

**GOBIERNO DE PUERTO RICO
JUNTA REGLAMENTADORA DE SERVICIO PÚBLICO
NEGOCIADO DE ENERGÍA DE PUERTO RICO**

NEPR Received: Jun 15, 2020 5:24 PM
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IN RE:

**SOLICITUD DE PROPUESTAS PARA
GENERACION TEMPORERA DE
EMERGENCIA**

CASE NUM.:

NEPR-AP-2020-0001

SUBJECT:

Reporte de Estatus y Progreso

MOCIÓN PARA INFORMAR PROGRESO DE REPARACIONES

AL HONORABLE NEGOCIADO DE ENERGÍA:

COMPARECE la Autoridad de Energía Eléctrica de Puerto Rico a través de su representación legal y muy respetuosamente presenta al Negociado de Energía de la Junta Reglamentadora del Servicio Público (el “Negociado de Energía”) el reporte titulado *Costa Sur Damage Assessment and Repairs Progress Status Report* fechado de 15 de junio de 2020 (el “Reporte de Progreso”). Exhibit A. El Reporte de Progreso detalla las evaluaciones, reparaciones, compras y contrataciones relacionadas con la reparación de las unidades 5 y 6 de la Central Costa Sur.

RESPECTUOSAMENTE SOMETIDO.

En San Juan, Puerto Rico, este 15 de junio de 2020.

/s Katuska Bolaños
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CERTIFICADO DE NOTIFICACIÓN

Certifico que en el día de hoy he radicado esta moción utilizando el sistema electrónico de radicación del Negociado de Energía en la siguiente dirección: <http://radicacion.energia.pr.gov> y, además, que he enviado copia de cortesía vía correo electrónico a rstgo2@gmail.com; rolando@bufeteemmanuelli.com; jessica@bufete-emmanuelli.com; notificaciones@bufete-emmanuelli.com; pedrosaade5@gmail.com; larroyo@earthjustice.org.

En San Juan, Puerto Rico, a 15 de junio de 2020.

s/ Katuska Bolaños
Katuska Bolaños

Exhibit A

*Costa Sur Damage Assessment and Repairs Progress Status Report
June 15, 2020*



**Puerto Rico
Electric Power
Authority**

Puerto Rico Electric Power Authority (PREPA)

**Costa Sur Damage Assessment and Repairs
Progress Status Report
June 15, 2020**

Introduction and Outline

Introduction

- § PREPA is currently assessing the extent of the damages suffered in the Costa Sur power plant facility
- § The goal, if achievable, is to repair the most critical elements of the plant and place Unit 5 in commercial operations as soon as possible
- § In addition, the Puerto Rico Energy Bureau (PREB) approved the commencement of assessment and repair activities for Unit 6
- § This report outlines PREPA’s progress in its assessment, repairs, and procurement activities related to Costa Sur Unit 5 and Unit 6

Report Outline

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Program Overview

Budget

Approved Budget for Program	\$40,200,000
Est. Balance Available for Program (Based on Invoices)	\$35,191,837
Unit 5	
Budget Baseline	\$25,200,000
Amount Invoiced	\$5,008,163
Disbursements	\$421,694
Balance Available (Based on Invoices)	\$20,191,837
Unit 6	
Budget Baseline (subject to baseline review)	\$15,000,000
Amount Invoiced	TBD
Disbursements	TBD
Balance Available (Based on Invoices)	\$15,000,000

Procurement

49 Total Procurements	15 Total Emergency Procurements	\$17.2M Total Amount Contracts Awarded	TBD % Total Procurements Completed
Unit 5		Unit 6	
49 U5 Total Procurements	15 U5 Emergency Procurements	TBD U6 Total Procurements	TBD U6 Emergency Procurements
\$17.2M U5 Amount Contracts Awarded	91.8% U5 % Procurements Completed	TBD U6 Amount Contracts Awarded	TBD U6 % Procurements Completed


Schedule

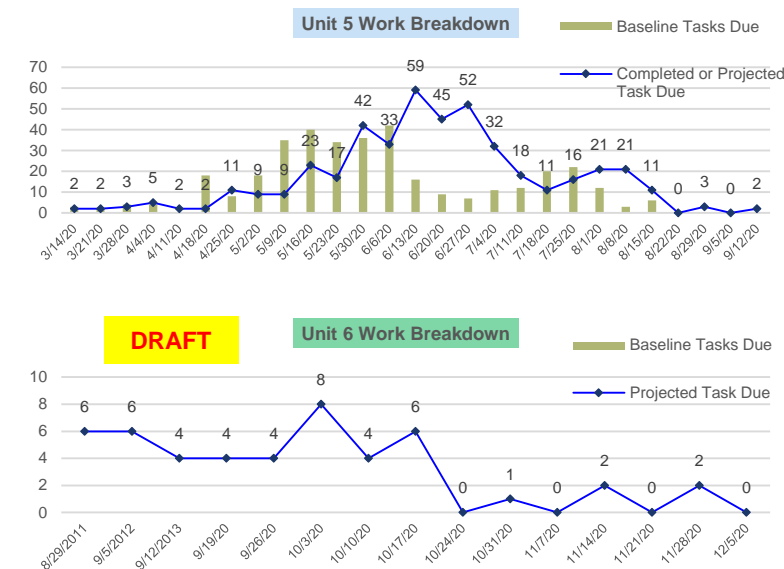
Unit 5		Unit 6	
1/8/2020 Start Date	8/14/2020 U5 Start-Up Date	5/22/2020 Start Date	TBD U6 Start-Up Date
43.17% Time Elapsed	49.00% % Completion	TBD Time Elapsed	TBD % Completion
156 Total Completed Tasks	55 Pending Tasks On-Track	TBD Total Completed Tasks	TBD Pending Tasks On-Track
74 Pending Tasks Delayed	176 Pending Tasks Overdue	TBD Pending Tasks Delayed	TBD Pending Tasks Overdue

Scope

Unit 5		Unit 6	
62 Workstreams Identified	20 Workstreams at 100% Completion	TBD Workstreams Identified	TBD Workstreams at 100% Completion

Weekly Headcount (Maximum)*

	181 PREPA's Max Weekly Headcount	333 Max Total Weekly Headcount
	152 Contractor's Max Weekly Headcount	



Unit 5		Unit 6	
181 PREPA's Max Weekly Headcount (Assigned to Unit 5)	TBD PREPA's Max Weekly Headcount (Assigned to Unit 6)	181 PREPA's Max Weekly Headcount (Assigned to Unit 5)	TBD PREPA's Max Weekly Headcount (Assigned to Unit 6)
152 Contractor's Max Weekly Headcount (Assigned to Unit 5)	TBD Contractor's Max Weekly Headcount (Assigned to Unit 6)	152 Contractor's Max Weekly Headcount (Assigned to Unit 5)	TBD Contractor's Max Weekly Headcount (Assigned to Unit 6)
333 Total Max Headcount (Assigned to Unit 5)	TBD Total Max Headcount (Assigned to Unit 6)	333 Total Max Headcount (Assigned to Unit 5)	TBD Total Max Headcount (Assigned to Unit 6)

* Note: Maximum weekly headcount based week starting on 6/8/2020



Unit 5 Executive Summary

49.00%
% Completion

43.17%
Time Elapsed

Management Notes:

- § Main workstreams ahead of schedule: Crossover Link Desuperheater and Condensate Water Tank Design and Construction
- § Several accelerated completion proposals have been negotiated with Contractors for critical tasks such as the Main Control Room repairs and Condensate Tank Repairs and temporary connection
- § Most delayed tasks are related to workstreams assigned to PREPA; additional personnel has been reported in the past weeks
- § Main workstreams to watch out: Boiler Interior Works and Demineralized Water Treatment

Scope and Metrics by Workstream

62

Identified Workstreams

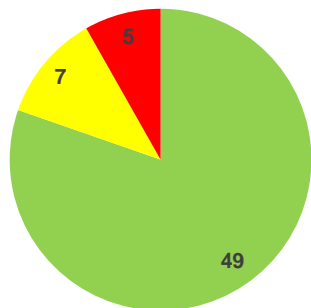
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Workstreams at 100% Completion

0

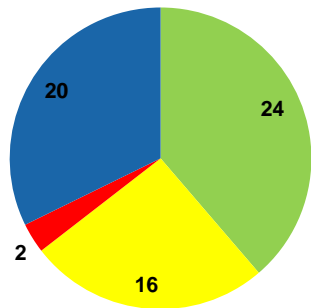
Workstreams Added (Since Last Report)

Budget



■ On-Budget
■ At-Risk
■ Over Budget

Schedule



■ On-Track
■ At-Risk
■ Overdue
■ Completed

Financials

Budget Baseline

\$25,200,000

\$421,694

Total YTD Disbursements

\$5,008,163

Total YTD Amount Invoiced

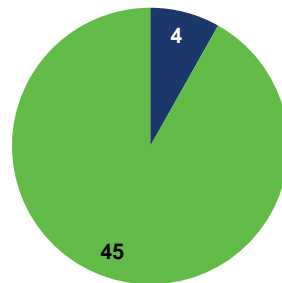
\$17,200,506

Total Committed
(Based on Contract Awards)

\$20,191,837

Balance Available
(Based on Invoices)

Procurement Status



91.8%
% Procurements Completed

■ In-Progress
■ Awarded

49

Total Procurements

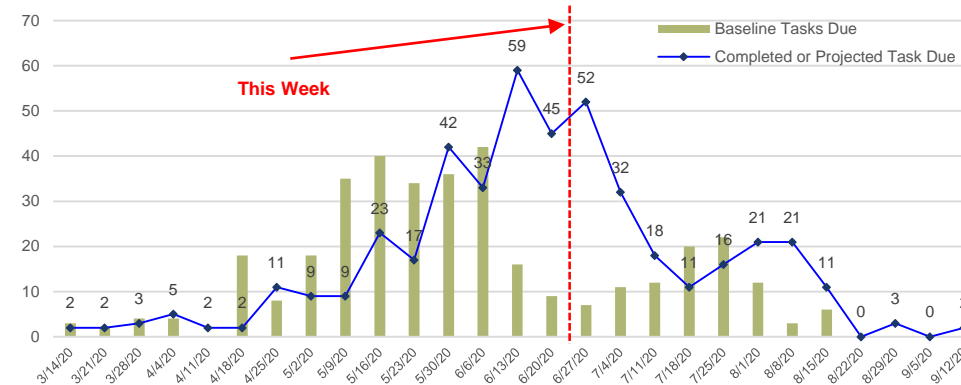
15

Emergency Procurements

\$17.2M

Amount Contracts Awarded

Schedule Work Breakdown



Schedule Metrics

461

Total Scheduled Tasks

55

Pending Tasks On-Track

45

Tasks Due This Week

156

YTD Tasks Completed

74

Pending Tasks Delayed

52

Tasks Due Next Week

176

Pending Tasks Overdue

189

Tasks Due in June

Weekly Headcount (Based on week starting 6/8)



181

PREPA's Max Weekly Headcount



152

Contractor's Max Weekly Headcount
















333

Max Total Weekly Headcount

Unit 5 Project Summary by Workstream

ID	Workstream Description	Est. Cost	Resources Assigned	% Complete	Scheduled Start	Scheduled Finish	Status	Tasks Completed	Tasks Pending
1	Exterior Inspection Boiler Units 5 &6	\$83,170	Caribe GE International Energy	100%	1/8/2020	3/30/2020	Completed	3	0
2	Preliminary Structural Inspection Works Units 3,4, 5 and 6	\$337,735	Caribe GE International Energy	100%	1/27/2020	1/31/2020	Completed	1	0
3	Initial Assessment High Energy Piping Post Seismic Event Units 5 and 6	\$22,540	Caribe GE International Energy	100%	1/27/2020	2/5/2020	Completed	1	0
4	Initial Lead Removal for Immediate Repair Works Units 3,4 and 5	\$86,941	Energys Engineering Corp.	100%	2/3/2020	3/25/2020	Completed	1	0
5	Immediate Repair Works for Safety and Continuing Inspection Works Units 3, 4 , and 5	\$0	Energys Engineering Corp.	100%	2/7/2020	3/3/2020	Completed	1	0
6	Water and Fuel Tanks Condition Survey (20 tanks)	\$134,448	Heinsen Global	100%	2/11/2020	3/16/2020	Completed	1	0
7	Interior Inspection Work Boilers Units 5 and 6	\$66,030	Caribe GE International Energy	100%	2/17/2020	4/7/2020	Completed	1	0
8	Condition Survey and Testing for Concrete Pedestals for Power Turbine and Generator Units 5 and 6	\$55,160	Heinsen Global	100%	3/6/2020	6/2/2020	Completed	1	0
9	Inspection and Condition Survey Water Tunnel Condensers 5 and 6	\$83,100	Marine Diving	100%	3/9/2020	5/27/2020	Completed	4	0
10	Geotechnical Post Seismic Event Condition Survey	\$349,047	Earth Engineers, PSC	70%	3/12/2020	7/10/2020	At Risk	4	1
11	Project Management and Inspection Team for Rehabilitation Unit 5	\$1,020,000	PREPA. Contractors (Various)	89%	1/7/2020	7/3/2020	On Track	0	1

Overarching Workstream Initiatives

-  Eng. & Technical Studies
-  Aux. Equipment Repairs
-  Asbestos Removal & Disposing
-  Crossover Link Desuperheater
-  Turbine Inspection & Repairs
-  U5 Structural Repairs
-  Civil & Other Reconstruction
-  Lead Removal Works
-  Operational Test & Control Tasks
-  Generator Inspection & Repairs
-  Condensate Water Tank Repairs
-  Emergency Declaration
-  Boiler Unit 5 Works
-  MPT Test and Repair Dikes
-  Other Works



Unit 5 Project Summary by Workstream (Cont'd)

ID	Workstream Description	Est. Cost	Resources Assigned	% Complete	Scheduled Start	Scheduled Finish	Status	Tasks Completed	Tasks Pending
12	Lead Removal Works for Units 1-6 (Phase 2, 3 and 4)	\$1,111,843	JR Industrial Contractors, PREPA	33%	3/30/2020	8/25/2020	At Risk	3	1
12A	Asbestos Removal and Disposal Unit 5	\$199,000	Caribe Hydroblasting	52%	3/23/2020	7/25/2020	At Risk	3	1
13	Structure Steel Repair Works Units 5 - phase 2	\$1,367,075	General Electric Fieldcore (GEF)	100%	3/23/2020	4/14/2020	Completed	3	1
14	Structure Steel Repair Works Units 5 - phase 3 & 4	\$657,503	General Electric Fieldcore (GEF)	20%	5/11/2020	7/7/2020	On Track	0	2
15	Structure Steel Repair Works Units 1 and 2 phase 2	\$286,669	General Electric Fieldcore (GEF)	0%	7/13/2020	8/28/2020	At Risk	0	1
16	Structure Steel Repair Works Units 3 and 4 - phase 2 and 3	\$282,138	General Electric Fieldcore (GEF)	0%	7/13/2020	9/12/2020	At Risk	0	1
17	Structural Steel Repair Works Unit 6 - phase 2, 3 and 4	\$1,406,615	General Electric Fieldcore (GEF)	0%	7/20/2020	9/12/2020	On Track	0	2
18	Boiler Unit 5 Interior Works	\$500,000	PREPA	53%	5/11/2020	6/29/2020	At Risk	21	57
19	Boiler Unit 5 Preparation (Boiler Wash & Others)	\$1,000,000	Induchem	100%	4/13/2020	4/29/2020	Completed	13	0
20	Temporary Connection Condensate Water Tanks 3 and 4	\$220,800	Energys Engineering Corp.	100%	4/15/2020	6/3/2020	Completed	1	0
22	Condensate Water Tank Design and Construction	\$750,000	Heinsen Global, RG Engineering, PREPA	85%	4/15/2020	7/27/2020	On Track	5	8
24	Demineralized Water Treatment Demi RO and Demi Resina	\$840,000	Energys Engineering Corp., PREPA	10%	6/4/2020	6/27/2020	On Track	0	2

Overarching Workstream Initiatives
















- Eng. & Technical Studies
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Unit 5 Project Summary by Workstream (Cont'd)

ID	Workstream Description	Est. Cost	Resources Assigned	% Complete	Scheduled Start	Scheduled Finish	Status	Tasks Completed	Tasks Pending
25	Existing 50 Ton Crane	\$78,492	Energys Engineering Corp., Vital Energy	99%	4/22/2020	6/2/2020	Overdue	1	1
26	Civil and Interior Works at Unit 5 Control Room	\$180,000	ALL Contractors & Services Corp, PREPA	60%	4/6/2020	6/12/2020	On Track	1	1
27	Compressor Room Demolition and Reconstruction	\$58,515	ALL Contractors & Services Corp	19%	5/29/2020	7/17/2020	At Risk	0	1
28	Engineering Room Demolition and Reconstruction	\$0	ALL Contractors & Services Corp	0%	5/25/2020	7/2/2020	On Track	0	1
29	Civil Repair Work Shift Engineer Room	\$89,700	ALL Contractors & Services Corp	5%	5/11/2020	7/18/2020	On Track	0	1
30	Boilers Crossover links - Desuperheater Replacement	\$1,800,000	General Electric Fieldcore (GEF)	79%	4/20/2020	6/26/2020	On Track	41	16
31	Mechanical Inspection, Repair & Alignment (Fans and Pumps)	\$120,000	PREPA	30%	5/5/2020	8/10/2020	At Risk	24	114
32	Non Destructive Test on Steam piping Unit 5	\$250,000	Alonso & Carus Iron Works	100%	5/18/2020	6/6/2020	Completed	1	0
33	Line Valves Overhaul	\$49,230	Ensypa	98%	4/27/2020	7/3/2020	On Track	7	2
34	Safety Valves Repair	\$0	PREPA	100%	1/7/2020	1/7/2020	Completed	1	0
36	New Overhead Crane	\$1,556,943	Master Link	100%	3/9/2020	5/30/2020	Completed	2	0
37	Boiler Insulation Activities	\$700,000	JR Industrial Contractors, PREPA	18%	6/1/2020	8/7/2020	On Track	0	2

Overarching Workstream Initiatives

-  Eng. & Technical Studies
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-  U5 Structural Repairs
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Unit 5 Project Summary by Workstream (Cont'd)

ID	Workstream Description	Est. Cost	Resources Assigned	% Complete	Scheduled Start	Scheduled Finish	Status	Tasks Completed	Tasks Pending
38	Condenser Unit 5 Activities	\$180,000	PREPA	0%	7/2/2020	8/12/2020	At Risk	0	14
39	Condensate Recirculation Discharge Pipe (12 ft diameter)	\$900,000	Malnat	40%	5/11/2020	7/11/2020	On Track	0	1
41	Cargo Elevators	\$60,000	Vertech, Inc.	100%	4/8/2020	4/8/2020	Completed	1	0
42	Inspection on High Energy Supports (Pipe Hangers)	\$250,000	5 Senses Solutions	0%	6/4/2020	7/17/2020	At Risk	0	1
43	Metering Station, Automation, TWI, Opacimeters 5-6, and Oil Flush Turbine U. 5	\$1,812,000	LT Automation, PREPA	17%	5/16/2020	8/10/2020	At Risk	1	7
44	DCS Foxboro Inspection - Boilers	\$60,000	PREPA	0%	7/1/2020	7/22/2020	On Track	0	1
45	Mark VI Turbines Inspection	\$60,000	PREPA	0%	7/1/2020	7/22/2020	On Track	0	1
46	Trip Test Boilers and Turbine	\$6,000	PREPA	0%	7/22/2020	8/3/2020	On Track	0	1
47	Natural Gas System Activities	\$1,000,000	ALL Contractors & Services Corp, PREPA	16%	4/30/2020	9/30/2020	At Risk	1	4
49	Reestablish Potable Water System	\$12,000	PREPA	100%	4/25/2020	5/8/2020	Completed	1	0
50	Reestablish of Compressed Gases, Sulfuric Acid, CO2 and Caustic Soda System	\$12,000	Contractor TBD	0%	6/29/2020	6/30/2020	On Track	0	1
51	Blow off Pumps Test	\$6,000	PREPA	0%	6/29/2020	7/4/2020	On Track	0	1

Overarching Workstream Initiatives

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Unit 5 Project Summary by Workstream (Cont'd)

ID	Workstream Description	Est. Cost	Resources Assigned	% Complete	Scheduled Start	Scheduled Finish	Status	Tasks Completed	Tasks Pending
52	Boiler Prestart-Up Jobs / Hydrostatic Test	\$6,000	PREPA	0%	8/7/2020	8/12/2020	On Track	0	3
53	Temporary Laboratory Preparation and Commissioning Trailer	\$70,000	ALL Contractors & Services Corp	5%	6/8/2020	6/16/2020	Overdue	0	1
54	Temporary Office for Shift Engineer Trailer	\$147,650	ALL Contractors & Services Corp	100%	6/11/2020	6/20/2020	Completed	1	0
55	New Laboratory and Administration Building	\$2,400,000	Contractor TBD	0%	6/8/2020	8/29/2020	At Risk	0	1
56	Unit 5 Star Up and Commissioning Test	\$72,000	PREPA	0%	8/4/2020	8/14/2020	On Track	0	1
48	MPT 5 Secondary Containment repairs	\$38,783	5 Senses Solutions	75%	5/4/2020	6/17/2020	On Track	0	1
57	MPT 4 Secondary Containment repairs	\$17,480	5 Senses Solutions	30%	5/4/2020	6/19/2020	On Track	0	1
58	MPT 6 Secondary Containment repairs	\$29,550	5 Senses Solutions	75%	5/6/2020	6/13/2020	On Track	0	1
59	Mitigation of contaminated terrain switchyard 115kV, Autotransformer	\$20,000	5 Senses Solutions	100%	4/8/2020	6/5/2020	Completed	2	0
60	Structural Concrete Repairs Discharge Channel	\$1,750,950	Contractor TBD	0%	7/6/2020	11/27/2020	On Track	0	1
61	Generator Inspection and Repairs	-	PREPA	3%	5/16/2020	8/12/2020	At Risk	1	14
62	Turbine Inspection and Repairs	-	PREPA	16%	5/4/2020	8/11/2020	At Risk	1	27

Overarching Workstream Initiatives
















- Eng. & Technical Studies
- Aux. Equipment Repairs
- Asbestos Removal & Disposing
- Unit 5 Startup and Commissioning
- Turbine Inspection & Repairs
- U5 Structural Repairs
- Civil & Other Reconstruction
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Unit 5 Project Summary by Workstream (Cont'd)

ID	Workstream Description	Est. Cost	Resources Assigned	% Complete	Scheduled Start	Scheduled Finish	Status	Tasks Completed	Tasks Pending
63	Electrical Conservation Works	-	PREPA	57%	5/12/2020	7/23/2020	At Risk	2	3
64	Emergency Declaration	\$0	PREPA	100%	3/23/2020	3/23/2020	Completed	0	0
65	Scaffolding & Others	\$531,186	Brand, Contractor (Various)	75%	2/3/2020	8/31/2020	On Track	1	1
Total		\$25,184,292							

Overarching Workstream Initiatives

-  Eng. & Technical Studies
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-  Asbestos Removal & Disposing
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-  U5 Structural Repairs
-  Civil & Other Reconstruction
-  Lead Removal Works
-  Operational Test & Control Tasks
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-  Condensate Water Tank Repairs
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-  Other Works



Unit 5 Procurement Plan - Pipeline

The following table outlines the procurements currently in the pipeline to support the Costa Sur U5 Assessment and Repairs project:

Procurement Description	Procurement Type	Est. Amount	Status	Target Date	Update
Structural Concrete Repairs to Outfall channel structure, ending segment	Emergency Procurement	\$1,750,950	Planning Stage	TBD	§ Waiting for Geotechnical Results so PREPA may commenced with the design process
Temporary Laboratory Offices (Rental - 12 Months)	Emergency Procurement	\$70,000	Evaluating RFP Responses	TBD	§ RFP has been published several times with limited responses from the marketplace
Turbine-Generator Inspection Work	Emergency Procurement	\$1,200,000	Evaluating RFP Responses	TBD	§ RFP will be executed to have a “plan B” in case there is an issue with this equipment during TA Inspection Phase
Temporary Mobile Water Treatment Plant	Emergency Procurement	\$745,000	Evaluating RFP Responses	TBD	§ RFP will be executed to have a “plan B” in case there is an issue with the delivery of the new Multimedia Filters to the Existing Water Treatment Plant
Estimated Total		\$3,835,950			



Unit 5 Procurement Plan - Awarded

The following table outlines the procurements awarded with new or existing contracts to support Costa Sur Assessment & Repairs:

#	Procurement Description	Procurement Type*	Cost	Associated Workstream #	Contract #	Contractor Name
1.	Exterior mechanical inspection of the condition of the boilers	Service Upon Request Agreement	\$83,170	1	83998	CARIBE GE INTERNATIONAL ENERGY
2.	Interior mechanical inspection of the condition of the boilers Units 5 and 6	Service Upon Request Agreement	\$66,030	7	83998	CARIBE GE INTERNATIONAL ENERGY
3.	Preliminary Visual Inspection of Steam Piping and Equipment and Structural Supports.	Service Upon Request Agreement	\$22,540	3	84002	CARIBE GE INTERNATIONAL ENERGY
4.	Preliminary Inspection and Steel Structural Elements for Boilers and Auxiliary Equipment (units 3-4)	Service Upon Request Agreement	\$39,100	2	84002	CARIBE GE INTERNATIONAL ENERGY
5.	Preliminary Inspection and Steel Structural Elements for Boilers and Auxiliary Equipment (units 5-6)	Service Upon Request Agreement		2	84002	CARIBE GE INTERNATIONAL ENERGY
6.	Structural Elements Immediate Repair Work to Allow Additional Interior Inspection of the Boilers and Other Equipment	Service Upon Request Agreement	\$86,941	5	82470	ENERSYS ENGINEERING CORP
7.	More Detail Inspection, Structural Design Work for Repairs Units 5 and 6 (Before Put On Service). Also, Structural Assessment Structures Units 1 and 2	Service Upon Request Agreement	\$298,635	2	84002	CARIBE GE INTERNATIONAL ENERGY
8.	Structural Repairs Cross Bracings Structure - Overhead Crane 1-6	Service Upon Request Agreement	\$78,492	25	82470	ENERSYS ENGINEERING CORP
9.	Structural Repair Works (Temporary Connection) Condensate Water Tanks	Service Upon Request Agreement	\$220,800	20	82470	ENERSYS ENGINEERING CORP
10.	Insulation Repair Works in Boiler 5	Service Upon Request Agreement	\$700,000	37	86283	J R INDUSTRIAL CONTRACTORS INC
11.	Old Water Condensate Tanks Interconnection Works to Unit 5 Demin Water Cycle System	Service Upon Request Agreement	\$840,000	24	82470	ENERSYS ENGINEERING CORP

* Note: Service Upon Request Agreements refers to agreements that PREPA has in place to be used in the event that a need arises from one of the plants within the specified scope. Cost associated with these contracts are only a fraction of the total contract amount.



Unit 5 Procurement Plan – Awarded (Cont'd)

The following table outlines the procurements awarded with new or existing contracts to support Costa Sur Assessment & Repairs:

#	Procurement Description	Procurement Type*	Cost	Associated Workstream #	Contract #	Contractor Name
12.	Scaffolding Services	Service Upon Request Agreement	\$300,000	-	84611	BRAND ENERGY INFRASTRUCTURE
13.	Repair Works on Line Valves Unit 5	Service Upon Request Agreement	\$49,230	33	83581	ENGINEERING SYSTEMS SALES
14.	Cargo Elevators Repairs	Service Upon Request Agreement	\$7,500	41	82412	VERTECH INC
15.	Integration of Raw Water Pumps Controls into DCS Foxboro	Service Upon Request Agreement	\$143,605	43	85590	LT AUTOMATION
16.	Integration of Metering Station into DCS	Service Upon Request Agreement	\$64,945	43	83009	LT AUTOMATION
17.	Opacity Meter Upgrade	Service Upon Request Agreement	\$66,971	43	83994	LT AUTOMATION / J.A. MERA INC.
18.	Foxboro Controls Advantage Upgrade	Service Upon Request Agreement	\$106,511	43	82159	LT AUTOMATION
19.	Integration of Demineralizer Controls into DCS	Service Upon Request Agreement	TBD	43	84651	LT AUTOMATION
20.	Costa Sur Tanks Structural Analysis	Request for Quotes (RFQs)	\$134,448	6	85840	Heinsen Global Engineering (HGE)
21.	Geotechnical Studies	Request for Quotes (RFQs)	\$349,046	10	86125	Earth Engineers, Inc.
22.	Reconstruction Structural Steel Repairs	Request for Quotes (RFQs)	\$4,000,000	13-17	86331	ALSTOM CARIBE INC
23.	Design Work – Structural Repair Condensate Tanks	Request for Quotes (RFQs)	\$146,662	22	86344	Heinsen Global Engineering (HGE)

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Unit 5 Procurement Plan – Awarded (Cont'd)

The following table outlines the procurements awarded with new or existing contracts to support Costa Sur Assessment & Repairs:

#	Procurement Description	Procurement Type*	Cost	Associated Workstream #	Contract #	Contractor Name
24.	Underwater Visual Inspection of the Tunnels Condenser 5 and 6	Emergency Procurement	\$83,100	9	86495	MARINE DIVING CONTRACTORS
25.	Structural Repairs Condensate Tank 5	Emergency Procurement	\$309,468	22	86704	R G ENGINEERING INC
26.	Lead Removal and Disposal Works - Structural Repairs Units 1-6	Emergency Procurement	\$1,111,843	12	86566	J R INDUSTRIAL CONTRACTORS INC
27.	Asbestos Removal & Disposal Works Unit 5	Emergency Procurement	\$199,000	-	86559	Caribe Hydroblasting
28.	Natural Gas Line Pipe Structural Repair Works	Emergency Procurement	\$908,000	47	86823	ALL CONTRACTORS SERVICES CORP
29.	NDT Services Unit 5	Emergency Procurement	\$250,000	32	86678	ALONSO CARUS IRON WORKS INC
30.	Civil Works Control Room 5-6, Compressor Room, Shift Engineer Room	Emergency Procurement	\$328,215	26-29	86653	ALL CONTRACTORS SERVICES CORP
31.	Condensate Recirculating Discharge Pipe (12 ft diameter)	Emergency Procurement	\$900,000	39	86664	MALNAT ASOCIADOS
32.	MPT 4, 5 and 6 Secondary Containment Repair Works	Emergency Procurement	\$85,812	48,57-58	86581	5 SENSES SOLUTIONS LLC.
33.	Removal and Mitigation of Contaminated Soil Switchyard 115 kV	Emergency Procurement	\$20,000	59	86716	5 SENSES SOLUTIONS LLC.
34.	Temporary Administrative Offices (Rental - 12 Months)	Emergency Procurement	\$182,475	54	86552	ALL CONTRACTORS SERVICES CORP
35.	Boiler Wash	-	\$1,000,000	19	85153	INDUCHEM SERVICES

* Note: Service Upon Request Agreements refers to agreements that PREPA has in place to be used in the event that a need arises from one of the plants within the specified scope. Cost associated with these contracts are only a fraction of the total contract amount.



Unit 5 Procurement Plan – Awarded (Cont'd)

The following table outlines the procurements awarded with new or existing contracts to support Costa Sur Assessment & Repairs:

#	Procurement Description	Procurement Type*	Cost	Associated Workstream #	Contract #	Contractor Name
36.	Superheater-Desuperheat Crossover Link Piping Installation U. 5	-	\$1,766,429	30	86214	ALSTOM CARIBE INC
37.	Condition Survey and Testing for Concrete Pedestals for Power Turbine and Generator Units , 5 and 6	-	\$55,160	8	85980	Heinsen Global Engineering (HGE)
38.	January 8,2020 - Safety Inspection	-	\$3,031	-	85336	ABACUS ARCHITECTURE PSC
39.	Overhead Crane Installation and Commissioning	-	\$1,556,943	36	82717	MASTER LINK CORPORATION
40.	Costa Sur Water Tunnels for Condensers Units 5 and 6 Inspection	-	TBD	-	86114	ALSTOM CARIBE INC
41.	Existing Overhead Crane Units 3 and 6, Certification	-	\$34,412	25	84013	Vital Energy
42.	Natural Gas System Activities	-	\$78,325	47	86814	ALL CONTRACTORS SERVICES CORP
43.	Lead Paint and Asbestos Sampling Analysis	-	\$6,425	12,12A	79564	Environmental Health & Safety Services
44.	Boiler Hydroblasting	-	\$361,548	-	80903	INDUCHEM SERVICES
45.	Condenser Tube Cleaning and Outlet Boxes Cleaning	-	\$155,691	-	81017	INDUCHEM SERVICES
Estimated Total			\$17,200,506			

* Note: Service Upon Request Agreements refers to agreements that PREPA has in place to be used in the event that a need arises from one of the plants within the specified scope. Cost associated with these contracts are only a fraction of the total contract amount.



Unit 6 Executive Summary

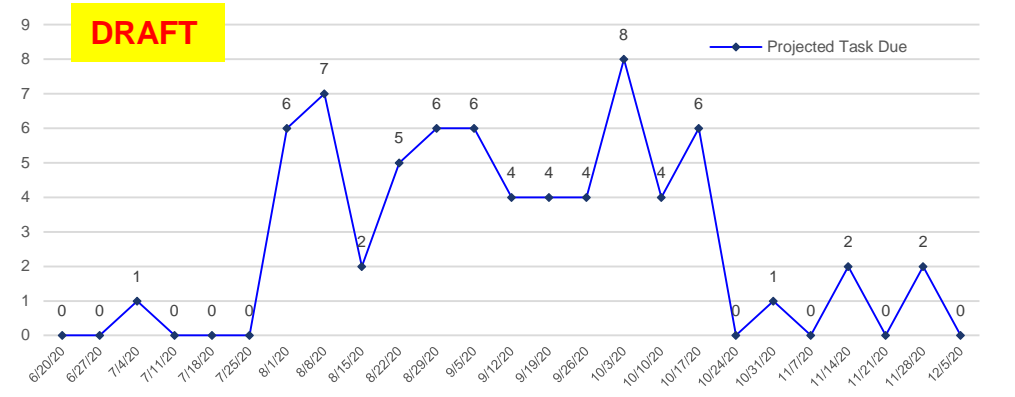
TBD
% Completion

TBD
Time Elapsed

Management Notes:

- § Preliminary schedule projects Unit 6 repairs to be completed by third week of November
- § Execution dates for identified milestones have been established; currently working with project management team to include detailed activities for each milestone
- § Budget baseline to be finalized once detailed schedule is completed and scope has been fully identified

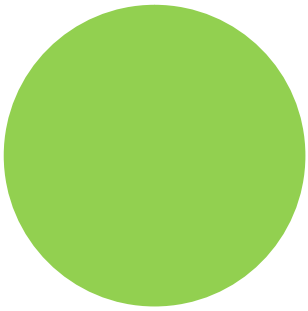
Schedule Work Breakdown



Scope and Metrics by Workstream

TBD Identified Workstreams	0 Workstreams at 100% Completion	0 Workstreams Added (Since Last Report)
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Budget



Schedule



Financials

Budget Baseline	\$15,000,000*
TBD Total YTD Disbursements	TBD Total YTD Amount Invoiced
TBD Balance Available (Based on Invoices)	

Procurement Status

0.0% % Procurements Completed		
TBD Total Procurements	TBD Emergency Procurements	\$0.0M Amount Contracts Awarded

Schedule Metrics

TBD Total Scheduled Tasks	TBD Pending Tasks On-Track	TBD Tasks Due This Week
TBD YTD Tasks Completed	TBD Pending Tasks Delayed	TBD Tasks Due Next Week
	TBD Pending Tasks Overdue	TBD Tasks Due in June

Weekly Headcount (Maximum)

	TBD PREPA's Avg. Headcount	TBD Avg. Total Headcount
	TBD Contractor's Avg. Headcount	

* Note: Budget baseline currently in development; PREPA will measure its overall budget performance against the \$40.2M approved for both units

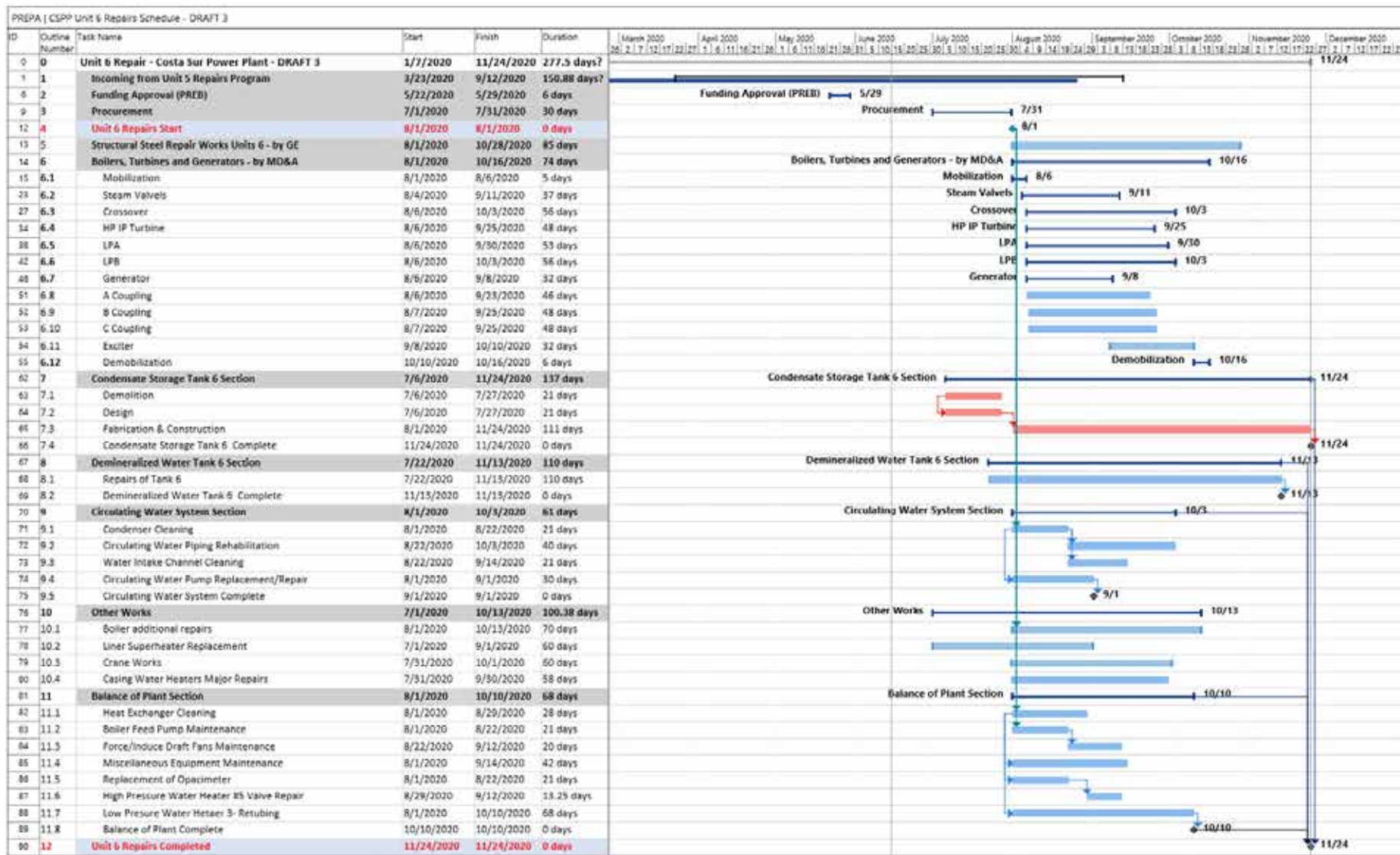
Unit 6 Schedule Update

DRAFT

Detailed schedule for Costa Sur Unit 6 is in development. Executive summary dashboard and budget baseline will be populated once scheduled is finalized and baseline is established.

The milestone schedule serves for informational purpose and is subject to changes and revisions.

For the June 30, 2020 submittal, PREPA will be reporting the full schedule detail that will serve as baseline for project execution and performance metrics.



Emergency Management KPI Dashboard

DEMAND (MW)

2170

AS OF JUN 12, 2020

CUSTOMERS ENERGIZED

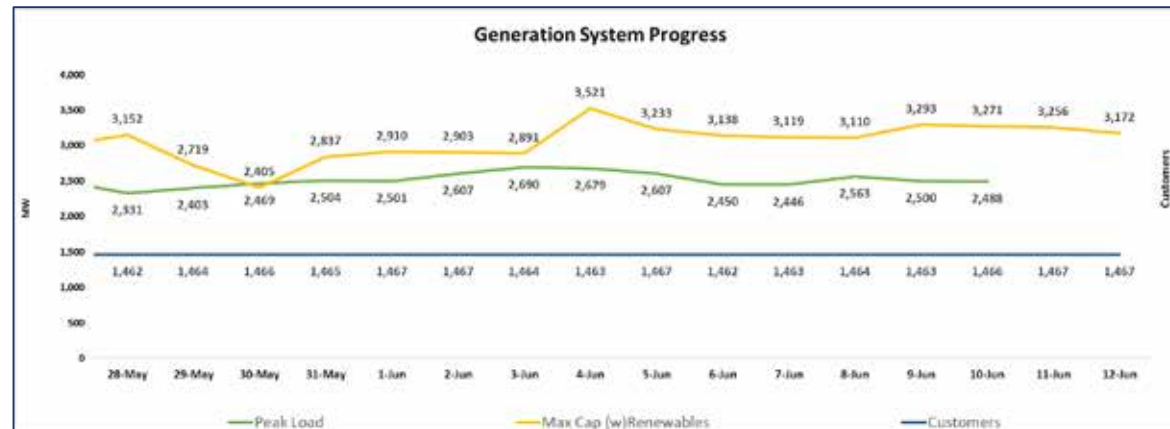
99.93%

1,467,184

Progress of Critical Generation System					
Power Plant	Unit	Power Plant Type	Installed Generation (MW)	Maximum Capacity (MW)	Actual Generation (MW)
Palo Seco	1	Base Load	85	70	64
Palo Seco	3	Base Load	216	140	140
Palo Seco	4	Base Load	216	60	117
Aguirre	1	Base Load	450	450	338
Aguirre	2	Base Load	450	450	280
Aguirre CC	Stag 1	Base Load	296	145	57
Aguirre CC	Steam 1	Base Load	96	18	17
Aguirre CC	Stag 2	Base Load	296	140	0
San Juan CC	CT 5	Base Load	160	160	120
San Juan CC	STG 5	Base Load	60	60	40
San Juan CC	CT 6	Base Load	160	160	120
Cambalache	2	Peaker	82.5	77	0
Cambalache	3	Peaker	82.5	77	0
Daguao	1-1	Peaker	18	18	0
Daguao	1-2	Peaker	21	16	0
Palo Seco Hidrogas	1-1	Peaker	21	19	19
Palo Seco Hidrogas	2-1	Peaker	21	21	21
Palo Seco Megagens	1, 2, 3	Peaker	66	65	65
Mayaguez	2	Peaker	55	55	0
Mayaguez	3	Peaker	55	51	0
Mayaguez	4	Peaker	55	50	0
Yabucoa	1-1	Peaker	21	20	0
Vega Baja	1-2	Peaker	21	19	0
Hidroeléctricas		Peaker	23	21	10
AES	2	Base Load	262	257	254
EcoEléctrica	1	Base Load	177	176	161
EcoEléctrica	2	Base Load	178	176	161
ECO	Steam	Base Load	176	175	160
Sub - Total			3820	3146	2144
Renewables		Renewables	194	26	26
Total			4014	3172	2170

Generation Units Out of Service					
Power Plant	Unit	Power Plant Type	Installed Generation (MW)	Maximum Capacity (MW)	Expected date to be online*
Costa Sur	5	Base Load	410	410	August 14, 2020
Costa Sur	6	Base Load	410	410	TBD
Aguirre CC	Steam 2	Base Load	96	50	TBD
San Juan	7	Base Load	100	71	June 15, 2020
San Juan	8	Base Load	100	50	TBD
San Juan	9	Base Load	100	90	June 12, 2020
San Juan CC	STG 6	Base Load	60	60	July 31, 2020
Aguirre CC	Stag 2 (2-2)	Peaker	50	50	July 25, 2020
Costa Sur Hidrogas	1-1	Peaker	21	21	TBD
Costa Sur Hidrogas	1-2	Peaker	21	21	TBD
Jobos	1-1	Peaker	21	19	TBD
Jobos	1-2	Peaker	21	18	TBD
Aguirre Hidrogas	2-2	Peaker	21	21	TBD
Aguirre Hidrogas	2-1	Peaker	21	21	TBD
Palo Seco Hidrogas	1-2	Peaker	21	19	TBD
Mayaguez	1	Peaker	55	22	TBD
Yabucoa	1-2	Peaker	21	20	TBD
Vega Baja	1-1	Peaker	21	18	June 15, 2020
AES	1	Base Load	262	190	July 10, 2020
Sub-Total			1832	1581	
Cambalache	1	Peaker	83		Long Term Outage
Palo Seco Hidrogas	2-2	Peaker	21		Long Term Outage
Palo Seco Hidrogas	3-1	Peaker	21		Long Term Outage
Palo Seco Hidrogas	3-2	Peaker	21		Long Term Outage
Palo Seco	2	Base Load	85		Long Term Outage
San Juan Steam	10	Base Load	100		Long Term Outage
Sub-Total			331	0	
Total			2163	1581	

*The dates are as of current information and system conditions, which may vary or change with unexpected events in the electrical system operation.



Project Team and Roles and Responsibilities Matrix

Project Team Members include a diverse representation from different areas of the organization such as Generation, PMO, DFMO, and key advisors .

Team Grouping	Key Roles and Responsibilities
Executive Team	<ul style="list-style-type: none"> § Establish governance, provide direction and oversight to broader project team § Assign resources, resolve conflicts and risks, and approve execution plan § Manage stakeholder communications and engagement
Management Team	<ul style="list-style-type: none"> § Review project needs, issues, risks, and plans; resolve or escalate as needed § Provide input, feedback, and direction to the Execution and Procurement Team § Provide oversight of the contractors/vendors supporting the project
Procurement Team	<ul style="list-style-type: none"> § Manage the procurement of goods and services needed to support the Execution Team § Provide regular status updates on all procurements § Escalate issues, risks, and/or concerns as needed
Execution Team	<ul style="list-style-type: none"> § Manage the project scope, budget, and schedule § Engage regularly with controls team to provide timely and accurate update on execution § Manage contractors/vendors supporting the project
Controls Team	<ul style="list-style-type: none"> § Collect data and information related to the project scope, budget, and schedule § Develop and maintain master project schedule § Provide project information and progress to the Reporting Team
Reporting Team	<ul style="list-style-type: none"> § Develop standard project status progress reports § Manage stakeholder needs and request for communications
PREB/FOMB Interface Team	<ul style="list-style-type: none"> § Identify stakeholder engagement and communication needs § Communicate with Management and Executive Team on stakeholder requests § Review all communications issued to the stakeholder group § Provide interface support with stakeholder groups
FEMA Interface Team	<ul style="list-style-type: none"> § Identify stakeholder engagement and communication needs § Communicate with Management and Executive Team on stakeholder requests § Review all communications issued to the stakeholder group § Provide support to secure funding and any associated documentation § Provide interface support with FEMA

