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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 CASO NÚM.: NEPR-AP-2020-0001

ASUNTO:

Reporte de Estatus y Progreso

MOCIÓN PARA PRESENTAR REPORTE DE ESTATUS Y 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, 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" o "Negociado") el reporte titulado *Costa Sur Damage Assessment and Repairs Progress Status Report* fechado 30 de octubre 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.

RESPETUOSAMENTE SOMETIDO.

En San Juan, Puerto Rico, este 30 de octubre de 2020.

/s Katiuska Bolaños Lugo Katiuska Bolaños Lugo kbolanos@diazvaz.law TSPR 18,888

¹ Resolución y Orden del Negociado de Energía del 22 de mayo del 2020 (la "Orden del 22 de mayo").

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

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 30 de octubre de 2020.

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

Exhibit A

Costa Sur Damage Assessment and Repairs Progress Status Report October 30, 2020



Puerto Rico Electric Power Authority (PREPA)

Costa Sur Damage Assessment and Repairs Progress Status Report October 30, 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

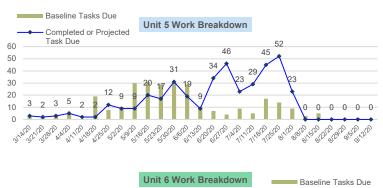
Report Outline	Page #
Program Overview	3
Unit 5 Start-Up Status Overview	5
Unit 5 Start-Up Project Summary by Initiatives	6
Unit 5 Start-Up Procurements Awarded	7
Unit 6 Start-Up Status Overview	14
Unit 6 Start-Up Project Summary by Workstream	15
Unit 6 Start-Up Procurement Pipeline	18
Unit 6 Start-Up Procurements Awarded	19
- Appendix	23



Program Overview – Unit 5 & 6 Start-Up Activities

Budget								
Approved Budget for Program \$40,200,000								
Forecast Cost f	ect to change)	\$40,967,987						
Unit 5 Start-Up								
A. Budget Base	line		\$25,200,000					
B. Total Foreca	st Cost		\$18,774,311					
C. Total Amoun	t Invoiced (Contracto	rs)	\$12,731,912					
D. PREPA Expe	enses (Time & Materi	als)	\$3,815,920					
E. Total Expen	ses (C+D)		\$16,547,832					
F. Total Disburs	ements		\$12,325,060					
Unit 6 Start-Up								
G. Budget Base	line		\$19,078,286					
H. Total Foreca	st Cost		\$22,193,675					
I. Total Amount	Invoiced (Contractors	s)	\$5,625,096					
J. PREPA Expe	nses (Time & Materia	als)	\$143,279					
K. Total Expen	ses (I+J)		\$5,768,374					
L. Total Disburs	ements		\$461,545					
	Procui	rement						
106	20	\$30.5M	96.2%					
Total Procurements	Total Emergency Procurements	Total Amount Contracts Awarded	% Total Procurements Completed					
Unit 5 S	Unit 6 S	Start-Up						
64	14	42	6					
U5 Total Procurements	U5 Emergency Procurements	U6 Total Procurements	U6 Emergency Procurements					
\$14.6M	100.0%	\$15.9M	90.0%					
U5 Amount Contracts Awarded	U5 % Procurements Completed	U6 Amount Contracts Awarded	U6 % Procurements Completed					

Schedule								
Unit 5 S	Start-Up	Unit 6 S	Start-Up					
3/23/2020 Repairs Start Date	8/1/2020 U5 Start-Up Date	6/1/2020 Repairs Start Date	12/23/2020 U6 Start-Up Date					
100.0% 100.0%		70.7% Time Elapsed	71.0% % Completion					
401 Total Completed Tasks	Total Pending		13 Pending Tasks On-Track					
O O Pending Pending Tasks Delayed Tasks Overdue		82 Pending Tasks Delayed	7 Pending Tasks Overdue					



	Unit 6 Work Breakdown	Baseline Tasks Due
40 —		Projected Task Due
30	26	
20 —	18 18 ²¹ ^{23 ²⁰}	20 19 18
10	13	7 3 6 8 6
0 1220101	P.	\$\frac{1}{2} 0 \qu
453 430 46 4.3 50 54 4.15 14 14 14 14 15 15 15.		12 1/1/1/1/2/1/2/1/2/2/2/2/2/2/2/2/2/2/2

Scope						
Unit 5 S	Start-Up	Unit 6 S	Start-Up			
55**	55	27	11			
Workstreams Identified	Workstreams at 100% Completion	Workstreams Identified	Workstreams at 100% Completion			

Weekly Headcount (Maximum)*



137*

PREPA's Max Weekly Headcount



124*

Contractor's Max Weekly Headcount 261*

Max Total
Weekly Headcount

Resource Breakdown	Headcount*
PREPA PMO	5
PREPA Costa Sur	71
PREPA Loan Employees	61
AIT Technologies	0
Alonso & Carus	6
Brand	8
Caribbean Industrial	3
Enersys	10
Ensysa	3
ESI	6
GE Fieldcore	18
JC Mechanical	14
JR Insulation	26
LT Automation	0
MD&A	30
Total	261

- * Maximum weekly headcount based on week starting on 10/23/2020
- ** 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 \$18.8M (\$6.4M below the budget baseline submitted)
- The PMO team continues to review the forecast cost for project closeout and adjust as needed. For this cycle, a few contracts in the procurement table were not used and were removed from the cost projection

Schedule Metrics					Financial Metrics				
Metric		#		%	A. Budget Baseline	\$25,200,000			
Scheduled Tasks		401		-	Expenses				
Completed Tasks		401		100.0%	B. Total Forecast Expenses*	\$18,774,311			
Pending Task (On-	-Track)	0		0.0%	C. Total Amount Invoiced	\$12,731,912			
Pending Task (Delayed)		0		0.0%	D. PREPA Related Expenses**	\$3,815,920			
Pending Task (Ove	erdue)	0	0.0%		F. Total Expenses (C+D)	\$16,547,832			
0	0		0 Pending Tasks		Balances				
Pending Tasks	Pending				G. Balance Available (A-F)	\$8,652,168			
Due in July	Due in A		Due in	n September	H. Forecast Balance (A-B)*	\$6,425,689			
Scope Metrics			Disbursements						
55	55	5	100.0%		I. Total Disbursements	\$12,325,060			
Identified Workstreams***	Workstre 100% Cor			Vorkstreams ompleted	J. % of YTD Expenses Paid (I/F)	74.5%			

Key Project Metrics 1/7/2020 3/23/2020 \$25.2M Repairs Start Date Outage Date **Budget Baseline** 8/1/2020* 8/1/2020* \$18.8M* U5 Start-Up Date **Project End Date** Forecast Expenses Schedule ■ Completed 55 **Budget** On Budget

Max Weekly Headcount



PREPA's Max Weekly Headcount O Contractor's Max Weekly Headcount

Total Weekly Max Headcount

■ Under Budget ■ Over Budget



^{*} 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	\$2,190,835	\$2,131,939	\$1,907,348	\$1,047,410
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	\$191,599	\$1,018,268	\$186,030	\$18,225
05. Structural Repair Works Unit 5	3	100%	0	7/20/2020	\$3,431,193	\$2,083,193	\$2,083,193	\$2,668,538	\$1,619,374
06. Condensate Water Tank 5 Repairs	2	100%	0	7/23/2020	\$970,800	\$712,930	\$712,930	\$709,518	\$730,194
07. Boiler Unit 5 Repair Works	9	100%	0	7/24/2020	\$4,555,230	\$2,716,683	\$3,092,567	\$2,250,492	\$2,029,669
08. Auxiliary Equipment Inspection and Repair	9	100%	0	8/1/2020	\$4,659,436	\$3,518,413	\$3,516,023	\$3,257,288	\$2,416,350
09. Turbine Inspection and Repairs	1	100%	0	7/23/2020	\$0	\$193,110	\$193,110	\$193,110	\$183,116
10. Generator Inspection and Repairs	1	100%	0	7/28/2020	\$0	\$75,078	\$379,500	\$75,078	\$54,000
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	\$459,230	\$433,755
14. Inspections and Tests MPT	3	100%	0	8/1/2020	\$0	\$0	\$0	\$0	\$0
15. Supplementary Tasks, Future Works & Misc.	7	57%	6	3/8/2021	\$7,306,755	\$2,703,270	\$2,878,369	\$1,458,996	\$410,762
16. Operation Expenses (Payroll, Materials, etc.)**	-	-	0	8/1/2020	\$0	\$3,694,645	\$3,694,645	\$3,382,205	\$3,382,205
				•	\$25,184,292	\$18,774,311	\$20,594,100	\$16,547,832	\$12,325,060

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



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

Unit 5 Procurement Plan - Awarded

#	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 Contaiment 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	\$131,742	11	87670	ACUMENIAN LLC
7	A/C units duct fabrication		\$5,380	MISC	87147	AIT TECHNOLOGIES INC
8	A/C equipment and duct cleaning		\$86,595	19	86734	AIT TECHNOLOGIES INC
9	Natural Gas Line Pipe Structural Repair Works	Emergency Procurement	\$908,000	47	86823	ALL CONTRACTORS SERVICES CORP
10	Trailer for Costa Sur Repairs		\$78,325	54	86814	ALL CONTRACTORS SERVICES CORP
11	Temporary Laboratory Offices (Rental - 12 Months)	Emergency Procurement	\$76,275	53	87245	ALL CONTRACTORS SERVICES CORP



#	Procurement Description	Procurement Type*	Cost	Associated Workstream #	Contract #	Contractor Name
12	Temporary Administrative Offices (Rental - 12 Months)	Emergency Procurement	\$182,475	54	86552	ALL CONTRACTORS SERVICES CORP
13	Civil Works Control Room 5-6, Compressor Room, Shift Engineer Room	Emergency Procurement	\$413,827	26-29	86653	ALL CONTRACTORS SERVICES CORP
14	Crane Rental of 150 tons and 230 feet		\$148,000	MISC	82754	ALL CONTRACTORS SERVICES CORP
15	Turbine Oil Flush		\$183,116	62	80175	ALLIED POWER TECHNOLOGIES
16	NDT Services Unit 5	Emergency Procurement	\$24,113	32	86678	ALONSO CARUS IRON WORKS INC
17	Opacity Meter Purchase		\$66,971	43	84994	AP EQUIPMENT INC / LT AUTOMATION
18	Scaffolding Services	Service Upon Request Agreement	\$287,826	65	84611	BRAND ENERGY INFRASTRUCTURE
19	Superheater-Desuperheat Link Piping Installation U. 5		\$1,766,429	30	86214	CARIBE GE INTERNATIONAL ENERGY
20	Structural Repairs Unit 1-6	Request for Quotes (RFQs)	\$2,652,000	13-17	86331	CARIBE GE INTERNATIONAL ENERGY
21	Exterior mechanical inspection of the condition of the boilers	Service Upon Request Agreement	\$83,170	1	83998	CARIBE GE INTERNATIONAL ENERGY
22	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
23	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

^{*} 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.



#	Procurement Description	Procurement Type*	Cost	Associated Workstream #	Contract #	Contractor Name
24	Asbestos Removal & Disposal Works Unit 5	Emergency Procurement	\$0	12A	86559	Caribe Hydroblasting
25	Vacuum Pump Motor Repairs		\$7,577	31	87167	CORTES INDUSTRIAL ORGANIZATION
26	Project Management Services	Other	\$53,500	11	84270	CPM PR LLC
27	Geotechnical studies for Costa Sur		\$215,000	10	86920	EARTH ENGINEERS INC
28	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
29	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
30	Lead Removal Services	Service Upon Request Agreement	\$18,500	4	82470	ENERSYS ENGINEERING CORP
31	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
32	Old Water Condensate Tanks Interconnection Works to Unit 5 Demin Water Cycle System	Service Upon Request Agreement	\$153,000	24	82470	ENERSYS ENGINEERING CORP
33	Structural Repairs Cross Bracings Structure - Overhead Crane 1-6	Service Upon Request Agreement	\$78,492	25	82470	ENERSYS ENGINEERING CORP
34	Cable tray installation for switchgear equipment		\$32,258	MISC	86961	ENGINEERING SERVICES
35	Wall Panel Installation		\$33,694	MISC	87181	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.



#	Procurement Description	Procurement Type*	Cost	Associated Workstream #	Contract #	Contractor Name
36	Deaerator Pump Repairs and Replacement		\$94,500	31	83250	ENGINEERING SERVICES
37	Repair Works on Valves (de Línea) Unit 5	Service Upon Request Agreement	\$178,818	33	83581	ENGINEERING SYSTEMS SALES
38	High Energy and Auxiliary steam and water pipes assessment for units 5 & 6		\$152,710	42	83534	ENVIRONICS ENGINEERING
39	Condenser Tube Cleaning		\$193,325	38	84907	ENVIRONICS ENGINEERING
40	Lead Paint and Asbestos Sampling Analysis		\$6,425	12, 12A	79564	Environmental Health & Safety Services
41	Project Financial Controls Support		\$45,473	11	2020-P00087	FUSIONWORKS
42	Visual Inspection and Ultrasonic Inspect API 653	Request for Quotes (RFQs)	\$134,448	6	85840	Heisen Global Engineering (HGE)
43	Condition Survey and Testing for Concrete Pedestals for Power Turbine and Generator Units , 5 and 6		\$55,160	8	85980	Heisen Global Engineering (HGE)
44	Design Work - Structural Repairs Condensate Tank 5 & Old Water Condensate tanks	Request for Quotes (RFQs)	\$146,662	22	86344	Heisen Global Engineering (HGE)
45	Structural engineering consulting		\$190,300	MISC	86919	Heisen Global Engineering (HGE)
46	Water Treatment Tank 2 Cleaning		\$0	19	85153	INDUCHEM SERVICES
47	Boiler Hydroblasting	Service Upon Request Agreement	\$58,020	19	80903	INDUCHEM SERVICES

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



#	Procurement Description	Procurement Type*	Cost	Associated Workstream #	Contract #	Contractor Name
48	Condenser Discharge Tube and Tunnel Cleaning		\$155,691	38	81017	INDUCHEM SERVICES
49	Boiler super vacuum	Service Upon Request Agreement	\$0	18	78061	INDUCHEM SERVICES
50	Lead Removal and Disposal Works - Structural Repairs Units 1-6	Emergency Procurement	\$185,174	12	86566	J R INDUSTRIAL CONTRACTORS INC
51	Insulation Repair Works in Boiler 5	Service Upon Request Agreement	\$450,000	37	86283	J R INDUSTRIAL CONTRACTORS INC
52	Integration of Raw Water Pumps Controls into DCS Foxboro	Service Upon Request Agreement	\$239,343	43	85590	LT AUTOMATION
53	Controls from interconnection work, all water condensate tank	Service Upon Request Agreement	\$46,232	24	65206	LT AUTOMATION
54	Relocation of Foxboro monitors and power circuits for opacity meters		\$66,500	43	87275	LT AUTOMATION
55	Integration of Demineralizer Controls into DCS	Service Upon Request Agreement	\$53,100	43	84651	LT AUTOMATION / Scheinder
56	Condensate Recircualting Discharge Pipe (12 ft diameter)	Emergency Procurement	\$975,000	39	86664	MALNAT ASOCIADOS
57	Underwater Visual Inspection of the Tunnels Condenser 5 and 6	Emergency Procurement	\$83,100	9	86495	MARINE DIVING CONTRACTORS
58	Overhead Crane Installation and Commissioning		\$1,553,502	36	82717	MASTER LINK CORPORATION
59	Turbine-Generator Inspection Work	Emergency Procurement	\$75,078	61	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.



#	Procurement Description	Procurement Type*	Cost	Associated Workstream #	Contract #	Contractor Name
60	Structural Repairs Condensate Tank 5	Emergency Procurement	\$345,468	22	86704	R G ENGINEERING INC
61	Repairs on fire protection systems	Service Upon Request Agreement	\$115,000	MISC	84101	R G ENGINEERING INC
62	Project Management Support	Other	\$58,635	11	85215	SCOTTMADDEN, INC
63	Cargo Elevators Repairs	Service Upon Request Agreement	\$28,945	41	82412	VERTECH INC
64	Existing Overhead Crane Units 3 and 6, Certification		\$34,412	25	84013	VITAL ENERGY CORPORATION
	Estimated Total					





Unit 6 Status Overview



Unit 6 Executive Summary

71.0%

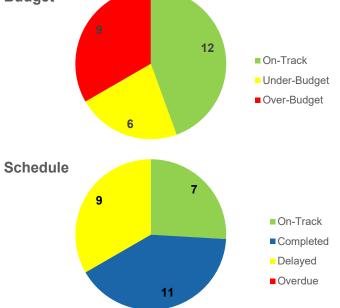
% Completion

70.7%

Time Elapsed

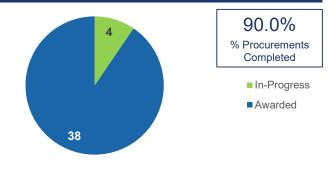
Management Notes:

- Stack, refractory, and gas duct work delayed due to weather conditions. Contractors planning to work two shifts of 12 hours a day in order to get back in schedule
- Additional scope identified for approximately 200 ft of underground wiring needed from 4kV transformer to existing manhole.
 Existing wiring could not be removed and replaced
- Air heater duct repairs started on 10/13
- Cleaning of hydrogen coolers started on 10/19, but had to change cleaning approach to a chemical cleaning due to the
 potential of the high-pressure wash causing additional damages



Financials							
Budget Baseline	\$19,078,286						
Forecast Cost	\$22,193,675						
Total Invoiced Amount	\$5,625,096						
PREPA Expenses	\$143,279						
Total Expenses	\$5,768,374						
Total Disbursements	\$461,545						
Total Committed in Contracts	\$15,873,620						

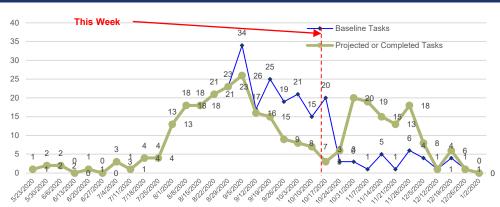
Procurement Status



42 Total Procurements

6 Emergency Procurements \$15.9M Amount Contracts Awarded

Schedule Work Breakdown



Schedule Metrics

305
Total Scheduled Tasks

Total Scheduled Tasks

203
YTD Tasks Completed

13
Pending Tasks On-Track

82
Pending Tasks Delayed

7
Pending Tasks Overdue

47

Tasks Due in October

62
Tasks Due in November

8
Tasks Due in December

Max. Weekly Headcount (based on week of 10/05)



137
PREPA's Avg. Headcount



124
Contractor's Avg. Headcount

261
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	\$620,508	PREPA, Acumenian, Fusionworks, ScottMadden	70%	5/22/2020	11/24/2020	On Track	15	1
2	Emergency Declaration	\$0	PREPA	100%	5/22/2020	6/18/2020	Completed	3	0
3	Lead Removal Works	\$100,000	JR Industrial Contractors	100%	7/21/2020	9/4/2020	Completed	1	0
4	Asbestos Removal Works	\$100,000	Caribe Hydroblasting (CHED)	100%	7/20/2020	9/5/2020	Completed	1	0
5	Structural Steel Repair Works Unit 6	\$1,348,000	General Electric Fieldcore (GEF)	99%	7/27/2020	11/25/2020	Delayed	65	2
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	100%	8/15/2020	9/14/2020	Completed	0	0
10	Air-Preheater Repairs	\$1,541,195	JC Mechanical Industrial Services LLC	100%	8/17/2020	9/9/2020	Completed	1	0
11	Balance of Plant Works	\$230,226	PREPA	TBD	9/12/2020	11/25/2020	On Track	0	0
12	Boiler Repair Works	\$2,440,408	PREPA	70%	6/1/2020	11/23/2020	On Track	4	8



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	\$180,402	PREPA	100%	8/25/2020	9/25/2020	Completed	1	0
14	Condensate Circulating Water System Repairs	\$1,111,325	Environics Engineers, Malnat	100%	6/29/2020	10/3/2020	Completed	3	0
15	Condensate Storage Tank Demolition, Design, and New construction	\$889,713	Alonso Carus	66%	7/1/2020	1/20/2021	Delayed	2	2
17	Desuperheater Replacement Crossover Links	\$1,694,370	CARIBE GE INTERNATIONAL ENERGY	100%	7/24/2020	9/9/2020	Completed	58	0
18	Electrical and Instrumentation Works	\$1,423,806	PREPA, AIT Technologies, Engineering Services, ESI, LT Automation	59%	6/24/2020	11/26/2020	Delayed	19	31
19	Line and Safety Valves Repairs	\$219,513	Ensysa	80%	8/6/2020	11/21/2020	Delayed	1	1
20	Mechanical Inspection, Repair & Alignment (Heaters, Fans, Pumps, and Valves)	\$681,032	PREPA	34%	8/17/2020	12/3/2020	Delayed	5	19
21	Pipe Type Cable Repairs	\$104,000	Environics Engineers	0%	11/2/2020	11/20/2020	Delayed	0	1
22	Stack, Insulation, and Refractory Works	\$749,676	JR Industrial Contractors	62%	6/1/2020	11/23/2020	Delayed	3	4
23	Turbine-Generator Repairs	\$6,699,587	PREPA, MD&A	57%	8/12/2020	12/14/2020	On Track	18	19
24	Cooler Main Oil Tank Cleaning and Repairs and Hydrogen Cooler Cleaning	\$125,962	PREPA	50%	9/1/2020	11/16/2020	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%	12/17/2020	12/23/2020	On Track	0	1
26	MPT 6 Secondary Containment Repair Works	\$29,550	5 Senses Solutions	100%	4/16/2020	10/14/2020	Completed	1	0
27	Operational Test and Control Tasks Unit 6	\$0	PREPA	0%	11/24/2020	12/17/2020	On Track	0	11
MISC	Miscellaneous Expenses and Other Contracts	\$509,402	Heinsen Global Engineering (HGE), LT Automation		6/1/2020	12/23/2020	On Track	0	0
	Total	\$22,193,675							



Unit 6 Procurement Plan - Pipeline

#	Procurement Description Procurement Type*			Status	Target Date
1	Mitigation Contract – Mechanical Repairs with Stamp R (Boiler)	Service Upon Request Agreement	\$250,000	Contract Available When Needed	TBD
2	Mitigation Contract – Mechanical Repairs without Stamp R	Service Upon Request Agreement	\$450,000	Contract Available When Needed	TBD
3	Mitigation Contract – Electrical and Instrumentation Repairs	Service Upon Request Agreement	\$125,000	Contract Available When Needed	TBD
4	New Natural Gas Ignitors (Not part of the Costa Sur Repairs budget)	rs (Not part of the Costa Sur Repairs budget)		In-Planning Stage	TBD
		\$2,788,000			



Unit 6 Procurement Plan – Awarded

#	Procurement Description	Procurement Type*	Cost	Associated Workstream #	Contract #	Contractor Name
1	MPT 6 Secondary Containment Repair Works	Emergency Procurement	\$29,550	26	86581	5 SENSES SOLUTIONS LLC.
2	Project Management and Data Analytics Support	Other	\$100,000	1	87670	ACUMENIAN LLC
3	Civil, electrical and mechanical repairs to the Excitation Control Room Unit 6	Emergency Procurement	\$158,020	18	87646	AIT TECHNOLOGIES INC
4	Turbine Oil Flush		\$59,895	23	80175	ALLIED POWER TECHNOLOGIES
5	EATON Breaker LVAR 3000 Design, Fabrication, and Installation		\$191,985	18	86883	ALLIED POWER TECHNOLOGIES
6	Design & Construction of a New Water Condensate 6	Request for Proposal Process	\$845,013	15	87958	ALONSO CARUS IRON WORKS INC
7	Scaffolding Services	Service Upon Request Agreement	\$425,000	6	84611	BRAND ENERGY INFRASTRUCTURE
8	Structural Repairs Unit 1-6	Request for Quotes (RFQs)	\$1,348,000	5	86331	CARIBE GE INTERNATIONAL ENERGY
9	Desuperheater Link Repairs		\$1,694,370	17	87333	CARIBE GE INTERNATIONAL ENERGY
10	Boiler Tube Purchase (Bifurcate)		\$137,564	12	87998	CARIBE GE INTERNATIONAL ENERGY
11	Asbestos Removal & Disposal Works Unit 5	Emergency Procurement	\$100,000	4	86559	Caribe Hydroblasting



#	Procurement Description	Procurement Type*	Cost	Associated Workstream #	Contract #	Contractor Name
12	Project Management Services	Other	\$41,400	1	84270	CPM PR LLC
13	Labor for Boiler Tube (Bifurcate) Replacement	Service Upon Request Agreement	\$74,400	12	82470	ENERSYS ENGINEERING CORP
14	Transformer Testing		\$40,721	MISC	87169	ENGINEERING SERVICES
15	Deaerator Pump Repairs and Replacement		\$94,500	12	83250	ENGINEERING SERVICES
16	Safety Line Valves Repairs		\$219,513	19	85203	ENGINEERING SYSTEMS SALES
17	Condenser Tube Cleaning and Outlet Boxes		\$193,325	14	84917	ENVIRONICS ENGINEERING
18	Lead Paint and Asbestos Sampling Analysis		\$10,000	12	86732	Environmental Health & Safety Services
19	Project Financial Controls Support		\$45,473	1	2020-P00087	FUSIONWORKS
20	Boiler Assessment	Service Upon Request Agreement	\$430,000	12	84002	GE FIELDCORE
21	Structural engineering consulting		\$19,700	15	86919	Heisen Global Engineering (HGE)
22	Boiler Hydroblasting	Service Upon Request Agreement	\$125,000	7	80903	INDUCHEM SERVICES



#	Procurement Description	Procurement Type*	Cost	Associated Workstream #	Contract #	Contractor Name
23	Internal Cleaning Services for Steam Generator		\$102,256	18	78061	INDUCHEM SERVICES
24	Oil coolers cleaning		\$34,984	24	88156	INDUCHEM SERVICES
25	Lead Removal and Disposal Works - Structural Repairs Units 1-6	Emergency Procurement	\$100,000	3	86566	J R INDUSTRIAL CONTRACTORS INC
26	Stack cleaning , painting, refractory, and insulation work	Service Upon Request Agreement	\$600,000	22	86283	J R INDUSTRIAL CONTRACTORS INC
27	Replacement of Baskets Air Pre-heaters Baskets Unit 6 and associated repairs	Emergency Procurement	\$581,055	10	87663	JC MECHANICAL INDUSTRIAL SERVICES LLC
28	Controls from interconnection work, all water condensate tank	Service Upon Request Agreement	\$67,000	18	65206	LT AUTOMATION
29	SS TANKS FOR PLANT REVERSE OSMOSIS	Service Upon Request Agreement	\$0	MISC	81974	LT AUTOMATION
30	Unit 6 Turbine thermocouples and RTD wiring labor	Service Upon Request Agreement	\$9,402	MISC	R243112	LT AUTOMATION
31	Condenser Discharge Tube Unit 6	Emergency Procurement	\$918,000	14	87630	MALNAT ASOCIADOS
32	High Pressure Heater Repairs		\$131,032	20	81838	MALNAT ASOCIADOS
33	Hydrogen coolers cleaning		\$90,978	24	88465	MARINE DIVING CONTRACTORS



#	Procurement Description	Procurement Type*	Cost	Associated Workstream #	Contract #	Contractor Name
34	Replacement of Rails, Overhead Crane 5 and 6	Contract Amendment	\$830,000	9	82717	MASTER LINK CORPORATION
35	Turbine and Generator Repairs		\$5,847,849	23	87501	MECHANICAL DYNAMICS ANALYSIS.3
36	Project management and stakeholder management support		\$58,635	1	87756	SCOTTMADDEN, INC
37	Cargo Elevators Repairs	Service Upon Request Agreement	\$15,000	8	82412	VERTECH INC
38	Pipe Type Cable Repairs	Direct Negotiations	\$104,000	21	TBD #2	
	Estimated Total					





Appendix



AS OF OCT 30, 2020

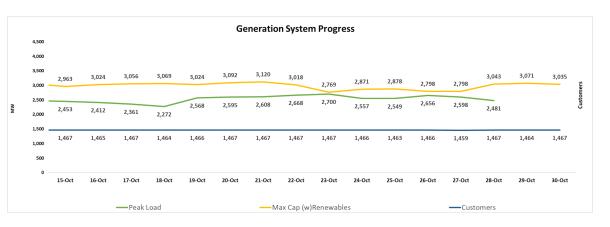
CUSTOMERS ENERGIZED

99.94% 1,467,166

Emergency	Management KPI	Dashboard
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	Progress of Critical Generation System							
Power Plant	Unit	Power Plant Type	Installed Generation (MW)	Maximum Capacity (MW)	Actual Generation (MW)			
San Juan	9	Base Load	100	85	83			
Palo Seco	4	Base Load	216	140	140			
Costa Sur	5	Base Load	410	285	290			
Aguirre	1	Base Load	450	120	122			
Aguirre	2	Base Load	450	180	178			
Aguirre CC	Stag 1	Base Load	296	193	92			
Aguirre CC	Stag 2	Base Load	296	145	30			
San Juan CC	CT 5	Base Load	160	160	136			
San Juan CC	STG 5	Base Load	60	50	42			
San Juan CC	CT 6	Base Load	160	160	137			
San Juan CC	STG 6	Base Load	60	60	44			
Cambalache	2	Peaker	82.5	76	0			
Daguao	1-1	Peaker	18	19	0			
Daguao	1-2	Peaker	21	16	0			
Palo Seco Hidrogas	1-1	Peaker	21	19	0			
Jobos	1-1	Peaker	21	19	0			
Jobos	1-2	Peaker	21	19	0			
Mayaguez	2	Peaker	55	55	0			
Mayaguez	3	Peaker	55	25	0			
Mayaguez	4	Peaker	55	50	0			
Yabucoa	1-1	Peaker	21	18	0			
Vega Baja	1-1	Peaker	21	21	0			
Hidroeléctricas		Peaker	26	29	13			
EcoEléctrica	1	Base Load	183	184	127			
EcoEléctrica	2	Base Load	183	184	127			
ECO	Steam	Base Load	184	183	128			
AES	1	Base Load	262	255	252			
AES	2	Base Load	262	255	252			
Sub - Total			4150	3005	2193			
Renewables		Renewables	194	30	30			
Total			4344	3035	2223			

Generation Units Out of Service							
			Installed Generation	Maximum Capacity			
Power Plant	Unit 7	Power Plant Type	(MW)	(MW)	Expected date to be online		
San Juan	/	Base Load	100	70	Available for Emergencie		
San Juan	8	Base Load	100	40	TBD		
Palo Seco	3	Base Load	216	90	December 19, 2020		
Costa Sur	6	Base Load	410	410	December 23, 2020		
Aguirre CC	Steam 1	Base Load	96	18	TBD		
Aguirre CC	Stag 2 (2-2)	Base Load	50	50	TBD		
Aguirre CC	Steam 2	Base Load	96	50	TBD		
Cambalache	3	Peaker	82.5	77	November 23, 2020		
Aguirre Hidrogas	2-1	Peaker	21	21	TBD		
Aguirre Hidrogas	2-2	Peaker	21	21	TBD		
Palo Seco Hidrogas	1-2	Peaker	21	19	TBD		
Palo Seco Hidrogas	2-1	Peaker	21	20	TBD		
Palo Seco Megagens	1, 2, 3	Peaker	66	66	Available for Emergenci		
Costa Sur Hidrogas	1-1	Peaker	21	21	TBD		
Costa Sur Hidrogas	1-2	Peaker	21	21	TBD		
Mayaguez	1	Peaker	55	25	TBD		
Yabucoa	1-2	Peaker	21	20	TBD		
Vega Baja	1-2	Peaker	21	19	TBD		
Sub-Total			1439.5	1058			
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	1	Base Load	85	65	Long Term Outage		
Palo Seco	2	Base Load	85		Long Term Outage		
San Juan Steam	10	Base Load	100		Long Term Outage		
Sub-Total			416	65	-		
Total			1855	1123			



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 			

