

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

NEPR

Received:

Aug 31, 2020

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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 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 Orden del 22 de mayo del 2020,¹ 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* fechado de 31 de agosto 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. Adjunto también se presentan ciertos contratos otorgados para continuar con las reparaciones de las unidades. Exhibit B.

POR TODO LO CUAL, se solicita respetuosamente al Negociado de Energía que tome nota de lo aquí informado.

¹ *Resolución y Orden* del Negociado de Energía del 22 de mayo del 2020 (la “Orden del 22 de mayo”).

RESPETUOSAMENTE SOMETIDO.

En San Juan, Puerto Rico, este 31 de agosto de 2020.

/s Katuska Bolaños
Katuska Bolaños
kbolanos@diazvaz.law
TSPR 18888

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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 31 de agosto de 2020.

s/ Katuska Bolaños
Katuska Bolaños

Exhibit A

*Costa Sur Damage Assessment and Repairs Progress Status Report
August 31, 2020*



**Puerto Rico
Electric Power
Authority**

Puerto Rico Electric Power Authority (PREPA)

**Costa Sur Damage Assessment and Repairs
Progress Status Report
August 31, 2020**

Introduction and Outline

Introduction

- This report outlines PREPA's progress in its assessment, repairs, and procurement activities related to the start-up of Costa Sur Unit 5 and Unit 6

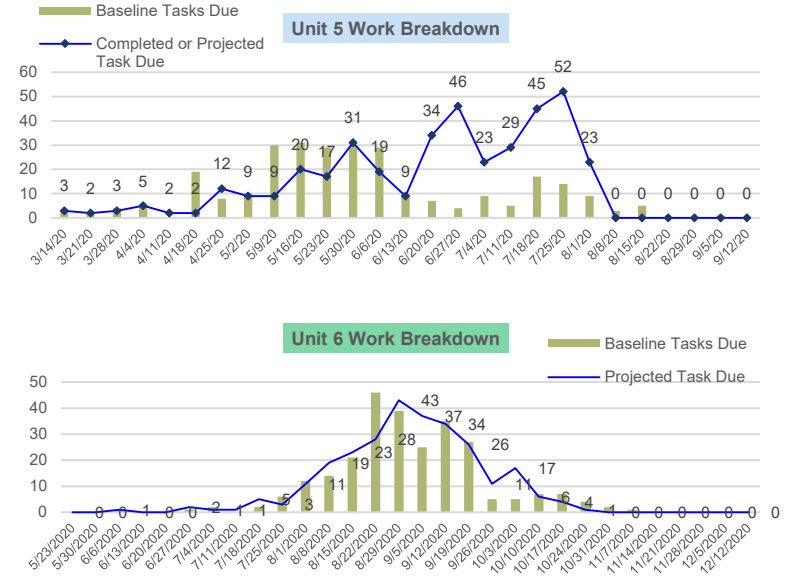
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Program Overview – Unit 5 & 6 Start-Up Activities

Budget	
Approved Budget for Program	\$40,200,000
Forecast Cost for Program (subject to change)	\$39,755,152
Unit 5 Start-Up	
A. Budget Baseline	\$25,200,000
B. Total Forecast Cost	\$18,850,058
C. Total Amount Invoiced (Contractors)	\$10,593,779
D. PREPA Expenses (Time & Materials)	\$4,069,645
E. Total Expenses (C+D)	\$14,663,424
F. Total Disbursements	\$10,566,870
Unit 6 Start-Up	
G. Budget Baseline	\$19,078,286
H. Total Forecast Cost	\$20,905,095
I. Total Amount Invoiced (Contractors)	\$361,236
J. PREPA Expenses (Time & Materials)	TBD
K. Total Expenses (I+J)	\$361,236
L. Total Disbursements	\$0
Procurement	
104 Total Procurements	21 Total Emergency Procurements
\$28.3M Total Amount Contracts Awarded	
89.4% % Total Procurements Completed	
Unit 5 Start-Up	
69 U5 Total Procurements	14 U5 Emergency Procurements
35 U6 Total Procurements	
7 U6 Emergency Procurements	
\$17.1M U5 Amount Contracts Awarded	
100.0% U5 % Procurements Completed	
\$11.2M U6 Amount Contracts Awarded	
69.0% U6 % Procurements Completed	

Schedule			
Unit 5 Start-Up		Unit 6 Start-Up	
3/23/2020 Repairs Start Date	8/1/2020 U5 Start-Up Date	6/1/2020 Repairs Start Date	10/21/2020 U6 Start-Up Date
100.0% Time Elapsed	100.0% % Completion	57.0% Time Elapsed	32.0% % Completion
401 Total Completed Tasks	0 Pending Tasks On-Track	77 Total Completed Tasks	112 Pending Tasks On-Track
0 Pending Tasks Delayed	0 Pending Tasks Overdue	32 Pending Tasks Delayed	52 Pending Tasks Overdue



Scope			
Unit 5 Start-Up		Unit 6 Start-Up	
55** Workstreams Identified	55 Workstreams at 100% Completion	27 Workstreams Identified	3 Workstreams at 100% Completion
Weekly Headcount (Maximum)*			
121 PREPA's Max Weekly Headcount		304 Max Total Weekly Headcount	
183 Contractor's Max Weekly Headcount			
PREPA Resource Breakdown		Headcount	
PREPA Mechanical		37	
PREPA Electrical		4	
PREPA Instrumentation		7	
PREPA Boiler Repair Works		50	
PREPA Mechanical Shop		13	
PREPA Land and Structures		4	
PREPA Operations		1	
PREPA Administration		1	
PREPA's PMO		4	
Total		121	

* Maximum weekly headcount based on week starting on 8/24/2020
** Workstreams not associated with Unit 5 start-up activities were moved to either Unit 6 start-up schedule or under long-term repairs



Unit 5 Status Overview

Unit 5 Status Overview

100.0%

% Completion

100.0%

Time Elapsed

Management Notes:

Unit successfully delivered for commercial operations on 8/1/2020 (14 days ahead of schedule baseline date of 8/14)

Total cost associated with Unit 5 repairs is approximately \$18.9M (\$6.3M below the budget baseline submitted)

Key Project Metrics

1/7/2020
Outage Date

3/23/2020
Repairs Start Date

\$25.2M
Budget Baseline

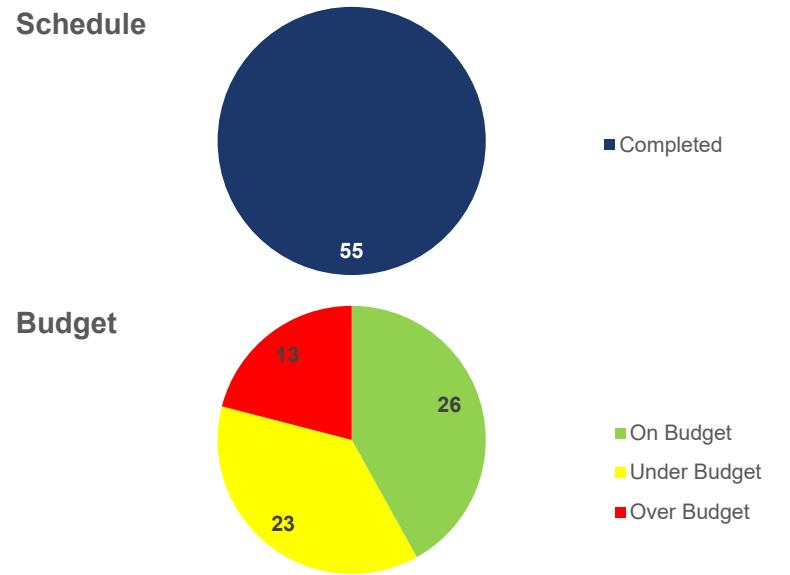
8/1/2020*
U5 Start-Up Date

8/1/2020*
Project End Date

\$18.9M*
Forecast Expenses

Schedule Metrics		
Metric	#	%
Scheduled Tasks	401	-
0 Pending Tasks Due in July	0 Pending Tasks Due in August	0 Pending Tasks Due in September
Pending Task (On-Track)	0	0.0%
Pending Task (Delayed)	0	0.0%
Pending Task (Overdue)	0	0.0%
Workstreams***	100% Completion	Completed

Financial Metrics	
A. Budget Baseline	\$25,200,000
Expenses	
B. Total Forecast Expenses*	\$18,850,058
C. Total Amount Invoiced	\$10,593,779
D. PREPA Related Expenses**	\$4,069,645
F. Total Expenses (C+D)	\$14,663,424
Balances	
G. Balance Available (A-F)	\$10,536,576
H. Forecast Balance (A-B)*	\$6,349,942
Disbursements	
I. Total Disbursements	\$10,566,870
J. % of YTD Expenses Paid (I/F)	72.1%



Max Weekly Headcount (based on week 8/24)

0
PREPA's Max Weekly Headcount

0
Contractor's Max Weekly Headcount

0
Total Weekly Max Headcount

* Excludes repairs not needed for start-up such as new Administrative and Laboratory buildings and concrete repairs discharge channel

** Includes expenses related to PREPA's labor and warehouse materials

*** 7 Workstreams not associated with Unit 5 start-up activities were moved to either Unit 6 start-up schedule or under long-term repairs



Summary by Initiative

Initiative Description	# Workstreams	% Completion	Pending Tasks	Finish Date	Budget Baseline	Total Forecast Amount	Total Committed	Total Invoices	Total Disbursements
01. Emergency Declaration	1	100%	0	3/23/2020	\$0	\$0	\$0	\$0	\$0
02. Engineering, Technical Studies & Inspection*	11	100%	0	7/29/2020	\$2,238,171	\$2,093,979	\$2,201,479	\$1,321,002	\$875,465*
03. Asbestos Removal and Disposal Unit 5	1	100%	0	7/20/2020	\$199,000	\$0	\$199,000	\$0	\$0
04. Lead Removal Works Unit 5	1	100%	0	7/4/2020	\$1,111,843	\$156,425	\$1,018,268	\$146,157	\$0
05. Structural Repair Works Unit 5	3	100%	0	7/20/2020	\$3,431,193	\$2,083,193	\$2,083,193	\$2,083,193	\$1,754,161
06. Condensate Water Tank 5 Repairs	2	100%	0	7/23/2020	\$970,800	\$712,930	\$712,930	\$655,418	\$105,500
07. Boiler Unit 5 Repair Works	9	100%	0	7/24/2020	\$4,555,230	\$2,894,592	\$3,124,552	\$2,027,399	\$1,742,994
08. Auxiliary Equipment Inspection and Repair	9	100%	0	8/1/2020	\$4,659,436	\$3,448,533	\$3,448,533	\$2,595,416	\$2,326,943
09. Turbine Inspection and Repairs	1	100%	0	7/23/2020	\$0	\$178,994	\$178,994	\$78,663	\$0
10. Generator Inspection and Repairs	1	100%	0	7/28/2020	\$0	\$54,000	\$379,500	\$54,000	\$0
11. Operational Test and Control Tasks	5	100%	0	7/28/2020	\$144,000	\$0	\$0	\$0	\$0
12. Unit 5 Startup and Commissioning	1	100%	0	8/1/2020	\$72,000	\$0	\$0	\$0	\$0
13. Civil Repair and Other Areas Reconstruction	7	100%	0	7/27/2020	\$495,865	\$694,555	\$694,555	\$484,130	\$0
14. Inspections and Tests MPT	3	100%	0	8/1/2020	\$0	\$0	\$0	\$0	\$0
15. Supplementary Tasks, Future Works & Misc.	7	45%	17	3/8/2021	\$7,306,755	\$2,838,212	\$3,217,922	\$1,148,403	\$67,162
16. Operation Expenses (Payroll, Materials, etc.)**	-	-	0	8/1/2020	\$0	\$3,694,645	\$3,301,648	\$0	\$3,694,645**
					\$25,184,292	\$18,850,058	\$20,560,574	\$10,593,779	\$10,566,870

* Includes PREPA expenses related to Program Management Office (PMO)

** Includes expenses related to PREPA's craft labor and warehouse materials



Puerto Rico Electric
Power Authority

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	MPT 4 Secondary Containment Repair Works	Emergency Procurement	\$38,783	48	86581	5 SENSES SOLUTIONS LLC.
2	MPT 5 Secondary Containment Repair Works	Emergency Procurement	\$17,480	57	86581	5 SENSES SOLUTIONS LLC.
3	Removal and Mitigation of Contaminated Soil Switchyard 115 kV	Emergency Procurement	\$19,928	59	86716	5 SENSES SOLUTIONS LLC.
4	Cleaning Main Turbine Oil Cooler (MOT)	-	\$9,994	62	87392	5 SENSES SOLUTIONS LLC.
5	January 8,2020 - Safety Inspection	-	\$3,031	65	85336	ABACUS ARCHITECTURE PSC
6	Project Management and Data Analytics Support	Other	\$280,414	11	84276	ACUMENIAN LLC
7	Relocation of A/C units	-	\$3,700	MISC	87148	AIT TECHNOLOGIES INC
8	A/C units duct fabrication	-	\$5,380	MISC	87147	AIT TECHNOLOGIES INC
9	A/C equipment and duct cleaning	-	\$86,595	19	86734	AIT TECHNOLOGIES INC
10	Natural Gas Line Pipe Structural Repair Works	Emergency Procurement	\$908,000	47	86823	ALL CONTRACTORS SERVICES CORP
11	Trailer for Costa Sur Repairs	-	\$78,325	54	86814	ALL CONTRACTORS SERVICES 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	Temporary Laboratory Offices (Rental - 12 Months)	Emergency Procurement	\$76,275	53	87245	ALL CONTRACTORS SERVICES CORP
13	Temporary Administrative Offices (Rental - 12 Months)	Emergency Procurement	\$182,475	54	86552	ALL CONTRACTORS SERVICES CORP
14	Civil Works Control Room 5-6, Compressor Room, Shift Engineer Room	Emergency Procurement	\$413,827	26-29	86653	ALL CONTRACTORS SERVICES CORP
15	Crane Rental of 150 tons and 230 feet		\$148,000	MISC	82754	ALL CONTRACTORS SERVICES CORP
16	Turbine Oil Flush		\$169,000	62	80175	ALLIED POWER TECHNOLOGIES
17	NDT Services Unit 5	Emergency Procurement	\$250,000	32	86678	ALONSO CARUS IRON WORKS INC
18	Opacity Meter Purchase		\$66,971	43	84994	AP EQUIPMENT INC / LT AUTOMATION
19	Scaffolding Services	Service Upon Request Agreement	\$300,000	65	84611	BRAND ENERGY INFRASTRUCTURE
20	Superheater-Desuperheater Link Piping Installation U. 5		\$1,766,429	30	86214	CARIBE GE INTERNATIONAL ENERGY
21	Structural Repairs Unit 1-6	Request for Quotes (RFQs)	\$2,593,385	13-17	86331	CARIBE GE INTERNATIONAL ENERGY
22	Exterior mechanical inspection of the condition of the boilers	Service Upon Request Agreement	\$83,170	1	83998	CARIBE GE INTERNATIONAL ENERGY
23	Preliminary Inspection and Steel Structural Elements for Boilers and Auxiliary Equipment (units 3-6) and Preliminary Visual Inspection of Steam Piping and Equipment and Structural Supports.	Service Upon Request Agreement	\$360,275	2	84002	CARIBE GE INTERNATIONAL ENERGY

* 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	Interior mechanical inspection of the condition of the boilers Units 5 and 6	Service Upon Request Agreement	\$100,630	7	83998	CARIBE GE INTERNATIONAL ENERGY
25	Asbestos Removal & Disposal Works Unit 5	Emergency Procurement	\$199,000	12A	86559	Caribe Hydroblasting
26	Vacuum Pump Motor Repairs		\$7,577	31	87167	CORTES INDUSTRIAL ORGANIZATION
27	Project Management Services	Other	\$53,500	11	84270	CPM PR LLC
28	Geotechnical studies for Costa Sur		\$215,000	10	86920	EARTH ENGINEERS INC
29	Provide post-earthquake geotechnical evaluation of the foundation support of the different structures in the facility	Request for Quotes (RFQs)	\$349,066	10	86125	EARTH ENGINEERS INC
30	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
31	Lead Removal Services	Service Upon Request Agreement	\$18,500	4	82470	ENERSYS ENGINEERING CORP
32	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
33	Old Water Condensate Tanks Interconnection Works to Unit 5 Demin Water Cycle System	Service Upon Request Agreement	\$153,000	24	82470	ENERSYS ENGINEERING CORP
34	Structural Repairs Cross Bracings Structure - Overhead Crane 1-6	Service Upon Request Agreement	\$78,492	25	82470	ENERSYS ENGINEERING CORP
35	Cable tray installation for switchgear equipment		\$32,258	MISC	86961	ENGINEERING 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	Wall Panel Installation		\$33,694	MISC	87181	ENGINEERING SERVICES
37	Repair Works on Valves (de Línea) Unit 5	Service Upon Request Agreement	\$49,230	33	83581	ENGINEERING SYSTEMS SALES
38	Chiller Mechanical Cleaning		\$313,354	MISC	78808	ENVIRONICS ENGINEERING
39	High Energy and Auxiliary steam and water pipes assessment for units 5 & 6		\$152,710	42	83534	ENVIRONICS ENGINEERING
40	Condenser Tube Cleaning		\$193,325	38	84907	ENVIRONICS ENGINEERING
41	Lead Paint and Asbestos Sampling Analysis		\$6,425	12, 12A	79564	Environmental Health & Safety Services
42	Lead Paint and Asbestos Sampling Analysis		-	12, 12A	87203	Environmental Health & Safety Services
43	Project Financial Controls Support		\$26,775	11	2020-P00087	FUSIONWORKS
44	Visual Inspection and Ultrasonic Inspect API 653	Request for Quotes (RFQs)	\$134,448	6	85840	Heisen Global Engineering (HGE)
45	Condition Survey and Testing for Concrete Pedestals for Power Turbine and Generator Units , 5 and 6		\$55,160	8	85980	Heisen Global Engineering (HGE)
46	Design Work - Structural Repairs Condensate Tank 5 & Old Water Condensate tanks	Request for Quotes (RFQs)	\$146,662	22	86344	Heisen Global Engineering (HGE)
47	Structural engineering consulting		\$210,000	MISC	86919	Heisen Global Engineering (HGE)

* 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	Water Treatment Tank 2 Cleaning		\$120,000	19	85153	INDUCHEM SERVICES
49	Boiler Hydroblasting	Service Upon Request Agreement	\$120,000	19	80903	INDUCHEM SERVICES
50	Condenser Discharge Tube and Tunnel Cleaning		\$155,691	38	81017	INDUCHEM SERVICES
51	Lead Removal and Disposal Works - Structural Repairs Units 1-6	Emergency Procurement	\$1,011,843	12	86566	J R INDUSTRIAL CONTRACTORS INC
52	Insulation Repair Works in Boiler 5	Service Upon Request Agreement	\$450,000	37	86283	J R INDUSTRIAL CONTRACTORS INC
53	Integration of Raw Water Pumps Controls into DCS Foxboro	Service Upon Request Agreement	\$145,606	43	85590	LT AUTOMATION
54	Integration of Metering Station into DCS	Service Upon Request Agreement	\$64,945	43	83009	LT AUTOMATION
55	Foxboro Controls Advantage Upgrade	Service Upon Request Agreement	\$106,511	43	82159	LT AUTOMATION
56	Multimedia filter replacement for new water treatment plant	Service Upon Request Agreement	\$495,510	MISC	81974	LT AUTOMATION
57	Controls from interconnection work, all condensate water tanks	Service Upon Request Agreement	\$46,232	24	65206	LT AUTOMATION
58	Relocation of Foxboro monitors and power circuits for opacity meters		\$66,500	43	87275	LT AUTOMATION
59	Integration of Demineralizer Controls into DCS	Service Upon Request Agreement	-	43	84651	LT AUTOMATION / Schneider

* 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	Condensate Recirculating Discharge Pipe (12 ft diameter)	Emergency Procurement	\$975,000	39	86664	MALNAT ASOCIADOS
61	Underwater Visual Inspection of the Tunnels Condenser 5 and 6	Emergency Procurement	\$83,100	9	86495	MARINE DIVING CONTRACTORS
62	Overhead Crane Installation and Commissioning		\$1,553,502	36	82717	MASTER LINK CORPORATION
63	Turbine-Generator Inspection Work	Emergency Procurement	\$379,500	61	87153	MECHANICAL DYNAMICS ANALYSIS.3
64	Necessary Office Supplies		\$2,513	MISC	87240	PR OFFICE SOLUTIONS
65	Structural Repairs Condensate Tank 5	Emergency Procurement	\$345,468	22	86704	R G ENGINEERING INC
66	Repairs on fire protection systems	Service Upon Request Agreement	\$115,000	MISC	84101	R G ENGINEERING INC
67	Project Management Support	Other	\$50,000	11	85215	SCOTTMADDEN, INC
68	Cargo Elevators Repairs	Service Upon Request Agreement	\$60,000	41	82412	VERTECH INC
69	Existing Overhead Crane Units 3 and 6, Certification		\$34,412	25	84013	VITAL ENERGY CORPORATION
Estimated Total			\$17,062,158			

* 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 Status Overview

Unit 6 Executive Summary

32.0%

% Completion

57.0%

Time Elapsed

Management Notes:

- Forecast end date is 10/21, PREPA PMO Team has identified potential opportunities to pull baseline schedule by 11 days.
- PREPA personal availability (non – Costa Sur resources) is at risk, due to repair works at other power plants.
- Hurricane season peak will be at the same time peak work activities are being executed.
- PREPA's PMO closely managing and monitoring critical path activities for the turbine, boiler, and generator.
- Expecting to see turbine inspection report from contractor the week of 8/31; inspection findings will determine the amount and complexity of repairs needed with possible impacts to schedule baseline based on the duration required for the repairs

Scope and Metrics by Workstream

27

Identified Workstreams

3

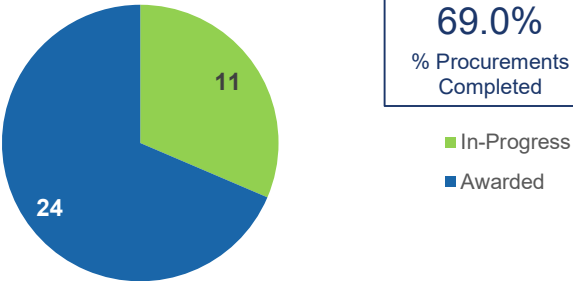
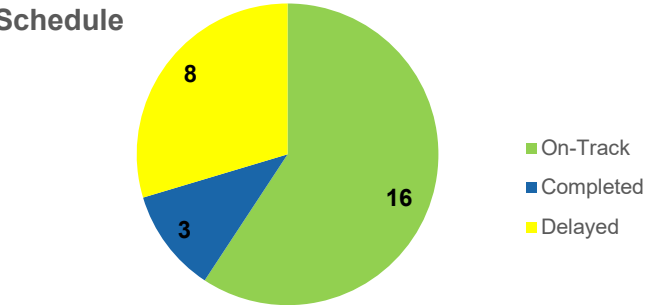
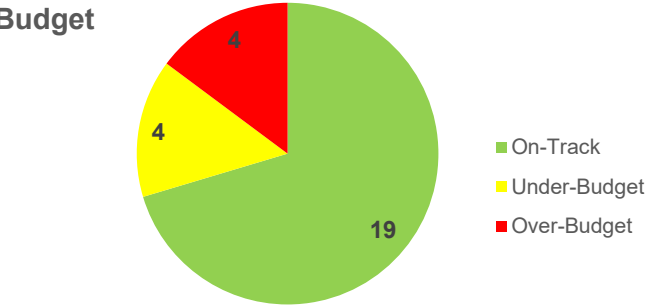
Workstreams at 100% Completion

0

Workstreams Added (Since Last Report)

Financials	
Budget Baseline	\$19,078,286
Forecast Cost	\$20,905,095
Total Invoiced Amount	\$361,236
PREPA Expenses	TBD
Total Expenses	\$361,236
Total Disbursements	\$0
Total Committed in Contracts	\$11,200,811

Procurement Status



35

Total Procurements

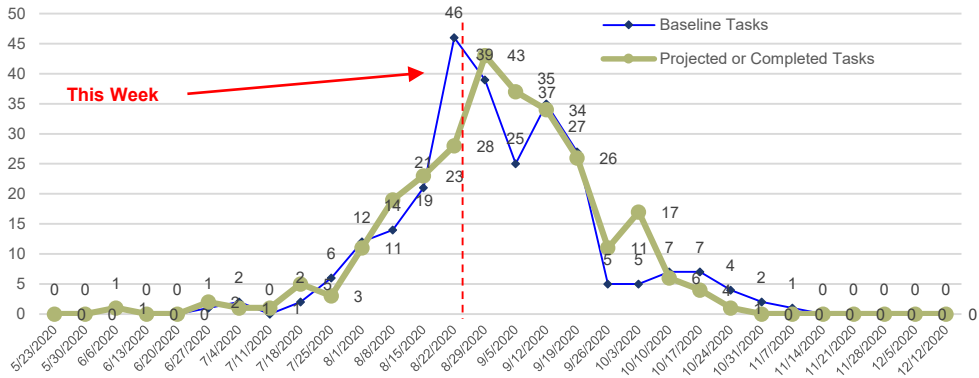
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Emergency Procurements

\$11.2M

Amount Contracts Awarded

Schedule Work Breakdown



Schedule Metrics

273

Total Scheduled Tasks

112

Pending Tasks On-Track

121

Tasks Due in August

77

YTD Tasks Completed

32

Pending Tasks Delayed

108

Tasks Due in September

52

Pending Tasks Overdue

20

Tasks Due in October

Max. Weekly Headcount (based on week of 8/24)

121

PREPA's Avg. Headcount

183

Contractor's Avg. Headcount

304

Max. Total Headcount

Unit 6 Project Summary by Workstream

ID	Workstream Description	Forecast Cost	Resources Assigned	% Complete	Scheduled Start	Scheduled Finish	Status	Tasks Completed	Tasks Pending
1	Project Initiation, Procurement, and Other Work Activities	\$1,157,215	PREPA, Acumenian, Fusionworks, ScottMadden	43%	5/22/2020	10/21/2020	On Track	14	5
2	Emergency Declaration	\$0	PREPA	100%	6/20/2020	6/20/2020	Completed	0	0
3	Lead Removal Works	\$100,000	JR Industrial Contractors	20%	7/21/2020	9/19/2020	On Track	0	1
4	Asbestos Removal Works	\$100,000	Caribe Hydroblasting (CHED)	50%	7/20/2020	9/5/2020	On Track	0	1
5	Structural Steel Repair Works Unit 6	\$1,348,000	General Electric Fieldcore (GEF)	45%	7/27/2020	9/14/2020	On Track	20	47
6	Scaffolding Services	\$425,000	BRAND ENERGY INFRASTRUCTURE	100%	6/15/2020	6/29/2020	Completed	1	0
7	Boiler Wash	\$125,000	Induchem	100%	6/5/2020	7/13/2020	Completed	1	0
8	Cargo Elevator Repairs	\$15,000	Vertech	-	6/1/2020	10/21/2020	On Track	0	0
9	Crane Repairs	\$830,000	Master Link	0%	8/18/2020	10/20/2020	Delayed	0	1
10	Air-Preheater Repairs	\$1,900,000	JC Mechanical Industrial Services LLC	5%	8/17/2020	10/2/2020	On Track	0	1
11	Balance of Plant Works	\$230,226	TBD	0%	6/1/2020	10/21/2020	On Track	0	0
12	Boiler Repair Works	\$1,776,144	PREPA	12%	8/1/2020	9/18/2020	Delayed	0	10



Unit 6 Project Summary by Workstream (Cont'd)

ID	Workstream Description	Forecast Cost	Resources Assigned	% Complete	Scheduled Start	Scheduled Finish	Status	Tasks Completed	Tasks Pending
13	Burner Repairs	\$500,000	PREPA	0%	8/25/2020	9/22/2020	Delayed	0	1
14	Condensate Circulating Water System Repairs	\$1,111,325	Environics Engineers, Malnat	30%	6/29/2020	10/14/2020	Delayed	2	1
15	Condensate Storage Tank Demolition, Design, and New construction	\$2,134,240	TBD	68%	7/1/2020	TBD	On Track	1	3
16	Demineralized Water Tank Repairs <i>(pending tasks not included since they are not needed for start-up)</i>	\$0	-	-	6/1/2020	10/21/2020	On Track	0	0
17	Desuperheater Replacement Crossover Links	\$1,694,370	CARIBE GE INTERNATIONAL ENERGY	65%	7/24/2020	9/19/2020	On Track	36	20
18	Electrical and Instrumentation Works	\$1,273,809	PREPA, AIT Technologies, Engineering Services, ESI, LT Automation	15%	6/24/2020	10/3/2020	On Track	2	46
19	Line Safety Valves Repairs	\$186,723	Ensya	35%	8/6/2020	8/25/2020	On Track	0	1
20	Mechanical Inspection, Repair & Alignment (Heaters, Fans, Pumps, and Valves)	\$550,000	PREPA	0%	8/19/2020	10/5/2020	Delayed	0	15
21	Pipe Type Cable Repairs	\$57,500	TBD	0%	9/2/2020	10/2/2020	Delayed	0	1
22	Stack, Insulation, and Refractory Works	\$600,000	Environics, JR Industrial Contractors	20%	6/1/2020	10/2/2020	On Track	3	5
23	Turbine-Generator Repairs	\$4,350,738	PREPA, AIT Technologies, MD&A	12%	8/12/2020	9/30/2020	On Track	0	21
24	Cooler Main Oil Tank Cleaning and Repairs	\$70,000	JR Industrial Contractors	0%	9/1/2020	9/5/2020	Delayed	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	0%	10/15/2020	10/21/2020	On Track	0	1
26	MPT 6 Secondary Containment Repair Works	\$29,550	5 Senses Solutions	75%	4/16/2020	8/31/2020	Delayed	0	1
27	Operational Test and Control Tasks Unit 6	\$0	PREPA	0%	9/30/2020	10/15/2020	On Track	0	10
MISC	Miscellaneous Expenses and Other Contracts	\$340,255	Heinsen Global Engineering (HGE), LT Automation	0%	8/3/2020	10/21/2020	On Track	0	0
Total		\$20,905,095							



Unit 6 Procurement Plan - Pipeline

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

#	Procurement Description	Procurement Type*	Est. Amount	Status	Target Date
1	Internal Boiler Inspection	Other	\$200,000	Pending Approval	TBD
2	Replacement of Rails, Overhead Crane 5 and 6	Contract Amendment	\$830,000	Pending Approval	TBD
3	Repair and Replacement of Piping of the Coolers Main Oil Tank (CMOT) Unit 6 (scope reduced)	Emergency Procurement	TBD	In-Planning Stage	TBD
4	Mitigation Contract – Mechanical Repairs with Stamp R (Boiler)	Service Upon Request Agreement	\$250,000	In-Planning Stage	TBD
5	Mitigation Contract – Mechanical Repairs without Stamp R	Service Upon Request Agreement	\$450,000	In-Planning Stage	TBD
6	Mitigation Contract – Electrical and Instrumentation Repairs	Service Upon Request Agreement	\$125,000	In-Planning Stage	TBD
7	Instrumentation and Electrical Wiring	Service Upon Request Agreement	\$100,000	In-Planning Stage	TBD
8	Consumables (rods, angles, gases, etc.)	Service Upon Request Agreement	\$100,000	In-Planning Stage	TBD
9	Burner System Parts Replacement	Service Upon Request Agreement	\$250,000	In-Planning Stage	TBD
10	Pipe Type Cable Repairs	Direct Negotiations	\$57,500	Evaluating Proposals	TBD
11	UPS and Battery Charge Maintenances	TBD	TBD	In-Planning Stage	TBD
Total			\$2,362,500		

* 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	Contract #	Vendor Name
1	MPT 6 Secondary Containment Repair Works	Emergency Procurement	\$28,949	86581	5 SENSES SOLUTIONS LLC.
2	Project Management and Data Analytics Support	Other	\$260,000	84276	ACUMENIAN LLC
3	Civil, electrical and mechanical repairs to the Excitation Control Room Unit 6	Emergency Procurement	\$158,020	87646	AIT TECHNOLOGIES INC
4	Turbine Oil Flush	-	\$59,895	80175	ALLIED POWER TECHNOLOGIES
5	Design & Construction of a New Water Condensate 6	Request for Proposal Process	\$845,013	87958	ALONSO CARUS IRON WORKS INC
6	Scaffolding Services	Service Upon Request Agreement	\$425,000	84611	BRAND ENERGY INFRASTRUCTURE
7	Structural Repairs Unit 1-6	Request for Quotes (RFQs)	\$1,406,615	86331	CARIBE GE INTERNATIONAL
8	Desuperheater Link Repairs	-	\$1,694,370	87333	CARIBE GE INTERNATIONAL
9	Asbestos Removal & Disposal Works Unit 5	Emergency Procurement	\$100,000	86559	Caribe Hydroblasting
10	Project Management Services	Other	TBD	84270	CPM PR 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 6 Procurement Plan – Awarded (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	Contract #	Vendor Name
11	Transformer Testing	-	\$48,000	87169	ENGINEERING SERVICES
12	Safety Line Valves Repairs	-	\$186,723	85203	ENGINEERING SYSTEMS SALES
13	Condenser Tube Cleaning and Outlet Boxes	-	\$193,325	84917	ENVIRONICS ENGINEERING
14	Lead Paint and Asbestos Sampling Analysis	-	-	87203	Environmental Health & Safety Services
15	Project Financial Controls Support	-	-	2020-P00087	FUSIONWORKS
16	Boiler Hydroblasting	Service Upon Request Agreement	\$125,000	80903	INDUCHEM SERVICES
17	Lead Removal and Disposal Works - Structural Repairs Units 1-6	Emergency Procurement	\$100,000	86566	J R INDUSTRIAL CONTRACTORS INC
18	Stack cleaning , painting, refractory, and insulation work	Service Upon Request Agreement	\$600,000	86283	J R INDUSTRIAL CONTRACTORS INC
19	Replacement of Baskets Air Pre-heaters Baskets Unit 6	Emergency Procurement	\$387,705	87663	JC MECHANICAL INDUSTRIAL SERVICES LLC
20	Reverse Osmosis Filter Membrane Installation for Water Treatment	-	\$120,196	87433	LT AUTOMATION
21	Condenser Discharge Tube Unit 6	Emergency Procurement	\$918,000	87630	MALNAT ASOCIADOS

* 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 (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	Contract #	Vendor Name
22	Turbine and Generator Repairs	-	\$3,499,000	87501	MECHANICAL DYNAMICS ANALYSIS.3
23	Project Management Support	Other	\$30,000	85215	SCOTTMADDEN, INC
24	Cargo Elevators Repairs	Service Upon Request Agreement	\$15,000	82412	VERTECH INC
Total			\$11,200,811		

* 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.






Appendix


Emergency Management KPI Dashboard

DEMAND (MW)

 2353

AS OF AUG 28, 2020

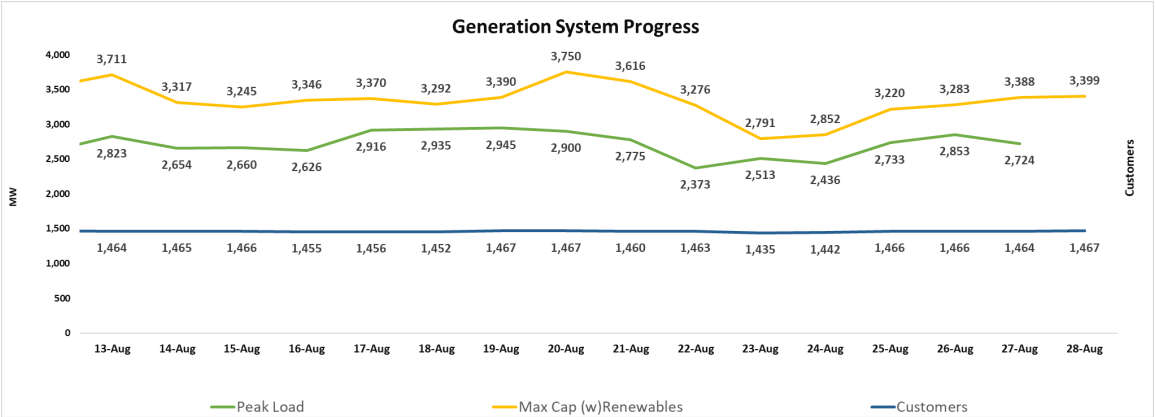
CUSTOMERS ENERGIZED

 99.92%

1,467,018

Progress of Critical Generation System					
Power Plant	Unit	Power Plant Type	Installed Generation (MW)	Maximum Capacity (MW)	Actual Generation (MW)
San Juan	8	Base Load	100	75	75
San Juan	9	Base Load	100	86	86
Palo Seco	3	Base Load	216	130	120
Palo Seco	4	Base Load	216	150	140
Costa Sur	5	Base Load	410	310	286
Aguirre	1	Base Load	450	360	294
Aguirre	2	Base Load	450	450	240
Aguirre CC	Stag 1	Base Load	296	137	84
Aguirre CC	Steam 1	Base Load	96	35	34
Aguirre CC	Stag 2	Base Load	296	145	4
San Juan CC	CT 5	Base Load	160	150	120
San Juan CC	STG 5	Base Load	60	50	40
San Juan CC	CT 6	Base Load	160	150	120
San Juan CC	STG 6	Base Load	60	50	43
Cambalache	2	Peaker	82.5	75	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	2-1	Peaker	21	21	20
Palo Seco Megagens	1, 2, 3	Peaker	66	66	0
Jobos	1-1	Peaker	21	19	0
Jobos	1-2	Peaker	21	18	0
Mayaguez	2	Peaker	55	55	0
Mayaguez	3	Peaker	55	25	0
Mayaguez	4	Peaker	55	50	0
Yabucoa	1-1	Peaker	21	20	0
Hidroeléctricas		Peaker	23	21	10
EcoEléctrica	1	Base Load	177	177	177
ECO	Steam	Base Load	177	100	98
AES	1	Base Load	262	261	260
AES	2	Base Load	262	80	80
Sub - Total			4490	3377	2331
Renewables		Renewables	194	22	22
Total			4684	3399	2353

Generation Units Out of Service					
Power Plant	Unit	Power Plant Type	Installed Generation (MW)	Maximum Capacity (MW)	Expected date to be online*
San Juan	7	Base Load	100	70	TBD
Palo Seco	1	Base Load	85	65	TBD
Costa Sur	6	Base Load	410	410	October 21, 2020
Aguirre CC	Stag 1 (1-3)	Base Load	50	50	August 29, 2020
Aguirre CC	Stag 2 (2-2)	Base Load	50	50	September 25, 2020
Aguirre CC	Steam 2	Base Load	96	50	TBD
Aguirre Hidrogas	2-1	Peaker	21	21	TBD
Aguirre Hidrogas	2-2	Peaker	21	21	TBD
Palo Seco Hidrogas	1-1	Peaker	21	19	TBD
Palo Seco Hidrogas	1-2	Peaker	21	19	TBD
Costa Sur Hidrogas	1-1	Peaker	21	21	TBD
Costa Sur Hidrogas	1-2	Peaker	21	21	TBD
Mayaguez	1	Peaker	55	44	August 28, 2020
Yabucoa	1-2	Peaker	21	20	TBD
Vega Baja	1-1	Peaker	21	21	August 29, 2020
Vega Baja	1-2	Peaker	21	19	TBD
EcoEléctrica	2	Base Load	177	177	August 31, 2020
Sub-Total			1212	1098	
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			1543	1098	



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



Exhibit B

Contratos

https://diazvaz-my.sharepoint.com/:f/g/personal/kbolanos_diazvaz_law/EspXek3HHp9As9ADPoCj4OMBEZ7g6yMt43wKzlejeppKiQ?e=r1FYLr