

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

**NEPR**

**Received:**

**Jul 15, 2020**

**3:58 PM**

**IN RE:**

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

CASE NUM.:

NEPR-AP-2020-0001

SUBJECT:

Reporte de Estatus y Progreso

**MOCIÓN EN PRESENTACION DE INFORME DE PROGRESO  
EN CUMPLIMIENTO DE ORDEN**

AL HONORABLE NEGOCIADO DE ENERGÍA:

COMPARECE la Autoridad de Energía Eléctrica de Puerto Rico a través de su representación legal y muy respetuosamente expone y solicita:

La Autoridad de Energía Eléctrica de Puerto Rico (la “Autoridad), en cumplimiento con la Resolución y Orden del 22 de mayo del 2020. (la “Orden del 22 de Mayo”), presenta a el 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* con fecha del 15 de julio 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.

Además, en el día de ayer, la Autoridad radicó la *Moción Informativa y en Cumplimiento de Orden*<sup>1</sup> (la “Moción del 14 de Julio”) mediante la cual se informó al Negociado de Energía sobre los esfuerzos realizados para identificar la información requerida en la Orden del 22 de Mayo

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<sup>1</sup> *Moción Informativa y en Cumplimiento de Orden* radicada por la Autoridad el 14 de julio del 2020. (Incluye muestra de carta enviada a los 55 clientes de alta demanda identificados, así como, listado de clientes con un registro de contactos realizado vía telefónica).

en relación al manejo de demanda. La Moción del 14 de Julio detalla los esfuerzos realizados para contactar a los clientes de alta demanda con el objetivo de establecer acuerdos de respuesta a la demanda (*demand side management*). En cumplimiento con la obligación de reporte quincenal de esfuerzos para identificar información relacionada a manejo de demanda, la Autoridad incorpora y adopta por referencia la información y argumentos presentados en la Moción del 14 de Julio.

POR TODO LO CUAL, la Autoridad respetuosamente solicita al Negociado de Energía que tome conocimiento de lo aquí informado.

RESPETUOSAMENTE SOMETIDO.

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

/s Katuska Bolaños  
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](mailto:rstgo2@gmail.com); [rolando@bufeteemmanuelli.com](mailto:rolando@bufeteemmanuelli.com); [jessica@bufete-emmanuelli.com](mailto:jessica@bufete-emmanuelli.com); [notificaciones@bufete-emmanuelli.com](mailto:notificaciones@bufete-emmanuelli.com); [pedrosaade5@gmail.com](mailto:pedrosaade5@gmail.com); [larroyo@earthjustice.org](mailto:larroyo@earthjustice.org).

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

s/ Katuska Bolaños  
Katuska Bolaños

Exhibit A

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



**Puerto Rico  
Electric Power  
Authority**

# **Puerto Rico Electric Power Authority (PREPA)**

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**Costa Sur Damage Assessment and Repairs  
Progress Status Report  
July 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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Procurement			
104 Total Procurements	24 Total Emergency Procurements	\$21.0M Total Amount Contracts Awarded	78.8% % Total Procurements Completed
Unit 5		Unit 6	
72 U5 Total Procurements	16 U5 Emergency Procurements	32 U6 Total Procurements	8 U6 Emergency Procurements
\$17.6M U5 Amount Contracts Awarded	98.6% U5 % Procurements Completed	\$3.4M U6 Amount Contracts Awarded	34.4% U6 % Procurements Completed

**Unit 5 Work Breakdown**

Date	Baseline Tasks Due	Completed or Projected Task Due
3/14/20	2	2
3/21/20	2	2
3/28/20	3	3
4/4/20	5	5
4/11/20	2	2
4/18/20	15	11
4/25/20	9	9
5/2/20	30	9
5/9/20	20	15
5/16/20	30	29
5/23/20	19	9
5/30/20	38	38
6/6/20	46	46
6/13/20	25	25
6/20/20	40	40
6/27/20	62	62
7/4/20	39	39
7/11/20	9	9
7/18/20	4	4
7/25/20	1	1
8/1/20	0	0
8/8/20	0	0
8/15/20	0	0
8/22/20	0	0
8/29/20	0	0
9/5/20	0	0
9/12/20	0	0

**Unit 6 Work Breakdown**

Date	Projected Task Due
5/30/20	1
6/6/20	1
6/13/20	1
6/20/20	0
6/27/20	1
7/4/20	0
7/11/20	2
7/18/20	3
7/25/20	13
8/1/20	18
8/8/20	14
8/15/20	19
8/22/20	23
8/29/20	48
9/5/20	43
9/12/20	27
9/19/20	35
9/26/20	27
10/3/20	9
10/10/20	14
10/17/20	10
10/24/20	3
10/31/20	0

\* Maximum weekly headcount based week starting on 7/13/2020  
 \*\* Forecasted cost are currently being updated, subject to change

# Unit 5 Executive Summary

### Management Notes:

- Due to an aggressive execution of the project schedule, PREPA is expecting to start the process to place the unit back in commercial operations the week of July 27<sup>th</sup>
- Critical path workstreams for structural repairs, condensate discharge pipe, and demineralized tank have been completed. Focus this week is to accelerate remaining work in condensate tank in order to complete ahead of schedule
- Operational and Control Room testing are planned to start this week in preparation for unit start-up
- Workstream status is reported based on forecasted finish dates

### Scope and Metrics by Workstream

62

Identified Workstreams

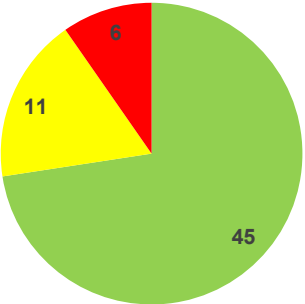
27

Workstreams at 100% Completion

0

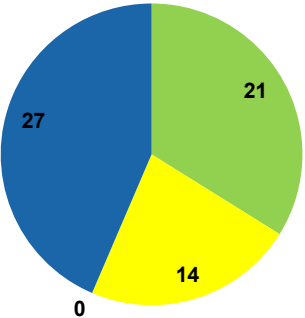
Workstreams Added (Since Last Report)

### Budget



■ On-Budget  
■ At-Risk  
■ Over Budget

### Schedule

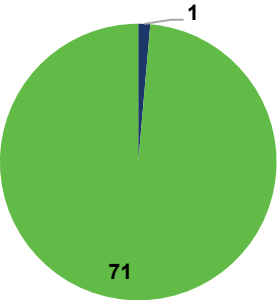


■ On-Track  
■ At-Risk  
■ Overdue  
■ Completed

### Financials

Budget Baseline	\$25,200,000
Amount Invoiced	\$8,011,921
Disbursements	\$479,652
PREPA Expenses	\$2,164,000
Balance Available	\$15,024,079
Total Committed	\$17,622,905

### Procurement Status



98.6%  
% Procurements Completed

■ In-Progress  
■ Awarded

72

Total Procurements

16

Emergency Procurements

\$17.6M

Amount Contracts Awarded

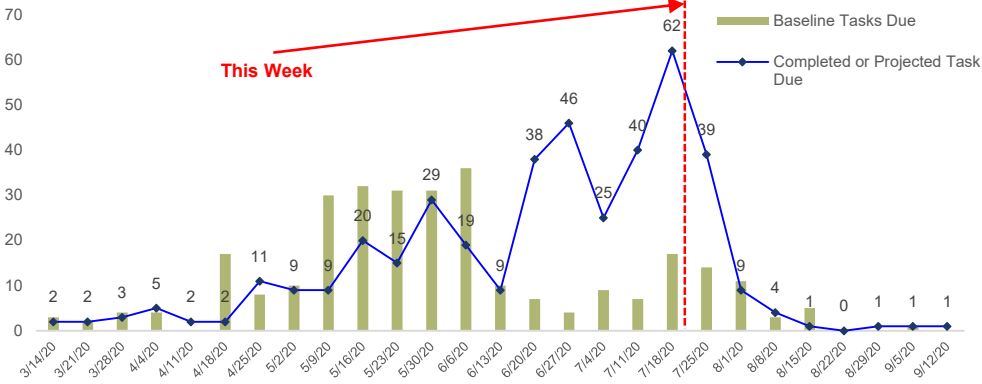
74%

% Completion

50.5%

Time Elapsed

### Schedule Work Breakdown



### Schedule Metrics

412

Total Scheduled Tasks

47

Pending Tasks On-Track

62

Tasks Due This Week

269

YTD Tasks Completed

57

Pending Tasks Delayed

39

Tasks Due Next Week

39

Pending Tasks Overdue

174

Tasks Due in July

### Weekly Headcount (Based on week starting 7/13)



161

PREPA's Max Weekly Headcount



155

Contractor's Max Weekly Headcount

316

Max Total Weekly Headcount

# Unit 5 Project Summary by Workstream

ID	Workstream Description	Budget Baseline	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	93%	3/12/2020	7/23/2020	At-Risk	4	1
11	Project Management and Inspection Team for Rehabilitation Unit 5	\$1,020,000	PREPA. Contractors (Various)	72%	3/23/2020	8/31/2020	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	Budget Baseline	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	85%	3/30/2020	7/20/2020	At-Risk	3	1
12A	Asbestos Removal and Disposal Unit 5	\$199,000	Caribe Hydroblasting	100%	3/23/2020	7/4/2020	Completed	4	0
13	Structure Steel Repair Works Units 5 - phase 2	\$1,367,075	General Electric Fieldcore (GEF)	95%	5/11/2020	7/20/2020	On Track	3	1
14	Structure Steel Repair Works Units 5 - phase 3 & 4	\$657,503	General Electric Fieldcore (GEF)	100%	5/11/2020	7/7/2020	Completed	1	1
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	0
18	Boiler Unit 5 Interior Works	\$500,000	PREPA	75%	5/11/2020	7/14/2020	At-Risk	39	19
19	Boiler Unit 5 Preparation (Boiler Wash & Others)	\$1,000,000	Induchem, AIT Technologies, Inc.	100%	4/13/2020	4/29/2020	Completed	13	0
20	Temporary Connection Condensate Water Tanks 3 and 4	\$220,800	PREPA, Enersys 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	81%	4/15/2020	7/26/2020	At-Risk	6	8
24	Demineralized Water Treatment Demi RO and Demi Resin	\$840,000	PREPA, Enersys Engineering Corp., LT Automation	84%	6/4/2020	7/17/2020	On Track	6	2

## 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	Budget Baseline	Resources Assigned	% Complete	Scheduled Start	Scheduled Finish	Status	Tasks Completed	Tasks Pending
25	Existing 50 Ton Crane	\$78,492	Energys Engineering Corp., Vital Energy	100%	4/22/2020	7/9/2020	Completed	2	0
26	Civil and Interior Works at Unit 5 Control Room	\$180,000	ALL Contractors & Services Corp	99%	5/11/2020	7/8/2020	On Track	1	1
27	Compressor Room Demolition and Reconstruction	\$58,515	ALL Contractors & Services Corp	80%	5/29/2020	7/17/2020	At-Risk	0	1
28	Engineering Room Demolition and Reconstruction ( <i>activities for this workstream are bundled in workstream #26</i> )	\$0	ALL Contractors & Services Corp	99%	5/25/2020	7/2/2020	On Track	-	-
29	Civil Repair Work Shift Engineer Room	\$89,700	ALL Contractors & Services Corp	95%	5/11/2020	7/18/2020	On Track	0	1
30	Boilers Crossover links - Desuperheater Replacement	\$1,800,000	General Electric Fieldcore (GEF)	100%	4/20/2020	7/13/2020	Completed	58	1
31	Mechanical Inspection, Repair & Alignment (Fans and Pumps)	\$120,000	PREPA, Cortes Industrial Organization	67%	5/11/2020	7/31/2020	At-Risk	64	48
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	Ensya	100%	4/27/2020	7/3/2020	Completed	9	0
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	5/7/2020	Completed	1	0
37	Boiler Insulation Activities	\$700,000	JR Industrial Contractors, PREPA	93%	6/1/2020	7/23/2020	On Track	0	2

## 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	Budget Baseline	Resources Assigned	% Complete	Scheduled Start	Scheduled Finish	Status	Tasks Completed	Tasks Pending
38	Condenser Unit 5 Activities	\$180,000	PREPA, Induchem	50%	6/15/2020	7/24/2020	On Track	5	6
39	Condensate Recirculation Discharge Pipe (12 ft diameter)	\$900,000	Malnat	100%	5/11/2020	7/11/2020	Completed	1	0
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	Environics (Subcontractor: Ocean State)	36%	7/8/2020	8/6/2020	On Track	0	2
43	Metering Station, Automation, TWI, Opacimeters 5-6, and Oil Flush Turbine U5	\$1,812,000	LT Automation, PREPA	63%	5/16/2020	8/7/2020	On Track	3	5
44	DCS Foxboro Inspection - Boilers	\$60,000	PREPA	67%	7/1/2020	7/17/2020	On Track	0	1
45	Mark VI Turbines Inspection	\$60,000	PREPA	0%	7/22/2020	7/23/2020	On-Track	0	1
46	Trip Test Boilers and Turbine	\$6,000	PREPA	0%	7/24/2020	7/27/2020	On Track	0	1
47	Natural Gas System Activities	\$1,000,000	ALL Contractors & Services Corp	65%	4/30/2020	9/30/2020	On Track	2	2
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	PREPA	100%	6/29/2020	6/30/2020	Completed	1	0
51	Blow off Pumps Test	\$6,000	PREPA	30%	6/15/2020	7/16/2020	At-Risk	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	Budget Baseline	Resources Assigned	% Complete	Scheduled Start	Scheduled Finish	Status	Tasks Completed	Tasks Pending
52	Boiler Prestart-Up Jobs / Hydrostatic Test	\$6,000	PREPA	34%	7/7/2020	7/23/2020	On Track	0	2
53	Temporary Laboratory Preparation and Commissioning Trailer	\$70,000	ALL Contractors & Services Corp	51%	6/22/2020	7/31/2020	At-Risk	0	1
54	Temporary Office for Shift Engineer Trailer	\$147,650	ALL Contractors & Services Corp	100%	6/11/2020	6/22/2020	Completed	1	0
55	New Laboratory and Administration Building	\$2,400,000	Contractor TBD	0%	12/3/2020	2/25/2021	At-Risk	0	1
56	Unit 5 Star Up and Commissioning Test	\$72,000	PREPA	0%	7/28/2020	8/6/2020	On Track	0	1
48	MPT 5 Secondary Containment repairs	\$38,783	5 Senses Solutions	75%	5/4/2020	7/11/2020	On Track	0	1
57	MPT 4 Secondary Containment repairs	\$17,480	5 Senses Solutions	30%	4/13/2020	7/24/2020	At-Risk	0	1
58	MPT 6 Secondary Containment repairs	\$29,550	5 Senses Solutions	75%	4/16/2020	7/9/2020	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	11%	6/26/2020	11/27/2020	On Track	0	1
61	Generator Inspection and Repairs	\$0	PREPA, MD&A	26%	5/16/2020	8/3/2020	On Track	4	11
62	Turbine Inspection and Repairs	\$0	PREPA, Allied Power Technologies	62%	5/4/2020	8/1/2020	At-Risk	9	8

## 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	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	Budget Baseline	Resources Assigned	% Complete	Scheduled Start	Scheduled Finish	Status	Tasks Completed	Tasks Pending
63	Electrical Conservation Works	\$0	PREPA	73%	5/12/2020	7/27/2020	At-Risk	7	6
64	Emergency Declaration	\$0	PREPA	100%	3/23/2020	3/23/2020	Completed	0	0
65	Scaffolding & Others	\$531,186	Brand, Contractor (Various)	100%	4/6/2020	5/29/2020	Completed	1	0
Total		\$25,184,292							

Overarching Workstream Initiatives

- Eng. & Technical Studies

U5 Structural Repairs

Condensate Water Tank Repairs
- Aux. Equipment Repairs

Civil & Other Reconstruction

Emergency Declaration
- Asbestos Removal & Disposing

Lead Removal Works

Boiler Unit 5 Works
- Crossover Link Desuperheater

Operational Test & Control Tasks

MPT Test and Repair Dikes
- Turbine Inspection & Repairs

Generator Inspection & Repairs

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	<ul style="list-style-type: none"> <li>Waiting for Geotechnical Results so PREPA may commenced with the design process</li> </ul>
Temporary Mobile Water Treatment Plant	Emergency Procurement	<del>\$745,000</del>	<i>On-Hold</i>	TBD	<ul style="list-style-type: none"> <li>RFP was placed on-hold</li> </ul>
Estimated Total		\$1,750,950			



# 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.	Scaffolding Services	Service Upon Request Agreement	\$300,000	65	84611	BRAND ENERGY INFRASTRUCTURE
2.	Exterior mechanical inspection of the condition of the boilers	Service Upon Request Agreement	\$83,170	1	83998	CARIBE GE INTERNATIONAL ENERGY
3.	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
4.	Preliminary Inspection and Steel Structural Elements for Boilers and Auxiliary Equipment (units 5-6)	Service Upon Request Agreement		2	84002	CARIBE GE INTERNATIONAL ENERGY
5.	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
6.	Preliminary Visual Inspection of Steam Piping and Equipment and Structural Supports.	Service Upon Request Agreement	\$22,540	3	84002	CARIBE GE INTERNATIONAL ENERGY
7.	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
8.	Structural Elements Immediate Repair Work to Allow Additional Interior Inspection of the Boilers and Other Equipment of the CSPP	Service Upon Request Agreement	\$68,441	5	82470	ENERSYS ENGINEERING CORP
9.	Lead Removal Services	Service Upon Request Agreement	\$18,500	4	82470	ENERSYS ENGINEERING CORP
10.	Structural Repair Works Old Condensate Water Tanks A-1-4, B-1-4 (Temporary Connection)	Service Upon Request Agreement	\$220,800	20	82470	ENERSYS ENGINEERING CORP
11.	Old Water Condensate Tanks Interconnection Works to Unit 5 Demin Water Cycle System	Service Upon Request Agreement	\$153,000	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.	Structural Repairs Cross Bracings Structure - Overhead Crane 1-6	Service Upon Request Agreement	\$78,492	25	82470	ENERSYS ENGINEERING CORP
13.	Repair Works on Valves Unit 5	Service Upon Request Agreement	\$49,230	33	83581	ENGINEERING SYSTEMS SALES
14.	Insulation Repair Works in Boiler 5	Service Upon Request Agreement	\$1,500,000	37	86283	J R INDUSTRIAL CONTRACTORS INC
15.	Opacity Meter Upgrade	Service Upon Request Agreement	\$66,971	43	83994	J.A. MERA INC.
16.	Integration of Raw Water Pumps Controls into DCS Foxboro	Service Upon Request Agreement	\$145,606	43	85590	LT AUTOMATION
17.	Integration of Metering Station into DCS	Service Upon Request Agreement	\$64,945	43	83009	LT AUTOMATION
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 / Schneider
20.	Repairs on fire protection systems	Service Upon Request Agreement	\$115,000	65	84101	R G ENGINEERING INC
21.	Cargo Elevators Repairs	Service Upon Request Agreement	\$60,000	41	82412	VERTECH INC
22.	MPT 4 Secondary Containment Repair Works	Emergency Procurement	\$38,783.00	48	86581	5 SENSES SOLUTIONS LLC.
23.	MPT 5 Secondary Containment Repair Works	Emergency Procurement	\$17,480.00	57	86581	5 SENSES SOLUTIONS LLC.

\* 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
24.	MPT 6 Secondary Containment Repair Works <i>(Incorporated in Unit 6)</i>	Emergency Procurement	\$0	58	86581	5 SENSES SOLUTIONS LLC.
25.	Removal and Mitigation of Contaminated Soil Switchyard 115 kV	Emergency Procurement	\$19,928	59	86716	5 SENSES SOLUTIONS LLC.
26.	Natural Gas Line Pipe Structural Repair Works	Emergency Procurement	\$908,000	47	86823	ALL CONTRACTORS SERVICES CORP
27.	Temporary Laboratory Offices (Rental - 12 Months)	Emergency Procurement	\$76,275	53	87245	ALL CONTRACTORS SERVICES CORP
28.	Temporary Administrative Offices (Rental - 12 Months)	Emergency Procurement	\$182,475	54	86552	ALL CONTRACTORS SERVICES CORP
29.	Civil Works Control Room 5-6, Compressor Room, Shift Engineer Room	Emergency Procurement	\$328,215	26-29	86553	ALL CONTRACTORS SERVICES CORP
30.	NDT Services Unit 5	Emergency Procurement	\$250,000	32	86678	ALONSO CARUS IRON WORKS INC
31.	Asbestos Removal & Disposal Works Unit 5	Emergency Procurement	\$199,000	12A	86559	Caribe Hydroblasting
32.	Lead Removal and Disposal Works - Structural Repairs Units 1-6	Emergency Procurement	\$1,111,843	12	86566	J R INDUSTRIAL CONTRACTORS INC
33.	Condensate Recirculating Discharge Pipe	Emergency Procurement	\$975,000	39	86664	MALNAT ASOCIADOS
34.	Underwater Visual Inspection of the Tunnels Condenser 5 and 6	Emergency Procurement	\$83,100	9	86495	MARINE DIVING CONTRACTORS
35.	Turbine-Generator Inspection Work	Emergency Procurement	\$379,500	61,62	87153	MECHANICAL DYNAMICS ANALYSIS.3

\* 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.	Structural Repairs Condensate Tank 5	Emergency Procurement	\$345,468	22	86704	R G ENGINEERING INC
37.	Structural Repairs Unit 1-5	Request for Quotes (RFQs)	\$2,593,385	13-17	86331	ALSTOM CARIBE INC
38.	Provide post-earthquake geotechnical evaluation of the foundation support of the different structures in the facility	Request for Quotes (RFQs)	\$349,067	10	86125	EARTH ENGINEERS INC
39.	Visual Inspection and Ultrasonic Inspect API 653	Request for Quotes (RFQs)	\$134,448	6	85840	Heisen Global Engineering (HGE)
40.	Design Work - Structural Repairs Condensate Tank 5 & Old Water Condensate tanks	Request for Quotes (RFQs)	\$146,662	22	86344	Heisen Global Engineering (HGE)
41.	Project Management and Data Analytics Support	Other	TBD	11	84276	ACUMENIAN
42.	Project Management Services	Other	\$53,500	11	84270	CPM
43.	Project Management Support	Other	\$50,000	11	85215	SCOTTMADDEN
44.	January 8,2020 - Safety Inspection	-	\$3,031	65	85336	ABACUS ARCHITECTURE PSC
45.	Trailer for Costa Sur Repairs	-	\$78,325	54	86814	ALL CONTRACTORS SERVICES CORP
46.	Crane Rental of 150 tons and 230 feet	-	\$148,000	TBD	82754	ALL CONTRACTORS SERVICES CORP
47.	Superheater-Desuperheater Link Piping Installation U. 5	-	\$1,766,429	30	86214	ALSTOM CARIBE INC

\* 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
48.	Geotechnical studies for Costa Sur	-	\$215,000	10	86920	EARTH ENGINEERS INC
49.	Cable tray installation for switchgear equipment	-	\$32,258		86961	ENGINEERING SERVICES
50.	Lead Paint and Asbestos Sampling Analysis	-	\$6,425	12, 12A	79564	Environmental Health & Safety Services
51.	Condition Survey and Testing for Concrete Pedestals for Power Turbine and Generator Units , 5 and 6	-	\$55,160	8	85980	Heisen Global Engineering (HGE)
52.	Structural engineering consulting	-	\$210,000		86919	Heisen Global Engineering (HGE)
53.	Water Treatment Tank 2 Cleaning	-	\$120,000	19	85153	INDUCHEM SERVICES
54.	Boiler Hydroblasting	-	\$120,000	19	80903	INDUCHEM SERVICES
55.	Condenser Tube Cleaning	-	\$155,691	38	81017	INDUCHEM SERVICES
56.	SS Tanks for Costa Sur Plant	-	\$495,510		81974	LT AUTOMATION
57.	TBD	-	\$46,232	24	65206	LT AUTOMATION
58.	Overhead Crane Installation and Commissioning	-	\$1,553,502	36	82717	MASTER LINK CORPORATION
59.	Existing Overhead Crane Units 3 and 6, Certification	-	\$34,412	25	84013	VITAL ENERGY CORPORATION

\* 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
60.	Relocation of A/C units	-	\$3,700	-	87148	AIT TECHNOLOGIES INC
61.	Necessary Office Supplies	-	\$2,513	-	87240	PR OFFICE SOLUTIONS
62.	Relocation of Foxboro monitors and power circuits for opacity meters	-	\$66,500	-	87275	LT AUTOMATION
63.	A/C units duct fabrication	-	\$5,640	-	87147	AIT TECHNOLOGIES INC
64.	A/C equipment and duct cleaning	-	\$64,480	-	86734	AIT TECHNOLOGIES INC
65.	Transformer Testing	-	\$48,000	-	87169	ENGINEERING SERVICES
66.	Vacuum Pump Motor Repairs	-	\$7,600	-	87167	CORTES INDUSTRIAL ORGANIZATION
67.	Chiller Mechanical Cleaning	-	\$320,000	-	78808	ENVIRONICS ENGINEERING
68.	Turbine Oil Flush	-	\$169,000	-	80175	ALLIED POWER TECHNOLOGIES
69.	Wall Panel Installation	-	\$33,694	-	87181	ENGINEERING SERVICES
70.	Turbine Oil Cooler Flush and Cleaning	-	\$9,994.00	-	87392	5 SENSES SOLUTIONS LLC.
71.	High Energy Pipe Assessment and Repairs	-	\$152,710.00	-	83534	ENVIRONICS ENGINEERING
<b>Estimated Total</b>			<b>\$17,622,905</b>			

\* 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

9.00%  
% Completion

33.5%  
Time Elapsed

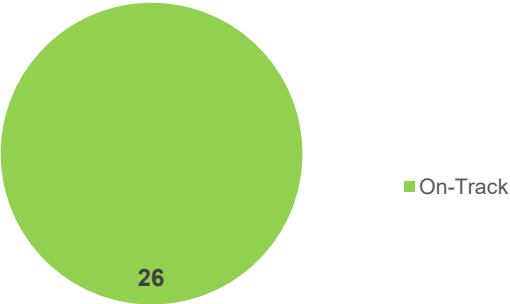
Management Notes:

- Asbestos removal activities to start this week.
- Boiler scaffolding have been installed
- Boiler wash has been completed
- Desuperheater contractor (General Electric) to mobilize the week of 7/20/20
- Time elapsed considers administrative processes and procurement activities
- PMO is currently focused on finalizing Unit 5 repairs and initiating start-up activities

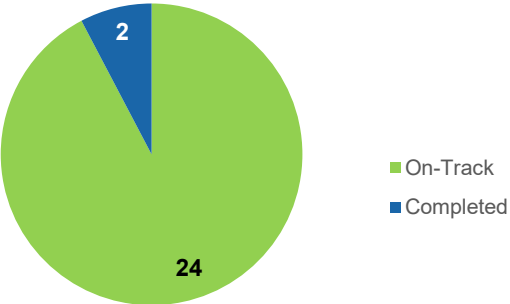
Scope and Metrics by Workstream

26	2	0
Identified Workstreams	Workstreams at 100% Completion	Workstreams Added (Since Last Report)

Budget



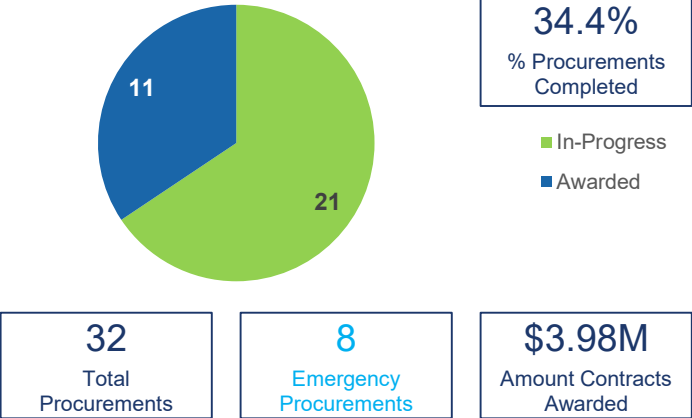
Schedule



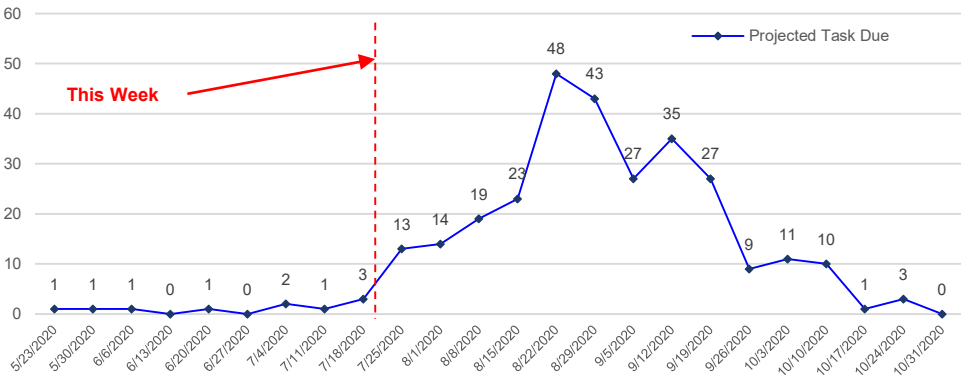
Financials

Budget Baseline	\$19,008,286
Amount Invoiced	TBD
Disbursements	TBD
PREPA Expenses	TBD
Balance Available	\$19,008,286
Total Committed	\$3,977,545

Procurement Status



Schedule Work Breakdown



Schedule Metrics

294	TBD	3
Total Scheduled Tasks	Pending Tasks On-Track	Tasks Due This Week
8	TBD	13
YTD Tasks Completed	Pending Tasks Delayed	Tasks Due Next Week
	TBD	33
	Pending Tasks Overdue	Tasks Due in July

Weekly Headcount (Maximum)

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

# Unit 6 Project Summary by Workstream

ID	Workstream Description	Est. Cost	Resources Assigned	% Complete	Scheduled Start	Scheduled Finish	Status	Tasks Completed	Tasks Pending
1	Project Initiation, Procurement, and Other Work Activities	\$535,215	PREPA, Contractor TBD	37%	5/22/2020	8/24/2020	On Track	4	17
2	Emergency Declaration	\$0	PREPA	100%	5/22/2020	5/28/2020	Completed	1	0
3	Lead Removal Works	\$100,000	JR Industrial Contractors	0%	7/21/2020	8/25/2020	On Track	0	1
4	Asbestos Removal Works	\$100,000	Caribe Hydroblasting	0%	8/1/2020	8/31/2020	On Track	0	1
5	Structural Steel Repair Works Unit 6	\$1,348,000	General Electric Fieldcore (GEF)	0%	7/20/2020	9/14/2020	On Track	0	67
6	Scaffolding Services	\$425,000	Brand	100%	6/15/2020	6/29/2020	Completed	1	0
7	Boiler Wash	\$125,000	Induchem	70%	6/5/2020	7/13/2020	On Track	0	1
8	Cargo Elevator Repairs	\$15,000	Vertech	0%	8/15/2020	9/15/2020	On Track	0	1
9	Crane Repairs	\$1,200,000	Contractor TBD	0%	7/16/2020	9/17/2020	On Track	0	1
10	Air-Preheater Repairs	\$1,900,000	Contractor TBD	0%	8/15/2020	9/14/2020	On Track	0	1
11	Balance of Plant Works	\$230,226	PREPA	0%	8/1/2020	9/12/2020	On Track	0	2
12	Boiler Repair Works	\$1,776,144	PREPA, Contractor TBD	0%	8/15/2020	9/12/2020	On Track	0	10



# Unit 6 Project Summary by Workstream (Cont'd)

ID	Workstream Description	Est. Cost	Resources Assigned	% Complete	Scheduled Start	Scheduled Finish	Status	Tasks Completed	Tasks Pending
13	Burner Repairs	\$500,000	Contractor TBD	0%	8/15/2020	9/11/2020	On Track	0	1
14	Condensate Circulating Water System Repairs	\$1,750,000	Contractor TBD	0%	8/1/2020	10/3/2020	On Track	0	5
15	Condensate Storage Tank Design and Construction	\$0	Contractor TBD	0%	7/1/2020	7/8/2020	On Track	1	0
16	Demineralized Water Tank Repairs	\$0	Contractor TBD	0%	1/0/1900	1/0/1900	On Track	0	0
17	Desuperheater Replacement Crossover Links	\$1,800,000	Contractor TBD	0%	7/24/2020	9/28/2020	On Track	0	57
18	Electrical and Instrumentation Works	\$1,155,809	PREPA, Contractor TBD	1%	6/24/2020	10/7/2020	On Track	0	46
19	Line Safety Valves Repairs	\$450,000	Contractor TBD	0%	8/15/2020	9/5/2020	On Track	0	1
20	Mechanical Inspection, Repair & Alignment (Heaters, Fans, Pumps, and Valves)	\$550,000	PREPA, Contractor TBD	0%	8/1/2020	10/21/2020	On Track	0	25
21	Pipe Type Cable Repairs	\$57,500	Contractor TBD	0%	8/15/2020	9/15/2020	On Track	0	1
22	Stack, Insulation, and Refractory Works	\$600,000	Contractor TBD	0%	6/1/2020	9/26/2020	On Track	1	5
23	Turbine-Generator Repairs	\$4,290,843	PREPA, Contractor TBD	0%	8/1/2020	10/9/2020	On Track	0	39
24	Cooler Main Oil Tank Cleaning and Repairs	\$70,000	Contractor TBD	0%	7/9/2020	7/21/2020	On Track	0	1



## Unit 6 Project Summary by Workstream (Cont'd)

ID	Workstream Description	Est. Cost	Resources Assigned	% Complete	Scheduled Start	Scheduled Finish	Status	Tasks Completed	Tasks Pending
25	Unit 6 Start Up and Commissioning	\$0	PREPA, Contractor TBD	0%	10/10/2020	10/21/2020	On Track	0	2
26	MPT 6 Secondary Containment Repair Works	\$29,550	5 Senses Solutions	75%	4/16/2020	7/31/2020	On Track	0	1
Total		\$19,008,286							



# Unit 6 Additional Workstreams Not Included in Budget

The following workstreams were not included as part of the estimated cost to bring Unit 6 back to commercial operations. Although these workstreams are not included in the proposed project baseline, they are considered essential for the long-term operations of the facility. Estimated cost associated with these workstreams has been updated.

ID	Workstream Description	Est. Cost	Resources Assigned	% Complete	Scheduled Start	Scheduled Finish	Status	Tasks Completed	Tasks Pending
15	Design & Construction of a New Water Condensate 6	\$1,950,000	Contractor TBD	TBD	7/6/2020	12/12/2020	TBD	0	5
16	Demineralized Water Tank Repairs	\$5,000,000	Contractor TBD	TBD	8/12/2020	11/29/2020	TBD	0	2
26	Structural Repairs Water and Fuel Tanks	\$1,000,000	Contractor TBD	TBD	TBD	TBD	TBD	TBD	TBD
27	Design & Build Raw Water Tank	\$3,000,000	Contractor TBD	TBD	TBD	TBD	TBD	TBD	TBD
28	Civil, Mechanical, Electrical Repairs for Administrative Building and Laboratory	\$2,000,000	Contractor TBD	TBD	TBD	TBD	TBD	TBD	TBD
<b>Total</b>		<b>\$12,950,000</b>							



# Unit 6 Procurement Plan - Pipeline

The following table outlines the procurements currently in the pipeline to support the Costa Sur U6 Assessment and Repairs project:

#	Procurement Description	Procurement Type*	Est. Amount	Status	Target Date
1	Replacement of Rails, Overhead Crane 5 and 6	Contract Amendment	\$830,000	Pending Approval	7/24
2	Replacement of Baskets Air Pre-heaters Baskets Unit 6	Emergency Procurement	\$700,000	RFP Published	8/3
3	Repair and Replacement of Existing Burners Unit 6	Emergency Procurement	\$250,000	Planning	TBD
4	Condenser Discharge Tube Unit 6	Emergency Procurement	\$1,700,000	RFP Published	7/27
5	Civil, electrical and mechanical repairs to the Excitation Control Room Unit 6	Emergency Procurement	\$200,000	RFP Published	7/27
6	Replacement of Line and Safety Valves Unit 6	Emergency Procurement	\$450,000	Planning	TBD
7	Repair and Replacement of Piping Water Heater 3 Unit 6	Emergency Procurement	\$400,000	RFP Published	7/27
8	Repair and Replacement of Piping of the Coolers Main Oil Tank (CMOT) Unit 6	Emergency Procurement	\$500,000	Planning	TBD
9	Mitigation Contract – Mechanical Repairs with Stamp (Boiler)	Service Upon Request Agreement	\$250,000	Planning	TBD
10	Mitigation Contract – Mechanical Repairs without Stamp	Service Upon Request Agreement	\$450,000	Planning	TBD
11	Mitigation Contract – Electrical and Instrumentation Repairs	Service Upon Request Agreement	\$125,000	Planning	TBD
12	Instrumentation and Electrical Wiring	Service Upon Request Agreement	\$100,000	Planning	TBD
13	Consumables (rods, angles, gases, etc.)	Service Upon Request Agreement	\$100,000	Planning	TBD
14	Air Pre Heaters Baskets	Service Upon Request Agreement	\$1,200,000	Planning	TBD

\* 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 Procurement Plan – Pipeline (Cont'd)

The following table outlines the procurements currently in the pipeline to support the Costa Sur U6 Assessment and Repairs project:

#	Procurement Description	Procurement Type*	Est. Amount	Status	Target Date
15	Burner System Parts Replacement	Service Upon Request Agreement	\$250,000	Planning	TBD
16	Condenser Tube Cleaning and Outlet Boxes	Service Upon Request Agreement	\$50,000	Planning	TBD
17	Bearing replacement for pumps and fans	Service Upon Request Agreement	\$250,000	Planning	TBD
18	Refractory and Insulation Work	Service Upon Request Agreement	\$600,000	Planning	TBD
19	Internal Boiler Inspection	TBD	\$200,000	Planning	TBD
20	Pipe Type Cable Repairs	TBD	\$57,500	Planning	TBD
21	Turbine Rotor Installation	TBD	\$3,499,000	Planning	TBD
Total			\$12,161,500		

\* 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 Procurement Plan – Awarded

The following table outlines the procurements currently in the pipeline to support the Costa Sur U6 Assessment and Repairs project:


#	Procurement Description	Procurement Type*	Est. Amount	Status	Vendor Name
1	Scaffolding Services for Unit 6	Service Upon Request Agreement	\$425,000	Awarded	Brand
2	Boiler Wash	Service Upon Request Agreement	\$75,000	Awarded	Induchem
3	Boiler Hydro blasting (Interior and Exterior)	Service Upon Request Agreement	\$50,000	Awarded	Induchem
4	Lead Removal	Contract Amendment	\$100,000	Awarded	JR Industrial Contractors
5	Asbestos Removal	Contract Amendment	\$100,000	Awarded	Caribe Hydroblasting
6	Structural Steel Repair Works Unit 6	Existing U5 Contract	\$1,406,615	Awarded	General Electric Fieldcore (GEF)
7	MPT 6 Secondary Containment Repair Works	Emergency Procurement	\$29,550	Awarded	5 SENSES SOLUTIONS LLC.
8	A/C equipment and duct cleaning	Other	\$22,115	Awarded	AIT TECHNOLOGIES INC
9	Turbine Oil Flush	Other	\$59,895	Awarded	ALLIED POWER TECHNOLOGIES
10	Cargo Elevator Repairs	Service Upon Request Agreement	\$15,000	Awarded	Vertech, Inc.
11	De-superheater Crossover liner Unit 6	Direct Negotiations	\$1,694,370	Awarded	General Electric Fieldcore (GEF)
<b>Total</b>			<b>\$3,977,545</b>		

\* 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.




# Emergency Management KPI Dashboard

DEMAND (MW)

2437

AS OF JUL 14, 2020

CUSTOMERS ENERGIZED

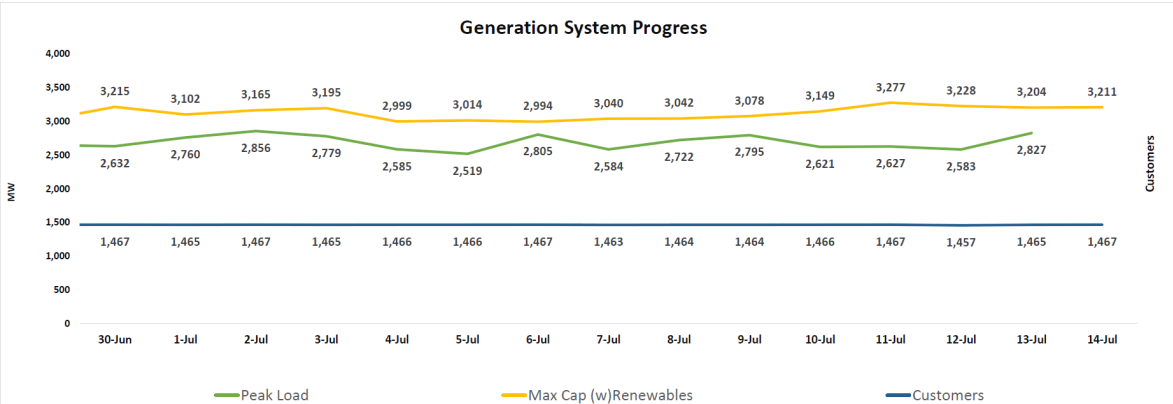
99.93%

1,467,189

Progress of Critical Generation System					
Power Plant	Unit	Power Plant Type	Installed Generation (MW)	Maximum Capacity (MW)	Actual Generation (MW)
San Juan	7	Base Load	100	70	67
San Juan	9	Base Load	100	90	86
Palo Seco	1	Base Load	85	65	64
Palo Seco	3	Base Load	216	130	130
Palo Seco	4	Base Load	216	80	80
Aguirre	1	Base Load	450	390	251
Aguirre	2	Base Load	450	450	350
Aguirre CC	Stag 1	Base Load	296	145	123
Aguirre CC	Steam 1	Base Load	96	38	39
Aguirre CC	Stag 2	Base Load	296	45	29
San Juan CC	CT 5	Base Load	160	160	149
San Juan CC	STG 5	Base Load	60	60	46
San Juan CC	CT 6	Base Load	160	120	120
Cambalache	2	Peaker	82.5	75	0
Cambalache	3	Peaker	82.5	76	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	63
Jobos	1-2	Peaker	21	18	0
Mayaguez	1	Peaker	55	45	0
Mayaguez	2	Peaker	55	55	26
Mayaguez	3	Peaker	55	50	0
Mayaguez	4	Peaker	55	50	0
Yabucoa	1-1	Peaker	21	20	0
Hidroeléctricas		Peaker	23	13	1
EcoEléctrica	1	Base Load	177	176	158
EcoEléctrica	2	Base Load	177	176	158
ECO	Steam	Base Load	177	176	158
AES	2	Base Load	262	258	258
Sub - Total			4075	3170	2396
Renewables			194	41	41
Total			4269	3211	2437

Generation Units Out of Service					
Power Plant	Unit	Power Plant Type	Installed Generation (MW)	Maximum Capacity (MW)	Expected date to be online*
San Juan	8	Base Load	100	70	TBD
Costa Sur	5	Base Load	410	410	August 14, 2020
Costa Sur	6	Base Load	410	410	October 21, 2020
Aguirre CC	Steam 2	Base Load	96	50	TBD
San Juan CC	STG 6	Base Load	60	60	July 31, 2020
Aguirre CC	Stag 2 (2-2)	Peaker	50	50	July 25, 2020
Aguirre Hidrogas	2-1	Peaker	21	21	TBD
Aguirre Hidrogas	2-2	Peaker	21	21	July 31, 2020
Palo Seco Hidrogas	1-2	Peaker	21	19	July 31, 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	July 17, 2020
Yabucoa	1-2	Peaker	21	20	TBD
Vega Baja	1-1	Peaker	21	18	TBD
Vega Baja	1-2	Peaker	21	19	TBD
AES	1	Base Load	262	190	July 29, 2020
Sub-Total			1577	1419	
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			1908	1419	

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

