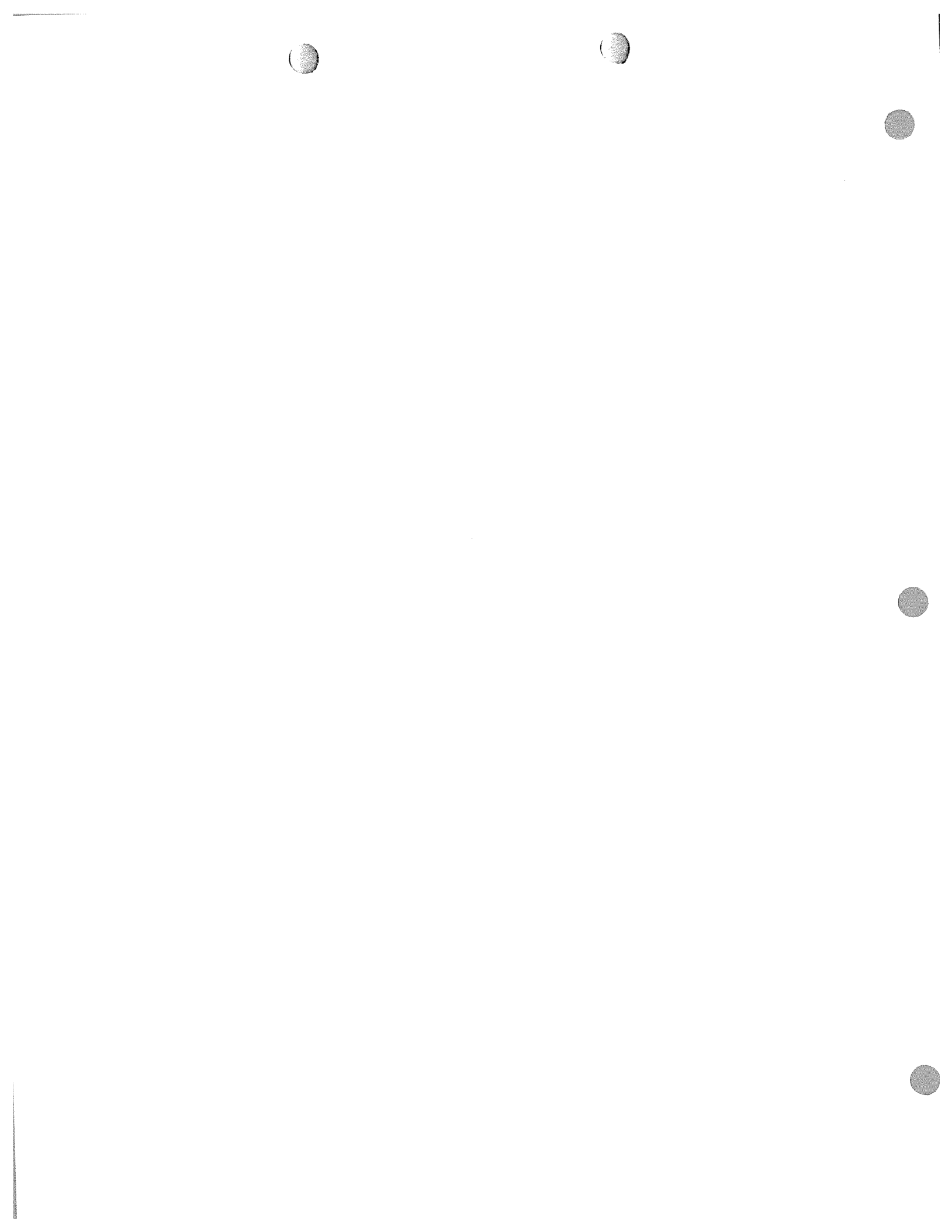


Figure G1-2. Cabras 2 Baseline and First-Year Target Input/Output Curves

Table G-4. Baseline and First-Year Target Heat Input/Output

Cabras #1				Cabras #2			
MW	BTU/KWH	Baseline MBTU/Hr	First-Year Bandwidth MBTU/Hr	MW	BTU/KWH	Baseline MBTU/Hr	First-Year Bandwidth MBTU/Hr
12.7	14,013.00	177.97	181.52	13.66	15,309.00	209.12	213.30
22.7	11,768.00	267.13	272.48	22.57	12,253.00	276.55	282.08
29.38	10,957.00	321.92	328.35	30.12	11,363.00	342.25	349.10
32.4	10,864.00	351.99	359.03	33.01	11,014.00	363.57	370.84
36.82	10,518.00	387.27	395.02	37.78	10,826.00	409.01	417.19
37.38	10,538.00	393.91	401.79	37.99	10,985.00	417.32	425.67
42.1	10,380.00	437.00	445.74	42.79	10,763.00	460.55	469.76
51.86	10,271.00		543.31	52.5	10,373.00	544.58	555.47



		532.65					
56.66	10,423.00	590.57	602.38	57.28	10,320.00	591.13	602.95
56.79	10,410.00	591.18	603.01	57.45	10,454.00	600.58	612.59
62.3	10,596.00	660.13	673.33	60.98	10,352.00	631.26	643.89

One month after the contract Commencement Date, the PMC shall draft the specifications for an RFP for Performance Testing, which RFP shall be subject to review and approval by GPA. The PMC shall contract a third-party to perform the testing as specified in Volume II, Section 9.1.6. The PMC will initiate the performance testing of each Cabras Steam Unit and establish new baseline input/output curves to be used in evaluating the 2nd and 3rd year's performance periods a month after GPA's approval. Within 30 days of the contract commencement anniversary of the 4th year, the PMC will initiate the performance testing of each Cabras Steam Unit and establish new baseline input/output curves for the 4th and 5th year's performance periods evaluation.

The PMC shall bear the costs of the Performance Testing of Cabras Unit 1 and 2 for establishing baseline input/output curves and the costs for additional testing.

The bonus or penalty for heat rate performance for the subsequent contract year's performance period shall be based on the subsequent contract year Guaranteed Energy Input Calculation and Actual Energy Input Calculation for the evaluation period as follows:

Table G-5 – Heat Rate Bonus/Penalty for the 2nd to 5th year performance periods

	Penalty	Bonus
Actual Energy Input (MBTU)	> 101% of Guaranteed Energy Input	< 99 % of Guaranteed Energy Input

The RHR benefit/penalty process for the contract years shall be as follows:

- GPA and the PMC shall collect the fifteen-minute energy production and demand information from the revenue metering on a monthly basis for each unit.
- GPA and the PMC shall establish the actual plant fuel consumption for each unit using the fuel metering data every month.
- GPA shall establish monthly averages for fuel heating value and fuel cost.
- GPA and the PMC shall compute the monthly theoretical fuel consumption given the heat rate performance guarantee established by the guaranteed heat input/output.



- If the actual monthly fuel consumption value for a unit is less than that computed using the unit's guaranteed heat input/output curve, then GPA shall pay the PMC half the difference between the actual monthly fuel consumption and the theoretical fuel consumption value, multiplied by the average fuel cost over the performance period.
- If the actual monthly fuel consumption value for a unit is greater than that computed using the unit's guaranteed input/output curve, then the PMC shall pay GPA half the difference between the actual monthly fuel consumption and the theoretical fuel consumption value, multiplied by the average fuel cost over the performance period.
- Fuel consumption shall be normalized for 60 °F.
- The RHR incentives and penalties shall be paid every quarter of each contract year.
- The PMC is responsible for all metering and information processing for computation of RHR incentives and penalties. GPA shall maintain review and approval authority over the RHR incentives and penalties process.
- The Relative Heat Rate Bonus/Penalty is computed as follows:

$$RHRI = [(GFC1 + GFC2) - AFC12] * WFC / 2$$

Where,

RHRI = Relative Heat Rate Incentive Payment (\$) for the Performance Period.

GFC1 = Guaranteed Fuel Consumption for Unit 1 (BBL) for the Performance Period

GFC2 = Guaranteed Fuel Consumption for Unit 2 (BBL) for the Performance Period.

AFC12 = Actual Fuel Consumption for Cabras Unit 1 and 2 (BBL) for the Performance Period.

WFC = Weighted Fuel Cost (\$/BBL) for the Performance Period.

- GPA and the PMC may use the existing software application program or design and develop new program or improve the existing program to accept and validate energy production and fuel consumption data and compute the required actual and guaranteed performance metrics. GPA and the PMC shall develop this software application program during the first contract year and prior to the Performance Tests.

The basis for computing the RHR incentives and penalties shall be illustrated using the demand and energy for each 15-minute interval and the assumptions listed below:



- Table G-6 shows the fuel and heat input information to be used in the illustrative example.
- Table G-7 shows the 15-minute energy production and demand metering information for one hour, to be used in the illustrative example.
- Using the demand and energy information in Table G1-5 and the guarantees input/output equation for each unit, one can compute the guaranteed heat input in MBTU requirement over the typical day.

Table G-6. Fuel and Heat Input Data

Parameter	Units	Value
Weighted Heating Value	MBTU/BBL	6.10
Weighted Fuel Cost	\$/BBL	50.00
Weighted Fuel Heat Content Cost: (Weighted Fuel Cost) / (Weighted Heating Value)	\$/MBTU	8.20

Example 1. The PMC achieves an equivalent 105% Relative Heat Rate actual performance for the first year performance period.

In this example, the baseline guaranteed heat input is 421.39 MBTU and 375.62 MBTU for Cabras Unit 1 and Unit 2, respectively over this typical illustrative hour. Dividing both heat input values by the weighted Fuel Heating Value yields a guaranteed fuel consumption of 69.08 and 61.58 BBLs, respectively.

Suppose the actual measured fuel consumption for both Cabras Unit 1 and 2 is 137.19 BBLs. This is equivalent to a 105 % RHR actual performance. Then the Relative Heat Rate Incentive Payment is computed as follows:

$$\begin{aligned}
 \text{RHRI} &= [(GFC1 + GFC2) - AFC 12] * WFC / 2 \\
 &= [(69.08 + 61.58) - 137.19] * \$50 / 2 \\
 &= - \$163.33
 \end{aligned}$$

Since the above value is negative, the PMC would have to pay GPA \$163.33 for an hour period.

The numbers above are for illustration only.

Example 2. The PMC achieves an equivalent 98% Relative Heat Rate actual Performance for the first year performance period.

In this example, the baseline guaranteed heat input is 421.39 MBTU and 375.62 MBTU for Cabras Unit 1 and Unit 2, respectively. Dividing both heat input values by the weighted Fuel Heating Value yields a guaranteed fuel consumption of 75.55 and 64.05 BBLs, respectively.



Suppose the actual measured fuel consumption for both Cabras Unit 1 and 2 is 128.05 BBLs. This is equivalent to a 98% RHR actual performance. Then the Relative Heat Rate Incentive

Payment is computed as follows:

$$\begin{aligned}
 \text{RHRI} &= [(GFC1 + GFC2) - AFC12] * WFC / 2 \\
 &= [(69.08 + 61.58) - 128.05] * \$50/2 \\
 &= \$65.33
 \end{aligned}$$

Since the above value is positive, GPA would pay the PMC \$65.33 for an hour period.

The numbers above are for illustration only.

Table G-6. 15-Minute Energy and Demand Data and Guaranteed Heat Input Table.

Hour	Cabras 1 (MW)	Cabras 1 (MWh)	Cabras 1 Guaranteed Heat Input (MBTU)	Cabras 2 (MW)	Cabras 2 (MWh)	Cabras 2 Guaranteed Heat Input (MBTU)
0:00						
0:15	40.00	10.00	104.63	35.00	8.75	92.99
0:30	40.20	10.05	105.11	35.20	8.80	93.45
0:45	40.40	10.10	105.59	35.40	8.85	93.90
1:00	40.60	10.15	106.07	36.00	9.00	95.28
Total MBTU			421.39			375.62

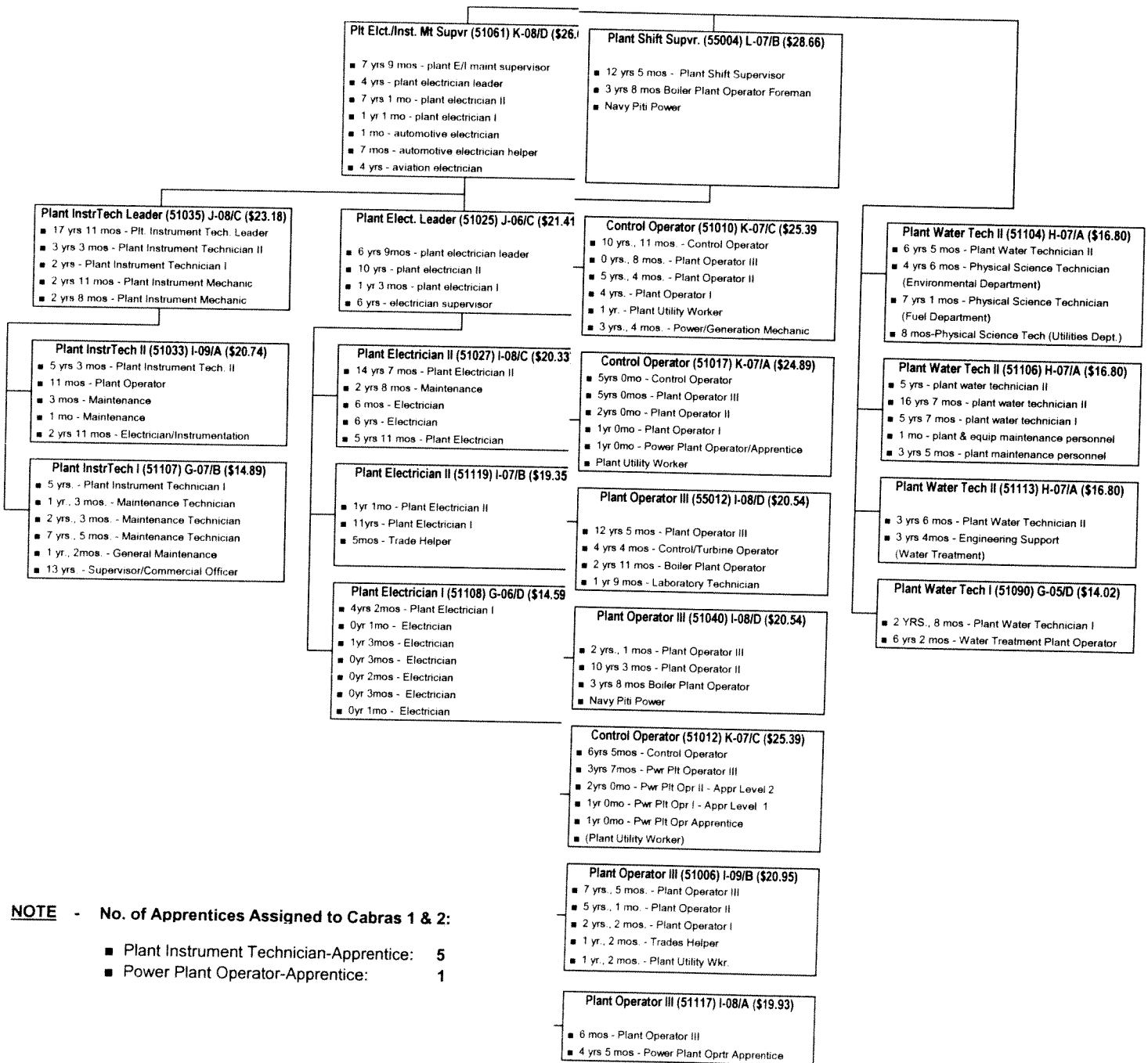


APPENDIX H

**CABRAS #1 & #2 STEAM POWER PLANT
ORGANIZATION CHART**



**C
ORGA
(WITH DISCLOSURE OF**



NOTE - No. of Apprentices Assigned to Cabras 1 & 2:

- Plant Instrument Technician-Apprentice: 5
- Power Plant Operator-Apprentice: 1



APPENDIX I

**FUEL SUPPLY SPECIFICATIONS AND
ARRANGEMENTS**



FUEL SUPPLY SPECIFICATIONS

The specifications for the Fuel Supply will be as follows:

Residual Fuel Oil No. 6

API Gravity	-	Min. 14.0, Max. 23.0
Viscosity (@ 100°F)	-	Maximum 1500 SSU
Flash Point	-	Minimum 151°F
Pour Point	-	Maximum 70°F
Carbon Residue – Micro Carbon	-	Maximum 15% weight
Ash	-	Maximum 0.10% weight
Water & Sediments	-	Maximum 1.0% weight
Sulfur High	-	2.00% weight
Sulfur Low	-	1.19% weight
Vanadium	-	80 ppm (Max)
Aluminum + Silicon Content	-	Not to exceed 80 ppm
Gross Heating Value, HSFO (Average)	-	6.0 MBTU/BBL
Gross Heating Value, LSFO (Average)	-	6.0 MBTU/BBL

Light Fuel Oil (Distillate No. 2)

Specific Gravity @ 60°F	-	0.8602 Minimum
Viscosity SSU @100°F	-	35 Minimum
Cloud Point, °F	-	68 Maximum
Sulfur	-	0.5% Maximum
Bottom Sediment & Water	-	0.05% Maximum
Ash	-	0.005% weight, Maximum
Flash Point, PM, °F	-	140 Minimum
Carbon Residue (10% Bottom)	-	0.20
Pour Point, °F	-	50 Maximum
High Heating Value (Minimum)	-	5.7 MBTU/BBL



FUEL SUPPLY ARRANGEMENTS

Delivery	GPA and PMC will liaise to prepare weekly fuel schedules showing anticipated times and quantities of fuel to be utilized by the Power Plant. GPA shall be responsible for ensuring the availability of fuel supplies, for the payment therefore, and for all arrangements with the suppliers.
Fuel Oil Storage	The existing fuel oil storage tanks at the Cabras Unit 1&2 shall be utilized by PMC. The water shall be drained off weekly.
Testing	PMC shall calibrate the fuel tanks in an approved manner. Upon each delivery of fuel to and, from time to time thereafter, a suitable sample will be taken and analyzed jointly by the PMC and GPA to ensure that it meets the specifications as shown above. Oil quality is sampled, tested and reported back to GPA by SGS Guam, Inc. of Redwood Petroleum Services.
Metering	Meters shall be calibrated by PMC and tested every six months under the PMC Routine O&M Spending Budget by a third party agreed between PMC and GPA.
Variation in rate Of delivery	PMC and GPA will liaise in estimating the fuel required to comply with GPA's annual, monthly and weekly systems operating plans.
Security	PMC shall be responsible for all security and safety arrangements in respect of the fuel in the Site tanks.
Spill Prevention Control and Countermeasure Plan (SPCC Plan)	<ol style="list-style-type: none">1. PMC shall be responsible for the preparation of SPCC plan for the facility for EPA and GPA's approval.2. PMC shall be responsible for the full compliance of the Facility SPCC plan.
Best Management Plan (BMP)	<ol style="list-style-type: none">1. PMC shall be responsible for the preparation of the Facility BMP plan for EPA and GPA's approval, including full compliance with the plan.



APPENDIX J

Bid Bond Form and Instructions





GOVERNMENT OF GUAM

BID BOND

NO. _____

KNOW ALL MEN BY THESE PRESENTS that _____, as Principal hereinafter called the Principal, and (Bonding Company), _____, a duly admitted insurer under the laws of the Territory of Guam, as Surety, hereinafter called the Surety are held firmly bound unto the Territory of Guam for the sum of _____ Dollars (\$ _____), for payment of which sum will and truly to be made, the said Principal and the said Surety bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted a bid for (identify project by number and brief description) _____

NOW, THEREFORE, if the Territory of Guam shall accept the bid of the Principal and the Principal shall enter into a Contract with the Territory of Guam in accordance with the terms of such bid, and give such bond or bonds as may be specified in bidding or Contract Documents with good and sufficient surety for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof, or in the event of the failure of the Principal to enter such Contract and give such bond or bonds, if the Principal shall pay to the Territory of Guam the difference not to exceed the penalty hereof between the amounts specified in said bid and such larger amount for which the Territory of Guam may in good faith contract with another party to perform work covered by said bid or an appropriate liquidated amount as specified in the Invitation for Bids then this obligation shall be null and void, otherwise to remain in full force and effect.

Signed and sealed this _____ day of _____, 19_____

(WITNESS)

(TITLE)

(MAJOR OFFICER OF SURETY)

(TITLE)

(PRINCIPAL) (SEAL)

(MAJOR OFFICER OF SURETY)

(TITLE)

(RESIDENT GENERAL AGENT)

SEE INSTRUCTIONS IN BACK PAGE FOR SUPPORTING DOCUMENTS REQUIRED.



INSTRUCTIONS TO PROVIDERS:

NOTICE to all Insurance and Bonding Institutions:

The Bond requires the signatures of the Vendor, two (2) major Officers of the Surety and Resident General Agent, if the Surety is a foreign or alien surety.

When the form is submitted to General Services Agency, it should be accompanied with copies of the following:

- 1. Current Certificate of Authority to do business on Guam issued by the Department of Revenue and Taxation.*
- 2. Power of Attorney issued by the Surety to the Resident General Agent.*
- 3. Power of Attorney issued by two (2) major officers of the Surety to whoever is signing on their behalf.*

Bonds, submitted as Bid Guarantee, without signatures and supporting documents are invalid and bids will be rejected.



APPENDIX K

Local Procurement Preference Application





GUAM POWER AUTHORITY

ATURIDÁT ILEKTRESEDÁT GUAHAN
P.O. BOX 2977 • AGANA, GUAM U.S.A. 96910-2977

Accountability • Impartiality • Competence • Openness • Value

LOCAL PROCUREMENT PREFERENCE APPLICATION

Based on the law stipulated below, please place a checkmark or an "X" on the block indicating the item that applies to your business:

5 GCA, Chapter 5, Section 5008, "Policy in Favor of Local Procurement" of the Guam Procurement Law states:

All procurement of supplies and services shall be made from among businesses licensed to do business on Guam and that maintains an office or other facility on Guam, whenever a business that is willing to be a contractor is:

- () (a) A licensed bonafide manufacturing business that adds at least twenty-five percent (25%) of the value of an item, not to include administrative overhead, suing workers who are U.S. Citizens or lawfully admitted permanent residents or nationals of the United States, or persons who are lawfully admitted to the United States to work, based on their former citizenship in the Trust Territory for the Pacific Islands; or
- () (b) A business that regularly carries an inventory for regular immediate sale of at least fifty percent (50%) of the items of supplies to be procured; or
- () (c) A business that has a bonafide retail or wholesale business location that regularly carries an inventory on Guam of a value of at least one half of the value of the bid or One Hundred Fifty Thousand Dollars (\$150,000) whichever is less, of supplies and items of a similar nature to those being sought; or
- () *(d) A service actually in business, doing a substantial business on Guam, and hiring at least 95% U.S. Citizens, lawfully admitted permanent residents or nationals of the United States, or persons who are lawfully admitted to the United States to work, based on their citizenship in any of the nations previously comprising the Trust Territory of the Pacific Islands.

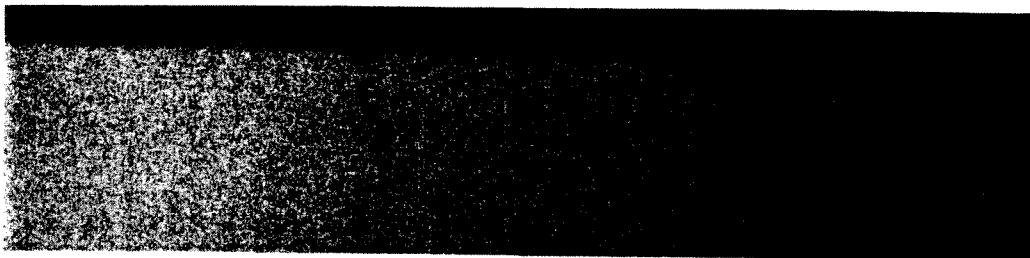
* Bidders indicating qualification under (d) may be considered QUALIFIED for the Local Procurement Preference only if the Government's requirement is for service. Service is defined Pursuant to 5 GCA Government Operations Subparagraph 5030 entitled DEFINITIONS under Chapter 5 of the Guam Procurement Law.

1. I _____, representative for _____, have read the requirements of the law cited above and do hereby qualify and elect to be given the LOCAL PROCUREMENT PREFERENCE for Bid No. GPA _____. By filling in this information and placing my signature below, I understand that General Services Agency and GPA will review this application and provide me with a determination whether or not the 15% preference will be applied to this bid.
2. I _____, representative for _____, have read the requirements of the law cited above, and do not wish to apply for the Local Procurement Preference for Bid No. GPA _____.

Bidder Representative Signature

Date: _____

NOTE: Prospective Bidders not completing this form will automatically be not considered for Local Procurement Preference. Non-completion of this form is not a basis for rejection of the bid.

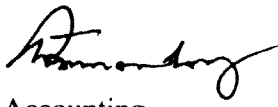
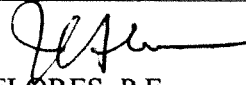




APPENDIX L

**Capital vs. Expense Transactions Standard
Operation Procedures (SOP)**



GUAM POWER AUTHORITY Standard Operating Procedure	No.: SOP- 133	Issued:
	Prepared By:  Controller/Plant Accounting	
Title: CAPITAL VS. EXPENSE TRANSACTIONS	Approved By:  JOAQUIN C. FLORES, P.E. General Manager	
	Effective Date: _____ Supersedes No. _____ Page 1 of 7	

1.0 PURPOSE

To establish the guidelines for the determination of CAPITAL EXPENDITURES vs. O&M EXPENSE transactions in order to properly allocate costs to utility plant expense accounts in conformity with Generally Accepted Accounting Principles (GAAP) and according to plant accounting procedures prescribed in the Uniform System of Accounts (USOA) of the Federal Regulatory Commission (FERC). The objective is to ensure adherence to consistent practices aimed at presenting a correct picture of the Authority's operations and financial condition.

2.0 APPLICABILITY

These guidelines apply to the preparation and submission of annual fiscal year CIP budget items and to the classification and allocation of actual expenditures to utility plant and O&M expense accounts. In the event of inconsistency between GAAP and FERC rules, generally accepted accounting principles will prevail.

3.0 REFERENCE

- 3.1 FA-01 List of Retirement Units. (See attached)
- 3.2 Uniform System of Accounts of the Federal Energy Regulatory Commission.
- 3.3 Notes to Financial Statements, Note 1- Accounting Policies.
- 3.4 Fixed Assets Register Program.
- 3.5 Property Retirement / Removal Procedures.
- 3.6 Disposal of Surplus Material Equipment.

CODES # REVISED # ADDED

4.0 RESPONSIBILITY

Responsibility for the implementation and coordination of this policy, including final determination of whether to capitalize or expense an item, is hereby delegated to the Chief Financial Officer. The respective Division / Section Managers are to make the initial determination of whether a transaction is capital or expense; and for those transactions deemed to be capital (other than the routine acquisition of general plant assets), concurrence by the Controller / Plant Accounting is necessary.

5.0 CONSIDERATIONS

Most transactions are distinctly of either a capital or expense nature and should be accounted for accordingly. Questionable cases should be decided on their individual merits and justifications, giving appropriate consideration to such things as the purpose of the expenditure, the benefit(s) to be derived, the magnitude of the cost and the estimated useful life of the item involved. If a decision is not readily ascertainable after analysis and review, a conservative policy of expensing rather than capitalizing such costs is to be followed.

6.0 DEFINITIONS

- 6.1 Capital Expenditures - those expenditures (both cash and allocations) which benefit future periods such as:
- 6.1.1 All costs associated with the construction or acquisition of retirement property unit listed in FERC account # 301 to 399. An item qualifies as a separate retirement unit if it is relatively costly and is not an integral part of another asset.
 - 6.1.2 Replacements of existing Retirement Units of property.
 - 6.1.3 Betterments to existing property or equipment, i.e. substantial improvements that have the effect of increasing the capacity, efficiency, useful life or economy of existing fixed asset. The excess cost of replacement over the estimated cost at current prices of replacing without betterment shall be charged to the appropriate electric plant account.
 - 6.1.4 Rehabilitation of buildings, structures or equipment purchased or acquired in a rundown condition, with the intention of rehabilitation.
 - 6.1.5 All individual items of general plant equipment costing \$1,000 (increased from \$500) having a life expectancy /service of more than a year.

CODES # REVISED # ADDED

Expenditures for spare parts are not normally capital items unless these spare parts are plant specific and located at the plant. Spare parts specifically fabricated for a particular piece of equipment and stored in rather close proximity to the equipment would be indicative of capital items. Those spare parts that represent vendor catalogue or "shelf-stock" items are usually indicative of replacement parts that are accounted for not as capital items but as materials and supplies inventory until used.

Spare parts purchased in accordance with the working capital phase of a Capital Improvement Projects (CIPs) are to be initially charged to the appropriate construction work in progress (CWIP) accounts. Upon the completion of construction activity and the transfer from CWIP to Electric Plant in Service, any remaining spare parts are to be physically inventoried and transferred to the warehouse inventory under the responsible operating facility's control. The requisite accounting entry pricing the physical inventory of spare parts at the lower of cost or current market should be recorded to transfer the inventory from construction work in progress (credit to FERC account 107) to materials and supplies inventory (debit to FERC account 154).

6.2 Maintenance and Repairs - those expenditures necessary to keep property at a standard of operating condition; or the restoration of a unit of property or equipment to its full productive capacity after damage, accident, or prolonged use. Maintenance activities do not extend the useful life or increases the productive capacity of the property unit or increase the value of asset accounts. These are cost incurred specifically for the purpose of preventing failures and restoring serviceability. However, lack of proper maintenance and repairs probably will shorten the useful life or decrease the operating capacity of the property or equipment. According to the Uniform System of Accounts of the Federal Energy Regulatory Commission the cost of maintenance includes, labor, materials, with respect to the following items:

- 6.2.1 Direct field supervision of maintenance.
- 6.2.2 Inspecting, testing and reporting on condition of plant specifically to determine the need for repairs, replacements, rearrangements and changes and inspecting and testing the adequacy of repairs which have been made.
- 6.2.3 Work performed specifically for the purpose of preventing failure, restoring serviceability or maintaining life of the plant.
- 6.2.4 Rearranging and changing the location of plant not retired.
- 6.2.5 Repairing for reuse materials recovered from plant.
- 6.2.6 Testing for locating and clearing trouble.
- 6.2.7 Repainting.

CODES # REVISED # ADDED

- 6.2.8 Net cost of installing maintaining and removing temporary facilities to prevent interruptions in service.
- 6.2.9 Replacing or adding minor items of plant which do not constitute a retirement unit.
- 6.3 Units of Property - comprised of Retirement Units and Minor Items of Property. Retirement Units represent the smallest units of property that are accounted for as a unit of electric plant and which when retired, with or without replacement, require the removal of the installed cost thereof from the electric plant account in which included.
Minor Items of Property represent the component or associated parts of Retirement Units.
- 6.4 Retirement .the removal of a property item from service following the end of its productive life, sale or other disposal. The installed cost thereof from the electric plant account in which included and the appropriate adjustment of the depreciation "reserve" accounts.
The basic test for retirement is:
- 6.4.1 Has the unit of property ceased to function with respect to its regular operation, and
- 6.4.2 Is it highly improbable that the unit of property will be used in its present form in the future.

7.0 DETERMINATION

- 7.1 Determination of capital, maintenance and retirement activities should be made within the framework of units of property.

7.2 Accounting for Units of Property

<u>TRANSACTION</u>	<u>RETIREMENT UNIT</u>	<u>MINOR ITEM</u>
Add New Item	Capitalize to 101300/399	Capitalize to 101300/399
Retire Only	Retirement from 101300/399 to 108300 Accumulated Depreciation	Retire from 101300/399 to 108300 Accumulated Depreciation
Replacement	Retire old unit at original cost Capitalize replacement cost	Charge cost of new item to maintenance

CODES # REVISED # ADDED

- 7.3 Refer to Accounting Procedure FA - 01 for List of Retirement Units.
- 7.4 Other guidelines for application of capital/maintenance accounting determinations:
- 7.4.1 If service life of item (either retirement unit or minor item) is less than one year, regardless of cost, charge cost to appropriate operations or maintenance account.
- 7.4.2 If service life of general plant item is greater than one year and cost is less than \$1,000.00 charge cost to appropriate operations or maintenance account.
- 7.4.3 If service life of item is greater than five years and cost exceeds \$10,000.00 charge cost to appropriate Construction Work in Progress/ Electric Plant in service account. (\$1,000 for General Plant)
- 7.4.4 Note - Regardless of whether an item of property is charged to capital or expense accounts in accordance with the aforementioned accounting determinations, proper accounting, control, and safeguarding of such assets shall be established.

8.0 COMPONENTS OF COST

It is a regulatory requirement that all plant be recorded at cost. To determine easily as to what costs can be capitalized, the FERC defines the Components of Construction Cost as described in the following excerpts. For major utilities, the cost of construction properly includible in plant account shall include where applicable, the direct and overhead cost as listed below:

- Contract work
- Labor
- Materials and Supplies
- Transportation
- Special Machine Service
- Shop Service
- Protection
- Privileges and Permits
- Engineering and Supervision
- General Administration Capitalized
- Engineering Services
- Insurance
- Legal expenditures

CODES # REVISED # ADDED

- Allowance for Funds used during Construction
- Earnings and Expenses during Construction
- Training Costs
- Studies
- Overhead Construction Costs
- Contributions in the form of money or its equivalent toward the construction of plant shall be credited to the account charged (CWIP) with cost of Construction

All of the above costs are charged or debited to CWIP. When the project is completed and inspected, a memo from Engineering/Generations/T&D for (CIP projects) or copies of the completed work order documents must be forwarded to Plant Accounting as their basis of closing the work orders or job orders. Charges to CWIP will be transferred to appropriate Utility Plant in Service accounts based on the relative percentage of estimated cost initially computed by Engineering.

9.0 FUNDING

The projected revenues essentially determine the funding source at the start of every fiscal year as budgeted but not the proper accounting treatment, which is dictated by GAAP and FERC Rules. Proper treatment of expenditures as capital or expense items may also impact the rates that are charged to customers. Expenditures related to utility operations that are expensed generally are recovered from ratepayers in the current revenue requirement. Those expenditures that are capitalized as assets are recovered through its rates as the assets are depreciated.

- 9.1 Capital Expenditures
 - 9.1.1 Revenue Funds
 - 9.1.2 Construction Bond Funds
 - 9.1.3 Disbursements Operating Fund
 - 9.1.4 Surplus Fund

- 9.2 Maintenance Expenditures (a/c 500 series)
 - 9.2.1 Disbursement Operating Fund
 - 9.2.2 Revenue Funds
 - 9.2.3 FEMA Funds (catastrophic situations)

- 9.3 Activities Related to Retirements Assets
 - 9.3.1 Disbursement Operating Fund
 - 9.3.2 Revenue Funds

CODES # REVISED # ADDED

10.0 BUDGETING

- 10.1 Capital Expenditures - Refer to Capital Improvement Projects and General Plant requirement Planning & Budgeting System Procedures.
- 10.2 Maintenance and other Expenditures - Refer to Budget Policies and Procedures. Those charge to 500 account series.

**GUAM POWER AUTHORITY
ACCOUNT NUMBER AND PROPERTY UNITS
FOR USE IN IMPLEMENTING FIXED ASSETS SYSTEM**

ACCOUNT NO. & TITLE / PROPERTY UNIT NUMBER & DESCRIPTION

A. STEAM PRODUCTION PLANT

310 LAND AND LAND RIGHTS
265 LAND
267 LAND RIGHTS

311 STRUCTURES & IMPROVEMENTS
007 AIR CONDITIONING SYSTEM
080 CATHODIC PROTECTION SYSTEM
088 CHANNEL, INTAKE/DISCHARGE REINFORCE
133 CRANE COMPLETE W/ OPERATING MECHANISM
150 DRAINAGE AND SEWERAGE SYSTEM
165 ELEVATOR COMPLETE W/ OPERATING MECHANISM
172 EXCAVATION, TEST BORINGS, REFILL ETC.
195 FENCE (CHAIN LINK, CONCRETE ETC)
198 FIRE ESCAPE SYSTEM
200 FIRE PROTECTION SYSTEM
202 FLOOR COVERING, PERMANENTLY ATTACHED
205 FOUNDATION (EQUIPMENT) WHEN INCLUDABLE IN STRUCT.
220 GATES (IF SEPARATELY COSTED & IDENTIFIED)
230 GRADING & CLEARING (RELATED TO CONST. OF STRUCT).
266 LAND RECLAMATION AND DREDGING
270 LANDSCAPING, LAWNS, SHRUBBERY ETC.
270 LANDSCAPING
273 LIGHT AND POWER SYSTEM
313 OIL/WATER SEPARATOR
327 PAINTING, FIRST COST
335 PARKING LOT
337 PARTITIONS, INCLUDING MOVABLE
340 PAVING, CONCRETE, BRICK, ASPHALT ETC
345 PLATFORMS, RAILINGS & GRATINGS
350 PLUMBING SYSTEM
420 RETAINING WALL
422 ROOF, WITH OR WITHOUT SUPPORTING MEMBERS
442 SIDEWALKS, CULVERTS, CURBS & STREETS CONST.
452 SPRINKLING SYSTEM
460 STORAGE FACILITIES CONSTITUTING A PART OF A BUILDING
465 STRUCTURE, COMPLETE WITH OR W/OUT STACK
480 TANK, FUEL OIL STORAGE (TANK FARM)
480 TANK, STORAGE FOR AIRCONDITIONER
480 TANK, STORAGE FOR SLOP AND WASTE OIL
650 VENTILATING SYSTEM
665 WATER SUPPLY SYSTEM (PIPING, HYDRANTS & WELLS)
690 YARD LIGHTING SYSTEM

312 BOILER PLANT EQUIPMENT
010 AIR DUCT SYSTEM
014 AIR HEATER (AIR PREHEATER)
020 AUTOMATIC CONTROL INSTALLATION
040 BOILER, COMPLETE W/ FURNACE, DRUMS ETC.
045 BREECHING (FUEL) DUCT
140 DEAERATOR
143 DEMINERALIZER
160 ECONOMIZER
190 FAN, FORCED DRAFT

**GUAM POWER AUTHORITY
ACCOUNT NUMBER AND PROPERTY UNITS
FOR USE IN IMPLEMENTING FIXED ASSETS SYSTEM**

ACCOUNT NO. & TITLE / PROPERTY UNIT NUMBER & DESCRIPTION

205 FOUNDATION, BOILER WHEN INDEPENDENT OF STRUCT.
 210 FUEL BURNING EQUIPT (BURNER, GRATES, STOKERS)
 240 HEAT EXCHANGER
 243 HEATER
 245 HEATER, FEED WATER (MAIN OR STAGE)
 290 MASTER CONTROLLER INSTALLATION
 295 METER
 332 PANEL SECTION OF A SWITCH OR INST. BOARD
 343 PIPE, INTAKE OR DISCHARGE (WHEN NOT INCLUDIBLE IN STRUCT)
 343 PLANT PIPING 6" OR OVER IN SIZE W/W/OUT VALVES
 343 PIPING HEADER, 6" OR OVER IN SIZE
 385 PUMP
 385 PUMP
 385 PUMP
 407 RECORDING OR INDICATING DEVICE
 415 REGULATOR, FEEDWATER
 450 SOOT BLOWER SYSTEM
 455 STACK, WITH OR W/OUT FOUNDATION
 470 SUPERHEATER (WHEN SEPARATE FR BOILER)
 480 TANK (DAY TANK)
 480 TANK
 480 TANK
 600 TUNNEL, INTAKE OR DISCHARGE (WHEN NOT INCLUDIBLE IN STRUCT)
 663 WATER SOFTENER OR PURIFICATION SYSTEM
 672 WELL

314 TURBO-GENERATOR UNITS

010 AIR DUCT SYSTEM
 012 AIR EJECTOR APPARATUS FOR CONDENSER
 016 AIR WASHER
 108 CONDENSER
 110 CONDENSER TUBE PROTECTIVE SYSTEM (CHEMICAL, ELECTRIC ETC)
 123 COOLER
 123 COOLER
 125 COOLING TOWER
 170 EQUIPT. STARTING & TURNING
 175 EXCITER
 205 FOUNDATION, INDEPENDENT OF STRUCT.
 225 GENERATOR
 228 GOVERNOR CONTROL SYSTEM
 247 HYDROGEN COOLING SYSTEM (INCL STORAGE CYLINDER)
 255 INTAKE OR DISCHARGE, SCREEN & MECHANISM
 332 PANEL SECTION OF A SWITCH OR INST. BOARD
 343 PIPING HEADER, 6" OR OVER IN SIZE
 343 PLANT PIPING 6" OR OVER IN SIZE W/W/OUT VALVES
 387 PURIFIER OR FILTER
 390 PUMP (CIRCULATING, CONDENSATE ETC)
 407 RECORDING OR INDICATING DEVICE
 480 TANKS (CONDENSATE, TURBINE OIL ETC)
 480 TANK
 550 TRAVELING WATER SCREEN
 600 TUNNEL (CHANNEL) INTAKE OR DISCHARGE
 605 TURBINE

315 ACCESSORY ELECTRIC EQUIPMENT

**GUAM POWER AUTHORITY
ACCOUNT NUMBER AND PROPERTY UNITS
FOR USE IN IMPLEMENTING FIXED ASSETS SYSTEM**

ACCOUNT NO. & TITLE / PROPERTY UNIT NUMBER & DESCRIPTION

022 AUXILIARY CONTROL BOARD
035 BATTERY, STORAGE
035 BATTERY CHARGING SET
065 CABLE OR CONDUCTORS
093 CIRCUIT BREAKER
114 CONDUIT
118 CONTROL INSTALLATION
178 EXCITER CUBICLE REGULATOR
205 FOUNDATION, EQUIPMENT
233 GROUNDING SYSTEM
330 PANEL OR PANELS DEVOTED TO A SINGLE PURPOSE
440 SEQUENCE OF EVENTS RECORDER
477 SWITCHGEAR
503 TRANSFORMER (AUXILIARY ETC)
652 VOLTAGE REGULATOR SYSTEM

316 MISCELLANEOUS POWER PLANT EQUIPMENT

005 AIR COMPRESSOR
007 AIR CONDITIONING OR VENTILLATING SYSTEM
030 BARGE
095 COMMUNICATION SYSTEM
200 FIRE PROTECTION SYSTEM
260 LABORATORY EQUIPT (PRINCIPAL ITEM)
385 PUMPS, SUMP, DRAIN, MISC.
437 SECURITY SYSTEM
492 TOOLS, EACH PRINCIPAL ITEM

B. OTHER PRODUCTION PLANT

340 LAND AND LAND RIGHTS

265 LAND
267 LAND RIGHTS

341 STRUCTURES & IMPROVEMENTS

007 AIR CONDITIONING SYSTEM
133 CRANE COMPLETE W/ OPERATING MECHANISM
150 DRAINAGE AND SEWERAGE SYSTEM
195 FENCE (CHAIN LINK, CONCRETE ETC)
198 FIRE ESCAPE SYSTEM
200 FIRE PROTECTION SYSTEM
205 FOUNDATION (EQUIPMENT) WHEN INCLUDABLE IN STRUCT.
220 GATES (IF SEPARATELY COSTED & IDENTIFIED)
262 LADDERS, STEEL
266 LAND RECLAMATION AND DREDGING
270 LANDSCAPING
273 LIGHT AND POWER SYSTEM
335 PARKING LOT
340 PAVING
345 PLATFORMS, RAILINGS & GRATINGS
350 PLUMBING SYSTEM
465 STRUCTURE, COMPLETE WITH OR W/OUT STACK
650 VENTILATING SYSTEM
665 WATER SUPPLY SYSTEM
690 YARD LIGHTING SYSTEM

**GUAM POWER AUTHORITY
ACCOUNT NUMBER AND PROPERTY UNITS
FOR USE IN IMPLEMENTING FIXED ASSETS SYSTEM**

ACCOUNT NO. & TITLE / PROPERTY UNIT NUMBER & DESCRIPTION

342 FUEL HOLDERS, PRODUCERS & ACCESSORIES
 123 COOLER, OIL
 200 FIRE PROTECTION (OIL STORAGE TANK)
 205 FOUNDATION, OIL STORAGE TANK
 205 FOUNDATION, EQUIPMENT
 295 METER, FUEL OIL
 313 OIL/WATER SEPARATOR
 343 PIPING SYSTEM, FUEL OIL
 385 PUMP
 480 TANK, OIL STORAGE

343 PRIME MOVERS
 005 AIR COMPRESSOR & RECEIVER, PIPES, FTGS ETC
 143 DEMINERALIZER
 150 DRAINAGE SYSTEM (ACID/CAUSTIC AREA)
 168 ENGINES / TURBINE (INTERNAL COMBUSTION)
 200 FIRE PROTECTION SYSTEM (TURBINE)
 205 FOUNDATION, STACK
 205 FOUNDATION, ENGINE/TURBINE
 297 MUFFLER / SILENCER
 385 PUMP
 455 STACK, WITH OR W/OUT FOUNDATION
 480 TANKS, RAW WATER
 480 TANKS, DEMINERALIZED WATER

344 GENERATORS
 200 FIRE PROTECTION SYSTEM (GENERATOR)
 205 FOUNDATION (GENERATOR)
 225 GENERATOR
 285 LUBRICATING SYSTEM

345 ACCESSORY ELECTRIC EQUIPMENT
 035 BATTERY & BATTERY CHARGER
 070 CABLE / CABLE TRAYS
 093 CIRCUIT BREAKER
 120 CONTROL PANELS
 200 FIRE PROTECTION SYSTEM
 205 FOUNDATION, SWITCHGEAR
 205 FOUNDATION, CIRCUIT BREAKER
 205 FOUNDATION, TRANSFORMER
 233 GROUNDING SYSTEM
 477 SWITCHGEAR
 503 TRANSFORMER (AUXILIARY ETC)
 610 UNDERGROUND CONDUIT/DUCT LINES

346 MISCELLANEOUS POWER PLANT EQUIPMENT
 007 AIR CONDITIONING (WINDOW TYPE)
 030 BARGE
 095 COMMUNICATION SYSTEM
 200 FIRE PROTECTION SYSTEM (GENERAL USE)
 260 LABORATORY EQUIPT (PRINCIPAL ITEM)
 437 SECURITY SYSTEM
 492 TOOLS, EACH PRINCIPAL ITEM (LATHES, PLANERS ETC)
 667 WEATHER INDICATING DEVICES

**GUAM POWER AUTHORITY
ACCOUNT NUMBER AND PROPERTY UNITS
FOR USE IN IMPLEMENTING FIXED ASSETS SYSTEM**

ACCOUNT NO. & TITLE / PROPERTY UNIT NUMBER & DESCRIPTION

C. TRANSMISSION PLANT

350 LAND AND LAND RIGHTS
265 LAND
267 LAND RIGHTS

352 STRUCTURES & IMPROVEMENTS
007 AIR CONDITIONING SYSTEM
195 FENCE (CHAIN LINK, CONCRETE ETC)
205 FOUNDATION (EQUIPMENT) WHEN INCLUDABLE IN STRUCT.
205 FOUNDATION (BUILDING)
220 GATES (IF SEPARATELY COSTED & IDENTIFIED)
270 LANDSCAPING
335 PARKING LOT
340 PAVING
465 STRUCTURE/CONTROL HOUSE
650 VENTILATING SYSTEM
690 YARD LIGHTING SYSTEM

353 STATION EQUIPMENT
001 AC / DC PANEL
035 BATTERY/BATTERY CHARGING SET
035 BATTERY BANKS
047 BUS - WIRES, CABLES, INSULATORS ETC.
070 CABLES (TRAYS, RACEWAY)
075 CAPACITOR (COUPLING)
093 CIRCUIT BREAKER
114 CONDUIT, DUCT OR CABLE TRENCH
116 CONTROL CABLES
130 CPU AND ACCESSORIES
180 EYE WASH & WATER SUPPLY
205 FOUNDATION, (BREAKER, XMER)
275 LIGHTNING ARRESTER
280 LINE TRAP
282 LINE TUNER
295 METER (DEMAND, WATTHOUR ETC)
347 PLC CABINET
405 RECLOSER, OIL CIRCUIT
417 RELAY
417 RELAY CONTROL PANEL
425 RTU CABINET & EQUIPMENT
440 SEQUENCE OF EVENTS RECORDER
475 SWITCH, DISCONNECT, GROUP OPERATED
490 TESTING EQUIPMENT, SET OF
500 TRANSFORMER, POTENTIAL
501 TRANSFORMER, POWER (STATION TYPE)
615 UPS AND ACCESSORIES

354 TOWER & FIXTURES
495 TOWER, WITH/WITHOUT FOUNDATION

355 POLES & FIXTURES
207 FRAME, A OR H, W / W/OUT ASSOCIATED H/WARES
352 POLE, CONCRETE, 35 FT W / W/OUT ACCESSORIES
353 POLE, CONCRETE, 45 FT W / W/OUT ACCESSORIES

**GUAM POWER AUTHORITY
ACCOUNT NUMBER AND PROPERTY UNITS
FOR USE IN IMPLEMENTING FIXED ASSETS SYSTEM**

ACCOUNT NO. & TITLE / PROPERTY UNIT NUMBER & DESCRIPTION

355 POLE, CONCRETE, 55 FT W / W/OUT ACCESSORIES
357 POLE, STEEL, 35 FT W / W/OUT ACCESSORIES
359 POLE, STEEL, 45 FT W / W/OUT ACCESSORIES
361 POLE, STEEL, 55 FT W / W/OUT ACCESSORIES
363 POLE, WOOD, 35 FT W / W/OUT ACCESSORIES
365 POLE, WOOD, 45 FT W / W/OUT ACCESSORIES
367 POLE, WOOD, 55 FT W / W/OUT ACCESSORIES

356 OVERHEAD CONDUCTORS & DEVICES

075 CAPACITOR
112 CONDUCTOR, TWO CONTINUOUS SPANS OF 1 CIRCUIT
370 POLE TOP SWITCH
675 WIRE, STATIC

357 UNDERGROUND CONDUIT

114 CONDUIT (BETWEEN 2 M/HOLES, BETWEEN M/HOLES & A POLE)
287 MANHOLE, SPLICING CHAMBER OR VAULT
600 TUNNEL
650 VENTILLATING EQUIPMENT, COMPLETE INSTALLATION

358 UNDERGROUND CONDUCTORS & DEVICES

063 CABLE, (BURIED) SECTION OF CABLE BET.2 TERMINI POINTS
067 CABLE (IN CONDUIT) CIRCUIT BET. 2 M/HOLES OR M/HOLE & POLE
275 LIGHTNING ARRESTER, SET OF
278 LINE SWITCHES, SET OF
387 PUMP HOUSE, COMPLETE STRUCTURE (OIL FILLED CABLES)
393 PUMPING EQUIPMENT, STORAGE TANK ETC.
487 TERMINATOR

D. DISTRIBUTION PLANT

360 LAND & LAND RIGHTS

265 LAND
267 LAND RIGHTS

361 STRUCTURES & IMPROVEMENTS

195 FENCE (CHAIN LINK, CONCRETE ETC)
205 FOUNDATION (EQUIPMENT) WHEN INCLUDABLE IN STRUCT.
205 FOUNDATION (BUILDING)
220 GATES (IF SEPARATELY COSTED & IDENTIFIED)
270 LANDSCAPING
335 PARKING LOT
340 PAVING
465 STRUCTURE/CONTROL HOUSE
650 VENTILATING SYSTEM
690 YARD LIGHTING SYSTEM

362 STATION EQUIPMENT

001 AC / DC PANEL
035 BATTERY/BATTERY CHARING SET
035 BATTERY BANKS
047 BUS - WIRES, CABLES, INSULATORS ETC.
070 CABLES (TRAYS, RACEWAY)
075 CAPACITOR (COUPLING)
093 CIRCUIT BREAKER

**GUAM POWER AUTHORITY
ACCOUNT NUMBER AND PROPERTY UNITS
FOR USE IN IMPLEMENTING FIXED ASSETS SYSTEM**

ACCOUNT NO. & TITLE /	PROPERTY UNIT NUMBER & DESCRIPTION
114	CONDUIT, DUCT OR CABLE TRENCH
116	CONTROL CABLES
180	EYE WASH & WATER SUPPLY
205	FOUNDATION, (BREAKER, XMER)
275	LIGHTNING ARRESTER
280	LINE TRAP
282	LINE TUNER
295	METER (DEMAND, WATTHOUR ETC)
405	RECLOSER, OIL CIRCUIT
417	RELAY
417	RELAY CONTROL PANEL
475	SWITCH, DISCONNECT, GROUP OPERATED
477	SWITCHGEAR
490	TESTING EQUIPMENT, SET OF
500	TRANSFORMER, POTENTIAL
501	TRANSFORMER, POWER (STATION TYPE)
364	POLES, TOWERS & FIXTURES
207	FRAME, A OR H, W / W/OUT ASSOCIATED XARMS
352	POLE, CONCRETE, 35 FT W / W/OUT ACCESSORIES
353	POLE, CONCRETE, 45 FT W / W/OUT ACCESSORIES
355	POLE, CONCRETE, 55 FT W / W/OUT ACCESSORIES
357	POLE, STEEL, 35 FT W / W/OUT ACCESSORIES
359	POLE, STEEL, 45 FT W / W/OUT ACCESSORIES
361	POLE, STEEL, 55 FT W / W/OUT ACCESSORIES
363	POLE, WOOD, 35 FT W / W/OUT ACCESSORIES
365	POLE, WOOD, 45 FT W / W/OUT ACCESSORIES
367	POLE, WOOD, 55 FT W / W/OUT ACCESSORIES
495	TOWER, WITH/WITHOUT FOUNDATION
365	OVERHEAD CONDUCTORS & DEVICES
075	CAPACITOR
112	CONDUCTOR, TWO CONTINUOUS SPANS OF 1 CIRCUIT
366	UNDERGROUND CONDUIT
114	CONDUIT (BETWEEN 2 M/HOLES, BETWEEN M/HOLES & A POLE)
287	MANHOLE, SPLICING CHAMBER OR VAULT
600	TUNNEL
650	VENTILLATING EQUIPMENT (COMPLETE INSTALLATION)
367	UNDERGROUND CONDUCTORS & DEVICES
063	CABLE, (BURIED) SECTION OF CABLE BET.2 TERMINI POINTS
067	CABLE (IN CONDUIT) CIRCUIT BET. 2 M/HOLES OR M/HOLE & POLE
275	LIGHTNING ARRESTER, SET OF
278	LINE SWITCHES, SET OF
387	PUMP HOUSE, COMPLETE STRUCTURE (OIL FILLED CABLES)
393	PUMPING EQUIPMENT, STORAGE TANK ETC.
487	TERMINATOR
368	LINE TRANSFORMERS
075	CAPACITOR / CAPACITOR BANK
504	TRANSFORMERS, PAD MTD, 10 KVA
505	TRANSFORMERS, PAD MTD, 100 KVA
506	TRANSFORMERS, PAD MTD, 1000 KVA
507	TRANSFORMERS, PAD MTD, 112.5 KVA

GUAM POWER AUTHORITY
ACCOUNT NUMBER AND PROPERTY UNITS
FOR USE IN IMPLEMENTING FIXED ASSETS SYSTEM

ACCOUNT NO. & TITLE / PROPERTY UNIT NUMBER & DESCRIPTION

508 TRANSFORMERS, PAD MTD, 125 KVA
 509 TRANSFORMERS, PAD MTD, 15 KVA
 510 TRANSFORMERS, PAD MTD, 150 KVA
 511 TRANSFORMERS, PAD MTD, 1500 KVA
 512 TRANSFORMERS, PAD MTD, 167 KVA
 513 TRANSFORMERS, PAD MTD, 2000 KVA
 514 TRANSFORMERS, PAD MTD, 225 KVA
 515 TRANSFORMERS, PAD MTD, 25 KVA
 516 TRANSFORMERS, PAD MTD, 250 KVA
 517 TRANSFORMERS, PAD MTD, 300 KVA
 518 TRANSFORMERS, PAD MTD, 333 KVA
 519 TRANSFORMERS, PAD MTD, 37.5 KVA
 520 TRANSFORMERS, PAD MTD, 45 KVA
 521 TRANSFORMERS, PAD MTD, 50 KVA
 522 TRANSFORMERS, PAD MTD, 500 KVA
 523 TRANSFORMERS, PAD MTD, 75 KVA
 524 TRANSFORMERS, PAD MTD, 750 KVA
 526 TRANSFORMERS, POLE MTD, 10 KVA
 527 TRANSFORMERS, POLE MTD, 100 KVA
 528 TRANSFORMERS, POLE MTD, 1000 KVA
 530 TRANSFORMERS, POLE MTD, 112.5 KVA
 531 TRANSFORMERS, POLE MTD, 125 KVA
 532 TRANSFORMERS, POLE MTD, 15 KVA
 533 TRANSFORMERS, POLE MTD, 150 KVA
 534 TRANSFORMERS, POLE MTD, 1500 KVA
 535 TRANSFORMERS, POLE MTD, 167 KVA
 536 TRANSFORMERS, POLE MTD, 2000 KVA
 537 TRANSFORMERS, POLE MTD, 225 KVA
 538 TRANSFORMERS, POLE MTD, 25 KVA
 539 TRANSFORMERS, POLE MTD, 250 KVA
 540 TRANSFORMERS, POLE MTD, 300 KVA
 541 TRANSFORMERS, POLE MTD, 333 KVA
 542 TRANSFORMERS, POLE MTD, 37.5 KVA
 543 TRANSFORMERS, POLE MTD, 45 KVA
 545 TRANSFORMERS, POLE MTD, 50 KVA
 546 TRANSFORMERS, POLE MTD, 500 KVA
 547 TRANSFORMERS, POLE MTD, 75 KVA
 548 TRANSFORMERS, POLE MTD, 750 KVA

369 SERVICES

315 OVERHEAD SERVICE
 612 UNDERGROUND SERVICE W/ W/OUT DUCT

370 METERS

295 METER, WATTHOUR, NETWORK (N/W), NON-DEMAND
 295 METER, WATTHOUR, SINGLE PHASE, NON-DEMAND
 295 METER, CURRENT TRANSFORMER
 295 METER, METERING OUTFIT (FOR LARGE CUSTOMER)
 295 METER, WATTHOUR, SINGLE PHASE, DEMAND
 295 METER, WATTHOUR, NETWORK (N/W), DEMAND
 295 METER, WATTHOUR, THREE PHASE, NON-DEMAND
 295 METER, WATTHOUR, THREE PHASE, DEMAND
 378 POTENTIAL TRANSFORMER
 500 TRANSFORMER, POTENTIAL

**GUAM POWER AUTHORITY
ACCOUNT NUMBER AND PROPERTY UNITS
FOR USE IN IMPLEMENTING FIXED ASSETS SYSTEM**

ACCOUNT NO. & TITLE / PROPERTY UNIT NUMBER & DESCRIPTION

373 ST. LIGHTING SYSTEM
376 POST, STANDARD OR BRACKET W/W/OUT LUMINAIRE OR LAMP FIXTURE

E. GENERAL PLANT

389 LAND & LAND RIGHTS
265 LAND
267 LAND RIGHTS

390 STRUCTURES & IMPROVEMENTS
007 AIR CONDITIONING SYSTEM
150 DRAINAGE AND SEWERAGE SYSTEM
163 ELEVATOR
195 FENCE (CHAIN LINK, CONCRETE ETC)
198 FIRE ESCAPE SYSTEM
200 FIRE PROTECTION SYSTEM
205 FOUNDATION, BUILDING
220 GATES (IF SEPARATELY COSTED & IDENTIFIED)
262 LADDERS, STEEL
270 LANDSCAPING
273 LIGHT AND POWER SYSTEM
335 PARKING LOT
340 PAVING
345 PLATFORMS, RAILINGS & GRATINGS
350 PLUMBING SYSTEM
465 STRUCTURE
650 VENTILATING SYSTEM
665 WATER SUPPLY SYSTEM
690 YARD LIGHTING SYSTEM

391 OFFICE FURNITURE & EQUIPMENT
003 ADDING AND CALCULATING MACHINE
042 BOOKCASE
060 CABINET
085 CHAIR
090 CHECK SIGNING MACHINE
101 COMPUTER, CENTRAL PROCESSING UNIT (CPU)
102 COMPUTER, KEYBOARD
103 COMPUTER, MONITOR
104 COMPUTER, PRINTER
145 DESK
146 DP EQUIPMENT, DISPLAY STATIONS
146 DP EQUIPMENT, CONTROL UNIT DISPLAY STATION
146 DP EQUIPMENT, DIRECT ACCESS STORAGE CONTROLLER
146 DP EQUIPMENT, DISPLAY CONSOLE
146 DP EQUIPMENT, PRINT CHAIN
146 DP EQUIPMENT, TAPE CONTROL UNIT
146 DP EQUIPMENT, CONTROL UNIT
146 DP EQUIPMENT, DISPLAY PRINTER
146 DP EQUIPMENT, INFO WINDOWS
146 DP EQUIPMENT, DIRECT ACCESS STORAGE DEVICES
146 DP EQUIPMENT, PROCESSOR
146 DP EQUIPMENT, TERMINAL MULTIPLEXER
146 DP EQUIPMENT, LINE PRINTER
146 DP EQUIPMENT, RACK ENCLOSURE

GUAM POWER AUTHORITY
ACCOUNT NUMBER AND PROPERTY UNITS
FOR USE IN IMPLEMENTING FIXED ASSETS SYSTEM

ACCOUNT NO. & TITLE / PROPERTY UNIT NUMBER & DESCRIPTION

146 DP EQUIPMENT, MODEM
146 DP EQUIPMENT, MAG TAPE UNIT
152 DUPLICATING (XEROX) MACHINE
192 FAX MACHINE
295 METER READING DEVICE
435 SAFE
445 SOFA OR LOUNGE
447 SOFTWARE, IF RELATIVELY COSTLY
479 TABLE
607 TYPEWRITER
620 VAULT

392 TRANSPORTATION EQUIPMENT

497 TRAILER
630 VEHICLE, FORKLIFT
631 VEHICLE, LOADER
632 VEHICLE, PASSENGER, CAR
633 VEHICLE, PASSENGER, JEEP
634 VEHICLE, PASSENGER, STATION WAGON
635 VEHICLE, TRUCK, AERIAL/BUCKET
636 VEHICLE, TRUCK, BUS
637 VEHICLE, TRUCK, FLATBED
638 VEHICLE, TRUCK, STAKE
639 VEHICLE, TRUCK, TRACTOR
640 VEHICLE, TRUCK, UTILITY
641 VEHICLE, VANS
642 VEHICLE, TRUCK, CRANE
643 VEHICLE TRUCK, DERRICK
644 VEHICLE TRUCK, DIGGERS
645 VEHICLE TRUCK, PICKUP

393 STORES EQUIPMENT

127 COUNTER SHELVING BINS OR RACK
133 CRANE, HOIST OR CHAINFALL
374 PORTABLE ELEVATING AND STACKING EQUIPT.
552 TRUCK, HAND

394 TOOLS, SHOP & GARAGE EQUIPMENT

035 BATTERY CHARGING SET
078 CAR LIFT
083 CHAIN SAW IF RELATIVELY COSTLY
100 COMPRESSOR
106 CONCRETE MIXER
292 MECHANICS TOOLS IF RELATIVELY COSTLY
372 PORTABLE DIGGER/RAMMER
380 POWER DRIVEN GREASING MACHINE
385 PUMPS, GASOLINE OR OIL
410 REEL CARRIER / REELSTAND
473 SURVEYING EQUIPMENT
660 WATER BLASTER
670 WELDING MACHINE

395 LABORATORY EQUIPMENT

018 AMMETER
227 GLOVE TESTING MACHINE

GUAM POWER AUTHORITY
ACCOUNT NUMBER AND PROPERTY UNITS
FOR USE IN IMPLEMENTING FIXED ASSETS SYSTEM

ACCOUNT NO. & TITLE / PROPERTY UNIT NUMBER & DESCRIPTION

295 METER TESTING EQUIPMENT
 310 OHMMETER
 490 TEST EQUIPMENT FOR TRANSFORMER
 490 TEST EQUIPT FOR SUBSTATION EQUIPT.
 654 VOLTMETER

 397 COMMUNICATION EQUIPMENT
 033 BASE STATION
 325 PAGER/BEEPER
 400 RADIOS, PORTABLE
 400 RADIOS, MOBILE
 483 TELEPHONE, CELLULAR

 398 MISCELLANEOUS EQUIPMENT
 007 AIRCONDITIONING, (WINDOW TYPE)
 037 BILLBOARD
 073 CAMERA / VIDEO CAMERA
 382 PROJECTOR
 REFRIGERATOR
 CONTAINER FOR FILES

 62 S
 485 TELEVISION
 625 VCR
 657 WASHER / DRYER