NEBR

Received:

Jul 31, 2020

7:54 PM

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

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 31 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.

En cumplimiento con la obligación de reporte quincenal de esfuerzos para identificar información relacionada a manejo de demanda, la Autoridad presenta una versión actualizada de los contactos realizados con los 55 clientes de alta demanda identificados e informados en la *Moción Informativa y en Cumplimiento de Orden.* Exhibit B. Las gestiones de contacto que se

¹ Moción Informativa y en Cumplimiento de Orden radicada por la Autoridad el 14 de julio del 2020.

0075

desprenden del registro fueron realizadas vía llamada telefónica el 20 de julio del 2020. De igual

manera, funcionarios de la Autoridad continúan realizando contactos vía correo electrónico. Al

día de hoy, la Autoridad no posee un registro de respuestas recibidas al requerimiento de

información enviado por correo certificado. Estas respuestas dependen únicamente del consumidor

y la Autoridad no tiene potestad alguna para obligarles a proveerla.

El día 29 de julio del 2020 la Autoridad recibió una Resolución y Orden, con relación a los

procesos de los esfuerzos realizados para establecer acuerdos de respuesta a la demanda.² El

Negociado de Energía ordenó a la Autoridad a someter un informe más detallado, en específico

"la capacidad requerida y la necesidad de reglamentación para viabilizar el cumplimiento con la

Orden del 22 de Mayo, dentro de 5 días a partir de la notificación. Por lo cual, la Autoridad atenderá

el requerimiento dentro del término ofrecido en un escrito posterior.

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 31 de julio de 2020

<u>/s Katiuska Bolaños</u>

Katiuska Bolaños

kbolanos@diazvaz.law

TSPR 18888

DÍAZ & VÁZQUEZ LAW FIRM, P.S.C.

290 Jesús T. Piñero Ave.

Oriental Tower, Suite 1105

San Juan, PR 00918

Tel. (787) 395-7133

Fax. (787) 497-9664

² Resolución y Orden del 29 de julio del 2020 en el caso NEPR-AP-2020-0001.

2

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 julio de 2020.

<u>s/ Katiuska Bolaños</u> Katiuska Bolaños

$\underline{Exhibit\ A}$

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



Puerto Rico Electric Power Authority (PREPA)

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

Introduction and Outline

Introduction

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

Unit 5 From		 Unit 5 Prod 	Unit 5 ProdUnit 6 Stat	Unit 5 ProdUnit 6 StatUnit 6 Proj	Unit 5 ProdUnit 6 StatUnit 6 ProdUnit 6 Prod	 Unit 5 Prod Unit 6 Stat Unit 6 Prod Unit 6 Prod Unit 6 Prod
Unit 5 Procurement Pipeline	Unit 5 Procurements Awarded		Unit 6 Status Overview	Unit 6 Status OverviewUnit 6 Project Summary by Workstream	Unit 6 Status OverviewUnit 6 Project Summary by WorkstreamUnit 6 Procurement PipelineUnit 6 Procurement Pipeline	Unit 6 Status OverviewUnit 6 Project Summary by WorkstreamUnit 6 Procurement PipelineUnit 6 Procurements AwardedUnit 6 Procurements Awarded
1 0	27	27	27 28 35	27 28 35	27 28 35 40	27 28 35 40 42

Program Overview

18 Procurements Procurements 10 16 % Procurements 10 16 % Procurements 116 % Procurements	73 16 32 7 30 Total Maxigner V5 Emergency U6 Total M U6 Emergency 20 29 24 (Assigner Assigner	Unit 5 Unit 6 U		3 2 3 5 2 2 12 9 30 17 19 9 8 0 0 0 0 0 0	(FPA) \$19,008,286 50 46 45 Completed or Projected 40 Task Due	Unit 5 Work Breakdown Baseline Tasks Due 52	ed TBD	ing Pending Pending Parks Delayed Tasks Overdue	Unit 6 TBD TBD TBD TBD TBD		6 13 TBD		B. Amount Invoiced \$9,079,027 Time Elapsed % Completion Time Elapsed % Completion Completion Time Elapsed % Completion Time Elapsed % Completion Time Elapsed % Completion Time Elapsed % Completion % C		Unit 5 Repairs Start Date U5 Start-Up Date Repairs Start Date U6 Start-Up Date Workstreams	Program Balance (Program Budget – B – D) \$28,442,238 3/23/2020 8/1/2020 6/1/2020 10/21/2020 62	Approved Budget for Program \$40,200,000 Unit 5 Unit 6	Budget Schedule	
1000 1000 1000 1000 1000 1000 1000 100	29	+	100 100 100 100 100 100 100 100 100 100	23 29	46 45	52	_ [_		dule	
 Maximum weekly headcount Forecasted cost are current 	Total Max Headcount (Assigned to Unit 5)	314	153 Contractor's Max Weekly Headcount (Assigned to Unit 5)	PREPA's Max Weekly Headcount (Assigned to Unit 5)	161	Unit 5		Contractor's Max Weekly Headcount	153		PREPA	161	weekly neadco		Identified 100% Completion		Unit 5	Sc	
 Maximum weekly headcount based on week starting on 7/20/2020 Forecasted cost are currently being updated, subject to change 	Total Max Headcount (Assigned to Unit 6)	TBD	TBD Contractor's Max Weekly Headcount (Assigned to Unit 6)	PREPA's Max Weekly Headcount (Assigned to Unit 6)	TRO	Unit 6			Max Total Weekly Headcount	314			weekly readcount (waxiiiuiii)	*	Identified 100% Completion		Unit 6	Scope	

4		24	5.	
4	25	4 ² C	5.	5
_	2	45	3	
6	Unit 6	Unit 5	S	
		1	•	
	•			

۵	Onit o	Onit 6
	161	TBD
	PREPA's Max Weekly Headcount (Assigned to Unit 5)	PREPA's Max Weekly Headcount (Assigned to Unit 6)
	153	TRD
	153	TBD
	Contractor's Max Weekly Headcount	Contractor's Max Weekly Headcount
	(Assigned to Unit 5)	(Assigned to Unit 6)
	314	TBD
	Total Max Headcount	Total Max Headcount



Unit 5 Status Overview





Unit 5 Status Overview

98.0%

% Completion

87.0% Time Elapsed

Unit 5 was ready for commissioning by 7/27; out Management Notes: being placed back in service

- Updated commissioning date is 8/1, pending act
- Schedule of the project execution for Unit repairs
- Estimated budget under run of \$3.9N; managem deficit of \$4M. The current projection for expense
- Mobilization for Unit 6 repairs has started; Gener Scaffolding and lead removal process have also

t	ios suctor and incremental worther populitions pro	55	_	Key Project Metrics	S
ctivities remaining o errs took 131 days since	ctivities remaining o ensure Unit reliability and close our of project.	installation and repairs	1/7/2020 Outage Date	3/23/2020 Repairs Start Date	\$25.2M Budget Baseline
ment team to reallocate these ses continues to be reviewed eral Electric (GE) has already	ment team to reallocate these budget dollars for Unit 6 which is currently estimating a budget ses continues to be reviewed. eral Electric (GE) has already mobilized ≈150 employees to begin desuperheater link repairs.	estimating a budget erheater link repairs.	8/1/2020* U5 Start-Up Date	8/7/2020* Project End Date	\$21.3M* Forecast Expenses
io been initiated.			Schedule		
	Financial Metrics				On-Track
%	A. Budget Baseline	\$25,200,000		5	■ Overdue
1	Expenses			44	
96.8%	B. Total Amount Invoiced	\$9,079,027			
1.5%	C. PREPA Related Expenses**	\$2,678,735	Budget		
1.0%	D. Total YTD Expenses (B+C)	\$11,757,762		12	
0.7%	E. Total Committed	\$21,670,052			On Budget
0	F. Total Forecast Expenses	\$21,259,651*	<u>ـ</u>	41	Under Budget
Pending Tasks	Balances				■ Over Budget
Due in September	G. Balance Available (A-D)	\$13,442,238			
	H. Forecast Balance (A-F)	\$3,940,349*	Max Weekly H	Max Weekly Headcount (based on week 7/20)	on week 7/20)
72.5%	Disbursements			3030 3030 3030	21
% of Workstreams Completed***	I. Total Disbursements	\$5,262,677	161	153	Total Weekly Max
	J. % of YTD Expenses Paid (I/D)	44.8%	Headcount	Headcount	Headcount
					. !

Pending Task (Overdue)

43

Pending Tasks

Due in July

Due in August Pending Tasks

9

Scope Metrics

Pending Task (Delayed) Pending Task (On-Track) Completed Tasks Scheduled Tasks

401 388

တ

#

Metric

Schedule Metrics



Puerto Rico Electric Power Authority

Workstreams Identified

Workstreams at 100% Completion

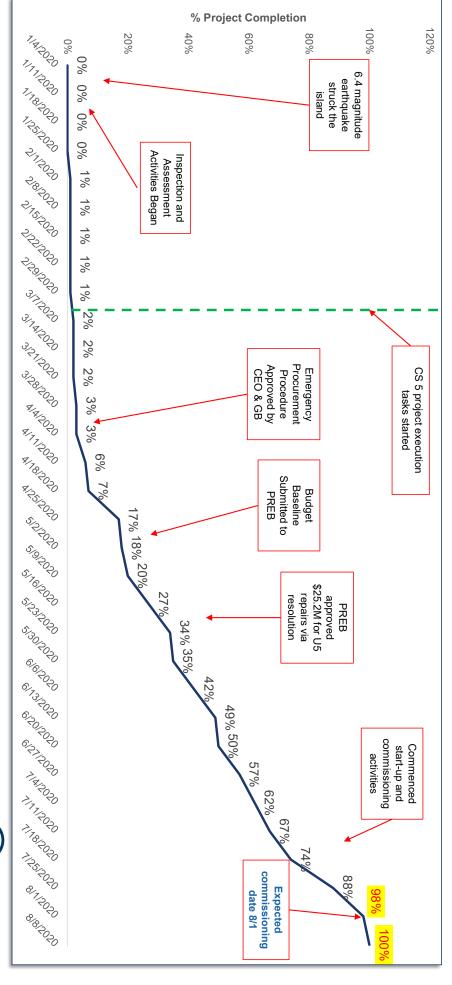
62

45

^{*} 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 craft labor and warehouse materials

^{***} Includes workstreams not needed for unit start-up and commissioning or transferred over to unit 6 schedule

Project Timeline



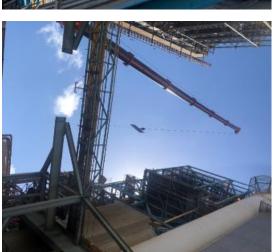
Project Evolution

Project Mobilization and Preparation

















Desuperheater Link Repairs



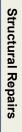


œ

Condensate Discharge Tunnel Repairs



٥





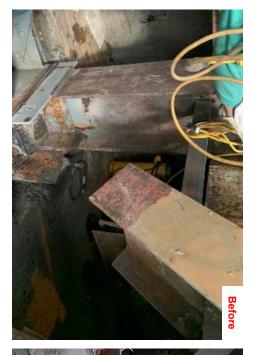






6

Structural Repairs (Cont'd)







Project Timeline and Evolution (Cont'd)

Structural Repairs (Cont'd)











Condensate Tank Interconnection Repairs

Overhead Crane Installation

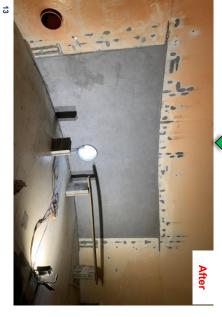






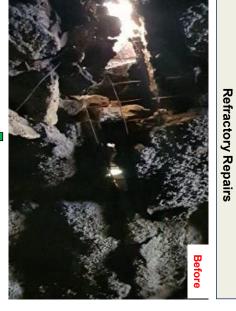






Demineralized Water System Repairs

Main Power Transformer Containment Repairs











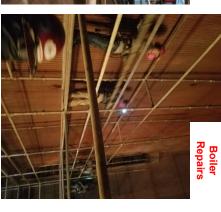


Report Submitted as of July 31, 2020

Project Evolution (Cont'd)

Boiler Preparation





Boiler Repairs

Boiler Start-Up





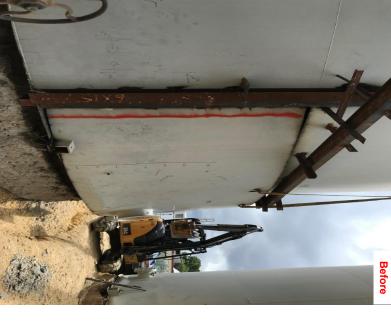
Boiler Repairs



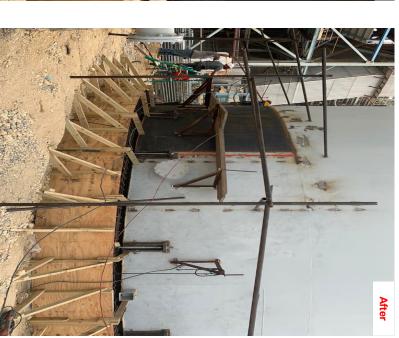


5

Condensate Tank 5 Repairs Evolution







Report Submitted as of July 31, 2020

Project Evolution (Cont'd)

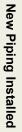
Condensate Tank 6 Demolished

17

Report Submitted as of July 31, 2020

Project Evolution (Cont'd)









Valve Repairs





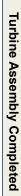


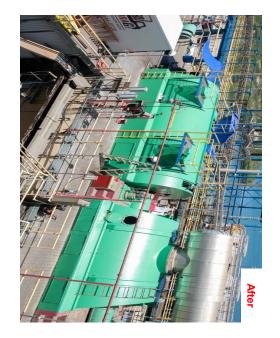


Turbine Disassembly

Assembly In Progress









Summary by Initiative

	16. Operation Expenses (Payroll, Materials, etc.)	15. Suplementary Tasks, Future Works & Misc.	14. Inspections and Tests MPT	13. Civil Repair and Other Areas Reconstruction	12. Unit 5 Startup and Commissioning	11. Operational Test and Control Tasks	10. Generator Inspection and Repairs	09. Turbine Inspection and Repairs	08. Auxiliary Equipment Inspection and Repair	07. Boiler Unit 5 Repair Works	06. Condensate Water Tank 5 Repairs	05. Structural Repair Works Unit 5	04. Lead Removal Works Unit 5	03. Asbestos Removal and Disposal Unit 5	02. Engineering,Technical Studies & Inspection	01. Emergency Declaration	Initiative Description
		7	3	7	_	5	_	_	9	9	2	З	1	_	11	1	# Workstreams
		39%	75%	98%	0%	95%	100%	100%	96%	97%	100%	100%	100%	100%	99%	100%	% Completion
	-	0	1	1	1	_	0	0	7	_	0	0	0	0	_	0	Pending Tasks
	8/8/2020	3/9/2021	8/1/2020	7/31/2020	8/7/2020	7/28/2020	7/27/2020	7/25/2020	8/8/2020	8/7/2020	7/23/2020	7/20/2020	7/20/2020	7/4/2020	8/8/2020	3/23/2020	Finish Date
\$25,184,292	\$0	\$6,310,943	\$85,812	\$565,865	\$72,000	\$144,000	\$0	\$0	\$5,499,436	\$4,555,230	\$970,800	\$3,431,193	\$1,111,843	\$199,000	\$2,238,171	\$0	Budget Baseline
\$21,259,651	\$3,382,205	\$3,249,346	\$56,262	\$770,902	\$0	\$0	\$379,500	\$178,994	\$3,697,438	\$3,102,437	\$712,930	\$2,024,578	\$1,018,268	\$199,000	\$2,487,790	\$0	Total Forecast Amount
\$21,670,052	\$3,382,205	\$3,249,346	\$56,262	\$770,830	\$0	\$0	\$379,500	\$178,994	\$3,693,997	\$4,152,437	\$712,930	\$2,024,578	\$1,018,268	\$199,000	\$1,851,704	\$0	Total Committed
\$9,079,027	\$0	\$591,573	\$38,401	\$443,450	\$0	\$0	\$0	\$78,663	\$2,638,176	\$1,808,666	\$487,254	\$1,697,280	\$121,430	\$0	\$1,174,133	\$0	Total Invoices
\$5,262,677	\$2,678,735	\$23,329	\$37,825	\$0	\$0	\$0	\$0	\$0	\$1,923,949	\$0	\$104,188	\$0	\$0	\$0	\$494,651	\$0	Total Disbursements

^{*} Excludes repairs not needed for start-up such as new Administrative and Laboratory buildings and concrete repairs to discharge channel
** Includes expenses related to PREPA's craft labor and warehouse materials



Summary by Workstream

13	12A	12	11	10	9	œ	7	6	5	4	ω	2	1	ID
Structure Steel Repair Works Units 5 - phase 2	Asbestos Removal and Disposal Unit 5	Lead Removal Works for Units 1-6 (Phase 2, 3 and 4)	Project Management and Inspection Team for Rehabilitation Unit 5	Geotechnical Post Seismic Event Condition Survey	Inspection and Condition Survey Water Tunnel Condensers 5 and 6	Condition Survey and Testing for Concrete Pedestals for Power Turbine and Generator Units , 5 and 6	Interior Inspection Work Boilers Units 5 and 6	Water and Fuel Tanks Condition Survey (20 tanks)	Immediate Repair Works for Safety and Continuing Inspection Works Units 3, 4 , and 5	Initial Lead Removal for Immediate Repair Works Units 3,4 and 5	Initial Assessment High Energy Piping Post Seismic Event Units 5 and 6	Preliminary Structural Inspection Works Units 3,4, 5 and 6	Exterior Inspection Boiler Units 5 &6	Workstream Description
100%	100%	100%	98%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	% Completion
0	0	0	1	0	0	0	0	0	0	0	0	0	0	Pending Tasks
General Electric Fieldcore (GEF)	Caribe Hydroblasting	JR Industrial Contractors, PREPA	PREPA, Contractors (Various)	Earth Engineers, PSC	Marine Diving	Heinsen Global	Caribe GE International Energy	Heinsen Global	Enersys Engineering Corp.	Enersys Engineering Corp.	Caribe GE International Energy	Caribe GE International Energy	Caribe GE International Energy	Resources
\$1,367,075	\$199,000	\$1,111,843	\$1,020,000	\$349,047	\$83,100	\$55,160	\$66,030	\$134,448	\$0	\$86,941	\$22,540	\$337,735	\$83,170	Budget Baseline
\$1,367,075	\$199,000	\$1,018,268	\$1,020,000	\$564,066	\$83,100	\$55,160	\$100,630	\$134,448	\$68,441	\$18,500	\$22,540	\$337,735	\$83,170	Total Forecast Amount
\$1,367,075	\$199,000	\$1,018,268	\$383,914	\$564,066	\$83,100	\$55,160	\$100,630	\$134,448	\$68,441	\$18,500	\$22,540	\$337,735	\$83,170	Total Committed
\$1,562,493	\$0	\$121,430	\$19,140	\$275,969	\$58,400	\$55,160	\$100,630	\$134,448	\$68,441	\$18,500	\$22,540	\$337,735	\$83,170	Total Invoices
\$0	\$0	\$0	\$0	\$218,674	\$0	\$26,844	\$34,213	\$132,776	\$0	\$0	\$0	\$0	\$82,144	Total Disbursements

Condensate Water Tank Repairs Emergency Declaration U5 Structural Repairs

Civil & Other Reconstruction Aux. Equipment Repairs

Boiler Unit 5 Works

MPT Test and Repair Dikes

Asbestos Removal & Disposing Unit 5 Startup and Commissioning Turbine Inspection & Repairs

Lead Removal Works Operational Test & Control Tasks Generator Inspection & Repairs Supplementary and Future Tasks



29	28	27	26	25	24	22	20	19	18	17	16	15	14	₽
Civil Repair Work Shift Engineer Room	Engineering Room Demolition and Reconstruction	Compressor Room Demolition and Reconstruction	Civil and Interior Works at Unit 5 Control Room	Existing 50 Ton Crane	Demineralized Water Treatment Demi RO and Demi Resin	Condensate Water Tank Design and Construction	Temporary Connection Condensate Water Tanks 3 and 4	Boiler Unit 5 Preparation (Boiler Wash & Others)	Boiler Unit 5 Interior Works	Structural Steel Repair Works Unit 6 - phase 2, 3 and 4 (included in unit 6 budget)	Structure Steel Repair Works Units 3 and 4 - phase 2 and 3 (pending task not included since they are not needed for start-up)	Structure Steel Repair Works Units 1 and 2 phase 2 (pending task not included since they are not needed for start-up)	Structure Steel Repair Works Units 5 - phase 3 & 4	Workstream Description
100%	100%	100%	100%	100%	75%	100%	100%	100%	100%	0%	0%	0%	100%	% Completion
0	0	0	0	0	2	0	0	0	0	0	0	0	0	Pending Tasks
ALL Contractors & Services Corp	ALL Contractors & Services Corp	ALL Contractors & Services Corp	ALL Contractors & Services Corp	Enersys Engineering Corp., Vital Energy	PREPA, Enersys Engineering, LT Automation	Heinsen Global, RG Engineering, PREPA	PREPA, Enersys Engineering Corp.	Induchem, AIT Technologies, Inc.	PREPA	General Electric Fieldcore (GEF)	General Electric Fieldcore (GEF)	General Electric Fieldcore (GEF)	General Electric Fieldcore (GEF)	Resources
\$89,700	\$0	\$58,515	\$180,000	\$78,492	\$840,000	\$750,000	\$220,800	\$1,000,000	\$500,000	\$1,406,615	\$282,138	\$286,669	\$657,503	Budget Baseline
\$89,700	\$0	\$58,515	\$265,612	\$112,904	\$245,465	\$492,130	\$220,800	\$304,480	\$0	\$0	\$282,138	\$286,669	\$657,503	Total Forecast Amount
\$89,700	\$0	\$58,515	\$265,612	\$112,904	\$245,465	\$492,130	\$220,800	\$304,480	\$0	\$0	\$282,138	\$286,669	\$657,503	Total Committed
\$78,557	\$0	\$56,075	\$238,515	\$81,934	\$71,491	\$266,454	\$220,800	\$0	\$0	\$134,787	\$28,441	\$28,441	\$0	Total Invoices
\$0	\$0	\$0	\$0	\$0	\$0	\$104,188	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Total Disbursements

U5 Structural Repairs Eng. & Technical Studies

Condensate Water Tank Repairs Emergency Declaration Civil & Other Reconstruction Aux. Equipment Repairs

Boiler Unit 5 Works Asbestos Removal & Disposing Lead Removal Works

MPT Test and Repair Dikes

Unit 5 Startup and Commissioning Turbine Inspection & Repairs
Operational Test & Control Tasks Generator Inspection & Repairs Supplementary and Future Tasks



45	44	43	42	4	39	38	37	36	34	33	32	31	30	₽
Mark VI Turbines Inspection	DCS Foxboro Inspection - Boilers	Metering Station, Automation, TWI, Opacimeters 5-6, and Oil Flush Turbine U. 5	Inspection on High Energy Supports (Pipe Hangers)	Cargo Elevators	Condensate Recirculation Discharge Pipe (12 ft diameter)	Condenser Unit 5 Activities	Boiler Insulation Activities	New Overhead Crane	Safety Valves Repair	Line Valves Overhaul	Non-Destructive Test on Steam piping Unit 5	Mechanical Inspection, Repair & Alignment (Fans and Pumps)	Boilers Crossover links - Desuperheater Replacement	Workstream Description
100%	100%	90%	75%	100%	100%	100%	100%	100%	100%	100%	100%	95%	100%	% Completion
0	0	_	_	0	0	0	0	0	0	0	0	4	0	Pending Tasks
PREPA	PREPA	LT Automation, PREPA	Environics (Subcontractor: Ocean State)	Vertech, Inc.	Malnat	PREPA, Induchem, Environics	JR Industrial Contractors, PREPA	Master Link	PREPA	Ensysa	Alonso & Carus Iron Works	PREPA, Cortes Industrial Organization	General Electric Fieldcore (GEF)	Resources
\$60,000	\$60,000	\$1,812,000	\$250,000	\$60,000	\$900,000	\$180,000	\$700,000	\$1,556,943	\$0	\$49,230	\$250,000	\$120,000	\$1,800,000	Budget Baseline
\$0	\$0	\$450,534	\$152,710	\$60,000	\$975,000	\$349,016	\$450,000	\$1,556,943	\$0	\$178,818	\$250,000	\$7,577	\$1,766,429	Total Forecast Amount
\$0	\$0	\$450,534	\$152,710	\$60,000	\$975,000	\$349,016	\$1,500,000	\$1,553,502	\$0	\$178,818	\$250,000	\$7,577	\$1,766,429	Total Committed
\$0	\$0	\$0	\$0	\$10,700	\$931,250	\$0	\$45,632	\$1,553,502	\$0	\$153,208	\$20,040	\$0	\$1,589,786	Total Invoices
\$0	\$0	\$0	\$0	\$2,266	\$393,750	\$0	\$0	\$1,530,199	\$0	\$0	\$0	\$0	\$0	Total Disbursements

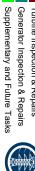
U5 Structural Repairs

Condensate Water Tank Repairs Emergency Declaration Civil & Other Reconstruction Aux. Equipment Repairs

Boiler Unit 5 Works Asbestos Removal & Disposing Lead Removal Works

MPT Test and Repair Dikes

Unit 5 Startup and Commissioning Turbine Inspection & Repairs
Operational Test & Control Tasks Generator Inspection & Repairs



59	58	57	48	56	55	54	53	52			49	47		ID
Mitigation of contaminated terrain switchyard 115kV, Autotransformer	MPT 6 Secondary Containment repairs (included in Unit 6 budget)	MPT 4 Secondary Containment repairs (included in Unit 6 budget)	MPT 5 Secondary Containment repairs	Unit 5 Star Up and Commissioning Test	New Laboratory and Administration Building (not needed for start-up of unit)	Temporary Office for Shift Engineer Trailer	Temporary Laboratory Preparation and Commissioning Trailer	Boiler Prestart-Up Jobs / Hydrostatic Test	Blow off Pumps Test	Reestablish of Compressed Gases, Sulfuric Acid, CO2 and Caustic Soda System	Reestablish Potable Water System	Natural Gas System Activities (pending task not included since they are not needed for start-up)	Trip Test Boilers and Turbine	Workstream Description
100%	75%	30%	75%	0%	0%	100%	85%	100%	100%	100%	100%	65%	75%	% Completion
0	0	0	_	_	0	0	1	0	0	0	0	0	1	Pending Tasks
5 Senses Solutions	5 Senses Solutions	5 Senses Solutions	5 Senses Solutions	PREPA	Contractor TBD	ALL Contractors & Services Corp	ALL Contractors & Services Corp	PREPA	PREPA	PREPA	PREPA	ALL Contractors & Services Corp	PREPA	Resources
\$20,000	\$29,550	\$17,480	\$38,783	\$72,000	\$2,400,000	\$147,650	\$70,000	\$6,000	\$6,000	\$12,000	\$12,000	\$1,000,000	\$6,000	Budget Baseline
\$20,000	\$0	\$17,480	\$38,783	\$0	\$0	\$260,800	\$76,275	\$0	\$0	\$0	\$0	\$908,000	\$0	Total Forecast Amount
\$19,928	\$0	\$17,480	\$38,783	\$0	\$0	\$260,800	\$76,275	\$0	\$0	\$0	\$0	\$908,000	\$0	Total Committed
\$19,928	\$0	\$0	\$38,401	\$0	\$0	\$50,375	\$0	\$0	\$0	\$0	\$0	\$163,800	\$0	Total Invoices
\$0	\$0	\$0	\$37,825	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Total Disbursements

Eng. & Technical Studies U5 Structural Repairs

Civil & Other Reconstruction Aux. Equipment Repairs

Condensate Water Tank Repairs Emergency Declaration Boiler Unit 5 Works Asbestos Removal & Disposing Lead Removal Works

Unit 5 Startup and Commissioning Turbine Inspection & Repairs
Operational Test & Control Tasks Generator Inspection & Repairs MPT Test and Repair Dikes

Supplementary and Future Tasks



			65	64	63	62	61	60	Ð
	Other Contracts	PREPA Payroll and Other Miscellaneous Expenses	Scaffolding & Others	Emergency Declaration	Plant Conservation Electric Works	Turbine Inspection and Repairs	Generator Inspection and Repairs	Structural Concrete Repairs Discharge Channel (pending task not included since they are not needed for start-up)	Workstream Description
	-	-	100%	100%	100%	100%	100%	11%	% Completion
	0	0	0	0	0	0	0	0	Pending Tasks
	Contractor (Various)	PREPA	Brand, Contractor (Various)	PREPA	PREPA	PREPA, Allied Power Technologies	PREPA, MD&A	Contractor TBD	Resources
\$25,184,292	\$0	\$0	\$531,186	\$0	\$0	\$0	\$0	\$1,750,950	Budget Baseline
\$21,259,651	\$1,409,508	\$3,382,205	\$303,031	\$0	\$0	\$178,994	\$379,500	\$0	Total Forecast Amount
\$21,670,052	\$1,409,508	\$3,382,205	\$303,031	\$0	\$0	\$178,994	\$379,500	\$0	Total Committed
\$9,079,027	\$155,636	\$0	\$204,556	\$0	\$0	\$78,663	\$0	\$0	Total Invoices
\$5,262,677	\$17,864	\$2,678,735	\$3,200	\$0	\$0	\$0	\$0	\$0	Total Disbursements

Eng. & Technical Studies U5 Structural Repairs

Condensate Water Tank Repairs Emergency Declaration

Civil & Other Reconstruction Aux. Equipment Repairs

Boiler Unit 5 Works Asbestos Removal & Disposing Lead Removal Works

Unit 5 Startup and Commissioning Turbine Inspection & Repairs
Operational Test & Control Tasks Generator Inspection & Repairs

MPT Test and Repair Dikes

Supplementary and Future Tasks



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:

			\$1,750,950	Estimated Total \$1,750,950	
Waiting for Geotechnical Results so PREPA may commenced with the design process	TBD	Planning Stage	\$1,750,950	Emergency Procurement \$1,750,950	Structural Concrete Repairs to Outfall channel structure, ending segment
Update	Target Date Update	Status	Est. Amount	Procurement Type	Procurement Description



Unit 5 Procurement Plan - Awarded

^{*} 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.



^{*} 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.



35.	34.	33.	32.	31.	30.	29.	28.	27.	26.	25.	24.	#
Turbine-Generator Inspection Work	Underwater Visual Inspection of the Tunnels Condenser 5 and 6	Condensate Recirculating Discharge Pipe	Lead Removal and Disposal Works - Structural Repairs Units 1-6	Asbestos Removal & Disposal Works Unit 5	NDT Services Unit 5	Civil Works Control Room 5-6, Compressor Room, Shift Engineer Room	Temporary Administrative Offices (Rental - 12 Months)	Temporary Laboratory Offices (Rental - 12 Months)	Natural Gas Line Pipe Structural Repair Works	Removal and Mitigation of Contaminated Soil Switchyard 115 kV	MPT 6 Secondary Containment Repair Works (Incorporated in Unit 6)	Procurement Description
Emergency Procurement	Emergency Procurement	Emergency Procurement	Emergency Procurement	Emergency Procurement	Emergency Procurement	Emergency Procurement	Emergency Procurement	Emergency Procurement	Emergency Procurement	Emergency Procurement	Emergency Procurement	Procurement Type*
\$379,500	\$83,100	\$975,000	\$1,011,843	\$199,000	\$250,000	\$328,215	\$182,475	\$76,275	\$908,000	\$19,928	\$0	Cost
61,62	9	39	12	12A	32	26-29	54	53	47	59	58	Associated Workstream#
87153	86495	86664	86566	86559	86678	86553	86552	87245	86823	86716	86581	Contract#
MECHANICAL DYNAMICS ANALYSIS.3	MARINE DIVING CONTRACTORS	MALNAT ASOCIADOS	J R INDUSTRIAL CONTRACTORS INC	Caribe Hydroblasting	ALONSO CARUS IRON WORKS INC	ALL CONTRACTORS SERVICES CORP	ALL CONTRACTORS SERVICES CORP	ALL CONTRACTORS SERVICES CORP	ALL CONTRACTORS SERVICES CORP	5 SENSES SOLUTIONS LLC.	5 SENSES SOLUTIONS LLC.	Contractor Name

^{*} 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.



47.	46.	45.	44.	43.	42.	41.	40.	39.	38.	37.	36.	#
Superheater-Desuperheater Link Piping Installation U. 5	Crane Rental of 150 tons and 230 feet	Trailer for Costa Sur Repairs	January 8,2020 - Safety Inspection	Project Management Support	Project Management Services	Project Management and Data Analytics Support	Design Work - Structural Repairs Condensate Tank 5 & Old Water Condensate tanks	Visual Inspection and Ultrasonic Inspect API 653	Provide post-earthquake geotechnical evaluation of the foundation support of the different structures in the facility	Structural Repairs Unit 1-5	Structural Repairs Condensate Tank 5	Procurement Description
		-	•	Other	Other	Other	Request for Quotes (RFQs)	Request for Quotes (RFQs)	Request for Quotes (RFQs)	Request for Quotes (RFQs)	Emergency Procurement	Procurement Type*
\$1,766,429	\$148,000	\$78,325	\$3,031	\$50,000	\$53,500	\$280,414	\$146,662	\$134,448	\$349,067	\$2,593,385	\$345,468	Cost
30	ТВО	54	65	11	11	11	22	6	10	13-17	22	Associated Workstream#
86214	82754	86814	85336	85215	84270	84276	86344	85840	86125	86331	86704	Contract#
ALSTOM CARIBE INC	ALL CONTRACTORS SERVICES CORP	ALL CONTRACTORS SERVICES CORP	ABACUS ARCHITECTURE PSC	SCOTTMADDEN	СРМ	ACUMENIAN	Heisen Global Engineering (HGE)	Heisen Global Engineering (HGE)	EARTH ENGINEERS INC	ALSTOM CARIBE INC	R G ENGINEERING INC	Contractor Name

^{*} 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.



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

^{*} 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:

			\$18,110,211	Estimated Total		
ENVIRONICS ENGINEERING	84907	38	\$193,325		Condenser Mechanical Cleaning U5	72.
ENVIRONICS ENGINEERING	83534	42	\$152,710.00		High Energy Pipe Assessment and Repairs	71.
5 SENSES SOLUTIONS LLC.	87392	62	\$9,994.00		Turbine Oil Cooler Flush and Cleaning	70.
ENGINEERING SERVICES	87181		\$33,694		Wall Panel Installation	69.
ALLIED POWER TECHNOLOGIES	80175	62	\$169,000		Turbine Oil Flush	68.
ENVIRONICS ENGINEERING	78808		\$313,354		Chiller Mechanical Cleaning	67.
CORTES INDUSTRIAL ORGANIZATION	87167	31	\$7,600		Vacuum Pump Motor Repairs	66.
ENGINEERING SERVICES	87169		\$48,000		Transformer Testing	65.
AIT TECHNOLOGIES INC	86734	19	\$64,480		A/C equipment and duct cleaning	64.
AIT TECHNOLOGIES INC	87147		\$5,640		A/C units duct fabrication	63.
LT AUTOMATION	87275	43	\$66,500		Relocation of Foxboro monitors and power circuits for opacity meters	62.
PR OFFICE SOLUTIONS	87240		\$2,513		Necessary Office Supplies	61.
AIT TECHNOLOGIES INC	87148	-	\$3,700	-	Relocation of A/C units	60.
Contractor Name	Contract#	Associated Workstream#	Cost	Procurement Type*	Procurement Description	#

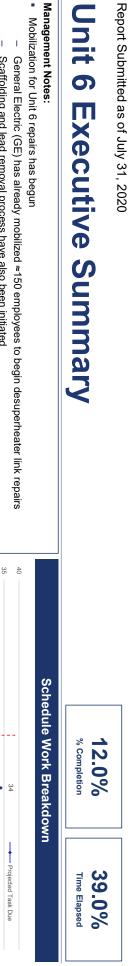
^{*} Note: Service Upon Request Agreements refers to agreements that PREPA has in place to be used in the event that a need arises from one of the plants within the specified scope. Cost associated with these contracts are only a fraction of the total contract amount.

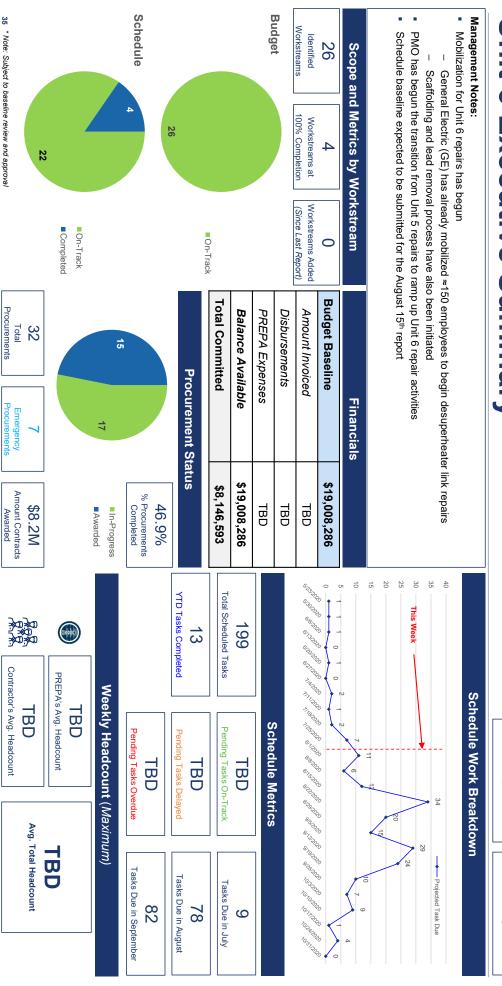


Unit 6 Status Overview









Unit 6 Project Summary by Workstream

12	11	10	9	8	7	6	5	4	3	2	1	₫
Boiler Repair Works	Balance of Plant Works	Air-Preheater Repairs	Crane Repairs	Cargo Elevator Repairs	Boiler Wash	Scaffolding Services	Structural Steel Repair Works Unit 6	Asbestos Removal Works	Lead Removal Works	Emergency Declaration	Project Initiation, Procurement, and Other Work Activities	Workstream Description
\$1,776,144	\$230,226	\$1,900,000	\$1,200,000	\$15,000	\$125,000	\$425,000	\$1,348,000	\$100,000	\$100,000	\$0	\$535,215	Est. Cost
PREPA, Contractor TBD	PREPA	Contractor TBD	Contractor TBD	Vertech	Induchem	Brand	General Electric Fieldcore (GEF)	Caribe Hydroblasting	JR Industrial Contractors	PREPA	PREPA, Contractor TBD	Resources Assigned
0%	0%	0%	0%	0%	100%	100%	0%	10%	0%	100%	48%	% Complete
8/15/2020	8/1/2020	8/15/2020	7/16/2020	8/15/2020	6/5/2020	6/15/2020	7/27/2020	7/20/2020	7/21/2020	3/23/2020	5/22/2020	Scheduled Start
9/12/2020	9/12/2020	9/14/2020	9/17/2020	9/15/2020	7/13/2020	6/29/2020	9/14/2020	8/31/2020	8/25/2020	3/23/2020	8/18/2020	Scheduled Finish
On Track	On Track	On Track	On Track	On Track	Completed	Completed	On Track	On Track	On Track	Completed	On Track	Status
0	0	0	0	0	1	1	0	0	0	1	6	Tasks Completed
10	2	1	1	1	0	0	1	1	1	0	11	Tasks Pending



Unit 6 Project Summary by Workstream (Cont'd)

24	23	22	21	20	19	18	17	16	15	14	13	ā
Cooler Main Oil Tank Cleaning and Repairs	Turbine-Generator Repairs	Stack, Insulation, and Refractory Works	Pipe Type Cable Repairs	Mechanical Inspection, Repair & Alignment (Heaters, Fans, Pumps, and Valves)	Line Safety Valves Repairs	Electrical and Instrumentation Works	Desuperheater Replacement Crossover Links	Demineralized Water Tank Repairs	Condensate Storage Tank Demolition	Condensate Circulating Water System Repairs	Burner Repairs	Workstream Description
\$70,000	\$4,290,843	\$600,000	\$57,500	\$550,000	\$450,000	\$1,155,809	\$1,800,000	\$0	\$0	\$1,750,000	\$500,000	Est. Cost
Contractor TBD	PREPA, Contractor TBD	Contractor TBD	Contractor TBD	PREPA, Contractor TBD	Contractor TBD	PREPA, Contractor TBD	Contractor TBD	Contractor TBD	Contractor TBD	Contractor TBD	Contractor TBD	Resources Assigned
0%	0%	17%	0%	0%	0%	8%	0%	0%	100%	35%	0%	% Complete
7/9/2020	8/1/2020	6/1/2020	8/15/2020	8/1/2020	8/15/2020	6/24/2020	7/24/2020	-	7/1/2020	6/29/2020	8/15/2020	Scheduled Start
7/21/2020	10/9/2020	9/26/2020	9/15/2020	10/21/2020	9/5/2020	10/20/2020	9/28/2020		7/8/2020	9/22/2020	9/11/2020	Scheduled Finish
On Track	On Track	On Track	On Track	On Track	On Track	On Track	On Track	On Track	Completed	On Track	On Track	Status
0	0	1	0	0	0	0	0	0	1	0	0	Tasks Completed
	39	5	1	25	1	46	57	0	0	5	1	Tasks Pending



Unit 6 Project Summary by Workstream (Cont'd)

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



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.

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



Unit 6 Procurement Plan - Pipeline

2 Replacement of Baskets Air Pre-heaters B 3 Repair and Replacement of Existing Burne 4 Condenser Discharge Tube Unit 6 5 Civil, electrical and mechanical repairs to tt 6 Repair and Replacement of Piping Water H 7 Repair and Replacement of Piping of the C 8 Mitigation Contract – Mechanical Repairs v 9 Mitigation Contract – Mechanical Repairs v 10 Mitigation Contract – Electrical and Instrum 11 Instrumentation and Electrical Wiring 12 Consumables (rods, angles, gases, etc.) 13 Air Pre Heaters Baskets	Procurement Description Replacement of Rails, Overhead Crane 5 and 6		Procurement Type* Contract Amendment	Procurement Type* Est. Amount Contract Amendment \$830,000	t Type* ndment
Repair and Replacement of Existing Burne Condenser Discharge Tube Unit 6 Civil, electrical and mechanical repairs to tt Repair and Replacement of Piping Water H Repair and Replacement of Piping of the C Mitigation Contract – Mechanical Repairs v Mitigation Contract – Electrical and Instrun Instrumentation and Electrical Wiring Consumables (rods, angles, gases, etc.) Air Pre Heaters Baskets	Replacement of Baskets Air Pre-heaters Baskets Unit 6		Emergency Procurement	Emergency Procurement \$700,000	
3 2 1 5	Repair and Replacement of Existing Burners Unit 6		Emergency Procurement	Emergency Procurement -	Emergency Procurement - Cancelled
3 2 1 0	Condenser Discharge Tube Unit 6		Emergency Procurement	Emergency Procurement \$1,700,000	
3 2 1 5	Civil, electrical and mechanical repairs to the Excitation Control Room Unit 6		Emergency Procurement	Emergency Procurement \$200,000	
3 2 1 5	Repair and Replacement of Piping Water Heater 3 Unit 6 (Not needed for start-up)	lþ)	ip) Emergency Procurement		Emergency Procurement
3 2 1 5	Repair and Replacement of Piping of the Coolers Main Oil Tank (CMOT) Unit 6 (scope reduced)	scope reduced)	scope reduced) Emergency Procurement		Emergency Procurement
3 2 4 0	Mitigation Contract – Mechanical Repairs with Stamp (Boiler)		Service Upon Request Agreement	Service Upon Request Agreement \$250,000	
	Mitigation Contract – Mechanical Repairs without Stamp		Service Upon Request Agreement	Service Upon Request Agreement \$450,000	
	Mitigation Contract – Electrical and Instrumentation Repairs		Service Upon Request Agreement	Service Upon Request Agreement \$125,000	
	Instrumentation and Electrical Wiring		Service Upon Request Agreement	Service Upon Request Agreement \$100,000	
	Consumables (rods, angles, gases, etc.)		Service Upon Request Agreement	Service Upon Request Agreement \$100,000	
	Air Pre Heaters Baskets		Service Upon Request Agreement	Service Upon Request Agreement \$1,200,000	

^{*} 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)

		\$7,162,500	Total		
TBD	Negotiations	\$57,500	Direct Negotiations	Pipe Type Cable Repairs	17
TBD	Pending Approval	\$200,000	TBD	Internal Boiler Inspection	16
TBD	Planning	\$600,000	Service Upon Request Agreement	Refractory and Insulation Work	15
TBD	Planning	\$250,000	Service Upon Request Agreement	Burner System Parts Replacement	14
Target Date	Status	Est. Amount	Procurement Type*	Procurement Description	#

^{*} 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

=======================================	10	9	∞	7	6	Ω	4	ω	2	-7	#
Turbine Oil Flush	A/C equipment and duct cleaning	Project Management Support	Project Management and Data Analytics Support	Structural Repairs Unit 1-6	Lead Removal and Disposal Works - Structural Repairs Units 1-6	Asbestos Removal & Disposal Works Unit 5	MPT 6 Secondary Containment Repair Works	Cargo Elevators Repairs	Boiler Hydroblasting	Scaffolding Services	Procurement Description
	-	Other	Other	Request for Quotes (RFQs)	Emergency Procurement	Contract Amendment	Contract Amendment	Service Upon Request Agreement	Service Upon Request Agreement	Service Upon Request Agreement	Procurement Type*
\$59,895	\$22,115	\$30,000	\$260,000	\$1,406,615	\$100,000	\$100,000	\$29,550	\$15,000	\$125,000	\$425,000	Est. Amount
Awarded	Awarded	Awarded	Awarded	Awarded	Awarded	Awarded	Awarded	Awarded	Awarded	Awarded	Status
ALLIED POWER TECHNOLOGIES	AIT TECHNOLOGIES INC	SCOTTMADDEN	ACUMENIAN	ALSTOM CARIBE INC	J R INDUSTRIAL CONTRACTORS INC	Caribe Hydroblasting	5 SENSES SOLUTIONS LLC.	VERTECH INC	INDUCHEM SERVICES	BRAND ENERGY INFRASTRUCTURE	Vendor Name

^{*} 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)

		\$8,146,593	Total		
ENGINEERING SYSTEMS SALES	Awarded	\$186,723		Safety Line Valves Repairs	15
MECHANICAL DYNAMICS ANALYSIS.3	Awarded	\$3,499,000	-	Turbine and Generator Repairs	14
ALSTOM CARIBE INC	Awarded	\$1,694,370	-	Desuperheater Link Repairs	13
ENVIRONICS ENGINEERING	Awarded	\$193,325	ı	U6 Condenser Cleaning	12
Vendor Name	Status	Est. Amount	Procurement Type*	Procurement Description	#

^{*} 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





Report Submitted as of July 31, 2020

Emergency
Management KPI
XP
Pl Dashboard

DEMAND (MW)

2419

AS OF JUL 29, 2020

99.57%

1,461,956

Total	Renewables	Sub - Total	AES	EcoEléctrica	EcoEléctrica	Hidroeléctricas	Vega Baja	Yabucoa	Mayaguez	Mayaguez	Mayaguez	Mayaguez	Jobos	Jobos	Palo Seco Megagens	Palo Seco Hidrogas	Palo Seco Hidrogas	Daguao	Daguao	Cambalache	Cambalache	San Juan CC	San Juan CC	San Juan CC	Aguirre CC	Aguirre CC	Aquirre	Aguirre	Palo Seco	Palo Seco	Palo Seco	San Juan	Power Plant	
			2	2	1		1-1	1-1	4	3	2	1	1-2	1-1	1, 2, 3	2-1	1-1	1-2	1-1	3	2	CT 6	STG 5	CT 5	Stag 2	Stag 1	2	1	4	3	1	9	Unit	Pro
	Renewables		Base Load	Base Load	Base Load	Peaker	Peaker	Peaker	Peaker	Peaker	Peaker	Peaker	Peaker	Peaker	Peaker	Peaker	Peaker	Peaker	Peaker	Peaker	Peaker	Base Load	Base Load	Base Load	Base Load	Base Load	Base Load	Base Load	Base Load	Base Load	Base Load	Base Load	Power Plant Type	Progress of Critical Generation System
3938	194	3744	262	177	177	23	21	21	55	55	55	SS	21	21	66	21	21	21	18	82.5	82.5	160	60	160	296	296	450	450	216	216	85	100	Installed Generation (MW)	eration System
3026	54	2972	258	170	170	22	20	20	50	25	55	45	18	19	62	21	19	20	20	77	75	120	60	160	145	145	350	390	151	130	65	90	Maximum Capacity (MW)	
2419	54	2365	257	110	110	2	0	0	50	0	0	0	0	0	58	20	18	0	0	77	50	120	49	149	118	118	308	319	151	130	64	87	Actual Generation (MW)	

	1695	2289			Total
	0	331			Sub-Total
Long Term Outage		100	Base Load	10	San Juan Steam
Long Term Outage		85	Base Load	2	Palo Seco
Long Term Outage		21	Peaker	3-2	Palo Seco Hidrogas
Long Term Outage		21	Peaker	3-1	Palo Seco Hidrogas
Long Term Outage		21	Peaker	2-2	Palo Seco Hidrogas
Long Term Outage		83	Peaker	1	Cambalache
	1695	1958			Sub-Total
August 1, 2020	190	262	Base Load	1	AES
July 29, 2020	176	177	Base Load	Steam	ECO
TBD	19	21	Peaker	1-2	Vega Baja
TBD	20	21	Peaker	1-2	Yabucoa
TBD	21	21	Peaker	1-2	Costa Sur Hidrogas
August 17, 2020	21	21	Peaker	1-1	Costa Sur Hidrogas
July 31, 2020	19	21	Peaker	1-2	Palo Seco Hidrogas
July 31, 2020	21	21	Peaker	2-2	Aguirre Hidrogas
TBD	21	21	Peaker	2-1	Aquirre Hidrogas
TBD	50	96	Base Load	Steam 2	Aguirre CC
August 29, 2020	50	50	Base Load	Stag 2 (2-2)	Aguirre CC
TBD	17	96	Base Load	Steam 1	Aguirre CC
August 8, 2020	50	50	Base Load	Stag 1 (1-3)	Aguirre CC
August 18, 2020	60	60	Base Load	STG 6	San Juan CC
October 21, 2020	410	410	Base Load	6	Costa Sur
August 14, 2020	410	410	Base Load	5	Costa Sur
August 1, 2020	70	100	Base Load	8	San Juan
TBD	70	100	Base Load	7	San Juan
Expected date to be online*		(MW)	Power Plant Type	Unit	Power Plant
	maximum capacity	Tilstalien delici attoli			

					MW				
	٠	500	1,000	1,500	2,500	3,000	3,500	4,000	
	14-Jul		1,467		2,808		3,211		
	15-Jul		1,467		2,754		3,278		
Peak Load	16-Jul		1,465		2,644		3,201		
k Load	17-Jul		1,465		2,573		3,176		
	18-Jul		1,466		- 1		3,278		
	19-Jul		1,466		2,424 2,526		3,278		
	20-Jul		1,466		2,593		3,339	Generat	
Max Cap (w)Renewables	21-Jul		1,464		2,639		3,317	Generation System Progress	
w)Renewa	22-Jul		1,462		2,437		3,202	tem Pro	
bles	23-Jul		1,466		2,601		3,122	gress	
	24-Jul		1,462		2,596		3,147		
	25-Jul		1,467		2,548		3,135		
 	26-Jul		1,464		2,571	\	3,185		
Customers	27-Jul		1,456		2,744	\	3,298		
	28-Jul		1,465				3,260		
	29-Jul		1,461				3,026		
					Custom	ers			

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	 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	 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	 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	 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	 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	 Develop standard project status progress reports Manage stakeholder needs and request for communications
PREB/FOMB Interface Team	 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	 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

