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 May 16, 2023, LUMA Energy, LLC and LUMA Energy ServCo, LLC (jointly referred to as "LUMA") filed a document with the Energy Bureau of the Puerto Rico Service Regulatory Board ("Energy Bureau") titled *Submission of Consolidated Annual Budgets for Fiscal Year 2024 and Proposed Annual T&D Projections Through Fiscal Year 2026*, in which LUMA submitted the proposed consolidated FY24 Budget, composed of the proposed T&D Budgets developed by LUMA, the proposed GenCo Budgets revised by Genera on behalf of PREPA for the PREPA subsidiary GenCo LLC, and the proposed budget developed by PREPA for its holding company,

<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.

HoldCo, and its subsidiaries PREPA HydroCo LLC and PREPA PropertyCo LLC (the "Proposed Consolidated FY24 Budget").

- 2. 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 submitted by LUMA on the May 16<sup>th</sup> Motion; (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>
- 3. 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.
- 4. 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.* Relevant to the present matter, Genera requested the following 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.

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

- 5. In compliance with the June 25<sup>th</sup> Order and in accordance with the September 1<sup>st</sup> Motion, Genera submits herewith a series of reports, listed as exhibits below. These reports provide information and status up to October 31, 2023, on the major investment categories and projects that Genera is implementing to deliver reliable and resilient power. The information provided fulfills the reporting requirements set forth by the June 25<sup>th</sup> Order regarding (a) the implementation of the Grid Modernization, and (b) Permanent and Emergency Work-Related Federal Funding Report & Infrastructure from July 1st to October 31, 2023.
  - 6. The attached exhibits are the following:
    - i. Exhibit A, Genera Grid Modernization Highlights 2Nov2023;
    - ii. Exhibit B, Genera Project Master-Tracker 31Oct2023;
    - iii. Exhibit C, Genera Project Cash Flow 31Oct 2023;
    - iv. Exhibit D, Genera Cost Overview 31Oct 2023;
    - v. Exhibit E, Genera Critical Tasks 31Oct 2023; &
    - vi. Exhibit F, Genera Project Overview 31Oct 2023.

**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 21st day of November 2023.

### **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 <u>alopez@sbgblaw.com</u>
TSPR 22,996

/s/ Joaquín M. Lago González Joaquín M. Lago González jlago@sbgblaw.com TSPR 20,678 **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 its counsels of record: Margarita Mercado Echegaray, at

margarita.mercado@us.dlapiper.com; Ana Margarita Rodríguez Rivera, at

ana.rodriguezrivera@us.dlapiper.com; and Julian Anglada Pagan, at

julian.angladapagan@us.dlapiper.com.

In San Juan, Puerto Rico, this 21st day of November 2023.

/s/ Alejandro López-Rodríguez
Alejandro López-Rodríguez

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# Exhibit A Genera Grid Modernization Highlights\_2Nov2023

### **Accomplishments**

### Accomplishment

- Palo Seco #4 08AUG2023 Forced outage due to generator failure.
  - Finding: generator stator phase C is completely grounded.
  - · Recommendation: rewinding the stator.

**Generation Assets Repairs** 

- The unit will be out for at least twelve months. (AUG2024)
- Environmental outage works on the unit are in progress.
- Cambalache #3 Inspection C Maintenance from 010CT2023 until 29NOV2023.

### **Upcoming Actions and Activities**

### Repairs: Transformers Aguirre CC

- Troubleshooting and repairs are underway on Aguirre CC main power transformers 2-1 and 2-2. Transformer retesting is in progress. After completing the tests, Genera will require Luma to reconnect the 230kV bus bars and re-energize the transformer.
- Palo Seco 3: Mayor outage beginning mid NOV2023 until 15MAR2024.

### High Priority Due Outs (Short Suspense)

- Costa Sur #5 Unit Major Maintenance in progress. Estimated completion date 10DEC2023 (FEMA reimbursable). Extra works appear on boiler main steam line failure (cracks) and turbine's control and stop valve to replace some internal components. Condenser Circulating Water Pump was damaged; Newfound damages repairs will take at least 2 -3 more weeks.
- Aguirre #1 Stator cooling fan seal repaired. Currently working to improve generator megger and remove cooper on generator water cooling system. Estimated completion date: 12NOV2023. (NME funded).
- San Juan #7 Environmental maintenance. Air heater replacement. The unit returned to service on 27OCT2023.
- Aguirre Combined Cycle Unit 1-2 31AUG2023 forced outage due to rotor generator failure. Rotor replacement completed. Unit in service since 11OCT2023

### Challenges, Shortfalls, Limitations or Constraints

### Aguirre Combined Cycle

- Units 1-3 -Major inspection and rotor installation. Expected to return in FEB2024. (FEMA funded). In the process of awarding contract.
- Units 1-4 Hot gas path inspection and rotor installation contract in process of awarding. Expected to return in JAN2024.
- An immediate extension of time and a significant increase in capacity for the temporary power is needed. Failure to provide the necessary 350 MW generation or removal of the current installed temporary power would put the stability of the generation system and operational reserve margins at grave risk. It is imperative that swift action is taken to ensure the safety and reliability of our power supply.

## Legacy Generation Assets Status - 02NOV2023

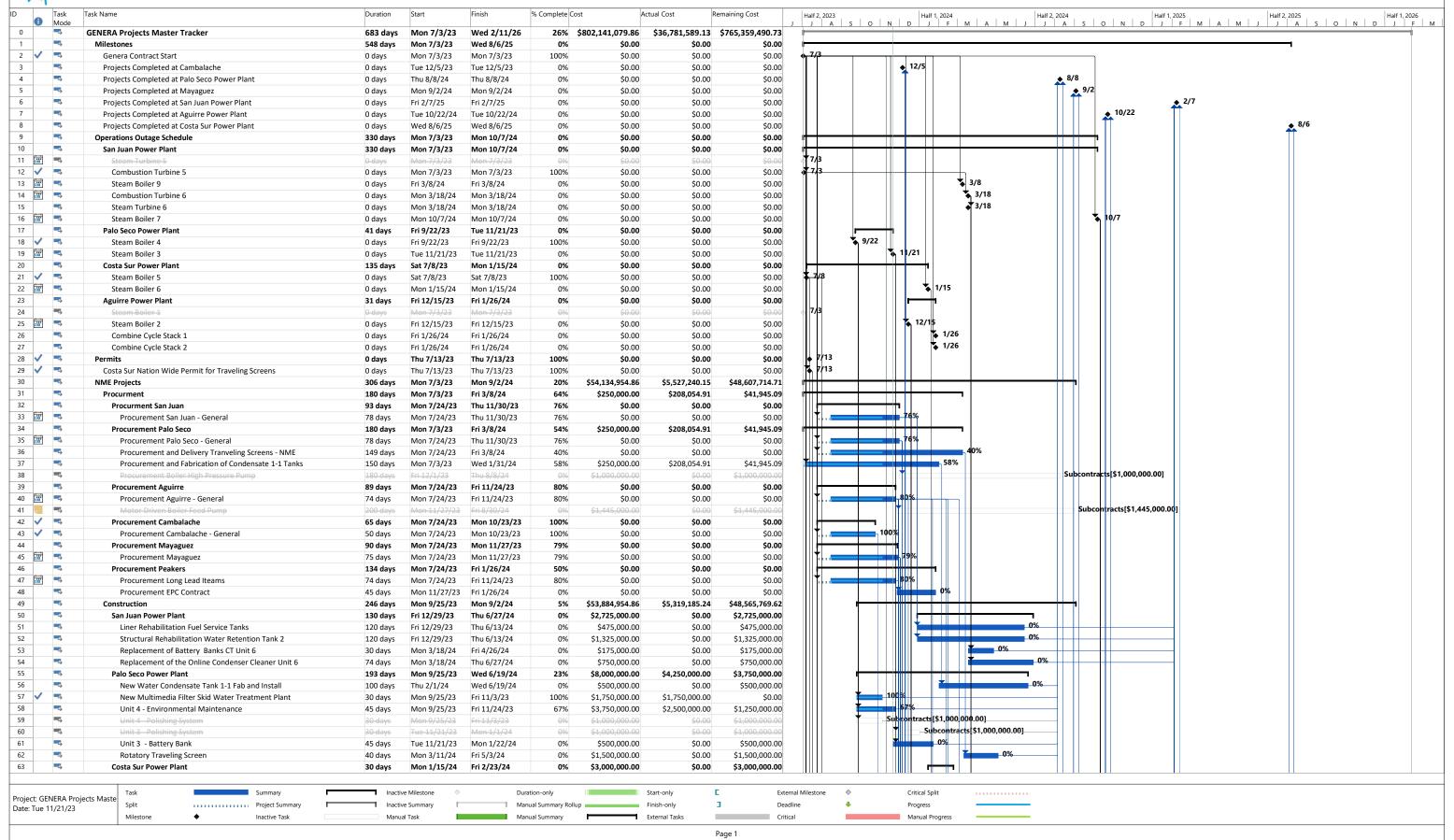
UNIT	COD	USE	FUEL	NAMEPLATE CAPACITY (MW)	CURRENT CAPACITY	REPAIRS FUNDS SOURCE	EXPECTED COMPLETION DATE	NOTES
Aguirre 1	May 1975	Base	Bunker C	450	0	Federal & NME	11/12/2023	Under maintenance
Costa Sur 5	Sep 1972	Base	LNG & Bunker C	410	0	Federal	12/10/2023	Under maintenance
San Juan 7	May 1965	Base	Bunker C	100	54	Federal & NME	N/A	Limitations
Palo Seco 4	Jul 1970	Base	Bunker C	216	0	NME	TBD	Under damage assessment
Palo Seco 3	Feb 1970	Base	Bunker C	216	175	N/A	N/A	Limitations
Aguirre 2	Oct 1975	Base	Bunker C	450	375	N/A	N/A	Limitations
Costa Sur 6	Sep 1973	Base	LNG & Bunker C	410	370	N/A	N/A	Limitations
AG-CC 1&2	July 1977	Reserve	Diesel	592	200	N/A	N/A	Limitations
Mayaguez	Apr 2009	Reserve	Diesel	220	194	N/A	N/A	Limitations
Cambalache	Apr 1997	Reserve	Diesel	247	77	N/A	11/29/2023	Failures/limitations/ Unit 3 maintenance
Peakers Fleet	(18) 1971 & (3) 2019	Reserve	Diesel	396	184	N/A	N/A	Failures and limitations
San Juan 5	Oct 2008	Base	LNG & Diesel	220	210	N/A	N/A	Normal operation
San Juan 6	Oct 2008	Base	LNG & Diesel	220	210	N/A	N/A	Normal operation
San Juan 9	June 1968	Base	Bunker C	100	97	N/A	N/A	Vacuum Limitations
			TOTALS	4,247 MW	2,142 MW			Available Capacity
Legend: Unit under maintenance or repair Unit in service with limited Capacity Unit under normal operation						al operation	Genera	

# Exhibit B Genera Project Master-Tracker\_31Oct2023



## GENERA Project Master Tracker

## Exhibit B



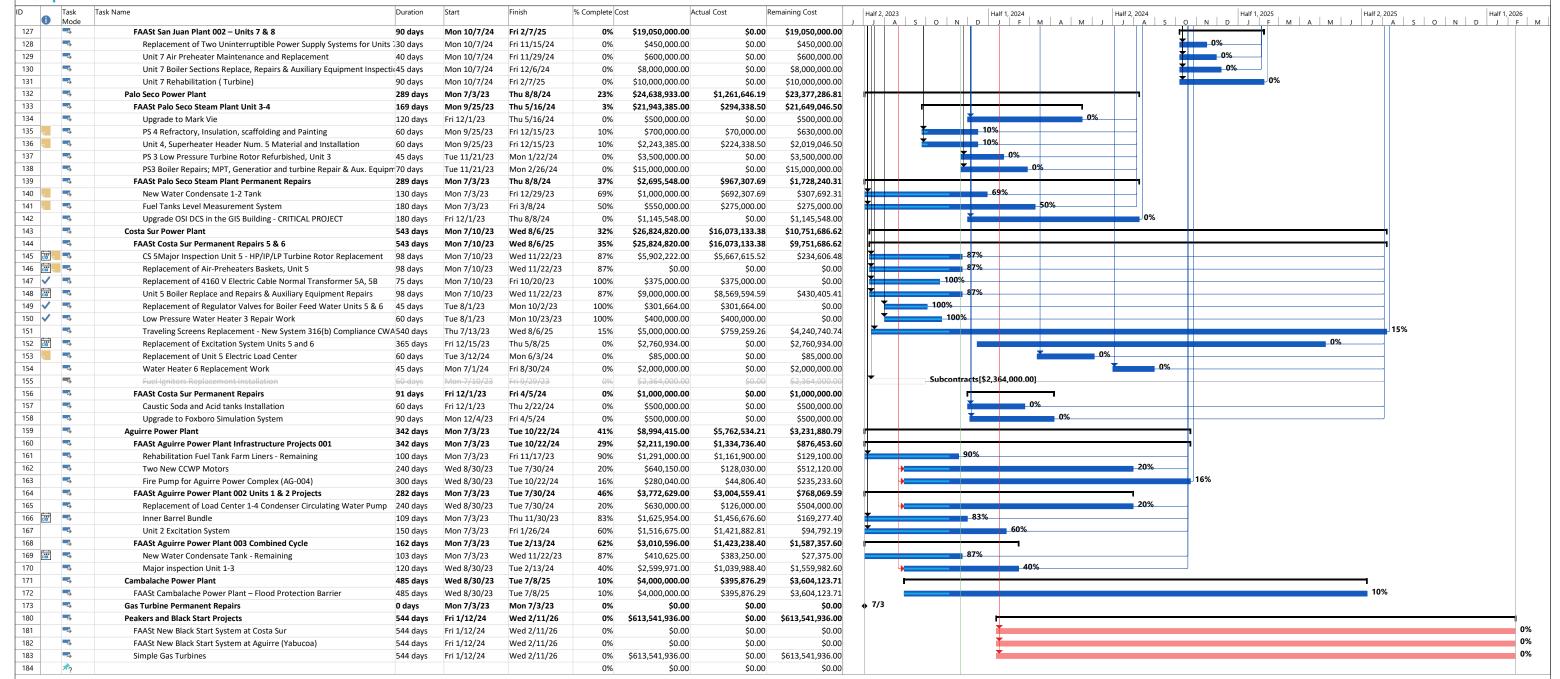


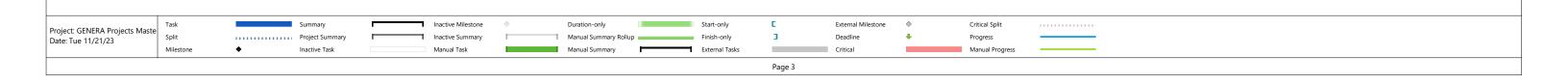
## GENERA Project Master Tracker





## GENERA Project Master Tracker





# Exhibit C Genera Project Cash Flow\_31Oct2023

Actual Cost Baseline Cost Remaining Cost

\$36,781,589.13

\$908,250,079.86

\$765,359,490.73



The chart shows the project's cumulative cost and the cost per quater.

To see the costs for a different time period, select the Edit option from the Field List.

The table below shows cost information for all top-level tasks. To see cost stats for all tasks, set the Outline Level in the Field List.

Name	Remaining Cost	Actual Cost	Cost	ACWP	BCWP	BCWS
Milestones	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operations Outage Schedule	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Permits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
NME Projects	\$48,607,714.71	\$5,527,240.15	\$54,134,954.86	\$5,527,240.15	\$5,300,450.70	\$5,950,125.00
Federal Projects	\$716,751,776.02	\$31,254,348.98	\$748,006,125.0 0	\$31,254,348.98	\$29,577,972.5 4	\$2,989,414.47

# Exhibit D Genera Cost Overview\_31Oct2023

## **COST OVERVIEW**

MON 7/3/23 - WED 2/11/26

COST

\$802,141,079.86

**REMAINING COST** 

\$765,359,490.73

% COMPLETE

26%

#### **COST STATUS**

Cost status for top level tasks.

Name	Actual Cost	Remaining Cost	Baseline Cost	Cost	Cost Variance
Milestones	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operations Outage Schedule	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Permits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
NME Projects	\$5,527,240 .15	\$48,607,714.7 1	\$67,079,954 .86	\$54,134,954. 86	(\$12,945,000. 00)
Federal Projects	\$31,254,34 8.98	\$716,751,776. 02	\$841,170,12 5.00	\$748,006,12 5.00	(\$93,164,000. 00)

#### **PROGRESS VERSUS COST**



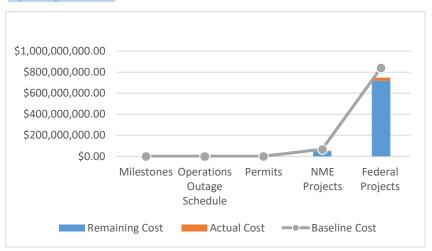
Progress made versus the cost spent over time. If % Complete line below the cumulative c line, your project may be over budget.



#### **COST STATUS**

Cost status for all top-level tasks. Is your baseline zero?

#### Try setting as baseline



# Exhibit E Genera Critical Tasks\_31Oct2023

## **CRITICAL TASKS**

## Exhibit E

**Resource Names** 

Subcontracts[\$45, 200,000.00]

Subcontracts[\$45,

Subcontracts[\$61

3,541,936.00]

200,000.00]

Subcontracts

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.

Aguirre Procurement General	Mon 7/3/23	Thu 11/30/23	83%	0 hrs
Procurement Long Lead Iteams	Fri 11/10/23	Thu 1/11/24	0%	0 hrs
FAASt New Black Start System at Costa Sur	Fri 1/12/24	Wed 2/11/26	0%	0 hrs
FAASt New Black Start System at Aguirre (Yabucoa)	Fri 1/12/24	Wed 2/11/26	0%	0 hrs
Simple Gas Turbines	Fri 1/12/24	Wed 2/11/26	0%	0 hrs

Start

% Complete

**Remaining Work** 

■ Status: Complete

■ Status: On Schedule

■ Status: Late

Status: Future Task

# Exhibit F Genera Project Overview\_31Oct2023

# **PROJECT OVERVIEW**

MON 7/3/23 - WED 2/11/26

6 COMPLETE

26%

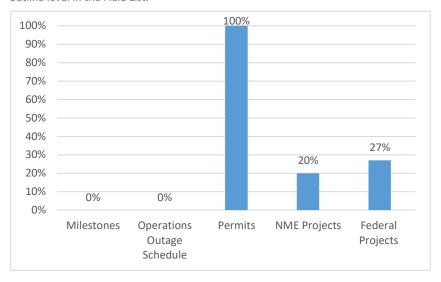
### MILESTONES DUE

Milestones that are coming soon.

Name	Finish		
Projects Completed at Cambalache	Tue 12/5/23		
Projects Completed at Palo Seco Power Plant	Thu 8/8/24		
Projects Completed at Mayaguez	Mon 9/2/24		
Projects Completed at San Juan Power Plant	Fri 2/7/25		
Projects Completed at Aguirre Power Plant	Tue 10/22/24		
Projects Completed at Costa Sur Power Plant	Wed 8/6/25		
Steam Turbine 5	Mon 7/3/23		
Steam Boiler 9	Fri 3/8/24		
Combustion Turbine 6	Mon 3/18/24		
Steam Turbine 6	Mon 3/18/24		
Steam Boiler 7	Mon 10/7/24		
Steam Boiler 3	Tue 11/21/23		
Steam Boiler 6	Mon 1/15/24		
Steam Boiler 1	Mon 7/3/23		
Steam Boiler 2	Fri 12/15/23		
Combine Cycle Stack 1	Fri 1/26/24		
Combine Cycle Stack 2	Fri 1/26/24		

### % 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.



#### 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%	
Unit 4 - Polishing System	Mon 9/25/23	Fri 11/3/23	30 days	0%	Subcontracts[ \$1,000,000.00 ]
Aguirre Unit 1 - Environmental Maintenance	Mon 7/3/23	Fri 8/11/23	30 days	0%	Subcontracts[ \$3,000,000.00 ]
Procurement Water Heater for Dearator	Mon 7/3/23	Mon 8/7/23	23 days	0%	Subcontracts[ \$400,000.00]
PS 4 Refractory, Insulation, scaffolding and Painting	Mon 9/25/23	Fri 12/15/23	60 days	10%	Subcontracts[ \$700,000.00]
Unit 4, Superheater Header Num. 5 Material and Installation	Mon 9/25/23	Fri 12/15/23	60 days	10%	Subcontracts[ \$2,243,385.00 ]
Fuel Igniters Replacement Installation	Mon 7/10/23	Fri 9/29/23	60 days	0%	Subcontracts[ \$2,364,000.00 ]

# Exhibit F