NEPR

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

IN RE:

**CASE NO.:** NEPR-MI-2021-0004

REVIEW OF LUMA'S INITIAL BUDGET

**SUBJECT:** Motion to Submit Reports on Grid Modernization and Emergency Work-Related Federal Funding in Compliance with Resolution and Order dated June 25, 2023

MOTION TO SUBMIT REPORTS ON GRID MODERNIZATION AND EMERGENCY WORK-RELATED FEDERAL FUNDING IN COMPLIANCE WITH RESOLUTION AND ORDER DATED JUNE 25, 2023

#### TO THE HONORABLE PUERTO RICO ENERGY BUREAU:

**COMES NOW GENERA PR LLC** ("Genera"), as agent of the Puerto Rico Electric Power Authority ("PREPA"), through its counsel of record, and respectfully state and request the following:

1. On June 25, 2023, the Energy Bureau issued a Resolution and Order titled Determination on the FY24 Annual Budgets for the Electric Utility System – LUMA, Genera, and PREPA ("June 25<sup>th</sup> Order"), through which it (1) modified the Proposed Consolidated FY2024 Budget; (2) approved the modified budgets subject to compliance with various orders included in the June 25<sup>th</sup> Order; and (3) included a series of determinations and orders addressed to Genera regarding the GenCo Budget. <sup>2</sup>

<sup>&</sup>lt;sup>1</sup> Pursuant to the *Puerto Rico Thermal Generation Facilities Operation and Maintenance Agreement* ("LGA OMA"), dated January 24, 2023, executed by and among PREPA, Genera, and the Puerto Rico Public-Private Partnerships Authority, Genera is the sole operator and administrator of the Legacy Generation Assets (as defined in the LGA OMA) and the sole entity authorized to represent PREPA before the Energy Bureau with respect to any matter related to the performance of any of the O&M Services provided by Genera under the LGA OMA.

<sup>&</sup>lt;sup>2</sup> See June 25<sup>th</sup> Order, pp. 16 - 21.

- 2. Pertinent to this Motion, the June 25<sup>th</sup> Order included reporting requirements outlined in its Attachment I, comprising but not limited to:
  - a. implementation of Grid Modernization Plan Report; and
  - b. permanent and Emergency Work-Related Federal Funding Report & Infrastructure Plan Updates.
- 3. On September 1, 2023, Genera filed a document titled *Motion to Submit Monthly Maintenance Report for August 2023, in Compliance with Resolution and Order dated June 25, 2023* ("September 1st Motion"). Relevant to the present matter, Genera requested modifications to the filing schedule for the aforementioned reports:
  - a. the Implementation of Grid Modernization Plan within twenty (20) days following the conclusion of each bi-monthly reporting period; and
  - b. the submission of the Permanent and Emergency Work-Related Federal Funding Report & Infrastructure Plan Updates within twenty (20) days after the end of the monthly reporting period.
- 4. In compliance with the June 25<sup>th</sup> Order and in accordance with the September 1<sup>st</sup> Motion, Genera hereby submits a series of detailed reports. These reports, listed below as exhibits, provide comprehensive information and updates for the period from July 1<sup>st</sup> to December 31<sup>st</sup>, 2023. They encompass the major investment categories and projects that Genera is implementing to ensure reliable and resilient power delivery. The information provided meets the reporting requirements of the June 25<sup>th</sup> Order, which includes (a) the implementation of the Grid Modernization, and (b) the Permanent and Emergency Work-Related Federal Funding and Infrastructure Report.
  - 5. The attached exhibits are the following:

- i. Exhibit A, Genera Grid Modernization Highlights 31JAN2024;
- ii. Exhibit B, Genera Project Master-Tracker 31JAN2024;
- iii. Exhibit C, Genera Milestone Overview 31JAN2024;
- iv. Exhibit D, Genera Critical Tasks 31JAN2024; and
- v. Exhibit E, Genera Project Overview 31JAN2024.

**WHEREFORE**, Genera respectfully requests that this Energy Bureau **take notice** of the above for all purposes and **deem** that Genera has partially complied with the June 25<sup>th</sup> Order concerning the reports specified in Attachment I of the June 25<sup>th</sup> Order.

#### RESPECTFULLY SUBMITTED.

In San Juan, Puerto Rico, this 20th day of February 2024.

#### **ECIJA SBGB**

PO Box 363068 San Juan, Puerto Rico 00920 Tel. (787) 300.3200 Fax (787) 300.3208

/s/ Jorge Fernández-Reboredo Jorge Fernández-Reboredo jfr@sbgblaw.com TSPR 9,669

/s/ Alejandro López-Rodríguez Alejandro López-Rodríguez alopez@sbgblaw.com TSPR 22,996

#### **CERTIFICATE OF SERVICE**

I 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 I will send an electronic copy of this motion to PREPA through its counsels of record: Juan M. Martínez-Nevárez, at jmartinez@gmlex.net, Alexis G. Rivera-Medina, at arivera@gmlex.net, Joselyn Rodríguez-Gonzalez, at <a href="mailto:jrodriguez@gmlex.net">jrodriguez@gmlex.net</a>, and Mirelis Valle-Cancel, at <a href="mailto:mvalle@gmlex.net">mvalle@gmlex.net</a>; and to LUMA, through counsels of record: Margarita Mercado Echegaray, its at margarita.mercado@us.dlapiper.com; Julian Anglada Pagan, and at julian.angladapagan@us.dlapiper.com.

In San Juan, Puerto Rico, this 20<sup>th</sup> day of February 2024.

<u>/s/ Alejandro López-Rodríguez</u> Alejandro López-Rodríguez

# Exhibit A Genera Grid Modernization Highlights\_31JAN2024

### **Accomplishments (current month)**

#### Generation Assets Repairs

- Palo Seco 4 08AUG2023 Forced outage due to generator failure.
  - Finding: generator stator phase C is grounded.
  - The recommendation is to rewind the stator, restock the core, and repair short turns in the rotor.
  - Genera is in the process of preparing specs to run an RFP.
  - Environmental outage works on the unit are in progress.
- **Costa Sur 6** 04JAN24 Forced outage due to electrical problems. This FO caused damage to the ESST 5/6 & NSST 6B. Transformers needs to be replaced. Expected date for unit to be back online is 20MARCH24.

### High Priority Due Outs (Short Suspense)

- Costa Sur 5 Unit major maintenance. During last week it had problems with BFP
   5-1 and major failure in the normal transformer 6B, we need to replace the normal transformer. Expected date for unit to be back online is 13FEB2024.
- Aguirre 1 The stator cooling fan seal was repaired. Currently working to improve generator megger and remove cooper on generator water cooling system. The OEM technical advisor recommended some additional tests. After partially opening the generator, a leak of water coming from the cooling system was found. It was detected in the transition area between the stator bars and the water pipe that connects the cooling system.
- Genera prepared a new contract with GE. They are beginning the repair of the leakage. ETA to complete: at least 6 weeks 12FEB2024. (non-federally funded).
- **Palo Seco 3** Major maintenance and environmental outage in progress. 22NOV2023 until 27MAY2024. 06DEC23 FOMB approved turbine contract..

### Upcoming Actions and Activities (next two weeks)

#### Repairs:

- Aguirre CC Transformer 2-1 & 2-2 Based on the test results, the transformer cannot be returned to service.
- Genera is working on the scope of work to purchase a new transformer.
- Aguirre CC Turbine 2-3- Genera finished the inspection for turbine unit 2-3.
- · Findings: turbine blades are damaged.
- The recommendation is to repair the turbine. Genera is working on the repair schedule.
- ESST 5/6 Costa Sur Transformer catastrophic failure. Needs to be replaced. Spare transformer available; Genera prepared an order to relocate from Aguirre to Costa Sur.
- NSST 6B Costa Sur Transformer catastrophic failure. Needs to be replaced.
   Spare transformer available; Genera prepared an order to relocate from Aguirre to Costa Sur.

### Challenges, Shortfalls, Limitations or Constraints

#### Aguirre Combined Cycle

- Units 1-3 Major inspection and rotor installation. Expected to return in APR2024. (FEMA funded). Genera is in the process of awarding a contract.
- Units 1-4 Genera is in the process of awarding a contract for hot gas path inspection and rotor installation. Expected to return in MAR2024.

## Grid Modernization Report Legacy Generation Assets - Status as of 25JAN2024

UNIT	COD	USE	FUEL	NAMEPLATE CAPACITY (MW)	CURRENT CAPACITY	REPAIRS FUNDS SOURCE	EXPECTED COMPLETION DATE	NOTES
Aguirre 1	May 1975	Base	Bunker C	450	0	Federal & NME	02/12/2024	Under maintenance
Costa Sur 5	Sep 1972	Base	LNG & Bunker C	410	0	Federal	02/13/2024	Under maintenance
Palo Seco 4	Jul 1970	Base	Bunker C	216	0	NME	02/2025	Forced Outage
Palo Seco 3	Feb 1970	Base	Bunker C	216	0	Federal & NME	05/27/2024	Under maintenance
Costo Sur 6	Sep 1973	Base	LNG & Bunker C	450	0	N/A	03/20/2024	Forced and maintenance Outage
Aguirre 2	Oct 1975	Base	Bunker C	450	350	N/A	N/A	Limitations
AG-CC 1&2	July 1977	Reserve	Diesel	592	150	N/A	N/A	Limitations
Mayaguez	Apr 2009	Reserve	Diesel	220	191	N/A	N/A	Limitations
Cambalache	Apr 1997	Reserve	Diesel	247	155	N/A	N/A	Limitations
Peakers Fleet	(18) 1971 & (3) 2019	Reserve	Diesel	396	165	N/A	N/A	Limitations
San Juan 9	June 1965	Base	Bunker C	100	91	N/A	N/A	Limitations
San Juan 5	Oct 2008	Base	LNG & Diesel	220	187	N/A	N/A	Limitations
San Juan 6	Oct 2008	Base	LNG & Diesel	220	210	N/A	N/A	Normal Operation
San Juan 7	May 1965	Base	Bunker C	100	100	N/A	N/A	Normal Operation
	TOTALS 4,24				1,599 MW			Available Capacity

Legend:

Unit under maintenance or repair

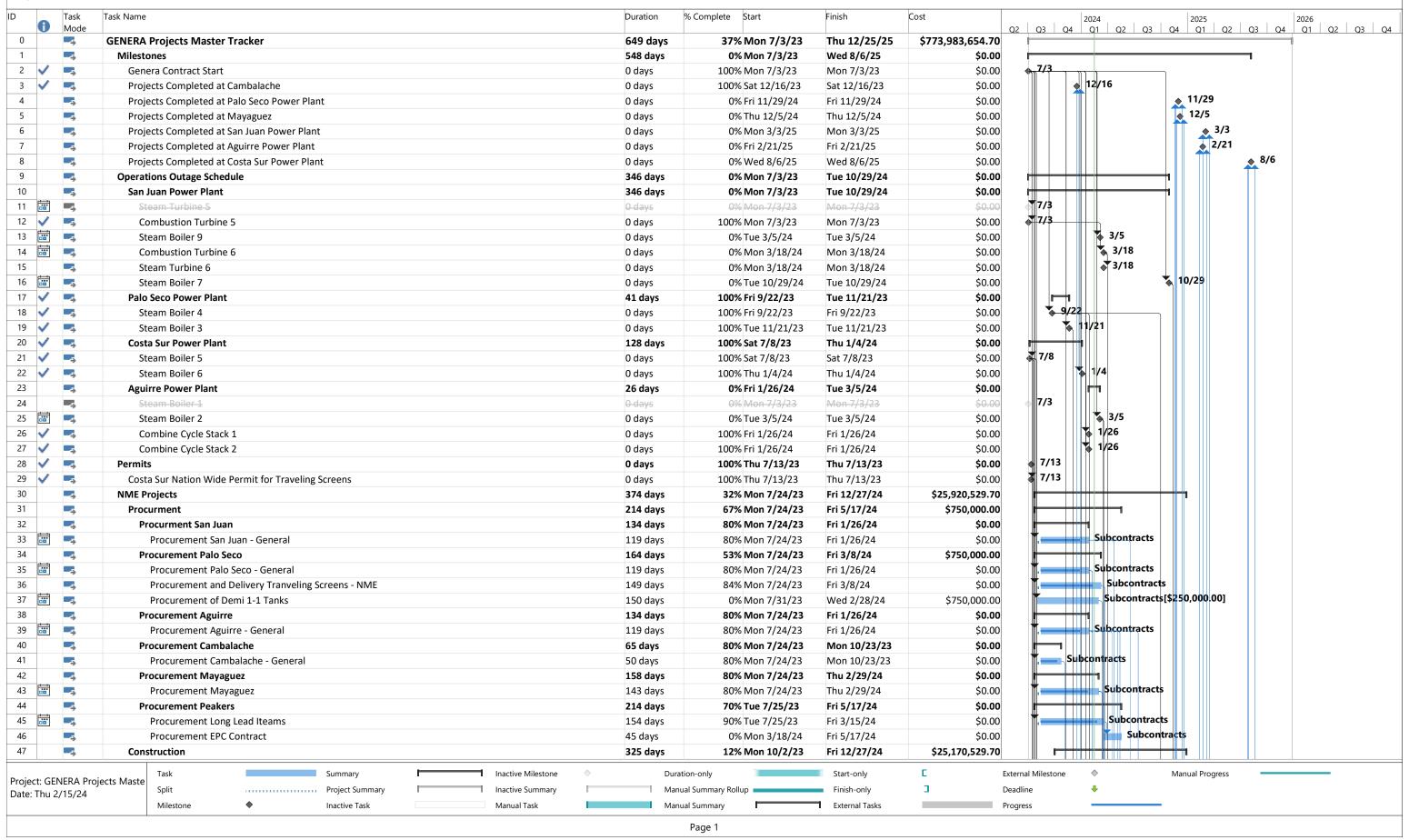
Unit in service with limited Capacity

Unit under normal operation

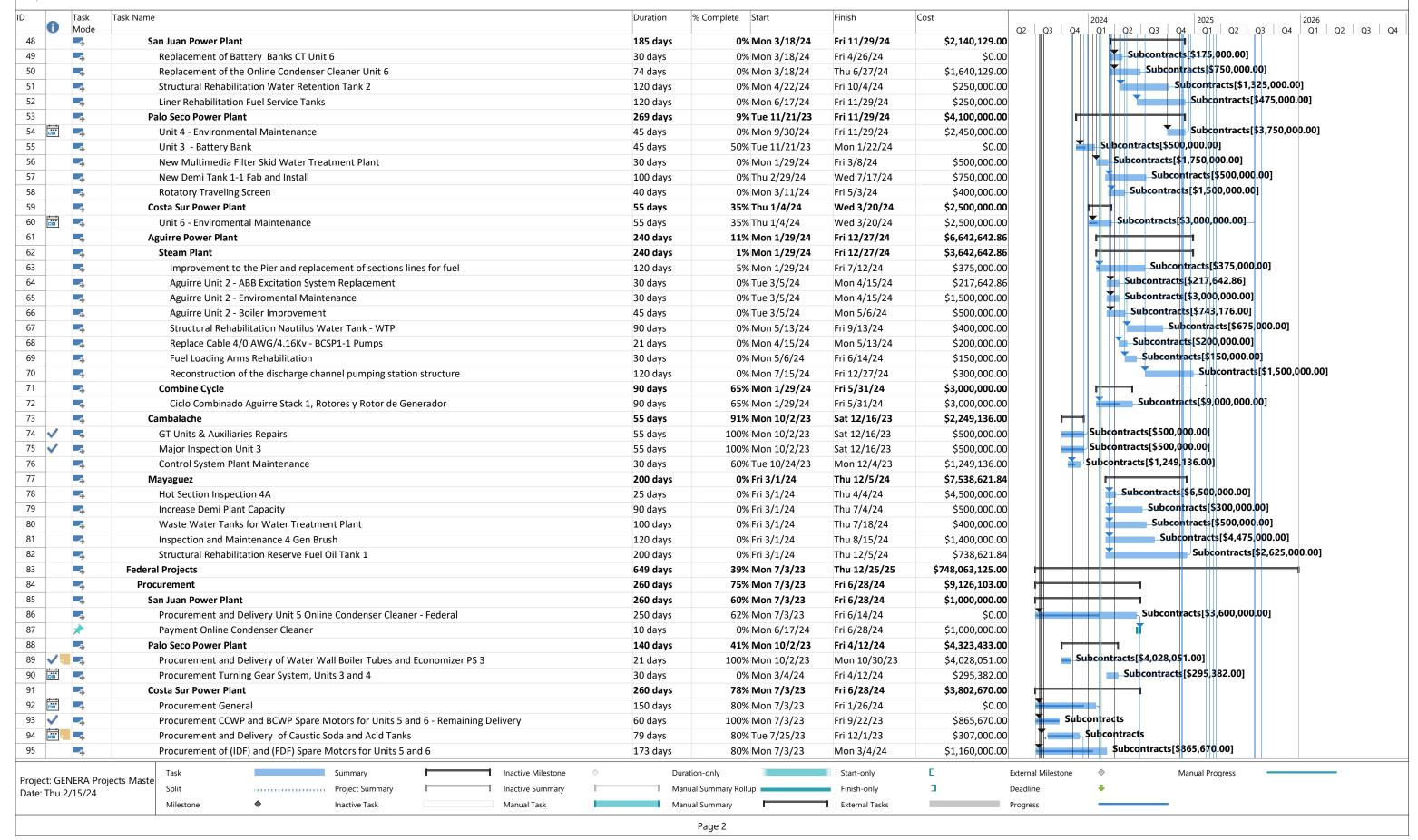


# Exhibit B Genera Project Master-Tracker\_31JAN2024

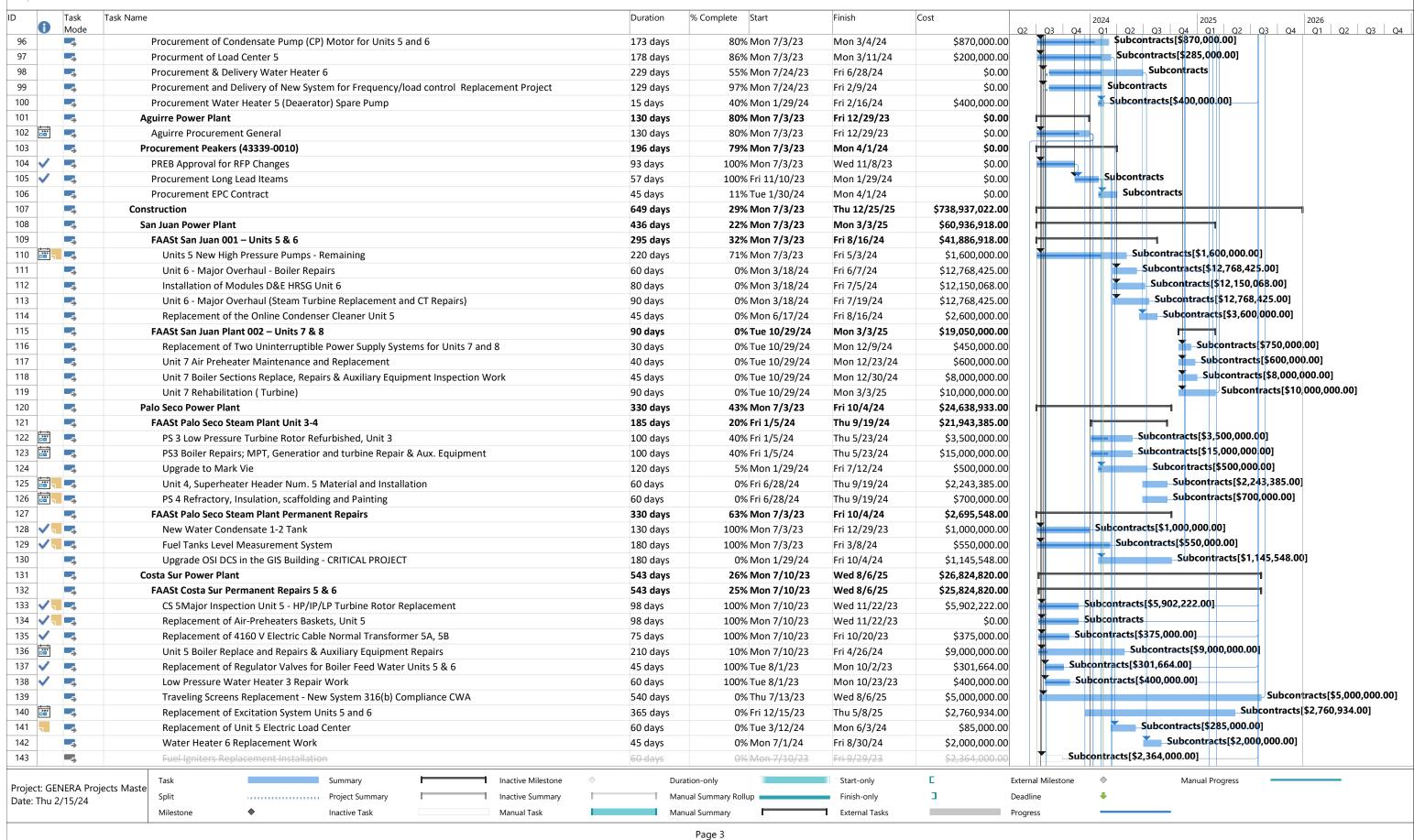






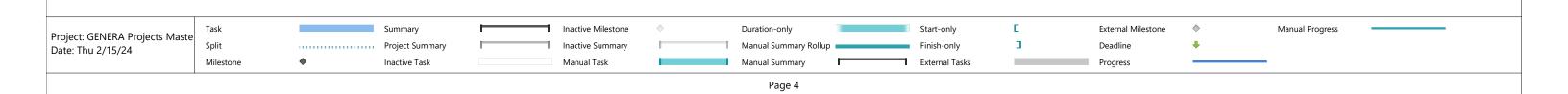








	Task	Task Name	Duration	% Complete Start	Finish	Cost	2024 2025 2026
144	Mode	FAASt Costa Sur Permanent Repairs	130 days	35% Mon 12/4/23	Fri 5/31/24	\$1,000,000.00	Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4
145	=	Caustic Soda and Acid tanks Installation	60 days	77% Mon 12/4/23	Fri 2/23/24	\$500,000.00	Subcontracts[\$750,000.00]
146	=	Upgrade to Foxboro Simulation System	90 days	7% Mon 1/29/24	Fri 5/31/24	\$500,000.00	Subcontracts[\$500,000.00]
147	=	Aguirre Power Plant	430 days	54% Mon 7/3/23	Fri 2/21/25	\$8,994,415.00	
148	=	FAASt Aguirre Power Plant Infrastructure Projects 001	430 days	41% Mon 7/3/23	Fri 2/21/25	\$2,211,190.00	
149	-5	Rehabilitation Fuel Tank Farm Liners - Remaining	174 days	90% Mon 7/3/23	Thu 2/29/24	\$1,291,000.00	Subcontracts[\$1,291,000.00]
150	-5	Two New CCWP Motors	240 days	48% Wed 8/30/23	Tue 7/30/24	\$640,150.00	Subcontracts[\$640,150.00]
151	-5	Fire Pump for Aguirre Power Complex (AG-004)	300 days	9% Mon 1/1/24	Fri 2/21/25	\$280,040.00	Subcontracts[\$280,040.00]
152	-5	FAASt Aguirre Power Plant 002 Units 1 & 2 Projects	282 days	52% Mon 7/3/23	Tue 7/30/24	\$3,772,629.00	
153	-5	Inner Barrel Bundle	174 days	90% Mon 7/3/23	Thu 2/29/24	\$1,625,954.00	Subcontracts[\$1,625,954.00]
154	-5	Replacement of Load Center 1-4 Condenser Circulating Water Pump	240 days	48% Wed 8/30/23	Tue 7/30/24	\$630,000.00	Subcontracts[\$630,000.00]
155	-5	Unit 2 Excitation System	150 days	17% Mon 1/1/24	Fri 7/26/24	\$1,516,675.00	Subcontracts[\$1,516,675.00]
156	-5	FAASt Aguirre Power Plant 003 Combined Cycle	162 days	97% Mon 7/3/23	Tue 2/13/24	\$3,010,596.00	
157 🎺	-5	New Water Condensate Tank - Remaining	109 days	100% Mon 7/3/23	Thu 11/30/23	\$410,625.00	Subcontracts[\$410,625.00]
158	-5	Major inspection Unit 1-3	120 days	95% Wed 8/30/23	Tue 2/13/24	\$2,599,971.00	\$ubcontracts[\$2,599,971.00]
159	-5	Cambalache Power Plant	485 days	32% Mon 7/3/23	Fri 5/9/25	\$4,000,000.00	
160	-5	FAASt Cambalache Power Plant – Flood Protection Barrier	485 days	32% Mon 7/3/23	Fri 5/9/25	\$4,000,000.00	Subcontracts[\$4,000,000.00]
161	-5	Gas Turbine Permanent Repairs	0 days	0% Mon 7/3/23	Mon 7/3/23	\$0.00	♦ 7/3
168	-5	Peakers and Black Start Projects	465 days	0% Fri 3/15/24	Thu 12/25/25	\$613,541,936.00	
169	-5	FAASt New Black Start System at Costa Sur	465 days	0% Fri 3/15/24	Thu 12/25/25	\$0.00	Subcontracts[\$45,200,0
170 🚟	<b>-</b> 5	FAASt New Black Start System at Aguirre (Yabucoa)	465 days	0% Fri 3/15/24	Thu 12/25/25	\$0.00	Subcontracts[\$45,200,0
171	-5	Simple Gas Turbines	465 days	0% Fri 3/15/24	Thu 12/25/25	\$613,541,936.00	Subcontracts[\$613,541



# Exhibit C Genera Milestone Overview \_31JAN2024

# MILESTONE REPORT

LATE MILESTONES

Milestones that are past due.

Name Finish

### MILESTONES UP NEXT

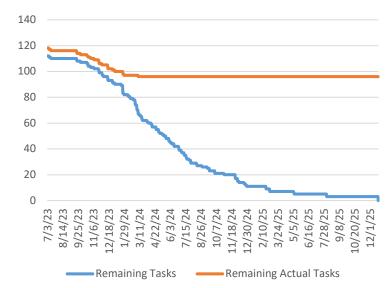
Milestones due in this month.

me Finish

### COMPLETED MILESTONES

Milestones that are 100% complete.

Name	Finish
Genera Contract Start	Mon 7/3/23
Projects Completed at Cambalache	Sat 12/16/23
Combustion Turbine 5	Mon 7/3/23
Steam Boiler 4	Fri 9/22/23
Steam Boiler 3	Tue 11/21/23
Steam Boiler 5	Sat 7/8/23
Steam Boiler 6	Thu 1/4/24
Combine Cycle Stack 1	Fri 1/26/24
Combine Cycle Stack 2	Fri 1/26/24
Costa Sur Nation Wide Permit for Traveling Screens	Thu 7/13/23



## Exhibit C

# Exhibit D Genera Critical Tasks\_31JAN2024

## **CRITICAL TASKS**

A task is critical if there is no room in the schedule for it to slip.

Learn more about managing your project's critical path.

Name	Start	Finish	% Complete	Remaining Work	Resource Names
FAASt New Black Start System at Costa Sur	Fri 3/15/24	Thu 12/25/25	0%	0 hrs	Subcontracts[\$45, 200,000.00]
FAASt New Black Start System at Aguirre (Yabucoa)	Fri 3/15/24	Thu 12/25/25	0%	0 hrs	Subcontracts[\$45, 200,000.00]
Simple Gas Turbines	Fri 3/15/24	Thu 12/25/25	0%	0 hrs	Subcontracts[\$61 3,541,936.00]

■ Status: Complete

■ Status: On Schedule

■ Status: Late

Status: Future Task

## Exhibit E Genera Project Overview\_31JAN2024

## **PROJECT OVERVIEW**

MON 7/3/23 - THU 12/25/25

37%

#### MILESTONES DUE

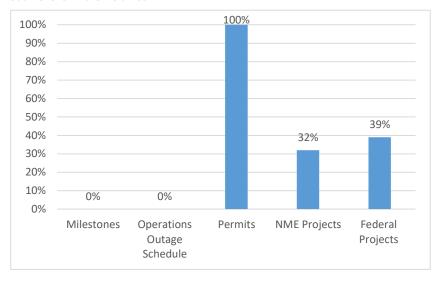
Milestones that are coming soon.

Name	Finish
Projects Completed at Palo Seco Power Plant	Fri 11/29/24
Projects Completed at Mayaguez	Thu 12/5/24
Projects Completed at San Juan Power Plant	Mon 3/3/25
Projects Completed at Aguirre Power Plant	Fri 2/21/25
Projects Completed at Costa Sur Power Plant	Wed 8/6/25
Steam Turbine 5	Mon 7/3/23
Steam Boiler 9	Tue 3/5/24
Combustion Turbine 6	Mon 3/18/24
Steam Turbine 6	Mon 3/18/24
Steam Boiler 7	Tue 10/29/24
Steam Boiler 1	Mon 7/3/23
Steam Boiler 2	Tue 3/5/24

## Exhibit E

#### % COMPLETE

Status for all top-level tasks. To see the status for subtasks, click on the chart and update the outline level in the Field List.



Installation

LATE TASKS Tasks that are past due.					
Name	Start	Finish	Duration	% Complete	Resource Names
Steam Turbine 5	Mon 7/3/23	Mon 7/3/23	0 days	0%	
Steam Boiler 1	Mon 7/3/23	Mon 7/3/23	0 days	0%	
Procurement San Juan - General	Mon 7/24/23	Fri 1/26/24	119 days	80%	Subcontracts
Procurement Palo Seco - General	Mon 7/24/23	Fri 1/26/24	119 days	80%	Subcontracts
Procurement of Demi 1-1 Tanks	Mon 7/31/23	Wed 2/28/24	150 days	0%	Subcontracts[ \$250,000.00]
Procurement Aguirre - General	Mon 7/24/23	Fri 1/26/24	119 days	80%	Subcontracts
Procurement Cambalache - General	Mon 7/24/23	Mon 10/23/23	50 days	80%	Subcontracts
Procurement Mayaguez	Mon 7/24/23	Thu 2/29/24	143 days	80%	Subcontracts
Unit 3 - Battery Bank	Tue 11/21/23	Mon 1/22/24	45 days	50%	Subcontracts[ \$500,000.00]
New Multimedia Filter Skid Water Treatment Plant	Mon 1/29/24	Fri 3/8/24	30 days	0%	Subcontracts[ \$1,750,000.00 ]
Unit 6 - Enviromental Maintenance	Thu 1/4/24	Wed 3/20/24	55 days	35%	Subcontracts[ \$3,000,000.00 ]
Control System Plant Maintenance	Tue 10/24/23	Mon 12/4/23	30 days	60%	Subcontracts[ \$1,249,136.00 ]
Procurement General	Mon 7/3/23	Fri 1/26/24	150 days	80%	
Procurement and Delivery of Caustic Soda and Acid Tanks	Tue 7/25/23	Fri 12/1/23	79 days	80%	Subcontracts
Procurement of (IDF) and (FDF) Spare Motors for Units 5 and 6	Mon 7/3/23	Mon 3/4/24	173 days	80%	Subcontracts[ \$865,670.00]
Procurement of Condensate Pump (CP) Motor for Units 5 and 6	Mon 7/3/23	Mon 3/4/24	173 days	80%	Subcontracts[ \$870,000.00]
Aguirre Procurement General	Mon 7/3/23	Fri 12/29/23	130 days	80%	
Upgrade OSI DCS in the GIS Building - CRITICAL PROJECT	Mon 1/29/24	Fri 10/4/24	180 days	0%	Subcontracts[ \$1,145,548.00 ]
Unit 5 Boiler Replace and Repairs & Auxiliary Equipment Repairs	Mon 7/10/23	Fri 4/26/24	210 days	10%	Subcontracts[ \$9,000,000.00 ]
Traveling Screens Replacement - New System 316(b) Compliance CWA	Thu 7/13/23	Wed 8/6/25	540 days	0%	Subcontracts[ \$5,000,000.00 ]
Replacement of Excitation System Units 5 and 6	Fri 12/15/23	Thu 5/8/25	365 days	0%	Subcontracts[ \$2,760,934.00 ]
Fuel Igniters Replacement	Mon 7/10/23	Fri 9/29/23	60 days	0%	Subcontracts[ \$2,364,000.00