

**GOVERNMENT OF PUERTO RICO
PUBLIC SERVICE REGULATORY BOARD
PUERTO RICO ENERGY BUREAU**

NEPR

Received:

Jun 2, 2023

12:00 PM

IN RE:

REVIEW OF LUMA'S INITIAL
BUDGET

CASE NO.: NEPR-MI-2021-0004

SUBJECT: Motion Submitting Responses to
ROIs in Compliance with May 23 Order

**MOTION SUBMITTING RESPONSES TO REQUEST FOR INFORMATION IN
COMPLIANCE WITH MAY 23 ORDER**

TO THE HONORABLE PUERTO RICO ENERGY BUREAU:

COMES NOW GENERA PR LLC ("Genera PR"), and respectfully state and request the following:

1. On May 23, 2023, the Energy Bureau of the Puerto Rico Public Service Regulatory Board ("Energy Bureau") issued a Resolution and Order with the subject *Second Requirement of Information* ("ROI") - *Review of LUMA's Proposed Consolidated FY2024 Budgets*. ("May 23 Order"). In its pertinent part, this Energy Bureau ordered LUMA, Genera PR, and PREPA to respond to a Second Requirement of Information ("ROI").

2. The ROIs were detailed in Attachments A and Attachment B to the May 23 Order and seeks additional information information regarding the Proposed Consolidated FY2024 Budgets.

3. In accordance with the stipulations of the May 23 Order, Genera PR herein submits its responses to the items outlined in Attachment A and Attachment B of the Requests for Information (ROIs) directed towards Genera PR, duly included as *Exhibit I*.

4. Notwithstanding, Genera PR will be filing a request for extension of time to submit response 51, 57 and 60 of Attachment A.

WHEREFORE, Genera PR respectfully requests that the Energy Bureau **take notice** of Genera PR's response to the May 23 Order and deems that Genera PR is in compliance with the May 23 Order.

RESPECTFULLY SUBMITTED.

In San Juan, Puerto Rico, this 2nd day of June 2023.

We hereby certify that this motion was filed with the Office of the Clerk of the Energy Bureau using its Electronic Filing System at <https://radicacion.energia.pr.gov/login>.

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s/ Jorge Fernández-Reboredo

Jorge Fernández-Reboredo

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s/ Alejandro López-Rodríguez

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CERTIFICATE OF SERVICE

We hereby certify that a true and accurate copy of this motion was filed with the Office of the Clerk of the Energy Bureau using its Electronic Filing System and that we will send an electronic copy of this motion to Joannely Marrero-Cruz, at jmarrero@diazvaz.law; Maralíz Vázquez-Marrero, at mvazquez@diazvaz.law; Margarita Mercado Echegaray, at margarita.mercado@us.dlapiper.com; and Ana Margarita Rodríguez Rivera, at ana.rodriguezrivera@us.dlapiper.com,

In San Juan, Puerto Rico, this 2nd day of June 2023

s/ Jorge Fernández-Reboredo
Jorge Fernández-Reboredo

Exhibit I

Genera PR's responses to PREB's 2nd ROI

Response to GenCo ROIs in compliance with May 23, 2023 Order

Revised Genera's revision to the GenCo FY2024 Budget included as Annex A-1 (*GeneraPR FY2024 Revised Budget Model Post-P3A Allocation - for PREB - 5.31.2023.xls*).

38. Please provide an explanation and justification for the \$21.66 million Materials and Supplies budget, particularly since GENERA is projecting reduced GenCo employee headcounts.

GPR – PREB ROI 2 – 05-23 #38 – The materials and supplies budget presented to Genera by PREPA in the original GenCo budget was \$25.4mm. The Genera operations team reviewed the details of the material and supplies and removed all noncritical items. That independent review reduced the line item by approximately \$3.0mm to \$21.6mm. Genera continues working with PREPA to review the critical materials and supplies compared to the existing inventory. The budgeted amount is the best estimate currently. Genera does not see a correlation between the critical materials and supplies needed to operate the LGA and the employee headcount.

39. What controls and fiscal processes does GENERA/GenCo propose to implement to comply with the budgeted expenditure amounts?

GPR – PREB ROI 2 – 05-23 #39 – The controls being implemented include:

- a. Unused directorate and responsibility codes have been assigned to GenCo in both Oracle EBS and Asset Suite so that all new Genco transactions from commencement onward will be separated from other PREPA transactions, providing transparency to Genera's finance reviewers.
- b. Genera will implement a restricted delegation of authority (DOA) in Asset Suite to include a limited number of senior management, that will be responsible for reviewing all purchase requisitions for GenCo to confirm that requisitions have been included in the FY2024 budget and are within budgeted amounts. Genera is currently working with LUMA to set this up.

- c. Genera is currently reviewing the existing directorate and responsibility codes with PREPA and LUMA to determine how to change the existing DOA so that Genera management can approve any changes or amendments to contracts that exist at cut-over post-commencement.
- d. Genera has requested the list of all open POs/Contracts that exist in the system from LUMA and will work with PREPA to align on those open transactions that are GenCo-specific for proper monitoring, payment, and reporting post-commencement.
- e. Genera, with LUMA treasury and PREPA, will prepare a cash reconciliation of the GenCo service accounts in advance of commencement to agree on the beginning cash balances.
- f. Genera will work with PREPA to prepare the reconciliation of open transactions at the time of commencement compared to cash balances to confirm transactions from FY2023 are properly funded.
- g. Genera has limited the authorized signature for its service accounts to its CEO only. All disbursements will be summarized and include reference to the budgeted amounts for approval.
- h. Genera has been reviewing critical material and supplies as detailed in the pre-mobilization checklist.
- i. Genera has implemented monthly budget to actual templates to distribute to all department heads to monitor closely monitor individual spend and to better predict the timing of cash outflows.

40. Please provide an explanation and justification for the proposed GenCo Security costs. Does GENERA consider the use of security technology such as cameras, drones, and gates with access card readers among others instead of adding more security personnel at the Generation facilities?

GPR – PREB ROI 2 – 05-23 #40 – PREPA provided the proposed security costs. Genera reviewed the detail and agrees with the assessment of costs projected for FY2024. See <<Corp Resp_627 (Security)>> tab.

41. Please provide an explanation and justification for Materials and Supplies expenditures, and the increment of almost \$7 MM for this budget item when GENERA projects lower the headcount.

GPR – PREB ROI 2 – 05-23 #41 – Genera's revised budget for Materials and Supplies expenses does not account for the mentioned increase.

42. For Utilities and Rents, why has this cost increased six-fold? Were PREPA's current properties and other assets inventory considered before establishing the rental budget? What type of utilities or rentals are considered to justify this cost increment?

GPR – PREB ROI 2 – 05-23 #42 – Genera's revised budget for Utilities and Rent expenses does not account for the mentioned increase.

43. Were the legal services integrated like an outsourcing activity or any other budget item? How was the GenCo budget for legal services determined?

GPR – PREB ROI 2 – 05-23 #43 – Refer to response GPR – PREB ROI 2 – 05-23 #44 provided below.

44. For Professional and Technical Outsourced Services, is this increase in budget justified by lowering the company professional headcount? Is the goal to rely more on outsourced instead of internal company services? Please provide a list of services anticipated to be provided for this budget category.

GPR – PREB ROI 2 – 05-23 #44 – The increase in Professional and Outsourced Services is driven by several factors, including:

- a. The need to augment Genera's internal teams during year one to meet contractual obligations under the OMA. This can include professional advisors or subcontractors to support IT services, legal, financial reporting and controls, or regulatory compliance.
- b. Augmenting our internal teams for non-recurring events or requirements. This can include review and design of standalone Information Technology systems, design of process transformation to

maximize long-term efficiency, Rate Case Advisory services, safety, or environmental support services.

c. Service providers to permanently support our operations, for example, for Environmental Advisors and Services required under the consent decree and with public communications.

Genera's long-term goal is to continue to assess whether professional and technical outsourcing services provide resources or expertise that Genera does not have internally or is the more efficient way to fulfill an obligation, request, project, etc.

The list of Services supporting this budget category can be found on the <<Consolidated>> Tab. The Professional and Technical Outsourced Services tab is now linked to the Supporting list.

45. For the GenCo IT budget, is the purpose of this significant increase to add or to replace obsolete equipment? What are the justifications and the benefits related to the planned expenditures? Will GENERA submit a comprehensive O&M program including repairs, inspections, and equipment replacement?

GPR – PREB ROI 2 – 05-23 #45 – The increase in the Genera IT budget is driven by license fees that Genera will assume as it takes over administration and operation of systems and applications and costs to be incurred with the set-up of standalone Information Technology systems for the LGA and support functions.

46. For NME expenditures, how will these expenses be distributed after the amount is doubled in PREPA proposed budget, compared to previously approved budgets? What factors justify this increase? Estimates provided/linked in formula. NME is included in this exercise.

GPR – PREB ROI 2 – 05-23 #46 – The certified FY2023 NME budget for GenCo is \$96mm. PREPA submitted a proposed budget for GenCo for FY2024 that amounted to \$227mm, not Genera. Genera reviewed the projects and expenses and suggested reducing PREPA's proposed budget for GenCo for FY2024 to \$84mm. Therefore, there is no duplication of budget in Genera's revision of PREPA's GenCo NME proposal. Genera's revision represents a decrease from last year's budget.

47. Please provide a detailed listing of NME projects comprising the proposed NME budget of \$84.84 million.

GPR – PREB ROI 2 – 05-23 #47 – In compliance with the Resolution and Order dated May 18, 2023, LUMA submitted information on May 22, 2023, including the detailed list of NME projects. This list is part of the NME budget totaling \$84.84 mm and can be found in Exhibit 1, specifically in the <<Genera NME Inc in Budget>> tab of the *PREB – GeneraPR FY2024 Revised Budget Model Post-P3A Allocation 5.22.2023.xlsx* file.

48. Please reconcile the projects in the proposed NME budget totaling \$84.841 million, with the projects comprising the estimated NME budget of \$134,074,955 in the worksheet tab NME Pivot in worksheet entitled "GENERA PR FY2024 Revised Budget Model.xlsx", and with the PREPA proposed NME budget totaling \$227.397 million. In this reconciliation identify which activities fall under (1) mandatory environmental outages, (2) preventive maintenance, (3) corrective maintenance, and (4) predictive maintenance.

- a. Knowing that the current lack of adequacy of supply places the system at a high risk of having to load shed and interrupt customers to prevent a system collapse during a contingency, describe those efforts undertaken by Genera to seek waivers to allow the temporary operation of environmentally noncompliant generation while the generation fleet is stabilized with the assistance of the temporary emergency generation commissioned by FEMA.

GPR – PREB ROI 2 – 05-23 #48 – Genera has included a tab to its budget workbook called <<NME Summary>>. The summary bridges the three supporting NME tabs.

(\$-thousands)

NME Bridge	As per PREPA:	As per GeneraPR:
NME Included in Budget	\$ 98,690	\$ 84,841
NME Not Included in Budget	\$ 114,517	\$ 49,234
Federally Funded NME	\$ 14,190	\$ 1,419
	\$ 227,397	\$ 135,494

49. In completing the reconciliation of NME budget forecasts, please explain the process and review procedures and activities completed by GENERA in determining its proposed NME budget. Please explain NME projects that will not be funded under the proposed NME budget and an assessment of the impact of not funding such projects. Identify those activities primarily targeting increases in plant (1) availability and (2) efficiency.

GPR – PREB ROI 2 – 05-23 #49 – In reviewing the NME budget forecasts, Genera prioritized projects as follows:

1. Safety
2. Environmental
3. Availability
4. Reliability
5. Efficiency
6. Output
7. Cost/benefit
8. Lifetime extension (until PREB-ordered retirement)
9. Housekeeping

Genera reviewed the NME projects in the budget forecasts with power plant personnel (plant managers, maintenance staff, operations staff, EH&S staff), technical services personnel (outage planning, reliability), purchasing personnel, finance personnel, OEMs, and contractors.

Genera added a column to the tab titled <<Genera Additional NME>> called <<GPR – PREB ROI 2 – 05-23 #49>>. The new column includes an explanation for not funding the projects regarding plant availability and efficiency.

50. For each proposed NME project over \$1 million, please provide a project schedule including engineering, procurement and construction/installation, and description of lead times needed to facilitate equipment procurement. For projects and equipment requirements with lead-times over 2 months, describe what activities have been completed, and a description of remaining procurement activities and a schedule for completing such activities.

GPR – PREB ROI 2 – 05-23 #50 – Attached.

51. Please provide a description, including project status and actual expenditures, for each NME project approved by the Energy Bureau for the FY2022/2023 budget. In developing this description, for any projects deferred, delayed or cancelled, explain the reasons for this deferral, delay or cancellation, and for projects deferred or delayed, please explain how completion of that project is reflected in the proposed FY2023/2024 proposed NME budget.

GPR – PREB ROI 2 – 05-23 #51 – Please find the attached report from PREPA. Genera is in regular communication with PREPA to ensure that the recent changes have not affected the NME projects and outage schedule that Genera will be executing. Genera will provide further updates on or before Monday, January 7, 2023.

52. Please explain how the proposed NME budget considers and takes advantage of expected short-term emergency generation under development on the island under FEMA approval and funding.

GPR – PREB ROI 2 – 05-23 #52 – According to FEMA, the short-term emergency generation currently has a capacity of 350 MW but will only be synchronized with the system until the end of 2023. While this additional capacity and timeframe will allow for scheduled maintenance of certain LGA systems, it falls short of providing the necessary 750 MW reserve for the system or replacing the LGA. To address this, increasing the temporary generation to 700 MW with additional funding would be optimal. This would enable Genera to carry out the NME projects listed in the <<Genera Additional NME>> tab.

53. Please define "critical NME" expenditures and provide an explanation and quantification of the impact on generation plant availability from not funding "noncritical" NME expenditures.

GPR – PREB ROI 2 – 05-23 #53 – Critical NME expenditures are needed for safety, environmental compliance, availability and reliability of the LGA. In addition, expenses were considered to improve efficiency and power output. Genera added a column to the <<Genera Additional NME>> tab called "Genera Assessment of Impact for not Funding." The new column includes an explanation for not funding the projects regarding plant availability and efficiency.

54. Please provide a head count and salary breakdown for GenCo employees in the proposed budget, including a comparison to similar data in the approved FY2023 budget. In this breakdown, provide separate analyses for generation plant employees and for other employment categories across Genco functions.

GPR – PREB ROI 2 – 05-23 #54 – Genera has added a support schedule to the FY2024 budget workbook called <<Labor Analysis to FY23>>. The analysis we performed to support our labor budget of \$81.5mm was a comparison to the FY2023 annualized actuals, as reported in the December budget to actual analysis. The analysis includes:

- a. A comparison of labor costs from PREPA's 2023 roster to our mandatory employees (HC of 802). Salaries and wages increased for all departments and the structure of our compensation is different. We will implement 40hr work week (total of 2,080 hours per annum) compared to PREPA's 37.5hr work week, this is largely offset by a reduction in overtime we expect to achieve when operating this way.
- b. Other employees were compared to the Genera team org design based on pre-mobilization assessment. Genera believes year-one labor costs will be consistent with the year-over-year actual results. Labor cost reduction in subsequent years will be the outcome of process and system changes to ensure long-term stability and better efficiencies.

55. Please summarize GENERA's review PREPA's labor costs and comparison of those costs to its assessment of critical roles for operations and support functions, including cost reductions identified by GENERA based on its current evaluation of open positions.

GPR – PREB ROI 2 – 05-23 #55 – See the response to GPR – PREB ROI 2 – 05-23 #54 provided above.

56. Please summarize all other assessments of proposed PREPA costs completed by GENERA during its development of the proposed GenCo budget.

GPR – PREB ROI 2 – 05-23 #56 – All assessments are summarized in the “Commentary” Column (Column J) of the <<FY24 Final Budget>> tab.

58. Explain and identify where the Energy Bureau's directive regarding development of a preventive maintenance program for PREPA's generation portfolio, including the impact of both non-federally funded and federally funded spending initiatives is reflected in the preventive maintenance program.

GPR – PREB ROI 2 – 05-23 #58 – The preventive maintenance program requested by PREB is currently under development as part of the Mobilization Services assessments and planning that Genera makes. As part of this process, Genera is actively working to create a comprehensive maintenance program. However, in the interim, there are additional temporary energy resources available that will provide sufficient time to further refine and enhance the maintenance program.

59. Please provide the preventive maintenance program directed by the Energy Bureau to be included in the FY2024 budgets.

GPR – PREB ROI 2 – 05-23 #59 – Refer to the response GPR – PREB ROI 2 – 05-23 #58 provided above.

61. Please reconcile GenCo federal funding cash flow projections for the FY2024, including expected monthly expenditures for federally funded projects, expected FEMA advancements, expected funding advancements from COR3/AFAAF and FEMA's Working Capital Advance (WCAJ program, and monthly expected balances of federal funding reserve accounts. Within this reconciliation, please list anticipated federal cost-shares and funding source for those cost shares. Please complete this reconciliation separately for 428, 406, and CDBG funding sources/project categories. This reconciliation should cover both FY2023 actual spending and FY2024 forecast spending.

GPR – PREB ROI 2 – 05-23 #61 – PREB has requested a plan in this ROI as part of Genera's Mobilization Period strategies and workstreams. The plan is currently under development, and Genera is regularly meeting with COR3 to better understand the necessary processes for these programs. After completing the assessment, Genera will present the response to PREB.

62. For federal-funding reimbursements received by PREPA during FY2022, and FY2023, please provide a listing of sources of funds used by PREPA to pay for initial costs of projects that have received FEMA reimbursement and/or advance payments, and a reconciliation of any excess cash available.

GPR – PREB ROI 2 – 05-23 #62 – This information is maintained and kept by PREPA. Genera has coordinated with PREPA and they will submit the response.

90. How and where are the orders of the Energy Bureau in the February 27 Resolution, as summarized in Table 1 below, incorporated in the FY 2024 Proposed Budgets?

(a) GENERA to develop an NME plan for FY 2024 that takes effective advantage of FEMA's temporary emergency generation arising from LUMA's Generation Stabilization Plan and prioritizes NME of baseload generation.

(b) GENERA to develop a preventive maintenance program for its generation portfolio and base future NME budgets on such a program.

GPR – PREB ROI 2 – 05-23 #90 –

a. See the response to GPR – PREB ROI 2 – 05-23 #52 provided above

b. See the response to GPR – PREB ROI 2 – 05-23 #58 provided above

Responses to Annex B are provided in **GPR – PREB ROI 2 – 05-23 Annex B**.

ID	Task Mode	Task Name	Duration	Start	Finish	Half 2, 2022				Half 1, 2023			Half 2, 2023			Half 1, 2024			Half 2, 2024	
						M	J	S	N	J	M	M	J	S	N	J	M	M	J	S
1	👉	Aguirre U. 1 Environmental Maintenance Project	115 days	Mon 7/3/23	Fri 12/8/23															
2	👉	Engineering and Administrative Planning for Environmental Maintenance Project	30 days	Mon 7/3/23	Fri 8/11/23															
3	👉	Procurement & Contract Process of Materials, Parts and Services for Environmental Maintenance Project	75 days	Fri 7/14/23	Thu 10/26/23															
4	👉	Environmental Maintenance Project - Execution	35 days	Mon 10/23/23	Fri 12/8/23															
5	👉	a) Contractors' Mobilization Period (Scaffolding Installation, Boiler High Pressure Wash, Interior Dry-Cleaning, Condenser High Pressure Wash, NDE Tests, Refractory and Insullation Work, etc...)	10 days	Mon 10/23/23	Fri 11/3/23															
6	👉	b) Boiler High Pressure Wash	10 days	Tue 11/7/23	Mon 11/20/23															
7	👉	c) Condenser High Pressure Wash	5 days	Wed 11/22/23	Tue 11/28/23															
8	👉	d)Refractory and Insullation Work	20 days	Tue 11/7/23	Mon 12/4/23															
9	👉	e) Interior Dry-Cleaning Work	15 days	Mon 11/20/23	Fri 12/8/23															
10	👉	f) Replacement of Burners, Igniters, etc...	10 days	Tue 11/7/23	Mon 11/20/23															
11	👉	g) Maintenance and Repair Works on Fuel Valves, Pumps, etc..	30 days	Mon 10/23/23	Fri 12/1/23															
12	👉	h) Maintenance and Repair Works on Instrumentation Equipment	20 days	Wed 11/1/23	Tue 11/28/23															
13	👉	Aguirre U. 2 Environmental Maintenance Project	121 days	Mon 9/4/23	Mon 2/19/24															
14	👉	Engineering and Administrative Planning for Environmental Maintenance Project	30 days	Mon 9/4/23	Fri 10/13/23															
15	👉	Procurement & Contract Process of Materials, Parts and Services for Environmental Maintenance Project	75 days	Mon 9/11/23	Fri 12/22/23															
16	👉	Environmental Maintenance Project - Execution	31 days	Mon 1/8/24	Mon 2/19/24															
17	👉	a) Contractors' Mobilization Period (Scaffolding Installation, Boiler High Pressure Wash, Interior Dry-Cleaning, Condenser High Pressure Wash, NDE Tests, Refractory and Insullation Work, etc...)	10 days	Mon 1/8/24	Fri 1/19/24															
18	👉	b) Boiler High Pressure Wash	10 days	Tue 1/23/24	Mon 2/5/24															
19	👉	c) Condenser High Pressure Wash	5 days	Wed 2/7/24	Tue 2/13/24															
20	👉	d)Refractory and Insullation Work	20 days	Tue 1/23/24	Mon 2/19/24															
21	👉	e) Interior Dry-Cleaning Work	20 days	Tue 1/23/24	Mon 2/19/24															
22	👉	f) Replacement of Burners, Igniters, etc...	15 days	Tue 1/23/24	Mon 2/12/24															
23	👉	g) Maintenance and Repair Works on Fuel Valves, Pumps, etc..	25 days	Mon 1/15/24	Fri 2/16/24															
24	👉	h) Maintenance and Repair Works on Instrumentation Equipment	20 days	Tue 1/23/24	Mon 2/19/24															
25	👉	San Juan - Replacement of the Online Condenser Cleaner Unit 6	250 days	Sat 3/11/23	Fri 2/23/24															
26	👉	Project Procurement & Contract Process	100 days	Mon 10/9/23	Fri 2/23/24															
27	👉	Equipment Manufacture, Test and Deliver to Project Site	245 days	Mon 3/20/23	Fri 2/23/24															
28	👉	Equipment Installation and Commissioning	50 days	Sat 3/11/23	Thu 5/18/23															
29	👉	Aguirre Combined Cycle Stag 1, Generator Rotor Refurbished and Replacement Wok	257 days	Mon 7/3/23	Tue 6/25/24															
30	👉	Engineering and Administrative Planning	50 days	Mon 7/3/23	Fri 9/8/23															
31	👉	Procurement & Contract Process of Materials, Parts and Services for Hot Gas Path Inspections Units 1-2 and 1-4	60 days	Tue 8/1/23	Mon 10/23/23															
32	👉	Procurement & Contract Process of Materials, Parts and Services for the Generator Rotor Repair of Units 1-2 and 1-4 and Stag 1 Spare Generator Rotor Refurbished .	60 days	Tue 8/1/23	Mon 10/23/23															
33	👉	Hot Gas Inspection Unit 1-2 & Generator Rotor Repair (Project Execution)	80 days	Wed 11/1/23	Tue 2/20/24															
34	👉	Hot Gas Inspection Unit 1-4 & Generator Rotor Repair (Project Execution)	80 days	Wed 11/1/23	Tue 2/20/24															
35	👉	Spare Generator Rotor for Stag 1 Refurbished	95 days	Sun 10/1/23	Thu 2/8/24															
36	👉	Miscellaneous Repairs of Enclosures and Auxiliary Equipment on Stag 1 Units	170 days	Wed 11/1/23	Tue 6/25/24															
37	👉	Aguirre Unit 2 - Major Outage (Procurment of Equipment Phase)	105 days	Mon 7/3/23	Fri 11/24/23															
38	👉	Engineering and Administrative Planning for Environmental Maintenance Project	30 days	Mon 7/3/23	Fri 8/11/23															

ID	Task Mode	Task Name	Duration	Start	Finish	Half 2, 2022				Half 1, 2023			Half 2, 2023			Half 1, 2024			Half 2, 2024	
						M	J	S	N	J	M	M	J	S	N	J	M	M	J	S
39	★	Procurement & Contract Process of Materials, Parts and Services for Environmental Maintenance Project	30 days	Tue 8/15/23	Mon 9/25/23															
40	☛	Environmental Maintenance Project - Execution	40 days	Sun 10/1/23	Fri 11/24/23															
41	★	a) Contractors' Mobilization Period (Scaffolding Installation, Boiler High Pressure Wash, Interior Dry-Cleaning, Condenser High Pressure Wash, NDE Tests, Refractory and Insullation Work, etc...)	10 days	Sun 10/1/23	Thu 10/12/23															
42	★	b) Boiler High Pressure Wash	10 days	Mon 10/16/23	Fri 10/27/23															
43	★	c) Condenser High Pressure Wash	5 days	Mon 10/16/23	Fri 10/20/23															
44	★	d)Refractory and Insullation Work	30 days	Mon 10/16/23	Fri 11/24/23															
45	★	e) Interior Dry-Cleaning Work	30 days	Mon 10/16/23	Fri 11/24/23															
46	★	f) Replacement of Burners, Igniters, etc...	10 days	Mon 10/23/23	Fri 11/3/23															
47	★	g) Maintenance and Repair Works on Fuel Valves, Pumps, etc..	30 days	Sun 10/1/23	Thu 11/9/23															
48	★	h) Maintenance and Repair Works on Instrumentation Equipment	30 days	Sun 10/1/23	Thu 11/9/23															
49	☛	Fuel Igniters Replacement Aguirre Unit 2	250 days	Sat 5/6/23	Fri 4/19/24															
50	★	Project Procurement & Contract Process	90 days	Mon 5/8/23	Fri 9/8/23															
51	★	Equipment Manufacture	155 days	Mon 9/18/23	Fri 4/19/24															
52	★	Equipment Installation and Commissioning	15 days	Sat 5/6/23	Thu 5/25/23															
53	☛	Motor Driven Boiler Feed Pump (Bundle) Acquisition	404 days	Mon 7/4/22	Thu 1/18/24															
54	★	Project Procurement & Contract Process	50 days	Mon 7/4/22	Fri 9/9/22															
55	★	Equipment Manufacture	350 days	Sun 9/18/22	Thu 1/18/24															
56	☛	Aguirre Unit 2 ABB Excitation System Replacement	45 days	Thu 6/1/23	Wed 8/2/23															
57	★?	Project Procurement & Contract Process	10 days																	
58	★?	Equipment Manufacture	45 days																	
59	★?	Equipment Installation and Commissioning	30 days																	
60	☛	Hot Section Inspection 4A, Mayaguez Power Plant	90 days	Tue 8/1/23	Mon 12/4/23															
61	★	Project Procurement & Contract Process	15 days	Tue 8/1/23	Mon 8/21/23															
62	★	Mobilizaton, Shipping Unit to Shop and Repairs	60 days	Tue 8/22/23	Mon 11/13/23															
63	★	Equipment Installation and Commissioning	15 days	Tue 11/14/23	Mon 12/4/23															
64	★?	Mayaguez Power Plant, Palo Seco FT-8 Units Annual Maintenance Work																		
65	★?	Project Procurement & Contract Process																		
66	★?	Equipment Manufacture																		
67	★?	Equipment Installation and Commissioning																		
68	☛	Aguirre U. 6 Costa Sur Power Plant	30 days	Mon 7/3/23	Fri 8/11/23															
69	☛	Environmental Maintenance Project - Execution	30 days	Mon 7/3/23	Fri 8/11/23															
70	★	a) Contractors' Mobilization Period (Scaffolding Installation, Boiler High Pressure Wash, Interior Dry-Cleaning, Condenser High Pressure Wash, NDE Tests, Refractory and Insullation Work, etc...)	10 days	Mon 7/3/23	Fri 7/14/23															
71	★	b) Boiler High Pressure Wash	10 days	Fri 7/14/23	Thu 7/27/23															
72	★	c) Condenser High Pressure Wash	5 days	Fri 7/14/23	Thu 7/20/23															
73	★	d)Refractory and Insullation Work	20 days	Fri 7/14/23	Thu 8/10/23															
74	★	e) Interior Dry-Cleaning Work	15 days	Mon 7/17/23	Fri 8/4/23															
75	★	f) Replacement of Burners, Igniters, etc...	10 days	Mon 7/24/23	Fri 8/4/23															
76	★	g) Maintenance and Repair Works on Fuel Valves, Pumps, etc..	30 days	Mon 7/3/23	Fri 8/11/23															
77	★	h) Maintenance and Repair Works on Instrumentation Equipment	30 days	Mon 7/3/23	Fri 8/11/23															
78	☛	Palo Seco Units 3 and 4 Boiler High Pressure Parts Procurement and Delivery	220 days	Mon 7/24/23	Fri 5/24/24															

ID	Task Mode	Task Name	Duration	Start	Finish	Half 2, 2022				Half 1, 2023			Half 2, 2023			Half 1, 2024			Half 2, 2024	
						M	J	S	N	J	M	M	J	S	N	J	M	M	J	S
79	★	Project Procurement & Contract Process	20 days	Mon 7/24/23	Fri 8/18/23															
80	★	Equipment Manufacture and Delivery	185 days	Mon 9/11/23	Fri 5/24/24															
81	★	Costa Sur Power Plant Auxiliary Equipment Procurement	200 days	Mon 7/17/23	Fri 4/19/24															
82	★	Project Procurement & Contract Process	10 days	Mon 7/17/23	Fri 7/28/23															
83	★	Equipment Manufacture and Delivery	160 days	Mon 9/11/23	Fri 4/19/24															
84	★	Palo Seco Unit 4 Environmental Maintenance Project	165 days	Mon 7/3/23	Fri 2/16/24															
85	★	Engineering and Administrative Planning for Environmental Maintenance Project	20 days	Mon 7/3/23	Fri 7/28/23															
86	★	Procurement & Contract Process of Materials, Parts and Services for Environmental Maintenance Project	35 days	Tue 8/1/23	Mon 9/18/23															
87	★	Environmental Maintenance Project - Execution	105 days	Mon 9/25/23	Fri 2/16/24															
88	★	a) Contractors' Mobilization Period (Scaffolding Installation, Boiler High Pressure Wash, Interior Dry-Cleaning, Condenser High Pressure Wash, NDE Tests, Refractory and Insullation Work, etc...)	10 days	Mon 1/8/24	Fri 1/19/24															
89	★	b) Boiler High Pressure Wash	10 days	Tue 1/23/24	Mon 2/5/24															
90	★	c) Condenser High Pressure Wash	5 days	Wed 2/7/24	Tue 2/13/24															
91	★	d)Refractory and Insullation Work	20 days	Mon 1/22/24	Fri 2/16/24															
92	★	e) Interior Dry-Cleaning Work	20 days	Mon 1/22/24	Fri 2/16/24															
93	★	f) Replacement of Burners, Igniters, etc...	15 days	Mon 1/22/24	Fri 2/9/24															
94	★	g) Maintenance and Repair Works on Fuel Valves, Pumps, etc..	30 days	Mon 9/25/23	Fri 11/3/23															
95	★	h) Maintenance and Repair Works on Instrumentation Equipment	30 days	Mon 9/25/23	Fri 11/3/23															
96	★	Palo Seco, New Multimedia Filter System Water Treatment Plant	300 days	Mon 5/1/23	Fri 6/21/24															
97	★	Project Procurement & Contract Process	40 days	Mon 5/1/23	Fri 6/23/23															
98	★	Equipment Manufacture and Delivery	200 days	Mon 7/10/23	Fri 4/12/24															
99	★	Equipment Installation and Commissioning	300 days	Mon 5/1/23	Fri 6/21/24															
100	★	Palo Seco, Polishing Equipment Replacement Unit 3	300 days	Mon 5/1/23	Fri 6/21/24															
101	★	Project Procurement & Contract Process	20 days	Mon 7/3/23	Fri 7/28/23															
102	★	Equipment Manufacture and Delivery	195 days	Tue 8/1/23	Mon 4/29/24															
103	★	Equipment Installation and Commissioning	300 days	Mon 5/1/23	Fri 6/21/24															
104	★	Palo Seco, Polishing Equipment Replacement Unit 4	300 days	Mon 5/1/23	Fri 6/21/24															
105	★	Project Procurement & Contract Process	20 days	Mon 7/3/23	Fri 7/28/23															
106	★	Equipment Manufacture and Delivery	195 days	Mon 7/10/23	Fri 4/5/24															
107	★	Equipment Installation and Commissioning	300 days	Mon 5/1/23	Fri 6/21/24															
108	★	Palo Seco, Refractory, Stacks Painting and Insullation Repair Works	280 days	Mon 3/13/23	Fri 4/5/24															
109	★	Project Procurement & Contract Process	40 days	Mon 3/13/23	Fri 5/5/23															
110	★	Refractory and Insullation Repair Works and Stacks Paint Work	130 days	Mon 10/9/23	Fri 4/5/24															
111	★?	Palo Seco, FT- 8 Maintenance Work																		
112	★?	Project Procurement & Contract Process																		
113	★?	Equipment Manufacture																		
114	★?	Equipment Installation and Commissioning																		