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GOVERNMENT OF PUERTO RICO PUBLIC SERVICE REGULATORY BOARD PUERTO RICO ENERGY BUREAU

IN RE: REVIEW OF LUMA'S INITIAL BUDGETS

CASE NO.: NEPR-MI-2021-0004

SUBJECT: Modified FY2023 Budget Amendment Request for Implementation of FOMB Certified Fiscal Plan Transformation Initiatives and in Compliance with the March 25 Order

MODIFIED FY2023 BUDGET AMENDMENT REQUEST FOR IMPLEMENTATION OF FOMB CERTIFIED FISCAL PLAN TRANSFORMATION INITIATIVES AND IN COMPLIANCE WITH THE MARCH 25 ORDER

TO THE HONORABLE PUERTO RICO ENERGY BUREAU:

COMES NOW the Puerto Rico Electric Power Authority ("PREPA"), through its counsel of record, and respectfully submits and prays as follows: a

I. Introduction

- 1. On March 14, 2023, PREPA filed with the Honorable Puerto Rico Energy Bureau of the Public Service Regulatory Board ("Energy Bureau" or "PREB") a document titled *Request to Amend FY2023 PREPA Budget for Implementation of FOMB Certified Fiscal Plan Transformation Initiatives*" ("March 14 Request").
- 2. Through the March 14 Request, PREPA informed the Energy Bureau of its urgent need to amend its fiscal year 2022-2023 ("FY2023") budget to be able to address the Genera PR LLC ("Genera PR") Mobilization Service Fee, monies for necessary operations, repairs and maintenance works under the PREPA fiscal plan, and the continuance of payments to its pension system ("Request to Amend the FY2023 Budget").
- 3. On March 24, 2023, PREPA submitted to the Energy Bureau a motion titled *Renewed and Reiterated Urgent Request to Amend FY2023 PREPA Budget for Implementation of FOMB Certified Fiscal Plan Transformation Initiatives* ("March 24 Motion"). Through the March 24

Motion, PREPA explained the revisions to the budget amounts requested through the March 14 Motion and provided a more extensive scope of justification for a modified Request to Amend the FY2023 Budget urging the Energy Bureau to approve the amendment ("Revised Request to Amend the FY2023 Budget").

- 4. The Revised Request to Amend the FY2023 Budget consisted of the Mobilization Service Fee pursuant to the Puerto Rico Thermal Generation Facilities Operation and Maintenance Agreement ("LGA OMA") in the amount of \$15 million, (ii) the estimated costs for the implementation of the Voluntary Transition Program ("VTP") of PREPA employees transitioning to Genera PR in the amount of \$29.4 million, (iii) \$200 million increase to fund PREPA's Employee Retirement System ("PREPA ERS"), \$65 million for FY2023 (May and June) and \$135 million for fiscal year 2023-2024 ("FY2024") (July through October), and (iv) requests for a \$46,440,594 increase to its FY2023 Generation Necessary Maintenance Expenses ("NME") and Operational expenditures (collectively, "O&M Expenses") and \$35,439,402 for continuance of these works in FY2024.
- 5. On March 24, 2023, the Fiscal Oversight and Management Board ("Oversight Board" or "FOMB") also notified PREPA of its determination concerning PREPA's March 21 Revised Request to Amend the FY2023 Budget and certified their own version of the modified FY2023 Budget ("FOMB March 24 Resolution"). Through the FOMB March 24 Resolution, the FOMB certified and fully funded the following amounts for PREPA's Revised FY2023 Budget:
 - a) Genera PR Mobilization Funding \$15 million to pay for Genera PR Mobilization costs as required under the LGA OMA.
 - b) VTP Funding \$29.4 million to fund a VTP.

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¹ Given that more than three (3) months passed since the original request to the Oversight Board in the December 8th Letter, PREPA estimated that not all the works in the O&M Expense Budget could be executed during the remainder of FY2023, especially considering the waiting time to receive equipment and materials under the current electric industry supply chain conditions. Hence, an adjustment was made and PREPA modified its request from 40 million to \$23,340,594 in the FY2023 NME budget.

- c) Pension Funding \$65M for FY2023 pension funding. No amounts for pension funding for FY2024, subject to further analysis and deliberations with the Government of Puerto Rico.
- d) <u>Generation NME and Operational expenditures</u> \$46.4 million for FY2023, through a reserve, subject to the Energy Bureau's review and approval.
- 6. Thus, the Oversight Board has already approved the Genera PR Mobilization Fee, the VTP, and ERS contributions for the remainder of FY2023. In regard to the FY2024 Pension Funding, the FOMB has not approved any amounts subject to further analysis and deliberations with the Government of Puerto Rico. As to the approval of PREPA's O&M Expenses, the Oversight Board fully funded \$46.4M increase operational expenses, necessary maintenance projects and capital equipment through a reserve, subject to the review and approval of the Energy Bureau.
- 7. Thereafter, on March 25, 2023, the Energy Bureau issued a *Resolution and Order* ("March 25 Order"), evaluating PREPA's March 14 Motion and among other things, ordering PREPA to:

detail (by fiscal year) the expenditures and budget items that correspond to the \$410 million FEMA reimbursements PREPA states were received during calendar year 2022 and 2023. PREPA shall identify any operational and/or necessary maintenance expenditures that were modified, cancelled or postponed in order to complete the projects for which FEMA reimbursed PREPA. If any operational and/or necessary maintenance expenditures were modified, cancelled, or postponed indicate their status and if they are no longer required, explain why.

- 8. In response, on March 25, 2023, PREPA filed a motion with the Energy Bureau titled *Petition* in Response to the Energy Bureau's March 25 Order Regarding the Revised Request to Amend the FY2023 Budget ("March 25 Motion"). Through the March 25 Motion, PREPA informed the Energy Bureau of the FOMB March 24 Resolution and requested a meeting with the Energy Bureau to discuss the scope of information needed to be responsive to the March 25 Order.
- 9. On March 28, 2023, PREPA met with the Energy Bureau Commissioners to discuss the budget approval process, the filings submitted by PREPA as well as the extent and details of the March 25 Order. As a result of the March 28 meeting, the Energy Bureau requested that PREPA

submit on or before April 3, 2023, the following information to fully consider PREPA's proposed amendment to its FY2023 Budget:

- a. Detailed information of the Generation NME expenditures, by year, by project including cross reference to Scope of Works ("SOW's") and Project Worksheets ("PW's") as well as reimbursement information.
- b. State whether a project was completed or not.
- c. State whether any current NME expenditures caused a deferment to any previously approved project.
- d. Detailed information of operational expenditures with a correlation to the Generation NME expenditures.
- e. In the case PREPA understands that projects could cross over to FY2024 PREPA should state so and detail the amounts for FY2023 and FY2024.
- 10. As part of this filing, PREPA is hereby submitting the information requested, details the inherent need for the approval of the O&M Expenses, moves the Energy Bureau to find the March 14 and March 24 requests moot and requests that the Energy Bureau urgently approve this Modified FY2023 Budget Amendment Request for Implementation of FOMB Certified Fiscal Plan Transformation Initiatives and in Compliance with the March 25 Order ("Modified Budget Amendment Request"). In addition to the O&M Expenses, the Modified Budget Amendment Request includes the Genera PR Mobilization Fee, the VTP, and ERS contributions for the remainder of FY2023 that have already been approved by the Oversight Board.

II. Procedural Background and Request for Approval of Modified Budget Amendment Request

11. On March 14, 2023, PREPA filed with the Energy Bureau, its Request to Amend the FY2023 Budget. Through said filing PREPA impressed upon the Energy Bureau the urgent need PREPA has to amend its FY2023 budget to be able to address the Genera PR Mobilization Service Fee for effective transformation efforts, necessary operations, repairs and maintenance works under the PREPA fiscal plan, and the continuance of payments to its pension system. As PREPA explained in the Request to Amend the FY2023 Budget, such an amendment does not impact the

energy sales rates, nor it represents a burden to the customers, as the update is based on revenues from reimbursed federal funds gathered by PREPA during the present and past fiscal years.

- 12. The Request to Amend the FY2023 Budget was filed in part as a response to the Energy Bureau *Resolution and Order issued on* February 27, 2023, which included a determination to conditionally approve the FY2023 annual budget as well as the pre-filing requirements for the FY2024 budget ("February 27 Resolution"). Notwithstanding, in the February 27 Resolution, the Energy Bureau determined that it did not approve modifications² of the proposed generation budget including the planned NME of \$99,039,000 for FY2023³ even though the Energy Bureau had taken the time to describe the dynamic nature of the NME including PREPA's need of flexibility to address unforeseen issues at a power plant once units are taken off-line for maintenance.
- 13. Additionally, the Energy Bureau stated it believed PREPA would benefit from a more prescriptive and preemptive maintenance program to improve the overall generation reliability. PREPA strongly agrees and throughout this budgetary process PREPA has been consistently asking for a fair allocation of funds withing the budget for NME, which are required to comply with a more prescriptive maintenance program instead of a reactive one. At present the allocated funds do not correspond to the realities of the generation fleet's NME.
- 14. The Modified Budget Amendment Request is of the most pressing urgency given that the proposed budget amendment is to be used to comply with PREPA's responsibilities under law, among which is the execution of actions related to the transition of the operation and maintenance

² The initial FY2023 Proposed Budget Filing included a Generation Budget of \$282,017,000, which included an NME budget of \$125,879,000. After the Energy Bureau directed LUMA and PREPA to submit a coordinated budget, the requested Generation Budget was modified to \$245,876,000 (not including Shared Services), with an NME budget of \$99,039,000.

³ Resolution and Order issued on February 27, 2023, pp. 27-28.

("O&M") of PREPA's thermal generation assets to Genera PR, according to the LGA OMA executed between PREPA, the Puerto Rico Public Private Partnerships Authority ("P3A"), and Genera PR, on January 24, 2023.

- 15. In compliance with the February 27 Resolution as well as of the requirements from the Oversight Board, PREPA presented the Request to Amend the FY2023 Budget to both the Energy Bureau as well as the FOMB to expedite the amendment revision process. PREPA sent the FOMB its budget amendment request in a letter titled Fiscal Year 2022-2023 (FY2023) Budget Amendment Request and dated March 13, 2023 ("March 13 Letter"), copy of which was included in the Request to Amend the FY2023 Budget.
- 16. Notwithstanding, on March 17, 2023, in response to the letter sent by PREPA⁴, the FOMB sent a letter ("FOMB March 17 Letter") substantially limiting the extent and scope of PREPA's proposed revised budget and completely eliminating the "Operational Expenses, Necessary Maintenance Projects, and Capital Equipment" line item, the O&M Expenses, which are necessary for the adequate functioning of PREPA's generation assets.
- Among other matters, the FOMB March 17 Letter stated that a "compliant proposed revised FY2023 budget for PREPA would exclusively include expenses for the VTP, the Mobilization Service Fee, and the interim pension funding to ensure benefit payments through the end of FY2023, with their corresponding funding source." However, given that PREPA has an inherent responsibility of maintaining the integrity of its generation assets and of the continuance of its operations, which have direct effect in the safety and reliability of the electrical service, PREPA needs to comply with the repair and maintenance schedule of these systems. Accordingly, PREPA requested the Oversight Board to reconsider the decision notified in the FOMB March 17 Letter

⁴ March 13, 2023's Letter from PREPA to FOMB.

and to approve all the requested amendments.

- 18. On March 21, 2023, PREPA responded to FOMB March 17 Letter urging the Oversight Board to reconsider PREPA's request impressing on them the importance of including O&M Expenses in the proposed revised budget. Specially, given the necessity of continuity in the maintenance and repair of PREPA's aged legacy generation and water facilities and stating that even if Genera PR were to take control of the legacy generation assets in May 2023, it is in Genera PR's best interest to have continuity and have the necessary maintenance and repair works ongoing ("March 21 Letter") See, Annex A. PREPA provided further details to the Oversight Board, through its March 22, 2023 letter titled Supplemental Information for Budget Amendment Review ("March 22 Letter"). See, Annex B.
- 19. The March 21 Letter also included a revised FY2023 Budget for PREPA, which encompasses (i) the Oversight Board's requested amendments to the Mobilization Service Fee pursuant to the LGA OMA in the amount of \$15 million, (ii) the estimated costs for the implementation of the VTP of PREPA employees transitioning to Genera PR in the amount of \$29.4 million, (iii) \$200 million increase to fund PREPA ERS, \$65 million for FY2023 (May and June) and \$135 million for FY2024 (July through October), and (iv) requests for a \$46,440,594 increase to its FY2023 O&M Expenses and \$35,439,402 for continuance of these works in FY2024.
- 20. As stated before, on March 24, 2023, the FOMB responded to the March 21 Letter and March 22 Letter and approved PREPA's request in these letters, including the \$46,440,594 O&M Expenses subject to the Energy Bureau's approval. Hence, the Modified Budget Amendment Request includes both the conditionally approved O&M Expenses and the already FOMB approved amendments. The modified FY2023 O&M Expenses in the amount of \$46,440,594 is

comprised of \$23,100,000 to be allocated in the operating budget and \$23,340,594 for the NME Budget.

- Included in the \$46,440,594 O&M Expenses request, there is a petition of adding approximately \$23,340,594 to the NME budget for necessary repairs and maintenance projects in the generation system for FY2023. Approximately \$4.95 million of this proposed NME budget amendment is required for necessary works to comply with the U.S. Environmental Protection Agency ("EPA") Consent Decree during FY2023. For continuance of environmental works, it is expected that PREPA will expend approximately \$1.05 million during FY2024.
 - The NME projects cover necessary maintenance at baseload and peaking generation facilities critical for reliable electric service at a reasonable cost. Repairs at Palo Seco 3, San Juan 7, and Aguirre 1 & 2 aim to keep these older units in working order to avoid the unnecessary and costly dispatch of diesel peaking units during the summer months. Requested maintenance projects at Mayagüez, Cambalache, Aguirre Combined Cycle, and the various Frame-5 peaking units aim to keep these peaking units operating and available for dispatch when needed to meet peak demand and in case of forced outages or other emergencies. The latest revision of the Exhibit E ("Exhibit E 2nd Review") to the PREPA's January 11, 2023's response to the request for information ("RFI") made by FOMB on December 27, 2022 ("January 11 RFI Response"), showing more information regarding the proposed NME projects, is included as part of Annex A. The Exhibit E 2nd Review shows that the proposed NME projects are expected to amount about \$23,340,594 for FY2023 and \$6,858,176 for continuance of works during FY2024, for an approximate total amount of \$30,198,770.
 - b. Environmental compliance: Urgent environmental repairs and maintenance are needed at San Juan 7, Palo Seco 3, and Costa Sur 5 & 6 for outsourced contract

work, equipment rental, and other maintenance expenses. The anticipated maintenance activities include performance and completion of mechanical repairs, refractory rehabilitation and boiler insulation, welding and mechanical repairs to auxiliary equipment and boilers, and boiler cleaning. Funding for this work is absolutely critical for PREPA and Genera PR to execute the planned environmental outages outlined in the latest generation maintenance schedule. The environmental compliance works are intrinsically related to other maintenance works executed on the unit, as the latter helps to comply with environmental regulations and the environmental maintenance increases the unit's dependability and availability.

- 22. These NME maintenance activities are not eligible for reimbursement from FEMA and therefore must be funded by PREPA's own funds. Its noteworthy, that the lack of executing maintenance works on PREPA's generating units, like the ones requested herein, was the main reason for the huge load shedding events occurred during the summer of 2021, when more than one million of customers were affected, including hospitals and commercial and industrial customers.
- 23. Continuing with the O&M Expenses, PREPA FY2023 Operating Budget requires \$23,100,000. This increase in budget is needed for administrative and technical support that shall not be interrupted for PREPA to comply with its repairs schedule and regulatory and contractual obligations. Of this increase, about \$19.8 million are needed for the daily execution of corrective and environmental maintenance of the power plants and approximately \$3.3 million are necessary to continue executing tasks related to compliance with the Energy Bureau, the LGA OMA transition completion, and ongoing legal responsibilities. The Exhibit E 2nd Review shows more details of the operating budget proposed amendments.
- 24. The \$19.8 million referenced above, is requested for the Materials & Supplies and Other

Miscellaneous Expenses that are essential to implement a better and more effective maintenance program, including preventive and proactive programs⁵. Providing enough budget in the above-mentioned categories is essential to maintain the continuity of the daily operations of the power plants and, consequently, are necessary to maintain and improve the availability and dependability of the generation system. As of the date of this motion, there are necessary upon-request services contracts with expenses that have exceeded 75% of the contract amount. In some cases, the expenses have already exceeded 90% of the contract amount, like the Contract No. 82470 with Enersys Engineering for mechanical works other than Stamp-R. These situations are causing delays in the power plants daily works and repairs. Accordingly, PREPA urges the Energy Bureau to approve the requested increase in the Operating Budget. PREPA hereby provides more details on this request:

- a. The Maintenance Program: Maintaining a very constrained budget for Materials & Supplies and Other Miscellaneous Expenses categories will result in a high probability of generation loss situations, which may produce load shedding events, brownouts, and blackouts. Also, it will most likely affect the efficient compliance with the itinerary of the scheduled maintenance and repair program of the PREPA's generation assets, which will increase the risk of having major equipment failure of the units due to exceeding its operational hours. The latest version of PREPA's Repairs Program is included in Annex C.
- b. Temporary generation: Even though PREPA has completed repairs of several

⁵ The procurement of materials and labor expenses budgeted within these categories include vibration analysis tests, electrical equipment thermography, and oil samples tests to prevent failure in main rotative equipment. In addition, these categories include replacement parts to reduce failure time in main equipment, purchases to improve the efficiency of the units with the condenser and boiler cleaner, replacement of insulation material and refractory, and improvements to the condition of the boiler structure and major equipment with epoxy material and painting work.

generation units during the past year and a half, its thermal generation fleet is still fragile and, unfortunately, was further damaged by Hurricane Fiona in September 2022. It is stressed that the works budgeted under the Materials & Supplies and Other Miscellaneous Expenses categories, are essential to conduct the repairs and maintenance program that PREPA and Genera PR will execute in compliance with the commitment with the Puerto Rico Power System Stabilization Task Force ("Federal Task Force") created on October 12, 2022. Due to the damages that Hurricane Fiona caused to PREPA's electrical system, especially its generating units, the Federal Government created the Federal Task Force to conduct assessments, develop plans, and begin executing strategies in order to stabilize the power system of Puerto Rico prior to the 2023 Hurricane Season. The Federal Task Force assessed the condition of the power system after the passage of Hurricane Fiona and found, among others, that:

- Actions are necessary to eliminate or lessen the immediate threat to lives, public
 health, and safety due to the instability of the power grid exacerbated by
 Hurricane Fiona damage to generation, transmission, and distribution systems.
- There is insufficient generation reserve capacity to complete repairs and ensure stability of the system.
- As a course of action, it is needed to execute the following:
 - Short- to mid-term: Provide temporary generation, land-, water-based or both, to increase the power system capacity to complete priority emergency repairs to stabilize the system without significant interruption in service.
 - o Mid- to long-term: complete priority emergency repairs to stabilize the

system without significant interruption in service.

- 25. Regarding the FY2023 Operating Budget, PREPA requires approximately \$3.3 million, necessary to continue executing tasks related to compliance with the Energy Bureau, and ongoing legal responsibilities. PREPA herein presents examples of responsibilities that would be affected if it does not have access to enough funds to conduct the corresponding tasks:
 - a. Renewable Generation Procurement: PREPA still has significant PREB regulatory requirements for oversight and reporting to fulfill for executed Tranche 1 renewable contracts, in addition to other responsibilities in the current Tranche 2 request for proposals ("RFP") process. PREPA filed motions with PREB most recently on February 28, 2023, to inform on key proponent communications regarding delays which could jeopardize the already delayed Closing Date and on a third policy change by LUMA Energy LLC ("LUMA") for the PREPA Interconnection Facilities. Regarding the Tranche 2 RFP process, in the Resolution and Order issued by the PREB on June 9, 2022, the Energy Bureau established that, among other roles and responsibilities, PREPA shall provide legal advice and resources in ensuring the RFP documents, including the power purchase and operating agreements ("PPOAs") to be included as part of the RFP and final contracts To comply with the regulatory requirements that are part of the execution. renewables' integration processes, PREPA mostly requires the services of law firms. For example, currently PREPA cannot assign more tasks to one of these law firms, King & Spalding LLP ("K&S"), as the expenditures has reached almost the maximum amount of PREPA's contract with them. In light of this situation, PREPA is not able to move forward with the completion of its duties in the

integration of renewable energy, which are required by the Puerto Rico public energy policy mandated by law. Without the requested FY2023 budget amendment, PREPA could incur in non-compliance with the Energy Bureau's Orders and scheduling.

- b. LGA OMA transition completion: As part of the LGA OMA transition, PREPA is required to undertake certain actions, like conducting assessments and developing reports to be submitted to different governmental entities and regulators. One of the needed assessments for the Genera PR transition is an environmental site assessment ("ESA") of all PREPA's thermal generating units' locations. PREPA executed a contract with the consultant Sargent and Lundy Puerto Rico LLC ("S&L") for conducting the ESAs. Currently, PREPA needs to add funds to the S&L contract, so the consultant can complete the ESA of the peaking units' sites. Without the ESA of all PREPA's generation thermal fleet, the transition to Genera PR cannot be completed.
- c. Given that PREPA's Legal Affairs Directorate depends almost completely on private law firms to comply with its duties and responsibilities, it is necessary to add funds to execute works during the remainder of FY2023. Among the PREPA's legal duties and responsibilities, the Legal Affairs Directorate is responsible for regulatory compliance, legislation reviews and opinions, notary services, litigation, claims, legislature hearings, court hearings, reporting to governmental agencies, and contracts evaluation. These ongoing activities are required from PREPA and, if unfunded, will cease to continue exposing PREPA to fines and penalties, that will increase the cost of service to the customers.

- 26. PREPA once again reiterates that (i) the works underlying the Modified Budget Amendment Request are urgently needed and critical to ongoing and environmentally compliant operations of Puerto Rico's electrical system, (ii) the ongoing procurement of equipment and repairs to the generation system must continue in sequence before and after Genera PR service commencement⁶, (iii) the denial of activities included in this request imperils the orderly transition and early months of Genera PR's operation of the generation system, and (iv) PREPA has funds on hand available for this budget amendment request.
- 27. Responsibly, PREPA's generation budget shall include the funds that Genera PR will need to continue the repair and maintenance works since its commencement that should occur not later than July 1, 2023. PREPA reiterates that the current budget is not enough to maintain the continuance of operations and of repair and maintenance works without disruption of the energy supply. If PREPA must stop these works, due to the lack of access to its reimbursed funds, it would result in a high risk of decreasing the reliability and availability of the generation system, with the consequence of putting the lives of the people of Puerto Rico at risk and destabilizing the economy.
- 28. PREPA cannot stress enough that the current lack of funds in the FY2023 budget will increase the risk of instability and load shedding events as a result of the continued delays to necessary repairs to the generation fleet, in addition to other adverse situations that would result from PREPA's non-compliance with environmental regulations and other regulatory obligations. Additionally, delaying the generation system repairs and failing to comply with regulatory and administrative matters, will adversely affect PREPA's transition actions for the completion of the Genera PR transaction. Once again, the urgency and imperative of the requested budgetary

⁶ The LGA OMA projected a target commencement date occurring 100 days after the contract signing that was executed on January 24, 2023 and, thus, this period will end on May 4, 2023.

amendments cannot be overstated.

- 29. As stated before, during the FY2023 budget development process, the FOMB broadly reduced PREPA's proposed budget, including drastic cuts to PREPA's proposed generation O&M. PREPA management strongly opposed these reductions and provided ample justification (financial and operational) in support thereof. At the time, PREPA management also advocated for additional budget for critical generation repairs arguing that the allocation of the forecasted revenues between LUMA and PREPA should considered the fragile condition of the generation fleet.
- 30. PREPA has thoroughly explained to both the FOMB and the Energy Bureau that the generation projects described in the Modified Budget Amendment Request have long-lead times, and the procurement of parts, supplies and contractors must continue uninterrupted or otherwise begin immediately to ensure timely maintenance ahead of the 2023 hurricane and summer high load seasons. Therefore, the expedited approval for leave to increase budget expenses for NME and Operational Expenditures is crucial to the stabilization of the power system. Failing to approve this request for an amended generation budget will inevitably cause further delays to necessary maintenance and repair projects which could result in load relays and blackouts because of insufficient generation.
- 31. In addition to the increased risk of instability and load shedding events as a result of continued delay in necessary repairs to the generation fleet, the lack of funds in the current FY2023 budget will cause PREPA's non-compliance with environmental regulations and other regulatory obligations, including, but not limited to, requirements from the PREB and Puerto Rico's Legislature.
- 32. Having received FEMA reimbursement funds that are not derived from the sale of energy

during FY2023, PREPA requests leave from the Energy Bureau to update and modify the FY2023 Generation Budget by \$46.4 million to continue to reconstruct, repair, and harden PREPA's generation assets – as it transitions these functions to Genera PR and not only to comply with the LGA OMA, but also to maintain the safety and reliability of the power system. As stated, this is possible without affecting customers energy bills, given the fact that the monies for the amendment are from reimbursed federal funds. The Annex D includes a summary of the deposits of federal funds reimbursements in PREPA's banking accounts in an Excel file, which shows deposits to and transfers from these accounts. The Excel file shows that as of March 16, 2023, the deposited amount was \$180,598,451.78. It is noted that, on March 30, 2023, a transfer of \$128,559,518.19 was processed from PREPA's operating account 0-908-500-527 to the FEMA reimbursement account 030-261678, for replenishment of funds previously transferred from the latter account to PREPA's operating accounts. Therefore, the federal funds reimbursements accounts currently have an aggregate balance of \$309,157,969.97. In addition, PREPA have requested several reimbursements that amount approximately \$40 million that are currently under the review of the Central Office for Recovery, Reconstruction and Resiliency ("COR3"), which could be received during the remainder of FY2023 and not later than the first 3 months of FY2024.

- 33. In light of the above, PREPA submits this Modified Amendment Budget Request, including O&M Expenses, with the following clarifications:
 - a. In regards to the Oversight Board's statement that PREPA has not spent its current O&M Expense Budget, PREPA would like to clarify that, the payment of utility works takes significant time, due mainly to delays in receiving the invoices and the subsequent validation, approval, and disbursement process. Hence, even though finance reports may show low expenditures, it does not necessarily mean that there

are savings in the corresponding accounts. In addition to the invoice payment process, there are payment commitments covering current works and others that will be executed before the end of FY2023. Furthermore, in the case of the NME projects, these projects are mainly executed between the months of October through April, when the energy demand is lowest during the fiscal year, which result on processing most of the invoices' payment the last quarter of each fiscal year. Furthermore, the expenditures for operating and maintaining the generation system do not follow a linear behavior during the fiscal year and, hence, it is not correct to conclude that the utility does not require more funds because at that moment there are apparent "savings" from underspend. For a summary of the expenditures and payment commitments, please see the PREPA's finance 725 Report attached to the March 21 Letter.

b. Likewise, in compliance with the March 25 Order and in order to clarify any misunderstanding the Energy Bureau may have regarding the expenditures and projects implemented during the FY2022 and FY2023, it is important to clarify that no operational and/or necessary maintenance expenditures were modified, cancelled or postponed in order to complete the projects for which FEMA reimbursed PREPA. PREPA implemented its already projected operational and necessary maintenance projects as established in its yearly maintenance programs. The funds reimbursed by FEMA were the result of FEMA allowing for certain costs to be reimbursed given that the repairs done improved the reliability and hardened the electrical system. Accordingly, expenditures that may have not been contemplated as being reimbursable with federal funds were ultimately reimbursed. As a reference, for the Energy Bureau's evaluation of the Modified Amendment Budget Request, annexes E and F include

the NME projects details for FY2023, the Annex G includes the NME projects details for fiscal year 2021-2022 ("FY2022"), and the Annex H includes the NME projects details for fiscal year 2018-2019 ("FY2019"). The latter was included because the Palo Seco mega generators were acquired during the FY2019. In addition, the Annex I shows a summary of the reimbursements received from the projects executed during FY2019 and FY2022.

WHEREFORE, PREPA respectfully requests that the Energy Bureau FIND it in compliance with the March 25 Order and GRANTS APPROVAL of PREPA's Modified Amendment Budget Request including:

- 1. <u>Generation NME and Operational expenditures</u> -\$46.4 million for FY2023, to ensure the stability and continuity of the PREPA's generation assets through necessary maintenance and repair work.
- 2. <u>Genera PR Mobilization Funding</u> \$15 million to pay for Genera PR Mobilization costs as required under the LGA OMA.
- 3. <u>VTP Funding</u> \$29.4 million to fund a VTP program consistent with PREPA's obligations under Act 120-2018, as amended by Act-17-2019.
- 4. <u>Pension Funding</u> \$65 million for FY2023 (May and June), while a long-term solution is coordinated and implemented with the Central Government.

RESPECTFULLY SUBMITTED.

In San Juan, Puerto Rico, this 2nd day of April 2023.

/s Maraliz Vázquez-Marrero Maraliz Vázquez-Marrero TSPR 16,187 mvazquez@diazvaz.law

/s Joannely Marrero-Cruz Joannely Marrero Cruz jmarrero@diazvaz.law TSPR no. 20,014

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CERTIFICATE OF SERVICE

It is hereby certified that, on this same date, I have filed the above motion with the Office of the Clerk of the Energy Bureau using its Electronic Filing System at https://radicacion.energia.pr.gov/login, and a courtesy copy of the filing was sent to LUMA through its legal representatives at margarita.mercado@us.dlapiper.com and laura.rozas@us.dlapiper.com.

In San Juan, Puerto Rico, this 2nd day of April 2023.

<u>/s Joannely Marrero-Cruz</u> Joannely Marrero Cruz

Annex A



March 21, 2023

BY ELECTRONIC MAIL Letters@promesa.gov

Mr. Robert F. Mujica, Jr. Executive Director Financial Oversight and Management Board for Puerto Rico PO Box 192018 San Juan, Puerto Rico 00919-2018

Dear Mr. Mujica:

Re.: Fiscal Year 2022-2023 (FY2023) Budget Amendment Request

The Puerto Rico Electric Power Authority ("PREPA") writes in response to the Financial Oversight and Management Board for Puerto Rico ("Oversight Board" or "FOMB") letter dated March 17, 2023 (the "March 17th Letter") regarding PREPA's request for several necessary amendments to the Fiscal Year 2022-2023 ("FY2023") Budget. The March 17th Letter made reference to:



- The Puerto Rico Thermal Generation Facilities Operation and Maintenance Agreement ("LGA OMA") executed by PREPA, Genera PR LLC ("Genera PR"), and the Puerto Rico Public Private Partnerships Authority ("P3A") on January 24, 2023.
- PREPA's response to the FOMB's letter dated March 9, 2023 (the "FY2023 Budget Timeline Letter"), which required to submit a revised FY2023 Budget for PREPA that allows the payment of two type of expenses related to the transition of the operation and maintenance ("O&M") of the generation system assets to a private operator: (a) up to \$15 million for the Mobilization Service Fee pursuant to Section 4.6 of the LGA OMA and (b) up to \$29.4 million¹ in estimated costs for the implementation of the Voluntary Transition Program ("VTP") of PREPA employees transitioning to Genera PR.

The March 17th Letter states that PREPA did not comply with the FY2023 Budget Timeline Letter, as "[i]nstead of submitting a proposed revised budget, PREPA sent a letter dated March 13, 2023, outlining its thoughts on what should be included in the revised budget ("PREPA's Response Letter"). PREPA's Response Letter exceeded the scope of the FY2023 Budget Timeline Letter

¹ The Oversight Board recognized and acknowledged the new estimated amount for purposes of the budget amendment process, reflecting \$29.4 million rather than \$27.3 million, to account for 7.65% of Social Security and Medicare Taxes.



and set forth several additional proposed amendments". In addition, the March 17th Letter states that the Government of Puerto Rico shall conduct the necessary corrective action of the notice of violation as described in the letter by the Oversight Board. According to the March 17th Letter, the FOMB's notice of violation is related to PREPA's request of a:

- \$60 million increase to its "Operational Expenses, Necessary Maintenance Projects, and Capital Equipment" line item ("O&M Expenses").
- \$150 million increase to fund a payment to PREPA's Employee Retirement System ("PREPA ERS").

In response to the FOMB's letter, PREPA is hereby clarifying that its response letter dated March 13, 2023 ("PREPA March 13th Letter") did not have the intention of violating any law, regulation, or contract disposition, including PROMESA and the LGA OMA, nor to exceed its powers as a governmental entity under the Title III process. Instead, the PREPA March 13th Letter had the main intention of informing and justifying to the Oversight Board, the need for additional funds, including reiterating its request for O&M Expenses made during the second quarter (Q2) of FY2023, in alignment with the FY2023 Budget Timeline Letter. It is particularly noted that PREPA March 13th Letter clearly explained that the requested increase to the O&M Expenses is mainly required for the continuance of repairs and maintenance works on the generation assets before and after Genera PR's commencement date, which is aligned with the FOMB's mandate of amending the budget to allow the transition in compliance with the LGA OMA. Responsibly, PREPA's generation budget shall include the funds that Genera PR will need to continue the repair and maintenance works since its commencement date², which should not be later than the beginning of fiscal year 2023-2024 ("FY2024").

Furthermore, regarding the FOMB's expression stating that PREPA's letter just outlined "its thoughts on what should be included in the revised budget", we want to clarify that PREPA March 13th Letter presented not only the amendments request but also explanations and justification for such request. PREPA's request for O&M Expenses is not merely "thoughts", but the result of an evaluation of the current condition of the generation assets and the needed repairs to increase their availability and dependability, decreasing the risk of huge load shedding events, and to comply with environmental regulations. The proposed projects were identified by professional engineers, authorized to practice the engineering in Puerto Rico, each with more than twenty-five years of experience working with Puerto Rico's power system.

In addition, PREPA disagrees with the FOMB statement:

"Additionally, according to the latest Budget to Actuals report, PREPA has not spent its current O&M budget and it should be further noted that the successor entity, Genera PR LLC, will be taking control of the legacy generation assets in May, limiting the capacity of PREPA to spend any incremental funds given the short time frame."

In response to this statement, PREPA explains that the payment of utility works takes significant time, due mainly to delays in receiving the invoices and the subsequent validation, approval, and disbursement process. Hence, even though finance reports may show low expenditures, it does



² Per the LGA OMA, PREPA is operating under a 100-day transition period with a Target Service Commencement Date of May 4, 2023, for Genera PR to assume the O&M services of PREPA's legacy generation assets.

not necessarily mean that there are savings in the corresponding accounts. In addition to the invoice payment process, there are payment commitments covering current works and others that will be executed before the end of FY2023. Furthermore, in the case of Necessary Maintenance Expense ("NME") projects, these projects are mainly executed between October and April, when the energy demand is lowest during the fiscal year, which result on processing most of the invoices' payment the last quarter of each fiscal year.

As explained before, the expenditures for operating and maintaining the generation system do not follow a linear behavior during the fiscal year and, hence, it is not correct to conclude that the utility does not require more funds because at that moment there are apparent "savings" from underspend. It is also noted that, even though PREPA has not overspent in the O&M Expenses as a whole, there are already overspending in certain budget items. PREPA's budget increases request is focused on these overspent budget items, in addition to those that their expenditures are close to the approved amount. Attached, we include a summary of the expenditures and payment commitments, according to PREPA's finance 725 Report.

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It is further stressed that the current available budget will not allow PREPA to operate and maintain the generation system until Genera PR starts its operations, as expressed by the Oversight Board. As explained before, responsibly, PREPA's generation budget shall include the funds that Genera PR will need to continue the repair and maintenance works since its commencement that should occur not later than July 1, 2023. PREPA reiterates that the current budget is not enough to maintain the continuance of operations without disruption of the energy supply.

Regarding the Oversight Board's request of the necessary corrective action related to the FY2023 Budget amendment, PREPA responds the following:

A. Proposed Revised FY2023 Budget for PREPA

Attached, PREPA includes its proposed revised FY2023 budget and hereby further requests that PREPA's budget be amended to include:

- Up to \$15 million for the Mobilization Service Fee pursuant to Section 4.6 of the LGA OMA.
- 2. Up to approximately \$29.4 million in estimated costs for the implementation of the VTP of PREPA employees transitioning to Genera PR.
- 3. \$46,440,594 increase to its FY2023 O&M Expenses:
 - Operating Budget: \$23,100,000
 - NME Budget: \$23,340,594
 - To continue and achieve completion of the works to be performed with these additional FY2023 NME funds, the O&M Expenses for FY2024 need to include:

Operating Budget: \$28,581,226

NME Budget: \$6,858,176

4. \$200 million increase to fund PREPA ERS:

- FY2023: \$65 million (May and June)
- FY2024: \$135 million (July through October)

The Oversight Board will note that PREPA is including both the FOMB's requested amendments (items 1 and 2) as well as the additional requests in PREPA March 13th Letter (items 3 and 4). PREPA agrees with the need to amend its budget to add the Genera PR Mobilization Service Fee and the VTP expenses, which are an essential part of the generation system O&M transition to the private operator that in turn is one of the phases of PREPA's transformation. However, PREPA reiterates that the additional requested budget increases are also essential to its transformation, as they will allow PREPA to continue operating during the completion of such transformation, especially providing an effective transition of the repairs and maintenance works to Genera PR. PREPA is convinced that its additional requests are aligned with the FOMB's budget amendment request.



PREPA respectfully requests the Oversight Board to carefully evaluate PREPA's additional requests, in light of its transformation path as envisioned in PREPA's Fiscal Plan, all its efforts to gather additional revenues from federal funds, which are the base to PREPA's request, and the energy supply continuity to customers. In addition, PREPA urges the FOMB to consider that, concurrently with PREPA March 13th Letter, on March 14, 2023, PREPA submitted to the Puerto Rico Energy Bureau ("Energy Bureau" or "PREB") a motion requesting their approval of the proposed FY2023 budget amendment ("March 14th Motion"), which as of the date hereof has not been answered. Hence, the Oversight Board should not consider that the PREB's denial of PREPA's O&M Expenses request in its February 27, 2023's Resolution and Order is final, as PREPA requested its reconsideration in the March 14th Motion. PREPA's and Genera PR's operations depend on the approval of the additional requests, which affect the reliability and continuity of the energy supply to Puerto Rico. These procedural issues should not be at the expense of necessary fiscal decisions for, and execution of, repairs by PREPA. PREPA management is focused on completing its mandate to maintain reliable service within the strained circumstances.

In order to address necessary works included in this request, PREPA proposed, and clarifies again, that it has and will continue to utilize readily available the Federal Emergency Management Agency ("FEMA") reimbursement funds where possible. FEMA reimbursement funds are not available for all types of generation system repair projects. PREPA has received reimbursements from FEMA, which replenish operating funds that were disbursed in prior periods by PREPA to pay for eligible projects. In accordance with PREPA Governing Board resolution relating to the treatment of federal funds, once the reimbursement of a federally funded project is received, those reimbursed amounts are deposited in accounts designated specifically as federal reimbursements ("FEMA Reimbursement Accounts"). As reimbursement funds, these funds are not restricted and may properly be used for operational expense and budgeted projects.

It is also stressed that PREPA March 13th Letter included the following clause, as required by the Oversight Board:

Acknowledgment Regarding Use of Unused Funds

PREPA hereby affirms that to the extent any of the requested additional funding is not utilized, any remaining funds will be promptly transferred back to PREPA's operational account.

With this clause, PREPA committed to transfer back to its operational accounts, any unused funding requested in the March 13th Letter. Therefore, PREPA hereby reiterates its commitment to transfer back to its operational accounts, any unused funding requested in this letter.

PREPA hereby responds and seeks to further clarify the nature, basis and urgency of these budget amendment requests – as it continues transition of its generation services to Genera PR and manages its fiduciary responsibilities and obligations towards the thousands of retired and existing PREPA employees. PREPA provides more information and details regarding its additional requests below. It is imperative that the Oversight Board evaluates the importance of PREPA's request, for the wellbeing of the people of Puerto Rico. If these operational needs are not adequately address, PREPA expects an increase of the risk of massive load shedding events like those occurred during the summer of 2021, noncompliance with laws and regulations and the corresponding imposition of fines and penalties, and a disruption in the Genera PR transition process.



B. Operational and Maintenance Expenses

As it relates to PREPA's request for a \$46.4 million amendment in its FY2023 budget, to fund operational and maintenance expenses to comply with its obligations and to repair legacy generation and water facilities, PREPA reiterates that (i) the works underlying this request are urgently needed and critical to ongoing and environmentally compliant operations of Puerto Rico's electrical system, (ii) the ongoing procurement of equipment and repairs to the generation system must continue in sequence before and after Genera PR service commencement, (iii) the administrative and technical support shall not be interrupted for PREPA to comply with its repairs schedule and regulatory and contractual obligations, (iv) the denial of activities included in this request imperils the orderly transition and early months of Genera PR's operation of the generation system, and (v) PREPA has funds on hand available for this budget amendment request.

PREPA further highlights that, as was approved by the FOMB, the FY2023 generation budget was segregated in PREPA's budget and, thus, the FY2023 generation budget in-effect on Genera PR's Service Commencement Date will be the applicable budget for Genera PR to operate the generation system. Hence, the FOMB's limitations on PREPA's generation budget will directly impact Genera PR.

PREPA again specifically highlights below the urgent necessity and criticality of these works, as detailed in PREPA's January 11, 2023 response to the request for information (RFI) made by FOMB on December 27, 2022 ("January 11th RFI Response"), including Exhibit C, and in PREPA March 13th Letter Updated Exhibit E of such January 11th RFI Response and various meetings and conference calls with Oversight Board representatives.

1. Necessary Maintenance Expense Projects (NME)

Included in the \$46,440,594 O&M Expenses request, there is a petition of adding approximately \$23,340,594 to the NME budget for necessary repairs and maintenance projects in the generation system for FY2023. PREPA has provided the Oversight Board with a detailed breakdown of NME projects and spending categories in its January 11th RFI Response. These maintenance activities are not eligible for reimbursement from FEMA and therefore must be funded by PREPA's own funds.

The projects cover necessary maintenance at both baseload and peaking generation facilities that are critical for a safe and reliable electric service at reasonable cost. Repairs at Palo Seco 3, San Juan 7, and Aguirre 1 & 2 aim to keep these older units in working order to avoid the unnecessary and costly dispatch of diesel peaking units during summer months. Requested maintenance projects at Mayagüez, Cambalache, Aguirre Combined Cycle, and the various Frame-5 peaking units aim to keep these peaking units operating and available for dispatch when needed to meet peak demand and in case of forced outages or other emergencies. The lack of executing maintenance works on PREPA's generating units, like the ones requested herein, was the main reason for the huge load shedding events occurred during the summer of 2021, when more than one million of customers were affected, including hospitals and commercial and industrial customers. These outages events affected the safety and economy of the people of Puerto Rico.

We further revised the Updated Exhibit E, submitted with PREPA March 13th Letter, to confirm the expected expenditures of the \$40 million requested in PREPA's letter to the Oversight Board dated December 8, 2023 ("December 8th Letter"). Given that more than three (3) months have passed since the original request in the December 8th Letter, PREPA estimates that not all the works can be executed during the remainder of FY2023, especially considering the waiting time to receive equipment and materials under the current electric industry supply chain conditions. Hence, an adjustment was made and PREPA is hereby proposing an addition of \$23,340,594 in the FY2023 NME budget.

It is stressed that, to complete the works executed with the additional FY2023 funds, it is necessary to provide \$6,858,176 in the FY2024 NME budget. Attached with this letter we include the latest revision of the Exhibit E ("Exhibit E 2nd Review"), showing more information regarding the proposed NME projects, which are expected to amount about \$30,198,770 during current and next fiscal years.

2. Environmental Compliance

In addition to increase the reliability of the generation system and reducing the risk of load shedding events, the additional investment of \$23,340,594 in NME budget is needed to comply with environmental regulations. As explained in PREPA March 13th Letter, approximately \$6 million is required for necessary works to comply with the U.S. Environmental Protection Agency ("EPA") Consent Decree. Of this estimate, it is expected that PREPA will expend approximately \$4.95 million during FY2023 and the remainder \$1.05 million during FY2024.

These works include urgent environmental repairs at San Juan 7, Palo Seco 3, and Costa Sur 5 & 6 for outsourced contract work, equipment rental, and other maintenance expenses. The anticipated maintenance activities include performance and completion of mechanical repairs, refractory rehabilitation and boiler insulation, welding and mechanical repairs to auxiliary equipment and boilers, and boiler cleaning. Funding for this work is absolutely critical for PREPA and Genera PR to execute the planned environmental outages outlined in the latest generation maintenance schedule, which was provided to the Oversight Board in the March 15th Fiscal Plan Reporting submittal.

It is noted that it is an industry practice to execute repairs and other maintenance works during the outage of a unit that must undergo an environmental maintenance. The environmental compliance works are intrinsically related to other maintenance works executed on the unit, as the latter helps to comply with environmental regulations and the environmental maintenance increases the unit's dependability and availability. Hence, when an environmental maintenance work is delayed, not only PREPA is subject to penalties and fines from the EPA, but also experiences an increase of the risk of units' forced outages and consequently of huge load shedding events.

3. Operating Budget

Included in the \$46,440,594 O&M Expenses request, there is a petition of adding approximately \$23,100,000 to the FY2023 Operating Budget (See attached Exhibit E 2nd Review). This increase in budget is needed for administrative and technical support that shall not be interrupted for PREPA to comply with its repairs schedule and regulatory and contractual obligations. Of this increase, about \$19.8 million are needed for the daily execution of corrective and environmental maintenance of the power plants and approximately \$3.3 million are necessary to continue executing tasks related to compliance with the Energy Bureau, the LGA OMA transition completion, and ongoing legal responsibilities.

The increase of \$19.8 million is requested for the Materials & Supplies and Other Miscellaneous Expenses that are essential to implement a better and more effective maintenance program, including preventive and proactive programs. The procurement of materials and labor expenses budgeted within these categories include vibration analysis tests, electrical equipment thermography, and oil samples tests to prevent failure in main rotative equipment. In addition, these categories include replacement parts to reduce failure time in main equipment, purchases to improve the efficiency of the units with the condenser and boiler cleaner, replacement of insulation material and refractory, and improvements to the condition of the boiler structure and major equipment with epoxy material and painting work.

Providing enough budget in the above-mentioned categories, as expressed by PREPA in its letter to the FOMB dated July 1, 2022 ("PREPA July 1st Letter") is essential to improve the availability and dependability of the generation system, as stated in the Fiscal Plan:

"[T]he increasing age and condition of the PREPA generating units is expected to continue to be susceptible to forced outage events that necessitate load shedding, further constraining LUMA's ability to service its customers. The challenges associated



with an unreliable generation fleet are expected to continue until an appropriate, proactive maintenance program is in place and old, inefficient units are replaced in newer resources."

"The underlying root cause for outages in PREPA's legacy generation plants is related to their age and the need for a well-developed and effectively executed (preventive and pro-active) maintenance program."

Maintaining a very constrained budget for Materials & Supplies and Other Miscellaneous Expenses categories will result in a high probability of generation loss situations, which may produce load shedding events, brownouts, and blackouts. Under the current budget conditions (PREPA has already overspent in the Materials & Supplies budget and has spent more than 90% of the Other Miscellaneous Expenses budget), it will be very difficult or impossible to provide a safe and reliable electric service to our customers, especially when an electrical isolated system such as what we have in Puerto Rico decreases in its reliability as the available and dependable generation capacity decreases, with the consequence of putting the lives of the people of Puerto Rico at risk and destabilizing the economy.



Also, it will most likely affect the efficient compliance with the itinerary of the scheduled maintenance and repair program of the PREPA's generation assets, which will increase the risk of having major equipment failure of the units due to exceeding its operational hours. Even though PREPA has completed several repairs of this program during the past year and a half, its thermal generation fleet is still fragile and, unfortunately, was further damaged by Hurricane Fiona in September 2022.

To address the generation fleet condition after Hurricane Fiona, PREPA requested FEMA to provide temporary baseload generation, by means of portable land or water based generating units, that could supply energy to the customers while PREPA, and later the private operator, expeditiously execute its generating fleet repairs and maintenance program. In response, on October 12, 2022, the Federal Government created the Puerto Rico Power System Stabilization Task Force ("Federal Task Force") to conduct assessments, develops plans, and begins executing strategies in order to stabilize the power system of Puerto Rico prior to the 2023 Hurricane Season. As a result of the efforts of the Federal Task Force, PREPA and other stakeholders, the first three (3) portable generators arrived in Puerto Rico last week.

It is stressed that the works budgeted under the Materials & Supplies and Other Miscellaneous Expenses categories, are essential to conduct the repairs and maintenance program that PREPA and Genera PR will execute in compliance with the commitment with the Federal Task Force. Therefore, PREPA urges the Oversight Board to approve the requested increase in the Operating Budget. It is also noted that the works under these categories shall continue the next fiscal year and, therefore, the necessary contracts should be approved before the end of FY2023, so Genera PR is able to continue operating the thermal generation system without disruption. Hence, PREPA estimates that the FY2024 budget shall include approximately \$28,581,226 for these maintenance works. Currently, PREPA representatives have discussions with Genera PR regarding the contracts for performing these works.

Regarding the renewable generation procurement process mandated by the Energy Bureau, PREPA still has significant PREB regulatory requirements for oversight and reporting to fulfill for executed Tranche 1 renewable contracts. PREPA filed motions with PREB most recently on February 28, 2023, to inform on key proponent communications regarding delays which could jeopardize the already delayed Closing Date and on a third LUMA policy change for the PREPA Interconnection Facilities. In addition, PREPA continues dealing with the "Shovel Ready" renewable projects accepted by the Oversight Board, which require performing continuous communications and evaluations with their proponents.

To comply with the regulatory requirements that are part of the renewables' integration processes, PREPA mostly requires the services of the law firms Díaz & Vázquez Law Firm PSC ("D&V") and King & Spalding LLP ("K&S"), especially the latter. The Oversight Board recently approved an increase to the contract with D&V, as its original amount was not enough to continue working the remainder of FY2023. In the case of K&S, currently, PREPA cannot assign more tasks to this law firm as the expenditures has reached almost the maximum amount of PREPA's contract with them. In light of this situation, PREPA is not able to move forward with the completion of its duties in the integration of renewable energy, which are required by the Puerto Rico public energy policy mandated by law.



For the LGA OMA transition completion, PREPA is required to undertake certain actions, like conducting assessments and developing reports to be submitted to different governmental entities and regulators. One of the needed assessments for the Genera PR transition is an environmental site assessment ("ESA") of all PREPA's thermal generating units' locations. PREPA executed a contract with the consultant Sargent and Lundy Puerto Rico LLC ("S&L") for conducting the ESAs. Currently, PREPA needs to add funds to the S&L contract, so the consultant can complete the ESA of the peaking units' sites. Without the ESA of all PREPA's generation thermal fleet, the transition to Genera PR cannot be completed.

Lastly, given that PREPA's Legal Affairs Directorate depends almost completely on private law firms to comply with its duties and responsibilities, it is necessary to add funds to execute works during the remainder of FY2023. Among the PREPA's legal duties and responsibilities, the Legal Affairs Directorate is responsible for regulatory compliance, legislation reviews and opinions, notary services, litigation, claims, legislature hearings, court hearings, reporting to governmental agencies, and contracts evaluation. These ongoing activities are required from PREPA and, if unfunded, will cease to continue exposing PREPA to fines and penalties, that will increase the cost of service to the customers.

4. Support for the Genera PR Transition

Lastly, PREPA requests this FY2023 budget amendment from the Oversight Board in accordance PREPA's transformation obligations and, specifically, its obligations under the LGA OMA. PREPA cannot stress enough the importance of maintaining the continuity and reliability of PREPA's generation fleet in the wake of a transition to a private operator. Failing to approve this request for an amended generation budget will inevitably cause further delays to contracting timelines and limit access to necessary materials and labor,

which could result in load shedding events and blackouts because of insufficient generation. PREPA's request extends beyond the scope of traditional, twelve-month thinking, in a business and utility setting that requires multi-year funding streams and budgets to ensure that there is no interruption in the supply chain. PREPA cautions that any short-term solution by the Oversight Board as it relates to the FY2023 budget will only impair the long-term wellbeing of the Puerto Rico electrical system.

As explained before, the Genera PR transition requires all the budget amendments requested by PREPA herein. Among others, the mobilization fee and the VTP are needed to conduct Genera PR's actions to recruit the specialized employees that the operator will need to comply with its duties according to the LGA OMA. It is noted that the condition of the PREPA ERS is an important factor that many current generation employees will consider when deciding on accepting a job offer from Genera PR. This, considering that many of these employees will need to receive back their contributions to PREPA ERS when resigning to PREPA and start working with Genera PR. Hence, to the extent that the PREPA ERS is stable, it is more probable that PREPA's employees will accept a job offer from Genera PR.



In addition, to start operations of the generation system, Genera PR needs to receive an operational and in service generation fleet, which greatly depends upon the execution of projects under the NME budget and works under the Operating Budget.

C. Pension Funding

In its March 17th Letter, the Oversight Board modifies PREPA's proposed amendment for pension funding in the amount of \$150 million to only include "interim pension funding needed to ensure pension payments for the remainder of FY2023." PREPA would like to highlight that its original pension funding request in the amount of \$150 million is intended to address projected funding for approximately 6 months, after years' long underfunding directed by the Oversight Board who never incorporated the full need of projected employer contributions, to benefit other priorities put ahead of PREPA's retired and active members.

Additionally, the request for pension funding is projected to last only through October, and is urgently needed to: (i) reserve such funding in the face of the many funding priorities that continue to accrue to PREPA (including those related to T&D service accounts, outage reserve accounts, Genera PR Mobilization fees, Voluntary Transition Program, etc.) and (ii) take advantage of the readily available funds to address this high priority for PREPA, the Puerto Rico Fiscal Agency and Financial Advisory Authority ("AAFAF", for its Spanish acronym), and the Government of Puerto Rico, understanding PREPA's variable and often volatile cash flow and liquidity. Retirees and current employees are increasingly concerned and distressed knowing that the PREPA ERS is dramatically underfunded. In a memorandum dated February 14, 2023, the President of the ERS Board of Trustees stated that the pension system, "will not be able to pay retirement benefits from April 2023 and thereafter". PREPA's objective is to secure those funds while the Oversight Board continues its mediation efforts, and a final and long-term solution is completed. It is the strong and unequivocal position of PREPA management, AAFAF and the Governor that pensioners' rights and funding needs are the single highest priority - spare nothing else.

In response to the March 17th Letter, PREPA revised the PREPA ERS cash needs report dated March 10, 2023. As part of this revision, PREPA came to know that PREPA ERS representatives provided more clarification regarding these estimates to AAFAF representatives during a recent meeting. In general, PREPA ERS informed that there is high uncertainty regarding the system liquidity, mainly based on factors like the number of retirees and mortgage payments from loans, among others. Therefore, and considering this high uncertainty, PREPA updated its pension funding estimate from \$150 million to \$200 million, \$65 million for FY2023 (May and June) and \$135 million for FY2024 (July through October). PREPA believes this is the minimal amount necessary to avoid a disruption in payments to PREPA retirees and employees.

PREPA appeals to the Oversight Board to act on PREPA ERS current situation, approving the requested funding for the remainder of the current fiscal year, FY2023. PREPA further urges the Oversight Board to commit to further addressing this issue in connection with the FY2024 budget approving the requested funding until October 2023, which will help all stakeholders to negotiate and implement a long-term solution. Our highest priority must be ensuring continued commitment to fund such benefits.



Lastly, PREPA appeals to the Oversight Board to assign the same importance to PREPA's additional requests that it assigns to transactions impacting the private operators, like Genera PR at the moment and previously with LUMA Energy LLC ("LUMA"). PREPA believes that addressing current repairs and maintenance works, regulatory and technical support, and pension funding needs is as important as providing funds to the private operators.

For example, on December 15, 2022, PREPA was required to transfer \$87,974,000 from the FEMA Reimbursement Accounts to the operating accounts to replenish LUMA's service accounts to cover some LUMA's deficit. According to our knowledge of this situation, LUMA was not required to provide any explanation or justification for the deficit, nor from P3A or FOMB. PREPA has come to know that most of LUMA's reports show overspending in several budget items and underspending in others, but no explanations or justifications have been required from the private operator.

Given that the private operators budget is determined with the same revenues on which are based for PREPA's budget, one can expect that the budget amendment procedures to be equal for all the parties. However, it has been our experience that PREPA is required to provide explanations and justifications that are not required from LUMA. Therefore, PREPA respectfully requests the Oversight Board to explain the differences in the budget approval processes that apply to PREPA and LUMA and why such differences exist. It is PREPA's opinion that these procedures should be clarified before the commencement of Genera PR as the private operator of the thermal generation system.

Regarding budget amendment procedures, yesterday, the Energy Bureau issued a Resolution and Order related to Case No. NEPR-MI-2021-0004, Review of LUMA's Initial Budgets, which imposed a fine of \$25,000 because, among others, LUMA did not seek the PREB's review of a budget amendment before the expense is incurred. Attached we include copy of the Order. The Energy Bureau stated in this Order that LUMA and PREPA are under the PREB's regulatory powers that include budget monitoring and management.

These statements clearly show that both LUMA and PREPA shall request the approval of budget amendments from the Energy Bureau, before modifying the budget. Therefore, PREPA submitted its March 14th Motion requesting PREB's approval of its proposed FY2023 budget amendment and will promptly submit a clarification to that motion informing the changes in the budget amendment requested herein.

Finally, PREPA reiterates that it is working for the benefit of the people of Puerto Rico, the thousands of retired and current employees, committed to move forward in its path through the energy sector transformation, and trusts that the Oversight Board does so collaboratively and with the support requested. Hereby, PREPA presents ample explanations and justification for its requests, much of which have been extensively discussed with FOMB's representatives, in addition to provide the solution to provide the needed funds covering the expenses of such requests.

PREPA's current management has proven being effective using its approved budget, completing operational and permanent works, and gathering federal funds reimbursements from those works. Furthermore, PREPA is committed to spend only what is needed to comply with its obligations, including the transition to Genera PR, and transferring back any unused fund.

PREPA's budget amendment request is based on (i) urgently needed operational necessities, (ii) transition of O&M services to Genera PR, (iii) the obligations with our pensioners, and (iv) the knowledge about our generation and related power systems, that only PREPA management can ascertain and discern with the required knowledge and operational experience that serves the general public. Any other budgeting approach is fragmented, based on incomplete knowledge and information and seemingly convenient to drive objectives that are not aligned with the operational, transitional, and pension objectives itemized above.

PREPA reiterates its availability to meet with the representatives of the Oversight Board and provide any clarification to this request that helps the FOMB to understand its importance.

Cordially,

Josue A. Colón-Ortiz

Executive Director

Annexes

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		ne 29, 2022		ch 21, 2023	Bude	et Varianc
		AB Certified		PA Revised	i Buug	(\$)
	FY2	023 Budget	FY2	023 Budget	<u> </u>	(4)
Revenues					<u> </u>	
Basic Revenues	\$	1,169,899	\$	1,169,899	\$	-
Fuel & Purchase Power		3,441,415		3,441,415	ļ	-
CILT		112,950		112,950	i	-
Subsidies		240,132		240,132		-
Total Gross Revenues	\$	4,964,396	\$	4,964,396	ļ \$	-
Other Income		37,358		37,358		-
Total Consolidated Revenue	\$	5,001,754	\$	5,001,754	\$	
Bad Debt Expense	•	(74,466)	•	(74,466)	i Ť	_
CILT & Subsidies		(353,082)		(353,082)	1	_
Total Consolidated Revenue	\$	4,574,206	\$	4,574,206	\$	-
	Ť	4,574,200	<u> </u>	4,574,200	Ť	
xpenses						
A. Fuel & Purchased Power					1	
Fuel	\$	2,889,990	\$	2,889,990	\$	-
Purchased Power - Conventional		472,207		472,207		-
Purchased Power - Renewable		79,217		79,217	i	-
Total Fuel & Purchased Power	\$	3,441,414	\$	3,441,414	\$	
	_ <u></u>	-,,	_	3,112,121	! 	
3. GenCo - Operations & Maintenance Expenses					1	
<u>Labor</u>						
Salaries & Wages	\$	45,511	\$	45,511	\$	-
Pension & Benefits		28,904		28,904	i	-
Overtime Pay		11,733		11,733	!	-
Overtime Benefits		1,395		1,395	i	-
Total GenCo Labor Operating Expenses	\$	87,543	\$	87,543	\$	-
Non-Labor / Other Operating			-	,	1	
Materials & Supplies	\$	19,795	\$	29,795	: \$	10,00
	Þ		د		! ,	10,00
Transportation, Per Diem, and Mileage		1,527		1,527	i	-
Security		9,043		9,043	1	-
Utilities & Rents		3,623		3,623	ļ .	-
Legal Services		7,405		7,405	i	-
Professional & Technical Outsourced Services		2,392		2,392	:	-
Regulation & Environmental Inspection		7,945		7,945	İ	-
Other Miscellaneous Expenses		7,565		17,365	!	9,80
Total GenCo Non-Labor / Other Operating Expenses	\$	59,295	\$	79,095	\$	19,80
Shared Services Agreement Impact		59,748		59,748	i	-
Total GenCo Operating Expenses	\$	206,586	\$	226,386	\$	19,80
Maintenance					İ	
Generation	\$	99,039	Ś	122,380	\$	23,34
Total GenCo Maintenance Projects Expense	\$	99,039	\$	122,380	\$	23,34
Federal Funding Cost Share	,	33,033	ð	122,380	i	23,34
_	_				i —	
Total GenCo Operating & Maintenance Expenses	\$	305,625	\$	348,766	<u>\$</u>	43,14
C. HoldCo - Operations Expenses					i	
Labor					:	
Salaries & Wages	\$	7,513	\$	7,513	\$	_
Pension & Benefits	,	4,508	*	4,508	, ,	_
Overtime Pay		439		439	ļ	
Overtime Pay Overtime Benefits					i	_
	_	53	,	53	_	
Total HoldCo Labor Operating Expenses	\$	12,513	\$	12,513	\$	-
Non-Labor / Other Operating Expenses					i	
Materials & Supplies	\$	288	\$	288	\$	-
Transportation, Per Diem, and Mileage		242		242	i	-
Retiree Medical Benefits		9,000		9,000	!	-
IT Service Agreements		850		850	ļ.	-
Utilities & Rents		36		36	i	-
Communications Expenses		81		81		-
Professional & Technical Outsourced Services		4,144		4,144	l	-
Other Miscellaneous Expenses		1,825		1,825	:	-
PREPA Restructuring & Title III		25,100		28,400	ļ	3,30
FOMB Advisor Costs allocated to PREPA		24,400		24,400	i	3,30
Total HoldCo Non-Labor / Other Operating Expenses	\$	65,966	\$	69,266	\$	3,30
Total HoldCo Operating Expenses	\$	78,479	\$	81,779	\$	3,30
D. GridCo - Operating and Maintenance Expenses						
GridCo Labor Operating Expenses	\$	246,471	\$	246,471	l \$	-
GridCo Non-Labor / Other Operating Expenses		289,926		289,926		_
Operator Service Fees		121,785		121,785	!	-
2% Reserve		10,728		10,728	i	-
Maintenance Projects Expenses		79,778		79,778	į	_
Total GridCo Operating & Maintenance Expenses	\$	748,688	\$	748,688	\$	-
Fr Expenses	<u> </u>	0,000		,,,,,	i	
Fotal Operating & Maintenance Expenses	\$	4,574,206	\$	4,620,647	\$	46,44
	Ą	7,374,200	Υ	7,020,047	,	40,44
. Other						
Capital Expenditures	\$	-	\$		\$	
O&M Agreement Mobilization Fee		-		15,000		15,00
Voluntary Transition Program		-		29,400		29,40
Emergency Employer Pension Contribution		-		65,000	!	65,00
Commonwealth Equity Contribution		-		-	i	-
Total Other	\$	-	\$	109,400	\$	109,40
			7			
Total Other	<u>+</u>					

1. Pursuant to the O&M Agreement between PREPA and Genera PR LLC (the "OMA"), PREPA deposited \$15 million of PREPA cash

1. Pulsant Onlie Own Agreement Veween Pulsant and General Pulsant Could own Agreement Service Fee.

2. PREPA is required by the FOMB to fund a Voluntary Transition Program that is estimated at \$29.4 million, which is to be funded with PREPA operating cash on hand.

Indeed with PREPA operating dash of in and.

3. PREPA requests a \$464. million budget amendment for critical operational and maintenance expenses to repair legacy generation and water facilities, and to fulfill regulatory and environmental compliance requirements, that can be funded by readily available cash on hand from FEMA reimbursement funds.

Lastly, PREFA requests a 560 million amendment for emergency employer pension contributions to address urgent liquidity needs for ongoing benefit payments to retirees during FY2023, to be funded with PREPA operating cash on hand.

FY2024 PREPA Proposed Budget for Emergency Employer Pension Contribution \$ in thousand

	PREP.	h 21, 2023 A Proposed 24 Budget
Emergency Employer Pension Contribution	\$	135,000

Notes:

PREPA requests advance approval for \$135 million of ongoing emergency employer pension contributions to address urgent liquidity needs anticipated for FY2024 through October, to be funded by anticipated operating cash replenishment from FEMA reimbursements.

Data Analysis According with the Report Summary of Operating Expenses by Responsibility and Kind of Expense - 725 Report - Period February 2023 - Date of Report March 14, 2023

PREPA	BUDGET	YTD-FEBRUARY	UNDER/OVER BUDGET Need for Closing the FY	Need for Closing the FY
SALARIES PAYROLL	98,286,391.80	60,345,805.36	37,940,586.44	37,940,586.44 The forestast are over budget about 7.6 Millions dollars for wages
WAGES	1,503,923.04	1,030,866.99	473,056.05	
MATERIALS AND SUPPLIES	20,083,892.04	19,908,745.79	175,146.25	PREPA are under budget to have a new obligations
SECURITY SERVICES	9,043,008.00	3,979,481.34	5,063,526.66	
TRANSPORTATION - AUTHORITY	1,373,910.60	(300,697.97)	1,674,608.57	
PERDIEM, TRAVELING EXPENSES	250,022.88	1,806,255.22	(1,556,232.34)	1,556,232.34) PREPA are under budget to have a new obligations
MILLEAGE AND STANBY ALLOWANCE	145,122.24	479,310.93	(334,188.69)	(334,188.69) PREPA are under budget to have a new obligations
GENERAL MISCELLANEOUS EXPENSES	136,956,984.00	101,683,663.74	35,273,320.26	PREPA are under budget to have a new obligations
MISCELLANEOUS EXPENSES	19,668,154.44	15,249,411.25	4,418,743.19	PREPA are under budget to have a new obligations
TOTAL	287,311,409.04	204,182,842.65	83,128,566.39	
Budget By Month/Average By Month/Under Budget by Month	23,942,617.42	25,522,855.33	(1,580,237.91)	
Forestast at June 2023			102,091,421.33	
Diference Between Forescast and Over Budget			(18,962,854.94)	

GENERATION		BUDGET	YTD-FEBRUARY	UNDER/OVER BUDGET	UNDER/OVER BUDGET Need for Closing the FY
SALARIES PAYROLL		79,241,782.92	50,640,195.15	28,601,587.77	The forestast are over budget about 3 Millions dollars for Salary.
WAGES		1,441,689.00	998,475.84	443,213.16	443,213.16 The forestast are under budget about \$499 thousand of dollars for wages.
MATERIALS AND SUPPLIES		19,795,472.16	19,738,797.28	56,674.88	Generation are under budget to have a new obligations
TRANSPORTATION - AUTHORITY		1,226,661.72	(300,823.47)	1,527,485.19	
PERDIEM, TRAVELING EXPENSES		190,764.60	1,778,813.73	(1,588,049.13)	Generation are under budget to have a new obligations
MILLEAGE AND STANBY ALLOWANCE		109,590.12	450,116.63	(340,526.51)	(340,526.51) Generation are under budget to have a new obligations
MISCELLANEOUS EXPENSES		13,581,226.32	12,848,671.73	732,554.59	Generation are under budget to have a new obligations
	TOTAL	115,587,186.84	86,154,246.89	29,432,939.95	
ОЭТОН		BUDGET	YTD-FEBRUARY	UNDER/OVER BUDGET	UNDER/OVER BUDGET Need for Closing the FY
SALARIES PAYROLL		19,044,608.88	9,705,004.32	9,339,604.56	9,339,604.56 The forestast are over budget about 4.6 Millions dollars for wages
WAGES		62,234.04	32,997.04	29,237.00	
MATERIALS AND SUPPLIES		288,419.88	169,948.51	118,471.37	
TRANSPORTATION - AUTHORITY		147,248.88	125.50	147,123.38	
PERDIEM, TRAVELING EXPENSES		59,258.28	27,441.49	31,816.79	
MILLEAGE AND STANBY ALLOWANCE		35,532.12	29,194.30	6,337.82	
GENERAL MISCELLANEOUS EXPENSES		0.00	223,568.26	(223,568.26)	
MISCELLANEOUS EXPENSES		6,086,928.12	2,400,739.52	3,686,188.60	PREPA are under budget to have a new obligations
	TOTAL	25,724,230.20	12,589,018.94	13,135,211.26	
CORPORATE		BUDGET	YTD-FEBRUARY	UNDER/OVER BUDGET	UNDER/OVER BUDGET Need for Closing the FY
SECURITY SERVICES		9,043,008.00	3,979,481.34	5,063,526.66	Corporate Account are under budget to have a new obligations
GENERAL MISCELLANEOUS EXPENSES		136,956,984.00	101,460,095.48	35,496,888.52	Corporate Account are under budget to have a new obligations
	TOTAL	145,999,992.00	105,439,576.82	40,560,415.18	

Incremental Operation and Maintenance Budget

Exhibit E - Second Review

Description	Justification -	Additional Need	Need FY 22-23	23 FY 23-24	4 Budget
Legal & Professional Advisors	King and Spalding (\$2.5 million for completed the Tranches 1), Sargent & Lundy (\$300 thousand for update of the ESAs of the Authority's plants include the peak units in Vega Baja, Jobos, Daguao, Yabucoa, Vieques and Culebra) Other Legar Advisor (\$500 thousand)	٠	\$ 000'008'8	3,300,000	Нојасо
Aditional Materials and Supplies Gen	Materials, equipment not capitalized and supply chain used for operations and maintenance that included the day-to-day prevent preventative corrective maintenance and environmental maintenance. The budget for this line was \$19,795,472, at February the expenses are of \$19,908,745,79.	\$	10,000,000 \$	10,000,000	GenCo
	Costs of labor used for operations and maintenance, that include day-to-day preventative, corrective maintenance and environmental maintenance. For example Non-stamping mechanical work R, Boiler cleaning, refractory rehabilitation and boiler insulation, scaffolding rental, welding and mechanical work of auxiliary equipment and boilers. In addition the service of the technical Advisor, that was the experts in a specific field of knowledge, offering information and advice to those in the field. And for complete the ongoing project we need the service of Design and Engineering and Project management. The budget for this line was \$13,581,226, at February the expenses are of				
Additional Third Party Service for Division Expenses	\$12,848,671.	\$ 3	38,381,226 \$	9,800,000 \$ 28,581,226 GenCo	,581,226 GenCo
Total		\$	51,681,226 \$	23,100,000 \$ 28,581,226	,,581,226

710,000 743,176 1,050,000 2,150,000 Exhibit E - Second Review FY 23-24 450,000 450,000 8,000,000 1,500,000 1,500,000 1,500,000 795,594 3,000,000 2,000,000 FY 22-23 743,176 3,000,000 8,000,000 1,500,000 795,594 2,600,000 1,500,000 1,500,000 2,000,000 2,210,000 Aguirre unit 1 suffered a catastrophic damage in the turbogenerator on August 2022. after a huge effort Unit is scheduled to return by April 30 2023. There are several pending repairs in the air and gases ducts from 8 percent to 20 percent. The costs of these departures have also been increased by the worldwide replace several other pressure parts in the boiler and the procurement process should start in this fiscal a high fouling condition of the furnace. The environmental outage can not be delayed and the unit shall environmental outage . Actually the unit experience combustion problems and opacity issues since the igh load and hurricane season. That means the loss of 450 MW for the peak load and hurricane season Due to the lack of maintenance and delayed maintenance (bankruptcy, hurricanes and remote events) be retired from service anyway. This unit represent 410 MW of a base load unit that wont be available The unit shall be retired from service on April 7, 2023 (after the return of Ecoelectrica) to perform an The unit shall be retired from service on May 1, 2023 (after the return of Costa Sur 6) to perform both and the Air preheater baskets shall be replaced since they are highly corroded. in the other hand, the along with air preheaters repairs. If the repairs are not done the unit will remain out of service in the an environmental and prrammed outage. As it happened in Costa Sur 6,, the furnace is highly fouled burners air and combustion assemblies since high deterioration was found in the last outage and the to identify the spare parts and to refurbish the generator, the unit is scheduled to return by April 30 2023. this unit represents 450 MW loss for the high load and hurricane season. of most of the generation fleet the percentage of forced departures has increased in the last 8 years replacements. Thus, 100mw will be lost in the load peak season. In the other hand it is necessary to induction event. There repairs wall finish by August 2023 just in the beginning of the peak load and hurricane season. This unit represent a load of 410 MW and actually is limited to only 210 MW. It is necessary to replace the frontal water wall of the boiler since it is damaged due to overheating. These funds are needed to meet the need for replacement of engines, pumps, induced fans, forced The unit, which is actually limited to 350 MW (from 450 MW) require the replacement of the boiler process should start in this fiscal year to avoid delay in the materials since, as it is happening in the turbine shall be replaced since the actual one is running with high vibrations since a turbine water replacement parts were not available. Thus, to avoid a force outage of this unit, the procurement The unit is actually under and environmental outage and it cant return to service without these year to avoid delay in the materials since, as it is happening in the whole industry, the material incremental costs of inflation and others. accidental damage to transportation and delivery whole industry, the material acquisition lead time is extensive (6 to 12 months) for the pak load season if the environmental task are not performed. acquisition lead time is extensive (6 to 12 months). This unit is the Blackstart of Costa Sur Power Plant fans, bearings, seals and valves among others. situation of availability of spare parts. Boiler Improvement U-2 - Aguirre Steam Plant 3oiler Improvement U-1 - Aguirre Steam Plant Environmental and programed outage Turbo Generator Improvement Unit 1 Boiler Pressure Parts - Environmental oost of living increase - Blanket Forced Outage - Blanket Bearing 2 Improvement Auxiliary Equipment Environmental Incremental NME Costa Sur 1-1 Costa Sur 5 Palo Seco 3 San Juan 7 Costa Sur 6 All Units All Units Aguirre Aguirre Aguirre

Unit	Description	Justification Project Cost Additiona	Additional Need FY	FY 22-23 F	FY 23-24
Aguire Cycle Combined	Unit 1 - 2 - Generator Rotor Rewind	Force outage, During the month of December this unit had a force outage by field ground. After testing, it was determined that the generator rotor is grounded. The cost of rewinding this rotor is approximately \$1,600,000. This includes removal work with a crane of 240 tons capacity, transportation to the United States and return to Puerto Ricco of the equipment, ring inspection, rotor rewinding, high speed ablancing and electrical tests as main works. When these work is carried out, \$0 MW are returned to service to the country's electrical system. This represents a capacity for over 10,000 residential customers and gives us the opportunity to continue with the maintenance program of other units.	1,600,000	1,600,000	
Aguirre Cycle Combined	Unit 1 - 4 - Generator Rotor Rewind	During the month of December this unit as well as unit 1.2 had a forced outage by field ground. After testing, it was determined that the generator rotor is grounded. The cost of rewinding this rotor is approximately 51,600.00. This includes removal work with a crane of 240 tons repactly, transportation to the United States and return to Deutro Ricco of the equipment, ring inspection, rotor rewinding, high speed balancing and electrical tests as main works. When these work is carried out, 50 MW are returned to service to the country's electrical system. This represents a capacity for over 10,000 residential customers and gives us the opportunity to continue with the maintenance program of other units.	1,600,000	1,600,000	
Hydrogas	Spare Generator Breakers for Frame 5000 Hitachi Gas Turbines	Generator breaker replacement for some of the 15 Hitachi Frame S000 drives	750,000	225,000	525,000
		To reduce the repair time of the Gas units it is recommended to have a backup turbocharger that works on the 15 Frame 5000 units. This turbocharger will give reliability and reduces the time of outage forced			
Hydrogas	Procurement of Turbo-Compressor for Frame 5000 Gas Turbines	of the units.	1,550,000	465,000	1,085,000
Hydrogas	Procurement of Speed Reduction Gear for Frame 5000 Gas Turbines	Necessary supply chain to reduce the time of outforce of the units	330,000	000'66	231,000
Hydrogas	Exhaust Plenums for Frame 5000 Gas Turbines	Necessary supply chain to reduce the time of outforce of the units	130,000	39,000	91,000
Hydrogas	Inlet Duct & Silencer Frame 5000 Gas Turbines	Necessary supply chain to reduce the time of outforce of the units	280,000	84,000	196,000
Hydrogas	Exhaust Gas Diffusion (Deflector) for Frame 5000 Gas Turbines	Necessary supply chain to reduce the time of outforce of the units	110,000	33,000	77,000
	Total		30,198,770	23,340,594	6,858,176

GOVERNMENT OF PUERTO RICO PUERTO RICO PUBLIC SERVICE REGULATORY BOARD PUERTO RICO ENERGY BUREAU

IN RE: REVIEW OF LUMA'S INITIAL BUDGETS

CASE NO.: NEPR-MI-2021-0004

SUBJECT: Resolution and Order regarding *Motion in Compliance with Order to Show Cause and Request for Reconsideration*, filed by LUMA Energy, LLC and LUMA Energy ServCo, LLC.

RESOLUTION AND ORDER

On November 2, 2022, LUMA¹ filed before the Energy Bureau of the Puerto Rico Public Service Regulatory Board ("Energy Bureau") a document titled *Motion Submitting Fiscal Year 2022 Budget Amendment* ("Third Amendment Request"). Through the Third Amendment Request, LUMA requested that the Fiscal Year 2022 ("FY22") Budget be amended to reallocate a \$21 million surplus in LUMA's Operating Budget to its Non-Federally Funded Capital Budget line items. LUMA stated that said modification was a result of LUMA's cost saving measures and year-end closing adjustments and financial reviews. LUMA asserted that as a result of these cost savings in operational expenditures, it was able to increase overall spending on non-federally funded capital and advance work on several Improvement Programs. LUMA further indicated that the activities in its Second Amendment Request remain unchanged. Finally, LUMA stressed that the proposed modification did not result in increased customer base rates or in an increase to LUMA's aggregate expenditures.

On November 11, 2022, the Energy Bureau issued a Resolution and Order whereby it denied LUMA's Third Amendment Request ("November 11 Resolution").

On November 23, 2022, LUMA filed before the Energy Bureau a document titled *Motion for Reconsideration of Resolution and Order of November 11, 2022 on LUMA's Fiscal Year 2022 Budget Amendment* ("Reconsideration Request"), through which it requested reconsideration of the November 11 Resolution and approval of the Third Amendment Request, seeking to reallocate \$21 million from the approved Operating Budget for FY22 to the Non-Federally Funded Capital Budget.

Upon review of LUMA's Reconsideration Request, on December 14, 2022 ("December 14 Resolution"), the Energy Bureau highlighted that the OMA² clearly sets forth the requirement that the need for a budget amendment be recognized during the Contract Year and that LUMA promptly notify and submit the proposed amendment to the Energy Bureau for review and approval. Accordingly, the Energy Bureau referenced that in a Resolution and Order issued on August 3, 2022 ("August 3 Resolution") pertaining LUMA's Second Amendment Request, the Energy Bureau stated that the expectation under the OMA is that LUMA shall notify the Energy Bureau, promptly, upon becoming aware that the T&D Pass Through expenditures are expected to exceed the budget for that Contact Year.

As such, the Energy Bureau determined that LUMA's Third Amendment Request simply misconstrues Section 7.3(e) of the OMA. The Energy Bureau clarified that the budget amendment procedure established therein does not provide for modifications of the approved budgets after expenses have been incurred. Rather, it provides a mechanism for the Energy Bureau (and P3A,³ as the case may be) to review and approve **necessary** budget modifications **in advance**. The Energy Bureau emphasized that LUMA cannot spend money contrary to the approved budget, and then obtain a retroactive modification, which would











LUMA Energy LLC ("Management") and LUMA Energy ServCo, LLC ("ServCo"), jointly referred to as "LUMA"

² Puerto Rico Transmission and Distribution System Operations and Maintenance Agreement ("OMA"

³ Puerto Rico Public-Private Partnerships Authority ("P3 Authority").

otherwise seem to suggest that LUMA fully complied with the applicable budget limitations. The Energy Bureau also highlighted that budget amendment requests must be received in a timely manner, when expenditures are expected to exceed the approved budget and, in all cases, **before the expense is incurred**.

In its December 14 Resolution, the Energy Bureau concluded that LUMA's allegation that it could only identify the need to request a budget amendment upon conclusion of year-end spending activities had no merit. The Energy Bureau further clarified that LUMA must not view the end of the year financials as enabling funds to be allocated without adequate forethought after being expended and that amendment requests can be reasonably based on projections and/or estimates.

Consequently, the Energy Bureau denied LUMA's Reconsideration Request and ordered LUMA to show cause within ten (10) business days as to why LUMA should not be fined the maximum allowed fine of twenty-five thousand dollars (\$25,000.00) per day for: (i) exceeding the expenses of the Non-Federally Funded Capital Budget for approved FY22 Budget in an amount of \$21 million, without first obtaining the Energy Bureau's approval, and (ii) failing to comply with a Resolution and Order issued by the Energy Bureau on August 3 Resolution pertaining LUMA's Second Amendment Request, which establishes that: (a) the window for justifications of budget modifications based on lack of actual information was closed and that unexpected, delayed, or complex work cannot be a generic excuse for delayed work, and (b) any future reallocation or redistribution of funds amongst budget programs or line items shall be timely anticipated and the corresponding budget amendment timely requested before the Energy Bureau.

On January 3, 2023, LUMA filed before the Energy Bureau a document titled *Motion in Compliance with Order to Show Cause and Request for Reconsideration* ("January 3 Motion"). Through the January 3 Motion, LUMA argued that the imposition of a fine and the denial of the Third Amendment Request based on regulatory rules and limitations adopted in the August 3 and December 14 Resolutions would be an arbitrary and capricious determination that penalizes LUMA for actions undertaken at a time when the Energy Bureau had not adopted rules or limitations on the timing, circumstances, and justifications for LUMA to move for an amendment of an approved budget.⁴ LUMA further asserted that a sanction would be an undue retroactive punishment to LUMA that infringes LUMA's due process right to prior notice of applicable regulatory requirements and rules.⁵

LUMA maintained that in a Resolution and Order issued on May 31, 2021, through which LUMA's Initial Budgets for FY22 were approved, the Energy Bureau did not include the requirements for filing requests to amend the FY22 Budgets, nor the directives that LUMA shall anticipate the need to amend the FY22 Budgets or to reallocate funds.⁶

LUMA argued that the August 3 Resolution cannot apply retroactively to spending and budgetary actions by LUMA during FY22 which ended on July 31, 2022. According to LUMA, the August 3 Resolution announced and established new interpretative rules regarding the timing and circumstances in which LUMA should request, and may obtain, and amendment to an approved annual budget. LUMA further stated it did not have timely, fair, or reasonable notice of the rules and requirements that the Energy Bureau announced in the August 3 Order; thus, there was no basis that could warrant the imposition of a fine.









⁴ January 3 Motion, pp. 2 - 4.

⁵ *Id.*, pp. 3 – 4.

⁶ *Id.*, p. 6.

⁷ Id., p. 13.

⁸ *Id*.

⁹ *Id*.

In its January 3 Motion, LUMA relied on numerous cases which, as correctly summarized by LUMA, hold that, generally, the law disfavors retroactivity, and courts should not give administrative rules retroactive effect in the absence of an express statutory grant of retroactive rulemaking power by Congress. Said general ban on retroactive rulemaking applies with the same force whether the agency issues a legislative rule pursuant to a specific statutory directive or an interpretative rule construing the meaning of authorizing legislation. 11

The Energy Bureau is well aware that the law disfavors retroactive rulemaking and that said ban applies with the same force whether an agency issues a legislative rule or an interpretative rule. Nevertheless, such principle is not applicable under the factual situation in the instant case.

In its August 3 and December 14 Resolutions the Energy Bureau did not interpret its regulations or otherwise engage in rulemaking actions but rather it reinforced a requirement established in Section 7.3(e) of the OMA pertaining budget amendment. Specifically, Section 7.3(e) clearly sets forth the requirement that the need for a budget amendment be recognized during the Contract Year and that LUMA promptly notify and submit the proposed amendment to the Energy Bureau for review and approval.

Therefore, the Energy Bureau finds no merit to LUMA's argument that due process bars application of the requirements set by the Energy Bureau in the August 3 and December 14 Resolutions. Simply put, the Energy Bureau has not exercised its rulemaking or interpretative rulemaking authority. Thus, the imposition of a fine in connection with the November Budget Amendment cannot be construed as an undue retroactive punishment.

Moreover, the Energy Bureau **CLARIFIES** that it can rely upon the OMA's terms and conditions for, amongst other things, the process LUMA is required to follow with regard to budget amendments, without having to specifically restate them in its orders.

Reliance by the Energy Bureau upon the provisions of the OMA, is further supported by the Energy Bureau's issuance of a Certificate of Energy Compliance in accordance with Act 120-2018¹² and Act 29-2009¹³ in determining that the OMA, pursuant to which the private operator would provide services, complies with the Puerto Rico Energy Public Policy and regulatory framework.¹⁴ In addition, the Energy Bureau recognized in its Resolution Regarding Request for Certification as an Energy Provider,¹⁵ "LUMA was contracted to provide Operations and Maintenance services for Puerto Rico Electric Power Authority's ("PREPA") Transmission and Distribution ("T&D") system pursuant to the Puerto Rico Transmission and Distribution System Operations and Maintenance Agreement ("OMA")." As such, in certifying LUMA as an Electric Service Company, the Energy Bureau expressly recognized that LUMA's Transmission and Distribution services were to be provided in accordance with the OMA and it is entitled to rely on the provisions set forth in that agreement. LUMA's contention that the Energy Bureau's requirements and expectations with regard to budget amendments were not expressed to LUMA, is therefore unavailing, as relevant requirements were set forth in the OMA, upon which the Energy Bureau relied.

Finally, it is important to note that the referenced budget monitoring and management mechanism, even in the absence of a contract such as the OMA, are applicable to both LUMA





¹⁰ *Id.*, pp. 12 – 19.

¹¹ Id.

¹² Puerto Rico Electric Power System Transformation, as amended ("Act 120-2018").

¹³ Public-Private Partnership Act, as amended ("Act 29-2009").

¹⁴ See Resolution and Order, Certificate of Energy Compliance, NEPR-AP-2020-0002, June 17, 2020.

¹⁵ See Resolution and Order, Request for Certification LUMA Energy ServCo, LLC, NEPR-CT-2020-0007, November 4, 2020.

and PREPA under the Energy Bureau's regulatory powers to ensure the appropriate use of ratepayers' monies in furtherance of compliance with public policy. 16

In light of the foregoing, the Energy Bureau **DENIES** LUMA's January 3 Motion and **DETERMINES** that LUMA has not shown good cause as to why it should not be fined. Accordingly, pursuant to the provisions of Act 57-2014,¹⁷ the Energy Bureau **IMPOSES** upon LUMA a fine in the amount of **twenty-five thousand dollars (\$25,000.00)**. LUMA is **ORDERED** to, within **fifteen (15) days** of the notification of this Resolution and Order, pay the aforementioned fine with the Energy Bureau's Clerk. Such fine shall be treated as a *Disallowed Costs* as per section 7.6(a)(ii) of the OMA.

The Energy Bureau **REITERATES** that future budget amendment requests must be received in a timely manner, when expenditures are expected to exceed the approved budget and, in all cases, before the expense is incurred. If future LUMA's Budget Amendment Requests are not filed opportunely, more significant fines will be imposed.

Be it notified and published.

Edison Avilés Deliz Chairman

Lillian Mateo Santos Associate Commissioner

Ferdinand A. Ramos Soegaard Associate Commissioner

Sylvia B. Ugarte Araujo Associate Commissioner Antonio Torres Miranda Associate Commissioner

ADO

¹⁶ Pursuant to the provisions of Act 57-2014, known as the *Puerto Rico Energy Transformation and RELIEF Act*, as amended ("Act 57-2014"), and Act 17-2019, known as the *Puerto Rico Energy Public Policy Act* ("Act 17-2019"), the Energy Bureau is tasked, among other things, with the enforcement of public policy to ensure that electric service companies provide services at reasonable and just prices. See Act 57-2014, Articles 1.2, 6.3, 6.4 and 6.25 and Act 17-2019, Article 1.5(1)(a). This duty inescapably entails the **review and monitoring of budgets, fiscal and operational practices, and the prudency of spending activities**.

¹⁷ Article 6.37(a) of Act 57-2014 which states: "The Energy Bureau shall impose administrative fines for violations of this Act, or the regulations and orders issued thereunder, committed by any person or electric power company subject to its jurisdiction, of up to a maximum of twenty-five thousand dollars (\$25,000) per day. Said fines shall never exceed five percent (5%) of the gross sales, fifteen percent (15%) of the net income, or ten percent (10%) of the net worth of the sanctioned person or the electric power company. The greater of the aforementioned amounts corresponding to the most recent taxable year shall be the amount of the fine."

CERTIFICATION

I hereby certify that the majority of the members of the Puerto Rico Energy Bureau has so agreed on March 20, 2023. I also certify that on March 20, 2023 a copy of this Resolution and Order was notified by electronic mail to jaime.elkoury@promesa.gov; margarita.mercado@us.dlapiper.com; ana.rodriguezrivera@us.dlapiper.com; jmarrero@diazvaz.law; brannen@genera-services.com; kbolanos@genera-services.com; regulatory@genera-services.com; and I have proceeded with the filing of the Resolution and Order issued by the Puerto Rico Energy Bureau.

I sign this in San Juan, Puerto Rico, today, March 20, 2023.

Sonia Seda Gaztambide Clerk

Annex B

March 22, 2023

BY ELECTRONIC MAIL Letters@promesa.gov

Mr. Robert F. Mujica, Jr. Executive Director Financial Oversight and Management Board for Puerto Rico PO Box 192018 San Juan, Puerto Rico 00919-2018

Dear Mr. Mujica:

Re.: Supplemental Information for Budget Amendment Review

The Puerto Rico Electric Power Authority ("PREPA") hereby refers to its letter to the Financial Oversight and Management Board for Puerto Rico ("Oversight Board" or "FOMB") dated March 21, 2023 (the "March 21st Letter"), in which PREPA reiterated its request to the FOMB for the approval of several necessary amendments to the Fiscal Year 2022-2023 ("FY2023") Budget. The March 21st Letter presents ample explanations and justifications for the requested amendments that include:

- 1. Up to \$15 million for the Mobilization Service Fee pursuant to Section 4.6 of the Puerto Rico Thermal Generation Facilities Operation and Maintenance Agreement ("LGA OMA") executed by PREPA, Genera PR LLC ("Genera PR"), and the Puerto Rico Public Private Partnerships Authority ("P3A") on January 24, 2023.
- 2. Up to approximately \$29.4 million in estimated costs for the implementation of the Voluntary Transition Program ("VTP") of PREPA employees transitioning to Genera PR.
- 3. \$46,440,594 increase to its "Operational Expenses, Necessary Maintenance Projects, and Capital Equipment" line item ("O&M Expenses") for FY2023:



Operating Budget: \$23,100,000

Necessary Maintenance Expense ("NME") Budget: \$23,340,594

 To continue and achieve completion of the works to be performed with these additional FY2023 NME funds, the O&M Expenses for FY2024 need to include:

Operating Budget: \$28,581,226

NME Budget: \$6,858,176

4. \$200 million increase to fund PREPA's Employee Retirement System ("PREPA ERS"):

FY2023: \$65 million (May and June)

FY2024: \$135 million (July through October)

Hereby, PREPA is providing supplemental information to the March 21st Letter, regarding PREPA's petition to increase its O&M Expenses budget for FY2023. This, to emphasize the need and urgency of continuing executing the repair projects and maintenance works before and after the commencement date of Genera PR as the operator of the thermal generating units. Accordingly, PREPA is attaching several technical documents that show the effect of having a limited dependable generation capacity in Puerto Rico's isolated power system.

As PREPA explained in the March 21st Letter, even though PREPA had completed several projects of it generating units' repairs program, its thermal generation fleet is still fragile and, unfortunately, was further damaged by Hurricane Fiona on September 18, 2022. We include the generation system damage reports in Annexes 1 and 2, attached with this letter. In addition, we include as Annex 3, a graph comparing the available generation capacity ("AC") with the maximum energy demand ("D_{max}") from September 17, 2022 to October 11, 2022.

It is noted that the difference between the AC and D_{max} graphs is called the operational reserve, which shall be maintained in a minimum value to minimize the risk of instability events in the power system that generally result in huge load shedding events. According to the System Operating Principles ("SOP") prepared by LUMA Energy LLC ("LUMA") and approved by the Puerto Rico Energy Bureau ("Energy Bureau" or "PREB"), the operating reserve in Puerto Rico shall be equal to or higher than 300 MW plus the MW capacity of the larger generating unit available. Considering the existing installed generating units' capacities, the operating reserve shall be maintained between approximately 700 MW and 750 MW.

As you can observe in Annex 3, on September 17, 2023, the day before the hurricane, there is an operational reserve of 878 MW (3,117-2,299), which was dramatically reduced after the passage of the Hurricane Fiona. The graphs clearly show that the week



after the hurricane, even though there was enough generation capacity to supply the energy, the operational reserve was extremely low, 180 MW (1,582 – 1,402) on September 23, which represented a very high risk of instability situations, which could result in a total blackout. To address this risky situation, on September 27, 2023, PREPA requested FEMA to provide temporary baseload generation, initially by means of water based generating units, that could supply energy to the customers while PREPA, and later the private operator, expeditiously execute its generating fleet repairs and maintenance program.

In response to PREPA's request, on October 12, 2022, the Puerto Rico Power System Stabilization Task Force ("Federal Task Force") was created to conduct assessments, develops plans, and begins executing strategies to stabilize the Puerto Rico's power system prior to the 2023 Hurricane Season. The Federal Task Force, composed by representatives from the U.S. ARMY Corps of Engineers ("USACE"), Federal Emergency Management Agency ("FEMA"), U.S. Department of Energy ("DOE"), and Environmental Protection Agency ("EPA"), assessed the condition of the power system after the passage of Hurricane Fiona and found, among others, that:



- Actions are necessary to eliminate or lessen the immediate threat to lives, public health, and safety due to the instability of the power grid exacerbated by Hurricane Fiona damage to generation, transmission, and distribution systems.
- There is insufficient generation reserve capacity to complete repairs and ensure stability of the system.
- As a course of action, it is needed to execute the following:
 - Short- to mid-term: Provide temporary generation, land-, water-based or both, to increase the power system capacity to complete priority emergency repairs to stabilize the system without significant interruption in service.
 - Mid- to long-term: complete priority emergency repairs to stabilize the system without significant interruption in service.

As explained in the March 21st Letter, the efforts of the Federal Task Force, PREPA and other stakeholders are making it possible to install temporary generation, of which the first three (3) portable generators arrived in Puerto Rico last week. The Federal Task Force is working to install approximately 350 MW of temporary generation between the Palo Seco and San Juan Power Plants. As found by the Federal Task Force, this temporary generation capacity will help PREPA and Genera PR to expedite the repairs projects and maintenance works on the existing generating units.

In addition to PREPA's actions to assess the generation system condition after Hurricane Fiona, on October 6, 2022, LUMA, as the electrical system operator, submitted a letter to the Energy Bureau informing their risk assessment of the electrical system after the hurricane. We include copy of this letter in Annex 4, where LUMA stated that the operating reserves levels after the emergency are not in compliance with the SOP and urged the Energy Bureau to "explore generation capacity increases for the near-and-medium term to benefit the people of Puerto Rico". In response to the letter, the PREB conducted a technical conference with LUMA on October 11, 2022¹, where LUMA recommended implementing a generation risk mitigation plan. We include copy of the presentation by LUMA in the October 11 conference in Annex 5 ("LUMA October 11 Presentation").

The page 9 of the LUMA October 11 Presentation shows a forecast of the system load and generation availability from September 29 to November 12, 2022, where can be clearly observed how the reserve deficiency increase when occurs the outage of a baseload unit, like Aguirre 2, EcoEléctrica, Palo Seco 4, and Costa Sur 5 and 6. LUMA stressed in its assessment that the emergency of Hurricane Fiona delayed PREPA's repair schedule and that worsen the already fragile condition of the generation fleet. Furthermore, LUMA informed that a preliminary analysis estimated that the Loss of Load Event ("LOLE") probability increased from 28 day per year before Hurricane Fiona to as high as 98 days per year after the hurricane, indicating that the generation system reliability decreased with the damages caused by the hurricane.

As ordered by the Energy Bureau on October 12, 2022, LUMA has submitted regular updates to the PREB regarding the generation stabilization plan ("Stabilization Plan") required by the Energy Bureau after the LUMA October 11 Presentation, when LUMA considered the possibility of the installation of temporary generation requested by PREPA. In its first update submitted on October 31st, 2022, LUMA informed that, when simulating 500 MW of additional generation capacity, the LOLE is reduced from a current value of 49.8 days per year to 27.7 days per year. See Annex 6. This analysis shows the importance of increasing the dependable generation capacity in Puerto Rico's power system.

Starting with the update reports submitted by LUMA in November 2022, LUMA included the temporary generation requested by PREPA and being worked by the Federal Task Force as part or the short- to mid-term solution to stabilize the generation system in Puerto Rico. In its update report of January 15, 2023, LUMA included a graph of the average daily availability rate from July 1st, to December 10, 2022 (See Annex 7). This graph clearly shows how the availability of PREPA's generation fleet decreased after the passage of Hurricane Fiona. Considering this fact, LUMA concluded that the concerns regarding having adequate generation capacity remains. This concern continues appearing in LUMA's update reports submitted in February and March of 2023.



¹ See Case No. NEPR-MI-2022-0003, LUMA's Response to Hurricane Fiona.

The last update report of the Stabilization Plan was submitted by LUMA on March 15, 2023. We include copy of this report in Annex 8, which shows that the availability of PREPA's generating units has stabilized during February and March (see page 12 of the update report) and that the 350 MW that the Federal Task Force will install would increase the system reliability from current LOLE of 37.2 days per year to 28.6 days per year (see page 12 of the update report). These updated analyses show that there has been an improvement in the generation system availability and reliability, which shall be due to the repairs and maintenance works that PREPA have been executing after the restoration works of Hurricane Fiona. In addition, it is expected that the forecasted reliability will increase more when the addition of 350 MW of baseload generation to the power system is completed. However, it is important to always validate the forecasts and simulations with field data and the experience of the expert operational staff.

It is also noted that Puerto Rico's generation system availability and reliability has been affected by the current condition of the generating units of AES Puerto Rico LP ("AES"). Since 2018, AES has been experiencing an increase in the forced outages of its units, as can be seen in the Annex 9² attached herein, that has reduced its availability and dependability. PREPA understands that one reason for this increase could be the fiscal constraints that AES has been experiencing mainly because of the high cost of the disposal of ashes. The forced outages of AES units have affected PREPA's repairs and maintenance program, as its units have been kept online to supply the energy demand.

As can be observed in the LUMA's update reports on the Stabilization Plan as well as the assessments conducted by the Federal Task Force, the reliability and safety of the power system greatly depends on maintaining an adequate capacity of dependable installed generation, that is capable to supply the energy demand with safe levels of operational reserve. Another important aspect that affects the reliable and safe operation of an electrical system is the load behavior, as the adequate capacity of available generation and the operational reserve must be determined considering the maximum or peak demand. Therefore, the utility is responsible to have as much as possible of available generation capacity during the months that it is expected to experience maximum or peak demand of energy.

Consequently, any programmed repair or maintenance work shall be completed before the peak demand season. In Puerto Rico, the peak demand season coincides with the high hurricane season, usually occurring from August through October, been September and October the most common peak demand months. In general, the peak demand occurs during the hottest months of the year, like those mentioned before, but there are years that the peak occurs earlier, like the peak of the year 2022 that was 3,016 MW of production of energy on June 6, 2022, 8:16 p.m. See Annex 10.



² This annex shall be protected as confidential information.

Mr. Robert F. Mujica, Jr. Page 6

Hence, PREPA's and private generators' major maintenance programs are schedule out of the peak season, from November through May, usually leaving June and July for contingency works in case the programmed works are delayed. This is another reason why PREPA must not stop or delay the units repairs and maintenance until Genera PR starts its operations, which is expected to occur close to the start of the hurricane season.

It must be noted that the system reliability decreases as the dependable available generation capacity decreases. When the available operational generation capacity is lower than the minimum required for a reliable operation, the power system is under a high risk of losing stability. This risk is even higher in an isolated system like Puerto Rico's system, where an instability event can evolve to a total outage or blackout more easily than in an interconnected system. To prevent such total system outage during generation capacity limitations, the system operator needs to execute partial outages across the power system, affecting thousands of customers. Therefore, outages resulting from generation capacity limitations usually disconnect huge blocks of load from the power system, which could include critical loads such as hospitals and other essential services facilities.

To increase the current limited dependable available generation and provide a reliable and continuous generation service to the People of Puerto Rico, preventing massive load shedding events, and comply with the minimum reserve levels of the SOP, it is crucial to keep the generating units and their auxiliary equipment operational and in the best possible condition. Therefore, the prioritization of conservation, repairs, and retrofitting works projects of the units is essential to PREPA, who has been conducting repairs and maintenance works, facing many challenges while operating an old and fragile generation fleet. It is stressed that the short- and mid-term solution to increase the reliability of the generation system is to execute the programmed repairs without disruption, especially taking advantage of the temporary 350 MW units that will support the reliability of the system while PREPA's units are repaired.

It is further stressed that the current available budget will not allow PREPA to operate and maintain the generation system until Genera PR starts its operations, as expressed by the Oversight Board. As explained before, responsibly, PREPA's generation budget shall include the funds that Genera PR will need to continue the repair and maintenance works since its commencement that should occur not later than July 1, 2023. PREPA reiterates that the current budget is not enough to maintain the continuance of operations and of repair and maintenance works without disruption of the energy supply. If PREPA must stop these works, due to the lack of access to its reimbursed funds, it would result in a high risk of decreasing the reliability and availability of the generation system, with the consequence of putting the lives of the people of Puerto Rico at risk and destabilizing the economy.



Finally, PREPA again reiterates that it is working for the benefit of the people of Puerto Rico, the thousands of retired and current employees, committed to move forward in its path through the energy sector transformation, and trusts that the Oversight Board does so collaboratively and with the support requested. PREPA's current management has proven being effective using its approved budget, completing operational and permanent works, and gathering federal funds reimbursements from those works. This, even with very limited and constraint resources, both staffing and funding. Furthermore, PREPA is committed to spend only what is needed to comply with its obligations, including the transition to Genera PR, and transferring back any unused fund.

PREPA reiterates its availability to meet with the representatives of the Oversight Board and provide any clarification to this request that helps the FOMB to understand its importance.

Cordially,

Josué A. Colón-Ortiz Executive Director

Annexes

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Mary C. Zapata Acosta; Deputy Executive Director, PREPA; Mary.Zapata@prepa.com



Hurricane Fiona Generation System and Water Assets Preliminary Damage Report

I. Generation Base Load Power Plants

During the incident period of 9/15/2022 through 9/18/2022, Hurricane Fiona created an immediate threat to the health and safety of the public requiring emergency response and protective measures. Provided Emergency Power Restoration for Emergency Protective Measures following Hurricane Fiona that produced hostile wind conditions, storm surges, mudslides, wind driven rain and flooding, which destroyed segments of the island's electrical power grid, damaging power generation, dams, hydroelectric systems, irrigation systems, and reservoirs.

PREPA has an estimated amount of \$30 million dollars in damages cost for its generation fleet, Dams, hydroelectric systems, irrigation systems, and reservoirs. During this period PREPA has rely on it peaking units to maintained it generation. This represents an extraordinary, estimated cost of \$110 million dollars in fuel consumption.

The following is a description of the damages by power plant and its auxiliary systems attribute to the passing of Hurricane Fiona:

A. San Juan Power Complex

Combustion Turbine Unit 5 – 150 MW

 Damaged boiler feed water pump. Unit not available for a period of eight days. The unit returned to service on September 26, 2022.

Steam Turbine Unit 5 - 50 MW

 Damaged bearings and journal of the steam turbine due to failure of the oil lubrication system. Unit not available since September 18, 2022.

Steam Unit 7 - 100 MW

 Damaged Normal Service Station Transformer (NSST) which serves as a Back-In Power for Auxiliary Equipment Units 7 & 8.



- Damaged Battery Banks Units 7 and 8, which serves as power back up for the unit's auxiliary equipment.
- Unit not available for a period of eight days. The unit returned to service on September 26, 2022.

SJ 9 Fuel Service Tank (Bunker C)

- Flood Secondary Containment with presence of hydrocarbon.
- Cleaning process was completed on October 7, 2022.

SJ 5 CT 150 MW Damage on Boiler Feed Pump





Boiler Feed Pump Damage Unit 5



SJ 5 ST 50 MW Damage on Steam Turbine



Steam Turbine Damaged Bearings Area Unit 5





Steam Turbine Damage Area Unit 5 Ste (Atmospheric Diaphragm Low Pressure Turbine)

Steam Turbine Damage Area Unit 5 ine) (Oil Leak)

SJ5

100 MW

Damage on Battery Bank Unit 5





Backup Battery System ST Unit 5





Backup Battery System ST Unit 5

SJ7 & 8 100 MW Damage to Normal Service Transformer 8



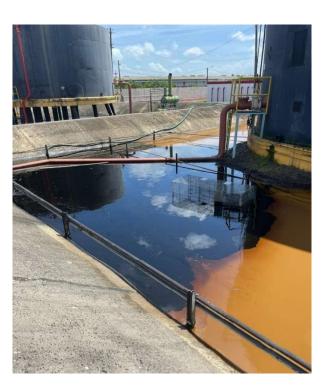


NSST 8 Damaged – Back-In Power for Auxiliary Equipment Units 7 & 8



NSST 8 Damaged – Back-In Power for Auxiliary Equipment Units 7 & 8

SJ 9 100 MW Bunker C Fuel Service Tank 9 Area Flooded



SJ 9 Fuel Service Tank Flooded by Fiona

B. Aguirre Steam Plant & Power Complex

Steam Unit 2 - 450 MW

- Damaged motor driven boiler feed water pump. Damages to bearings, truss bearings, impellers, balancing drum, and coupling (pump to motor) of the Motor Driven Boiler Feed Water Pump 2-2.
- Unit not available since September 18, 2022. return to service on October 13, 2022

Fuel and Water Tanks Secondary Containment Flooded

- Fuel Reserve R1 R5 Tanks Secondary Containment Flooded. It will be drained by the end of the 1st Week of October 2022.
- Water Tanks Secondary Containment Flooded. It was drained by the end of the 1st Week of October 2022.





Damage Boiler Water Feed Pump 2-2



Damage Boiler Water Feed Pump 2-2





Damage Boiler Feed Water Pump Unit 2

Aguirre Power Complex

Fuel and Water Tanks Area Flooded





Bunker C Reserve Tank Farm Secondary Containment Area Flooded



Diesel Tanks Secondary Containment

Area Flooded



Water Retention & Final Effluent Tank
Secondary Containment Flooded

C. Aguirre Combined Cycle

Unit 1-2 & 1-4 - 100 MW

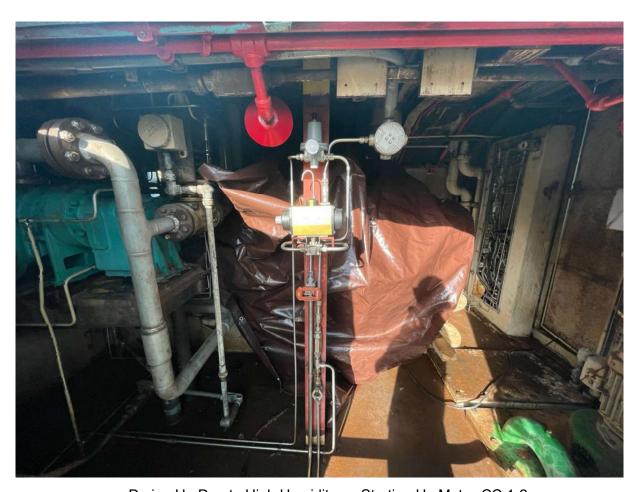
Damaged on generator auxiliary equipment due to water intrusion. Unit not available for a
period of eight days. The unit 1-4 returned to service on September 24, 2022 and the unit
1-2 returned to service on September 25, 2022

Unit 2-3 & 2-4 – 100 MW

 Damaged on generator and auxiliary equipment due to water intrusion. Unit not available for a period of eight days. The unit 2-3 and 2-4 returned to service on September 26, 2022.

Stag 1 Steam Turbine - 96 MW

• Damaged on auxiliary equipment due to water intrusion. Unit not available for a period of eight days. The unit returned to service on October 1, 2022.



Drying Up Due to High Humidity on Starting Up Motor-CC 1-2



Drying Up Due to High Humidity on Starting Up Motor-CC 1-2



Inspection and Tests of Auxiliary Equipment Breakers due to Humidity

D. Costa Sur Power Plant

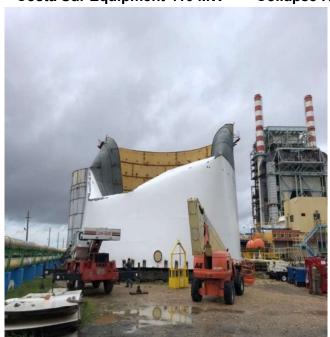
Raw Water Tank 1 – 1.4 million of gallons

• Collapsed 1.4 million gallons steel water storage tank. Damages to shell and tank bottom.

Control Room Units 5 & 6

 Damages to the Units 5 and 6 Control Room due to water intrusion caused to the interior's reflected ceiling.

Costa Sur Equipment 410 MW Collapse Raw Water Tank 1 for all the power plant





Collapse Raw Water Tank 1 for all the power plant

Control Room Units 5 & 6

Damages to the Roof Built Up and Reflected Ceiling



Damages to Control Room Reflected Ceiling

II. Peaking Combustion Turbines and Hydroelectric Plants

A. Mayagüez Power Plant

Unit 1, FT 8 – 55 MW

Unit had to lowered load, valve combust. fully open. Unit is taken out: clean strainer.
Governor of 1A and 1B was found covered. Two governors were replaced: it is removed
from the 3B to install in 1A and a new one is installed in the 1B. The damage was caused
due to over fatigue of the unit during the Puerto Rico's power restoration process. The
unit returned to service on September 26, 2022.

<u>Unit 2, FT 8 – 55 MW</u>

Hydraulic pump of Unit starting system: coupling failed while unit in service. The damage
was caused due to over fatigue of the unit during the Puerto Rico's power restoration
process. Unit available.

<u>Unit 3, FT 8 – 27.5 MW</u>

Hydraulic pump coupling Unit starting system – coupling bushing is damaged. The damage
was caused due to over fatigue of the unit during the Puerto Rico's power restoration
process. Unit available.

Unit 4, FT 8 – 55 MW

 Hydraulic pump coupling Unit starting system. The damage was caused due to over fatigue of the unit during the Puerto Rico's power restoration process. Unit available.

B. Peaking and Backup Remote Generating Units

Yabucoa 1-2 - 20 MW

Generator (Stator) Failed. The unit is not available since September 18, 2022. A
replacement of the generator's stator would be completed in a period of 10 days.
Catastrophic damage to generator stator.

Jobos 1 - 20 MW

 Alarm and trigger of unit by Excitation Control. ECTB and EMIO cards are replaced using PS 1-2 cards. The unit was taken out for repairs on September 25 2022, and return to service in September 26, 2022.

Vieques 1 – 3 MW

• Explosion in generator area with unit in service the night before - High voltage. Cable failures of the three phases, CT and PT's. Unit in repair works.

Viegues 2 – 3 MW

Alarm Problems in excitation control. Available unit, limited to 2.5MW.

Culebra 2 - 1.8 MW

• Coolant leak by engine water pump seal. Pump was replaced. The unit was taken out on September 21 and the unit was returned to service on September 23.

Culebra 3 – 1.8 MW

Oil and coolant leaks from engine block cover. Manufacturer recommended taking unit out of service.

Toro Negro 1 – 9 MW

Obstruction in water channel for Lake Aceitunas caused by collapse of rocks and sediments. Partial removal of rocks and vegetation and sediments was carried out. Tree trunk in Lake Guineo area that affects morning glory inspection pathway. On September 21, 2022, the unit was taken out and was returned to service on September 24, 2022.

C. Hydroelectric plants

The Engineering and Technical Services Division continues to assess all the hydroelectric power phase.

D. Estimated Costs of Damages in Power Plant

A cronyme

The preliminary data documented by the personnel of the engineering and technical division concludes that PREPA, in its power plants has a preliminary estimated costs of damages close to \$20 million dollars.

E. Damages Summary

Following, a summary of damages recorded by the HydroGas – Cambalache Power Plants Division. The reference pictures are included in the Annex to this report.

Fatigue
Wind
Rain
Flooding

MPT Main Power Transformer

Area	Unit	Description of Damages	Date of	Type	Date of	Reference	Cost
			occurrence	of	Correction	Picture	(\$, Est)
				Failure			
		Obstruction in water channel for Lake					
		Aceitunas caused by collapse of rocks					
Toro		and sediments. Partial removal of	9/18/22	F, W	9/22/22	11.0, 11.1,	
Negro 1	Canal	rocks and vegetation and sediments				11.2	

Area	Unit	Description of Damages	Date of	Туре	Date of	Reference	Cost
			occurrence	of Failure	Correction	Picture	(\$, Est)
		was carried out. Tree trunk in Lake		ranute			
		Guineo area that affects morning					
		glory inspection pathway - pending removal.					
		Catastrophic damage to generator stator. Phases burned after unit with					
Yabucoa	1-2	load during the passage of the	9/18/22,			5.0, 5.1,	
		hurricane. Vega Baja unit 1-2 stator is removed to be installed in Yabucoa. Cleaning rotor generator.	8:34PM	R		5.2	
		Oil and coolant leaks from engine					
Culebra	3	block cover. Manufacturer recommended taking unit out of service	9/18/22, PM	Fa		2.0, 2.1, 2.2	41,240.73
Culebra	2	Coolant leak by engine water pump seal – Pump replaced.	9/21/22, 11AM	Fa	9/23/22	1.0, 1.1, 1.2	3,267.00
		Unit forced out by over speed.					
Vieques	1	Problems with the speed sensors system.	9/18/22 PM	R	9/23/22 PM		7,705.60 (est)
Vieques	2	Unit is triggered by high temperature. Failure in breaker of starter motor of	9/18/22		9/27/22		65,000 (est)
vieques	2	louvers fans, Generator Cooling System.	PM	R	9/2//22 PM		(est)
	Exterior	Fallen trees, lines and poles					
Yauco 2	Powerhouse		9/18/22	F, W		3.0, 3.1, 3.2	
Garzas 1		Vegetation and fallen trees, obstructing the passage	9/18/22	F, W		4.0, 4.1, 4.2, 4.3	
Lago Garzas		Vegetation and fallen trees obstructing way for morning glory inspection.	9/18/22	F, W			
Vieques	1	Explosion in generator area with unit in service the night before - High voltage. Cable failures of the three phases, CT and PT's.	9/25/22	R		8.0, 8.1, 8.2, 8.3	
Vieques	2	Problems in excitation control. Trouble Shooting performed. Available unit, limited to 2.5MW	9/27/22	R	9/28/22		
		lowered load, valve combust. fully					
Mayagüez	1	open. Unit is taken out: clean strainer. Governor of 1A and 1B was found covered. Two governors were replaced: it is removed from the 3B to install in 1A and a new one is installed in the 1B.	9/26/22	Fa	9/26/22	7.0, 7.1	48,000.00 (est)
		Oil leak by speed reducer – through					
Daguao	1-1	1.5" nipple connection. Replaced	9/27/22	Fa	9/28/22	6.0	
Jobos	1	Alarm and trigger of unit by Excitation Control. ECTB and EMIO cards are replaced using PS 1-2 cards.	9/25/22	R	9/26/22	9.0, 9.1, 9.2	11,306.00 (est)
Dos Bocas	MPT 3	5:22AM transformer explosion 7.5MVA. Apparent failure in phase B. Oil spill in dam and ground. Repair works done by Luma	9/28/22	R		10.0 a 10.8	350,000 (est)

Area	Unit	Description of Damages	Date of occurrence	Type of	Date of Correction	Reference Picture	Cost (\$, Est)
				Failure			(,,,,,
Dos Bocas	MPT 2	oil leak through pipe. Piece of bushing from transformer 3 broke the pipe.	9/28/22		10/1/22		
Mayagüez	2	Hydraulic pump of Unit starting system: coupling failed while unit in service.	9/28/22 6:40pm	Fa	10/1/22	12.0, 12.1	1,513.10
Mayagüez	4	Hydraulic Pump Coupling, Unit starting system, partially broken	9/28/22	Fa	10/2/22	12.2	1,513.10
Mayagüez	3	Hydraulic pump coupling Unit starting system – coupling bushing is damaged,	9/28/22	Fa		12.3	171.60

F. Fuel Estimated cost for Peaking Units

PREPA has summited an estimated fuel consumption cost of \$110 million dollars for the peaking units during Fiona Emergency period as of today.

III. Irrigation, Dams, Reservoirs

Following, a summary of the preliminary assessment of damages at the irrigation, dams, reservoirs assets.

A. Debris affecting the irrigation districts



ISABELA IRRIGATION DISTRICT AGUADILLA CHANNEL



ISABELA IRRIGATION DISTRICT DERIVATION CHANNEL



ISABELA IRRIGATION DISTRICT DERIVATION CHANNEL



SOUTH COAST IRRIGATION DISTRICT GUAMANI CHANNEL



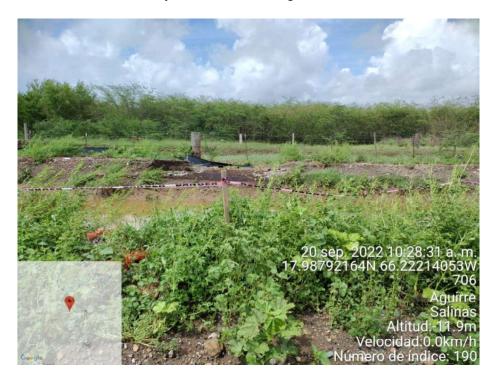
SOUTH COAST IRRIGATION DISTRICT PATILLAS CHANNEL

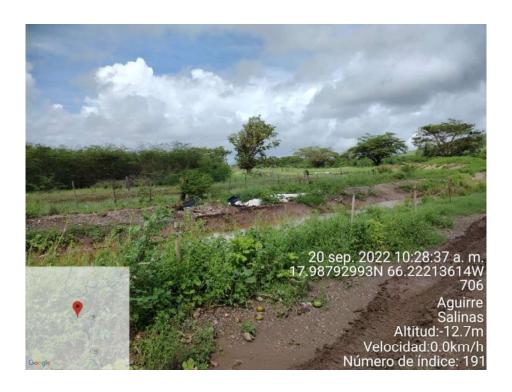


SOUTH COAST IRRIGATION DISTRICT PATILLAS CHANNEL

B. Patillas Channel

Erosion caused by Ciro One Flooding Control:

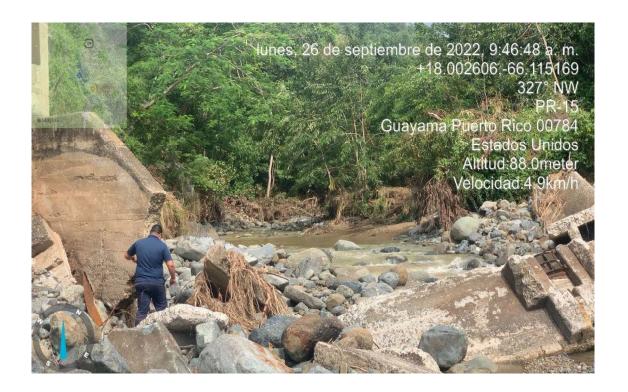




C. Guamaní Channel

Guamaní Channel Dam destroyed by Hurricane Fiona:





Guamaní Channel Dam destroyed by Hurricane Fiona:



D. Patillas Dam

Patillas Dam Discharge Channel:



Patillas Dam Discharge Channel:



E. Carite Reservoir

Carite Dam Reservoir & Spillway Structure:



Carite Dam Spillway Structure:



Undermining damages to Carite Dam Spillway Structure:



Undermining damages to Carite Dam Spillway Structure:





VIA ELECTRONIC MAIL

January 13, 2023

Mr. John G. Stone, IV Director of Risk Management LUMA Energy, LLC San Juan, Puerto Rico

Re: Generation Fleet Damage Assessment Report

Pursuant to your letter dated December 19, 2022 (Transmittal # LUMA-PREP-T-00433) requesting a finalized Damage Report related to Hurricane Fiona, attached is a Final Damages Assessment Report as of December 28, 2022.

Please note that costs are subject to change as contracts are awarded and invoices for repair of the units are paid.

Should you have any questions, please feel free to contact Jorge Cotto Pérez, Generation Director at (787) 521-1230 or via email at jorge.cotto@prepa.com.

Sincerely,

Nelson Morales Chief Financial Officer

Attachment

C: Josué A. Colón Ortiz, P.E., Executive Director, PREPA
Mary Zapata, Deputy Executive Director, PREPA; Mary.Zapata@prepa.com
Richard Cruz Franqui, Legal Counsel, PREPA; Richard.Cruz@prepa.com
Jorge Cotto Pérez, Generation Director, PREPA; jorge.cotto@prepa.com
Wayne Stensby, Chief Executive Officer, LUMA; wayne.stensby@lumapr.com
Mike Shaw, Vice President, PREPA Restructuring, LUMA; Mike.Shaw@lumapr.com
Ashley Engbloom, Vice President, Regulatory, LUMA; ashley.engbloom@lumapr.com
Fermín Fontanés Executive Director, P3A; fermin.fontanes@p3.pr.gov



Puerto Rico Electric Power Authority Final Damages Assessment Report December 28, 2022

				December 28, 2022	77		-			
Num	Plant or Asset	Type of Damage Flood, Fire, Wind ¹	e, Explanation of Damages	Estimated Costs	Actual Costs	PREPA's Labor Costs	Materials Cost	Contract Costs	Contract Number	Comments
-	Aguirre Power Plant Unit 2	Wind	Ď.	\$ 1,200,000.00	0 \$ 630,591.00	\$ 49,074.00	\$ 469,981.00	\$ 111,536.00	97294	Pending Materials Cost, Labor Costs from engineers Alexis Cruz and Miguel Beauchamp. Parts are within Material Requests 757677, 757884, 757333.
2	Aguirre Power Plant Unit 2	Wind and Flood	Contamination on Air Preheaters Areas that requires chemical deaning with soda ash product	\$ 25,000.00	0 \$ 22,257.88			\$ 22,257.88	92884	Services Completed
3	Aguirre Power Plant	Wind & Flood	Damages to the control and mechanical systems of a Emergency Generator 600 kW, 480V	\$ 9,572.00	0 \$ 9,572.00			\$ 9,572.00	96049	Services Completed
4	Aguirre Power Plant Water Treatment Plant	Wind & Flood	Repair of HDPE Liners on Water Retention and Final Effluent Tank	\$ 95,900.00	0 8 95,900.00			\$ 95,900.00		Proposal Submitted by Contractor RG Engineering, Corp., December 12, 2022
2	Aguirre Power Plant Travelling Screens Area	Wind	Damage to Existing MCC for Travelling Screens	\$ 15,000.00	15,421.22	\$ 10,000.00	\$ 5,421.22		P.O. 95366	The P.O. is for the materials.
9	Aguirre Combined Cycle	Plood	Damages to HMI (Human Machine Interphase - 8 Units)	\$ 730,589.00	730,589.00			\$ 730,589.00	C.R. 267288	Proposal by Baker & Huges. Contract Requistion prepared by Power Plant.
7	Aguirre Combined Cycle	Flood & Wind		\$ 100,000.00	- \$ 0					Pending Labor and Material costs from engineer William Ríos Mera.
ω	Aguirre Combined Cycle	Flood & Wind	Juc A	\$ 45,000.00	0 \$ 45,000.00			\$ 45,000.00	95939	Services Completed
o	Aguirre Combined Cycle	Water Intrussion & Wind	nent which	\$ 500,000.00	- \$ 0					Pending Labor and Material costs from engineer William Ríos Mera.
10	Aguirre Combined Cycle	Water Intrussion & Wind	Emergency Contract Technical Craft & Labor for electrical, instrumentation and protection works related to the damages by Hurricane Fiona.	\$ 135,000.00	53,795,95			\$ 53,795,95	95942	Contract is being executed.
11	South Coast Power Plant	Wind	Collapsed of a 1.4 Million Gallon (Diameter - 70' ; Height - 48')	\$ 1,200,000.00	1,117,000.00			1,117,000.00		Pending Contract Approval on November 2022. LUMA already have the info of costs.
12	South Coast Power Plant	Wind		\$ 2,500.00	3 4,000.00	\$ 2,500.00	1,500.00			The Contract cost is estimated by Power Plant.
13	South Coast Power Plant	Water Intrussion & Wind		\$ 50,000,00	3 2,000.00	\$ 2,000.00				The Contract cost is estimated by Power Plant.
14	South Coast Power Plant	Water Intrussion & Wind	Damages to Control Room Bullt-Up Roof and Interior Reflected Ceiling (Including Cleaning of Water)	\$ 50,000,00	22,000.00	\$ 2,000.00		\$ 20,000.00		The Contract cost is estimated by Power Plant.
15	Cambalache Power Plant	Water Intrussion & Wind	Miscellaneous Mechanical and Electrical Equipment		\$					Final Determinatin by Hidrogas - No Damages to the Power Plant
91	Mayaguez Power Plant Unit 1	Water Intrussion & Wind	Miscellaneous Mechanical and Electrical Equipment-lowered load, valve combust, fully open. Unit is taken out, clean strainer. Governor of 14 and 18 was found covered. Two governors were replaced: it is removed from the 38 to install in 1A and a new one is installed in the 18.	\$ 48,000.00	307,524.06	\$ 1,530.32		\$ 305,993,74	96411	Repair of the Equipment by Contractor and Replacement of the Equipment by PREPA's personnel.
17	Mayaguez Power Plant Unit 2	Water Intrussion & Wind	Hydraulic pump of Unit starting system: coupling falled write unit in service.		\$ 2,563.02	\$ 380.62	\$ 2,182.40			
18	Mayaguez Power Plant Unit 3	Water Intrussion & Wind	Hydraulic pump coupling Unit starting system – coupling bushing is damaged,			\$ 381.86 \$	\$ 2,182.40			Procurement of the Parts (PO 96429) by Contractor and
19	Mayaguez Power Plant Unit 4	Water Intrussion & Wind	Hydraulic pump coupling Unit starting system – coupling bushing is damaged,			\$ 492.33	\$ 2,182.40		P.O.96429	Replacement of the Equipment by PREPA's personnel.
20	San Juan Steam Plant Unit 5	Water Intrussion & Wind	Damage to Bearing Steam Turbine Rotor Unit 5 - Repairs	\$ 2,500,000.00	\$ 854,000,00	\$ 4,000.00	*****	\$ 850,000.00	96310	Repairs in Process
21	San Juan Steam Plant Unit 5	Water Intrussion & Wind		\$ 1,205,000.00	\$ 1,205,000.00	1	I	\$ 1,205,000.00	96515	Inspection in Process. Preliminary findings show that the rotor must be sent to the United States for Repairs. A Contract will be signed for repairs. Contract will be signed for repairs. Cost on the range 8,1,000,000 - 51,790,000.
22	San Juan Steam Plant Unit 7 & 8	Water Intrussion & Wind	NSST 8. Damages to Bac Duct, Cols, etc., (At this moment the transformer is being used as a energency transformer for Units 7 and 8), to energize the emergency bus (4.16 kV). This allowed Unit 7 to return to service.	\$ 250,000.00					1	Conservación Eléctrica ingeniero Joaquín Carrillo.
23	San Juan Steam Plant Unit 5	Water Intrussion & Wind	Damages to thrust bearing, BFWP High Pressure - 5-A, Unit 5	\$ 450,000.00	223,000.00	\$ 10,000.00	180,000.00	\$ 33,000.00	94952	Pending Labor and Materials Costs from engineers Joaquin Carrillo and Victor Ortiz Pérez.
24	San Juan Steam Plant	Flood	Hood Secondary Containmen Area SJ 9 Fuel Tank	\$ 25,000,00	305,500.00	\$ 4,000.00 \$	1,500.00	\$ 300,000,00	96377	Services in Process.
25	San Juan Steam Plant Unit 5	Water Intrussion & Wind		\$ 15,000.00	3,700.00	\$ 2,400.00 \$	1,300.00	N/A	N/A	Pending Labor and Materials Costs from engineer Victor Ortiz Pérez.
56	San Juan Steam Plant Unit 7 & 8	Water Intrussion & Wind		\$ 25,000.00	10,000.00	\$ 00,000,00	\$ 4,000.00	N/A	N/A	Pending Labor and Materials Costs from engineer Victor Ortiz Pérez.
27	San Juan Steam Plant Unit 7	Water Intrussion & Wind	Damaged PT in 115 kV Switchyard (It allows to have referenced voltage for Unit 7 electric bus for sinchronization process) - Equipment replaced by LUMA.	\$ 10,000.00						Pending information from LUMA.

Puerto Rico Electric Power Authority Final Damages Assessment Report December 28, 2022

		Type of Damage Flood, Fire,							Contract	
Num.	Plant or Asset	Wind	Explanation of Damages	Estimated Costs	Actual Costs	PREPA's Labor Costs	Materials Cost	Contract Costs	Number	Comments
28	Hydropower Sites ²	Water Intrussion & Wind	Miscellaneous Damages to Mechanical and Electrical Equipment (7.5 MVA Transformer Unit 3 Dos Bocas - \$350,000)	\$ 2,000,000.00						
59	Dos Bocas MPT 3		5:22AM transformer explesion 7:5MVA. Apparent fallure in phase B. Ol spill in dam and ground. Repair works done by Luma. Transformer damaged and unoperable, have to be replaced.	\$400,000.00						LUMA Share Services. Pending for repairs report from LUMAPending for SOW and Specs.
30	Dos Bocas MPT 2		oil leak through pipe. Piece of bushing from transformer 3 broke the pipe.	\$ 45,000.00						LUMA Share Services. Pending for repairs report from LUMA
31	Toro Negro 1		Obstruction in water channel for Lake Aceiturias caused by collapse of rocks and sediments. Partial removal of rocks and vegetation and sediments was carried out. Tree trunk in Lake Guineo area that affects morning glory inspection pathway - pending removal.	ω.	24,888.60	\$24,888.60				Pending for information from area supervisor
32	Yauco 2		Fallen trees, lines and poles	\$ 12,000.00 \$						Pending for information from area supervisor
33	Garzas 1		Vegetation and fallen trees, obstructing the passage	\$ 00.000,8	•					Pending for information from area supervisor
34	Lago Garzas		Vegetation and fallen trees obstructing way for morning glory inspection.	\$ 12,500.00						Pending for information from area supervisor
35	Yaburoa Unit 1-2	Water Intrussion & Wind	Damaged Generator - Catastrophic damage to generator stator. Phases burned after unit with blad during the passage of the humbane. Vega Baja 1-2 unit stator is removed to be installed in Yabucoa. Chaning rotor generator.	\$ 2500,000,00	,					Including the labor, equipment and material costs for replacement of the stator of Yabucoa by using one of the units of Vega Baja, and the cost for the fabrication, delivery marginal margaliation has west stator; audiestry proposal from MD8A received for reswinding, \$2,100,000.00
98	Culebra 3		Oil and coolant leaks from engine block cover. Manufacturer recommended taking unit out of service	w	41,240.73			\$ 41,240.73	96164	Performed by Antilles Power
37	Culebra 2		Coolant leak by engine water pump seal – Pump replaced.	9	7,845.27	\$ 1,311.27	3,267.00	\$ 3,267.00	96022	Perfomed by plant personnel
38	Vieques 1		9/18/22 Unit forced out by over speed. Problems with the speed sensors system.	69	18,789.70	\$ 3,378.50	\$ 7,705,60	\$ 7,705.60	95864	Perfomed by plant personnel
39	Vieques 1		90/5922 Explosion in generator area with unit in service the right before - High voltage. Cable falures of the three phases. CT and PTs.	\$45,800.00	353.10	\$ 353.10				Labor cost in troubleshooting, performed by plant personnel. Additional labor cost is expected for the installation of parts. MR763852
40	Vieques 2		9/18/2022 Unit is triggered by high temperature. Fallure in breaker of starter motor of touvers frans, Generator Cooling System.	\$ 00.000,59\$	6,396.20	\$ 6,396.20				Only labor cost in troubleshooting, performed by plant personnel. MR 763219 pendlente por aprobacion.
41	Vieques 2		9/27/22 Problems in excitation control. Trouble Shooting performed Available unit, limited to 2.5MW	\$	5,943.60	\$5,943.60				ESI Service Contract upon requirement
42	Daguao 1-1		Oil leak by speed reducer - through 1.5" nipple connection. Replaced	8	404.60	\$ 404.60				Only labor cost
43	Jobos 1		Alarm and trigger of unit by Excitation Control. ECTB and EMIO cards are replaced using PS 1-2 cards.	\$190,000.00	1,629.44	\$1,629.44				GE Service contract
44	Palo Seco MG 1		Unit tripped. Check Valve of fuel/water Mixing Bed	49	1,242,44	\$1,242,44				labor performed by plant personnel
			Preliminary Cost Estimate for Damages - \$	\$ 13,964,861.00 \$	5,768,147.81	\$ 140,306.88	\$ 681,222.02 \$	\$ 4,951,857.90		

Notes:

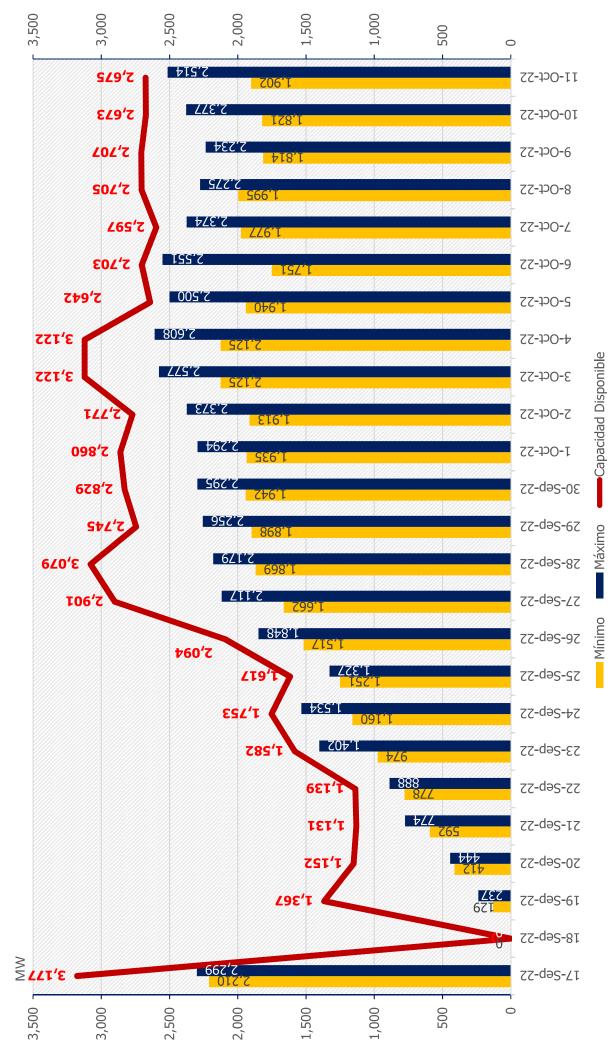
1. When the word Flood is used on the Type of Event for Damage, it also means water entering the equipment.

2. The damage assestment is final, but current costs may confinue to change as contracts are awarded and payment invoices are issued for the repair of the units.



Restauración Sistema Eléctrico - Impacto Huracán Fiona





October 6, 2022

To: Puerto Rico Energy BureauWorld Plaza Building
268 Munoz Rivera Ave,
San Juan, PR 00918

Re: Risk Assessment of the Puerto Rico Electric Grid Following Hurricane Fiona

To the Honorable Energy Bureau:

As System Operator, LUMA has the responsibility to assess Resource Adequacy and to identify Generation resource deficiencies to the PREB and to the Administrator.¹ In the immediate aftermath of Hurricane Fiona, the Puerto Rico electric grid is now operating in a condition of heightened risk of load shed which is expected to continue for several months. As identified initially in the Emergency Event Update provided on September 25, 2022, the following paragraphs briefly describe this increased risk and potential mitigation steps that PREB and the P3A Administrator to consider.

Storm damage to the electric generating facilities in Puerto Rico from Hurricane Fiona has pushed the grid to a high probability of load shed events.

Storm damage is of two types:

- 1. Known and observed, such as observed physical damage to the LNG handling facilities at EcoElectrica
- 2. Increased probability of failure from damages that cannot be fully assessed until plants are taken offline for inspection but are known, as evidenced by continued operating challenges / trips at units that have been successfully restarted. Examples include the trip of Costa Sur 6 on September 29, 2022, the controlled shut down of Palo Seco 3 and San Juan 6 on October 1 and 2, 2022 and more recently the trip of Costa Sur units 5 and 6 on October 6, 2022.



¹ Under the Puerto Rico Transmission and Distribution Operation and Maintenance Agreement (OMA) between the Puerto Rico Electric Power Authority (PREPA), the Public Private Partnerships Authority (P3 Authority), LUMA Energy, LLC and LUMA Energy ServCo (collectively, LUMA) effective June 21, 2020 (T&D OMA), LUMA carries out multiple activities as System Operator. Section 5.13 (d) of the T&D OMA states that LUMA shall prepare risk assessments and analyses in support of Resource Adequacy and Generation Project or Generation Supply Contract procurement prioritization and planning.

The storm damage has dramatically increased the risk of customers experiencing load shedding events. Prior to Hurricane Fiona, customers were 88 times more likely to have a load shed event, when compared to the average mainland electric customer. They are now approximately 500 times more likely to have a load shed event (compared to the average mainland electric customer).

The Resource Adequacy report (filed on August 30, 2022, in docket NEPR-MI-2022-0002) outlines customers' risk exposure under different scenarios. The report outlines a 'base case' scenario and a scenario where one baseload unit is out for the full year. Given the impact of Hurricane Fiona, LUMA has added a third scenario where two baseload units are out for a full year. As shown in Figure 1 below, the loss of load expectations (LOLE) increase dramatically as baseload units are not available. The first scenario, in blue, assumes that all baseload units are available, the second scenario, in red, assumes one baseload unit is out for the year and the third scenario, in yellow, assumes two baseload units out for the year. LUMA estimates that post-Hurricane Fiona the electric system likely resembles between one or two baseload units being out and a LOLE around 50 days/year.

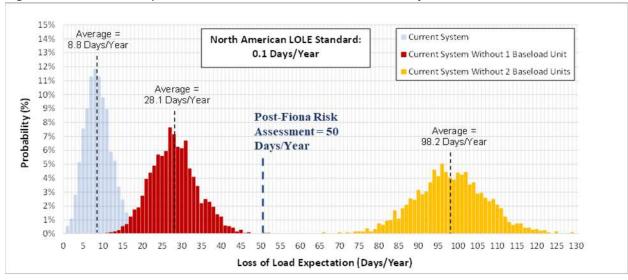


Figure 1. Loss of Load Expectations Under Different Baseload Availability Scenarios

As an example, during calendar year 2021 there were 15 days in August and September when lack of sufficient generation capacity resulted in load shed. Further, the Puerto Rico Electric system experienced 18 load shed events from January 1, 2022, to July 31, 2022, solely attributed to generation event issues. During that same period, the electric system suffered an additional 16 events attributed to generation issues, but they did not result in load shed due to interventions from the System Operator.

SITUATION BEFORE AND AFTER FIONA

Since June 2021, the electric system has operated for extended periods with at least one major generation unit offline that was not planned. This situation dramatically impacts the ability to



take other units offline to perform overdue planned maintenance, pushes outages for planned maintenance into the peak summer months, and increase the number of forced outages on available units. It also requires the system to utilize peaking units to a higher dispatch level, increasing CO₂ emissions and the cost of generation for the customers.

For most of calendar year 2022, the entire PREPA generation portfolio has operated with approximately 52% availability. This situation is even worse than the assumptions used in the Resource Adequacy report, which is based upon planned outage schedules and derates provided by the generator. As an example, on September 16, 2022, prior to the arrival of Hurricane Fiona, the electric system was experiencing two base load unit outages with the extended outage of Aguirre unit 1 and unplanned outage of Palo Seco unit 4.

With these low levels of availability, the reserves during peak hours have been 200 MW on average. These levels are in violation of the System Operating Principles and prudent utility practices which have defined a required reserve margin of 750 MW. After the passage of Hurricane Fiona, the generation fleet suffered damages and as of October 3, 2022, the availability has been trending closer to 49% with some major units still yet to return to service. Further, in the morning of October 6, 2022, the availability rate decreased to 44% and load shed was experienced by customers following trips at Costa Sur units 5 and 6. This situation will remain highly uncertain as complete damage assessments of the generation units have not yet been completed on those units that were brought back online after Hurricane Fiona. This uncertainty increases the risk of load shed for customers.

Furthermore, typically EcoElectrica is available at full capacity. However now, as mentioned above, EcoElectrica suffered damage on its refueling line and with the current stored natural gas fuel levels, it is expected that the units can only be in operation until October 13, 2022, depending on utilization. EcoElectrica's current estimates expect the work on the refueling line to be completed by October 14, 2022, and the next fuel delivery is expected on October 26, 2022. EcoElectrica's fuel shortage is expected to increase the risk of load shed, deprive the system of reliable generation and frequency regulation, and increase costs and emissions of the generation portfolio.

Without any intervention, a Puerto Rican customer is expected to incur on average 10-12 load shed events in the next three months as a direct result of Hurricane Fiona damage to the existing generation assets.

The Value of Loss Load (VOLL) is the generally recognized metric to assign the economic cost to consumers from load shed events. The 2017 IRP used an industry consensus approach to estimate the VOLL in Puerto Rico as \$57,488/MWh. Adjusting for inflation and using an average load shed event size in Puerto Rico of 200 MW, this results in an average VOLL per load shed event of \$14 million. This will result in an economic cost to Puerto Rican customers of \$140 million - \$168 million for next 90 days or approximately \$700 million in the coming year unless



the generation shortfall is addressed. In addition to the direct economic cost of load shed, the related fragility in the power portfolio will increase the reliance on old, inefficient diesel peakers which will increase fuel costs and CO₂ emissions by approximately 7 to 9%.

MITIGATION STRATEGIES

Mitigation strategies should be employed to reduce the economic cost to Puerto Rican customers.

At this time, LUMA has investigated the limited number of alternatives to mitigate existing risks and can provide the Energy Bureau will additional detail as required. LUMA has reviewed floating and on land generation options. Barge mounted units have greater flexibility in location and could be interconnected to the existing grid at locations where current generation facilities exist. Other land-based options are available, which could be either mobile or semi-permanent, and can be procured with sale or lease options. Locations have been preliminarily assessed, but a full assessment will be required. Land-based generation options have limited fuel delivery access and so a southern location on the water is likely a stronger candidate.

LUMA suggests that the Energy Bureau immediately explore emergency generation options. LUMA can support through interconnection studies to identify feasible locations for emergency generation interconnections.

SUMMARY

In summary, the damages from Hurricane Fiona have put the electric grid in Puerto Rico at a significantly increased risk of incurring multiple load shed events in the coming weeks, months and years if nothing is done. This will have a significant impact beyond the electric grid. This will have a real and significant effect on the economy as residents and businesses start to build back from Hurricane Fiona. Their speed of recovery will be negatively impacted as will other economic drivers of the economy including, manufacturing processes, inventory and the quality of health care.

While LUMA continues to act with urgency to restore the grid as safely and efficiently as possible, it urges the Energy Bureau to explore generation capacity increases for the near-and-medium term to benefit the people of Puerto Rico.

Sincerely,

Ashley Engbloom

A Engbloom

Vice President, Regulatory



NEPR

Received:

Oct 11, 2022

7:17 PM

COMMONWEALTH OF PUERTO RICO PUBLIC SERVICE REGULATORY BOARD PUERTO RICO ENERGY BUREAU

IN RE: LUMA'S RESPONSE TO HURRICANE FIONA **CASE NO. NEPR-MI-2022-0003**

SUBJECT: Presentation Offered in Technical Conference of October 11, 2022

MOTION SUBMITTING PRESENTATION OFFERED IN TECHNICAL CONFERENCE OF OCTOBER 11, 2022

TO THE HONORABLE PUERTO RICO ENERGY BUREAU:

COME NOW LUMA Energy, LLC ("ManagementCo"), and LUMA Energy ServCo, LLC ("ServCo"), (jointly referred to as "LUMA"), and respectfully state the following:

- 1. In a Resolution and Order of October 7, 2022 ("October 7th Order") with the subject "Baseload Generation Dispatch Status-Post Hurricane Fiona," this honorable Puerto Rico Energy Bureau ("Energy Bureau") convened a Technical Conference to discuss concerns raised by LUMA in a letter dated October 6, 2022 regarding Resource Adequacy and potential Generation resource deficiencies following Hurricane Fiona. Per the October 7th Order, the topics to be discussed at the Technical Conference were "Dispatch Status of the available Baseload Generation post Hurricane Fiona and (ii) the identified temporary emergency mitigation measures thought to address the generation deficiencies arising from Hurricane Fiona."
- 2. The Technical Conference was held as scheduled on October 11, 2022. With leave from this Energy Bureau, LUMA representatives offered a presentation on generation inadequacy concerns. As requested verbally by the Energy Bureau, LUMA hereby submits an

electronic copy in pdf format, of the presentation that was offered and projected during the Technical Conference. *See* Exhibit 1.

WHEREFORE, LUMA respectfully requests that the honorable Bureau **take notice** of the aforementioned and **accept** the pdf copy of the presentation offered by LUMA during the Technical Conference of October 11, 2022.

RESPECTFULLY SUBMITTED.

In San Juan, Puerto Rico, this 11th day of October, 2022.

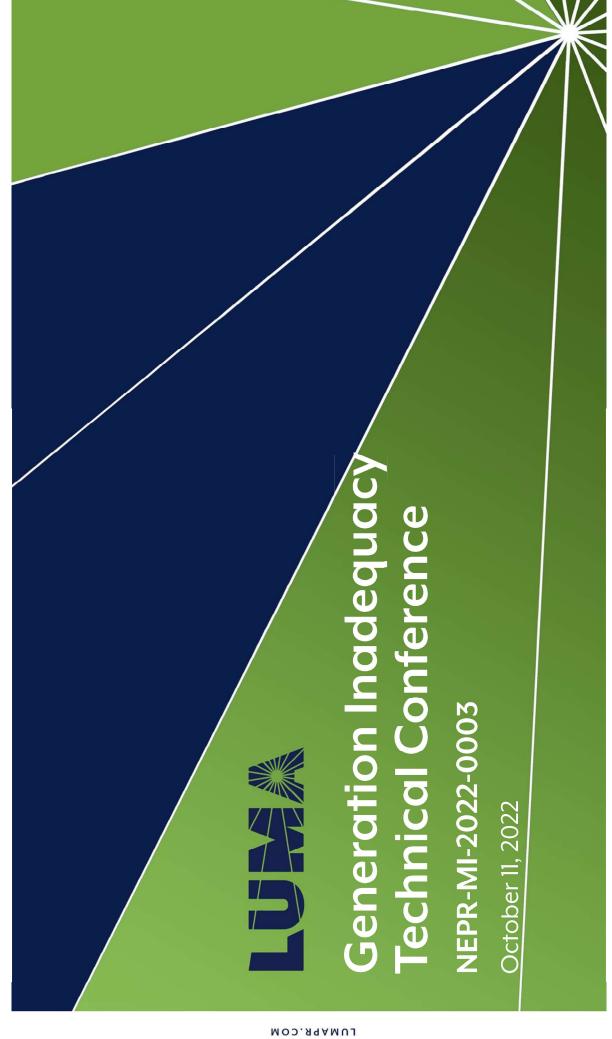


DLA Piper (Puerto Rico) LLC 500 Calle de la Tanca, Suite 401 San Juan, PR 00901-1969 Tel. 787-945-9107 Fax 939-697-6147

/s/ Margarita Mercado Echegaray Margarita Mercado Echegaray RUA NÚM. 16,266 margarita.mercado@us.dlapiper.com

Exhibit 1

Presentation Generation Inadequacy Technical Conference



Executive Summary

- Government Agencies of the risks from the Power Generation portfolio to Resource Adequacy and LUMA's ability to • As System Operator, LUMA is performing its obligation under the OMA to inform PREB and relevant Puerto Rican provide safe, reliable, and affordable energy to the people of Puerto Rico
- Prior to Hurricane Fiona, the existing power generation portfolio did not meet Prudent Utility Practices and has inadequate generation resources and excessive risk of generation shortfalls
- As a separate and new additional factor, several plants (e.g. AG2, SJ5, EcoElectrica, etc.) suffered direct damages from Hurricane Fiona. The generators are taking steps to return these units to previous availability levels, but the long-term impact from Fiona on these plants will not be fully understood for several weeks or months
- Furthermore, planned maintenance, scheduled for October and the fall has been postponed, creating a build up of maintenance required with an already very tight schedule in order to complete maintenance in advance of next
- Due to these impacts, the potential risk of load shed due to generation shortfall has increased as a direct result of
- LUMA is recommending a Generation Risk Mitigation Plan to be implemented to protect against the risk of significant deterioration in generator availability over the next several months.

Generation Risk Mitigation Actions Required

Urgent and immediate action is required. Recommendations:

- stabilize the generation for the next 12-18 months (look to utilize FEMA funding), to mitigate risk of load shed events and provide breathing room to complete repairs on existing fleet, options included (among others): Government to initiate the sourcing of emergency portable generation (300-500 MW) immediately to
- a. Power Barge
- b. Mobile peaking units
- emergency portable generation in 12-18 months, complete in coordination with FEMA, considerations include: Conduct an emergency assessment of additional generation (300-500 MW) options to replace the
- a. PREPA project proposals
- 5. New generation options
- c. Utility Scale Batteries
- d. Demand Side Management
- Continue with a review and update of the IRP in line with current timelines 8

Dispatch Status of the Available Baseload Generation Post- Hurricane Fiona

Current Status of Baseload Generation

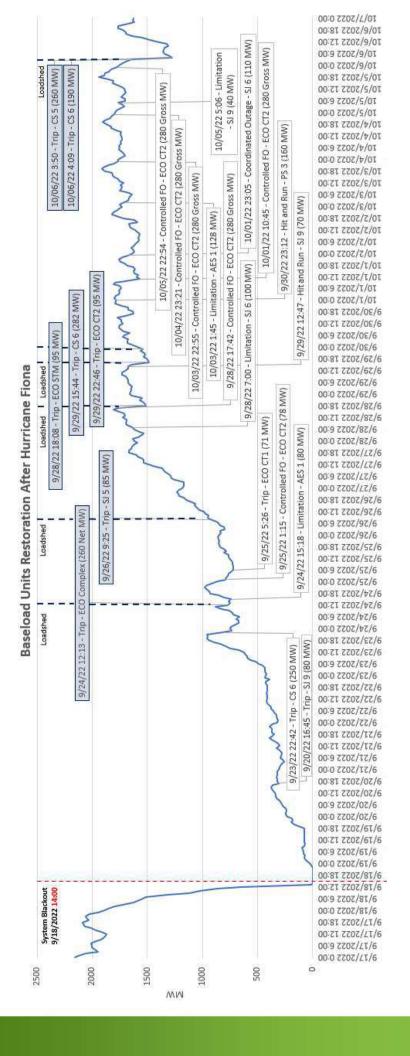
In a note from PREPA, they have identified:

'Hurricane Fiona negatively impacted the already-compromised reliability and availability of Aguirre 2, San Juan Steam 5, forced outage last week in the Costa Sur Steam Plant. Unit CS6 was back online the same day, but CS5 suffered problems Aguirre 2 is expected to be online ending this week; SJ5 is expected to be in service December 21 2022. Also, PREPA had a Aguirre 1. Fiona caused outages, and to maintain minimum reserve in the system PREPA modified its outage programs. with the motor driver boiler feed pump. CS5 best-case forecast next week (October 17-October 20).

PREPA postponed maintenance for SI6 -combustion inspection- from October 2022 to December 2022, postponed CS5 major outage from October 2022 to January 2023 and postponed PS3 mayor outage from December 2022 to March

- times since the original October 2, 2022, return to service date). Similar delays to return to service dates have occurred with instance, today an additional issue at Aguirre 2 was identified, delaying the return to service (it has been delayed multiple PREPA has identified timelines for each unit to return to service, however additionally issues continue to be identified. For SJ5, PS4, Costa Sur 5 and Yabucoa. This shows the increased uncertainty of the generation availability forecast and the increased risk to the electric system
- Taking into account the damages from Hurricane Fiona, preliminary estimates are that the Loss of Load Event (LOLE) probability has increased from approximately 8.8 events per year, to as high as 50 events per year under worse case scenario (compared to 0.1 events per year recognized as industry planning standard)

Significant Number of Generation Events During Restoration Period



Dispatch Status of the available Baseload Generation post-Hurricane Fiona

FIND	29-Sep	30-Sep	1-Oct	2-0ct	3-0ct	4-0ct	5-0ct	6-Oct	7-Oct	8-Oct	9-Oct
AG-1	0	0	0	0	0	0	0	0	0	0	0
AG-2*	0	0	0	0	0	0	0	0	0	0	0
CS-5	305	305	305	305	320	320	320	0	0	0	0
CS-6	290	300	300	300	320	320	320	0	200	320	300
PS-3	190	190	0	190	190	190	190	200	200	200	200
PS-4	0	0	0	0	0	0	0	0	0	0	0
SJ-7	09	65	65	9	89	89	89	89	89	89	89
6-lS	06	06	90	06	06	06	90	06	06	90	90
SJCC-CT-5	140	140	140	140	140	140	140	140	140	140	140
SJCC-STG-5*	0	0	0	0	0	0	0	0	0	0	0
SJCC-CT-6	120	120	120	0	140	140	140	140	140	140	140
SJCC-STG-6	0	0	0	0	0	0	0	0	0	0	0
ECO-STG**	100	100	100	100	100	100	100	200	200	100	100
ECO-CT-1**	165	165	165	165	165	165	165	165	165	165	165
ECO-CT-2**	0	0	0	0	0	0	0	165	165	0	0
AES-1	251	254	253	251	196	234	230	165	244	243	244
AES-2	231	238	252	248	254	231	224	165	242	243	245

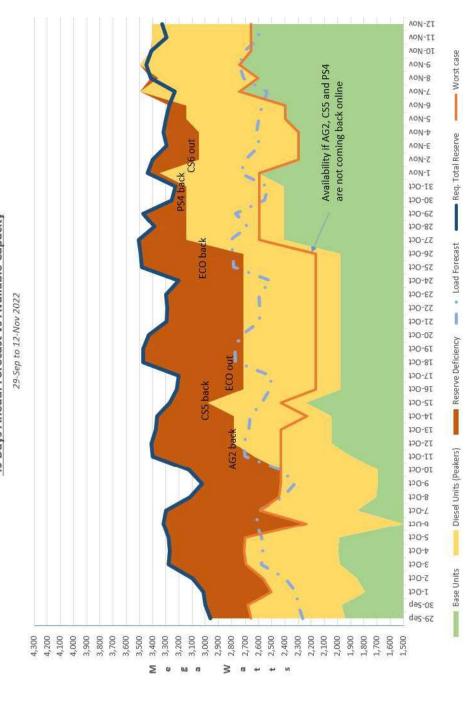
^{*} Units sustained damaged during Fiona

^{**} Plant fuel line sustained damaged during Fiona. Unit CT2 is utilize only when required to extend LNG reserves.

Mitigation Measures Thought to Address the Generation Deficiencies Arising from **Identified Temporary Emergency Hurricane Fiona**

Load Forecast and Forecasted Generation Availability in the Near-Term



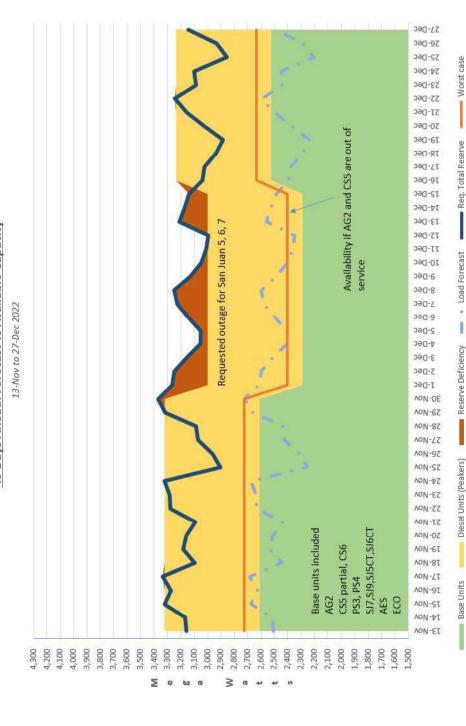


Risk mitigation for Near Term (until end of October)

- EcoElectrica LNG situation
- Minimize the utilization of EcoElectrica CT2 to extend the reserves of LNG
- EcoElectrica testing and attempting to utilize CT2 in Diesel
- LNG reserves Expected to last until October 15 to 16
- LNG refuel line on target for repairs to be completed by October 15th
- Next LNG delivery schedule for October 26th. Attempts are being made by PREPA to accelerate LNG delivery
- PREPA performing repairs on units:
- Aguirre 2, expected Oct 11 with limitations
- Costa Sur 5, expected Oct 15 with limitations
- Palo Seco 4, expected Oct 31
- Aguirre 1, expected end of year or early next year
- San Juan 5 ST, San Juan 6 ST expected mid-December
- Managing peaking unit's utilization and fuel availability closely with PREPA

Load Forecast and Forecasted Generation Availability in the Short Term





Risk Mitigation for Short-Term (end of 2022)

- As we enter the fall and winter, the demand is naturally going down and helping mitigate the risk of generation deficit
- In coordination with the generators, accommodate requested outages to performs planned repairs on units. PREPA has identified units that will need planned outages during November are SJ9, SJ5, CS6
- If enough generation is available, restart the behind schedule planned maintenance of the units starting on December 1st with San Juan 5 and San Juan 6
- Continue managing peaking unit's utilization and fuel availability closely with PREPA

Medium to Long Term Mitigation Strategies

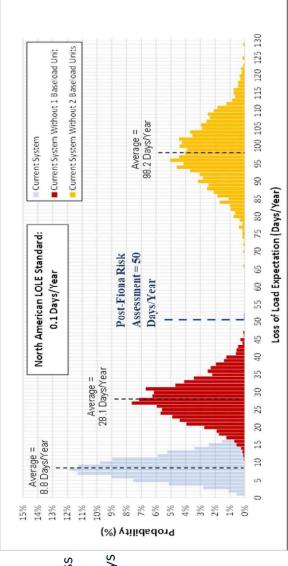
Post-2022 Resource Adequacy Risks

- For several reasons including the advanced age and poor condition of existing generators, the projected availability and capability of existing generators is consistently and significantly worse than forecast by those generators
- It is not prudent to take generator availability forecasts as future availability, and these must be statistically adjusted for known tendencies
- Planned outage durations last approximately 50% longer than scheduled
- Forced Outage rates average approximately 13% for PREPA and 2% and 3% for **AES and Ecoelectrica**
- Plant de-rates change rapidly and very frequently (reduced output capacity)
- sufficiently high, that a risk mitigation plan with identified contingencies is justified On a probabilistic, risk-adjusted basis, the Loss of Load Expectation (LOLE) is

Medium to Long Term Impact on Risks of Load Shedding Events

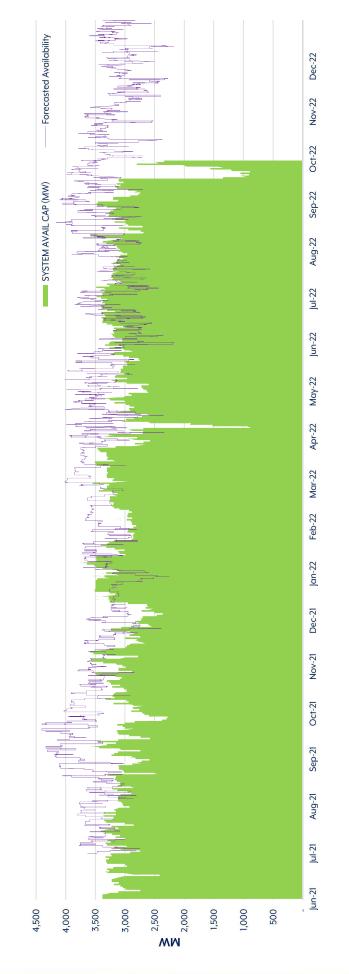
If a baseload plant incurred damages following Fiona and suffered an extended outage of a few weeks or a few months, it would significantly increase the potential for load shed events

- A preliminary analysis based upon Resource Adequacy report data and methodology suggests the expected Loss of Load Event (LOLE) probability could have increased from approximately 28 days per year to as high as 98 days per year. Currently estimated as 50 days per year for planning purposes
- Preliminary damage assessments from the generators received October 10th suggest plants (SJ5, AG2 and EcoElectrica) incurred some damage but exact extent is still undetermined until plants can conduct detailed assessments
- A scenario where a baseload unit is out for a 4-6
 week outage, or longer is considered a reasonable risk to
 plan for



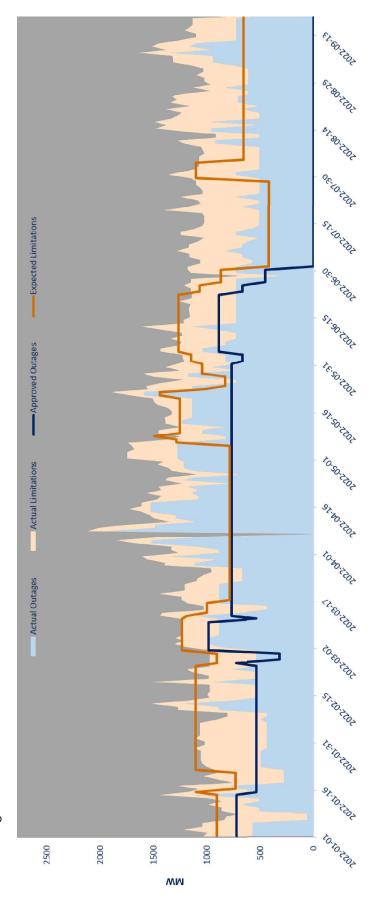
Hourly PREPA Thermal Availability Forecast vs. Actual

Forecast vs Actual Thermal Availability



PREPA Expected Capacity Reduction (in MW) vs Actual Capacity Reduction

- This graph compares the expected capacity reduction based on the Approved Outages included in the Generation Outage Schedule updated quarterly with the actual capacity reduction caused by Actual Outages and Limitations.
 - Date Range shown is 1/1/2022 to 9/18/2022



Data shown corresponds to in-service baseload units. This data does not consider the following units: 5] 8, 5] 10, PS 1, PS 2, CS 3, and CS 4.

Emergency mitigation options to address the generation deficiencies arising from Hurricane Fiona

Barge Mounted Generation

Recent phone calls identify two barge units in the Caribbean market:

- EDMII, a 106 MW Wartsila dual fuel (oil and gas). Cost is approximately \$85M plus another \$10M in spares
- Rigel I a 48 MW turbine power barge that is currently configured for distillates but can reconfigure for HFO or gas and costs an estimated \$12M including spares.
- Both units could be effectively put to work in Puerto Rico with EDMII as baseload and Rigel I is a as peak and emergency plant.

Land Based, Mobile Generation

Renewable Internal Combustion Engine (RICE)

- Can be renewable if utilizing biodiesel (generally tri-fuel capable)
- Modular, ~20 MW gen-set blocks leads to more efficient dispatch
- 152 MW were emergency delivered to Bahamas in 9 months in 2019

Combustion Turbines

- GE has ~10 TM2500 units in Jacinto Point Texas; Grey market model: never sold, never used
- Approximately 10 days to ship, 11 days to install
- Approximately \$18 mil each (~30MW)

New Capacity Construction

New capacity could increase reserves and remove the risk of load shed

Solicitation and RFP management would need to be managed by PREB or P3A per the OMA; RFP would define decision evaluative criteria for selection of preferred alternatives

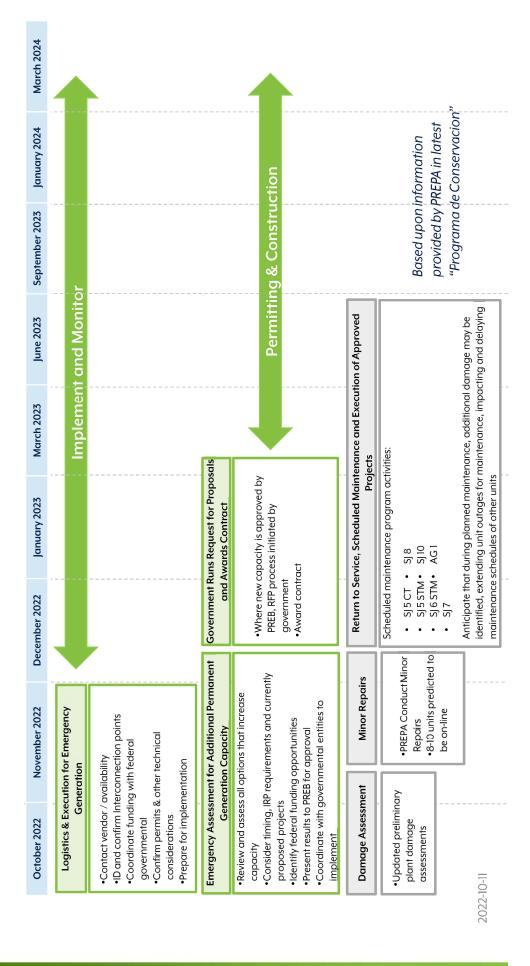
• Cost / Technology / Fuel / Environmental / Timing / Location Options for construction of new capacity could be weighed against modification or conversion opportunities that have been proposed by PREPA and received recent resolution and order by PREB

Rental

Rental/CAPEX

APFX

Potential Path Forward



Demand Response Mitigation Actions

- LUMA submitted a program plan for Large Commercial and Industrial Emergency Demand Response Program in the June 2022 Transition Period Plan
- This program will incentive customers to reduce load of shift load to back-up generation during emergency events
- It is expected that this program could enroll up to 20 MW of emergency demand response capacity during the first year of operation as these programs take time to develop, recruit customers and scale up
- LUMA is currently in the process of procuring a contract with an Energy Efficiency and Demand Response Program Implementation Contractor to develop the program
- Emergency DR program along the other EE and DR programs in LUMA's Transition Period Once the Implementation Contractor is onboard, they will begin recruiting for the C&I
- Timeline could be accelerated, and enrollment could increase with additional funding

Conclusion

- Government Agencies of the risks from the Power Generation portfolio to Resource Adequacy and LUMA's ability to • As System Operator, LUMA is performing its obligation under the OMA to inform PREB and relevant Puerto Rican provide safe, reliable, and affordable energy to the people of Puerto Rico
- Prior to Hurricane Fiona, the existing power generation portfolio did not meet Prudent Utility Practices and has inadequate generation resources and excessive risk of generation shortfalls
- As a separate and new additional factor, several plants (e.g. AG2, SJ5, EcoElectrica, etc.) suffered direct damages from Hurricane Fiona. The generators are taking steps to return these units to previous availability levels, but the long-term impact from Fiona on these plants will not be fully understood for several weeks or months
- Furthermore, planned maintenance, scheduled for October and the fall has been postponed, creating a build up of maintenance required with an already very tight schedule in order to complete maintenance in advance of next
- Due to these impacts, the potential risk of load shed due to generation shortfall has increased as a direct result of
- LUMA is recommending a Generation Risk Mitigation Plan to be implemented to protect against the risk of significant deterioration in generator availability over the next several months.

NEPR

Received:

Oct 31, 2022

6:04 PM

COMMONWEALTH OF PUERTO RICO PUBLIC SERVICE REGULATORY BOARD PUERTO RICO ENERGY BUREAU

IN RE: LUMA'S RESPONSE TO HURRICANE FIONA **CASE NO. NEPR-MI-2022-0003**

SUBJECT: Submission of Update on Stabilization Plan

MOTION SUBMITTING UPDATE ON STABILIZATION PLAN TO THE HONORABLE PUERTO RICO ENERGY BUREAU:

COME NOW LUMA Energy, LLC ("ManagementCo"), and LUMA Energy ServCo, LLC ("ServCo"), (jointly referred to as "LUMA"), and respectfully state the following:

- 1. In a Resolution and Order of October 7, 2022 ("October 7th Order") with the subject "Baseload Generation Dispatch Status-Post Hurricane Fiona," this honorable Puerto Rico Energy Bureau ("Energy Bureau") convened a Technical Conference to discuss concerns raised by LUMA in a letter dated October 6, 2022 regarding Resource Adequacy and potential Generation resource deficiencies following Hurricane Fiona. Per the October 7th Order, the topics to be discussed at the Technical Conference were "Dispatch Status of the available Baseload Generation post Hurricane Fiona and (ii) the identified temporary emergency mitigation measures thought to address the generation deficiencies arising from Hurricane Fiona."
- 2. The Technical Conference was held as scheduled on October 11, 2022. During the Technical Conference, the Energy Bureau and consultants for the Energy Bureau posed questions to LUMA's representatives.
- 3. On October 11, 2022, LUMA filed a *Motion Submitting Presentation Offered in Technical Conference of October 11, 2022* whereby it included as *Exhibit 1* the presentation it

offered during the October 11th Technical Conference in compliance with a request by this Energy Bureau.

- 4. On October 12, 2022, the Energy Bureau entered a Resolution and Order whereby it ordered LUMA to develop a stabilization plan as a direct response to Hurricane Fiona, in coordination with the Federal Emergency Management Agency ("FEMA") and the Puerto Rico Electric Power Authority ("PREPA") "to address any baseload generation inadequacy or shortfall that affects the dispatch availability and has the potential to cause load shedding or a blackout event of the electric system ("Stabilization Plan")" ("October 12th Order").
- 5. Per the October 12th Order, LUMA was directed to submit the 1st and the 15th day of each month from the notice of the Order, an updated report addressing the efforts conducted by LUMA to assure the completion of the Stabilization Plan. As per the October 12th Order, therefore, the first of such reports is due on November 1, 2022.
- 6. On October 27th, 2022, the Energy Bureau issued a Resolution and Order whereby it set a technical conference for November 1, 2022 ("October 27th Order) in connection with the first update on the Stabilization Plan. The Energy Bureau stated that it is particularly interested in "learning about the (1) U.S. Army Corps of Engineers ("USACE") Generation Assessment underway, (2) Emergency Temporary Generation under a potential FEMA Public Assistance Emergency assignment that can expeditiously mitigate the impact of Hurricane Fiona, and (3) Replacement of Emergency Temporary Generation that seeks to phase out the temporary generation with permanent capacity, noting that this permanent capacity is consistent with the approved Integrated Resource Plan ("IRP")." *See* October 27th Order at page 1.
- 7. In compliance with the October 12th Order, LUMA hereby submits the first update on the Stabilization Plan. *See* Exhibit 1. The update includes, among others, a statement of the

objectives of the Stabilization Plan, information on coordination with PREPA and FEMA, FEMA's efforts through the Power Stabilization Task Force, reference to LUMA's recent activities, and LUMA's risk analyses.

WHEREFORE, LUMA respectfully requests that the honorable Bureau take notice of the aforementioned, accept Exhibit 1 to this Motion, and deem that LUMA complied with that portion of the October 12th Order that requires submission of an update report on the Stabilization Plan.

RESPECTFULLY SUBMITTED.

In San Juan, Puerto Rico, this 31st day of October, 2022.

I hereby certify that this motion was filed using the electronic filing system of this Energy Bureau. I also certify that copy of this motion will be notified to the Puerto Rico Electric Power Authority, through its attorneys of record: jmarrero@diazvaz.law and kbolanos@diazvaz.law.



DLA Piper (Puerto Rico) LLC 500 Calle de la Tanca, Suite 401 San Juan, PR 00901-1969 Tel. 787-945-9107 Fax 939-697-6147

/s/ Margarita Mercado Echegaray Margarita Mercado Echegaray RUA NÚM. 16,266 margarita.mercado@us.dlapiper.com

Exhibit 1





Agenda

Background

Generation Stabilization Plan Schedule
Current System Status
Ongoing Stakeholder Coordination
Risk Analysis
Next Steps

Background

August 30, 2022	LUMA submits Resource Adequacy Study for FY2023
September 18, 2022	Hurricane Fiona makes landfall in Puerto Rico
October 6, 2022	 LUMA sends a letter to the Energy Bureau: Significant concerns with generation availability post-Hurricane Fiona Significant impact to customers if mitigation measures are not deployed
October 11, 2022	Energy Bureau Technical Conference on Generation Dependability Issues
October 12, 2022	PREB Resolution & Order directs LUMA to file bi-monthly updates on 1st and 15th day of every month



Objectives of Generation Stabilization Plan

- and has the potential to cause load shedding or a blackout event; provide logistical 1. Coordinate with FEMA and PREPA and other generators to address on a short-term basis any generation inadequacy or shortfall that affects the dispatch availability or pre-deployment support needed as System Operator
- 2. Review estimated total costs and potential FEMA funding
- 3. Support Energy Bureau and identified Puerto Rican Government agencies with data and analysis as appropriate as System Operator

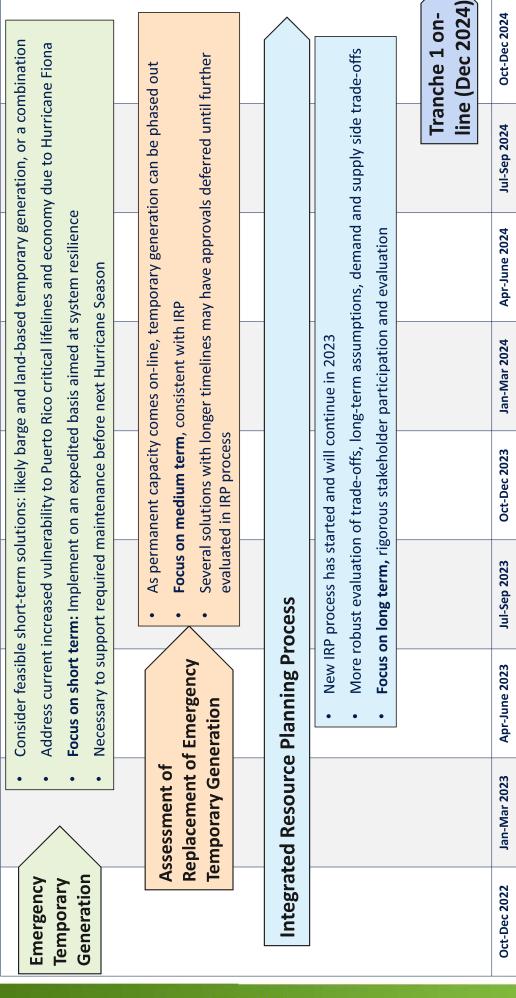


LUMA's Role

- LUMA does not own or operate generation;
- coordinate and cooperate with FEMA and Puerto Rico agencies to provide data As System Operator and operator of Transmission and Distribution, LUMA will and analysis on system needs and options for emergency power
- LUMA will provide electrical system and resource planning
- LUMA will develop analysis for Energy Bureau and others to support decision
- LUMA will coordinate efforts with generators, including maintenance schedules

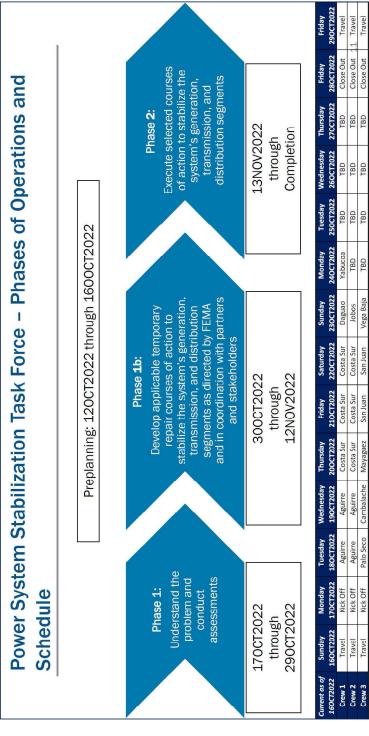


Near-Term Focus on Temporary Emergency Generation



FEMA launched a Power Stabilization Task Force

As provided by FEMA, below is the Power System Stabilization Task Force Phases and Schedule



November 1, 2022

NEPR-MI-2022-0003

FEMA Task Force focus: repair generation to allow system to meet customer needs and make system more secure

As provided by FEMA, below is the purpose, intent and desired end-state for the Puerto Rico Power System Stabilization Task Force

system stabilization in Puerto Rico due to impacts caused by The Puerto Rico Power System Stabilization Task Force shall plan, coordinate, and integrate efforts to execute power Purpose

Hurricane Fiona.

generation facilities in order to stabilize the PR power system consider the interconnectedness and interdependencies of Stabilization Task Force should be on temporary repair of the whole system including generation, transmission, and after Hurricane Fiona, however, the Task Force must also The primary focus of the Puerto Rico Power System

> LEADER'S SENIOR

NTENT

maintain enough power and reserve to meet the needs of its Stabilization: The Puerto Rico power system's ability to

customers.

DESIRED

distribution, as well as the supply chain.

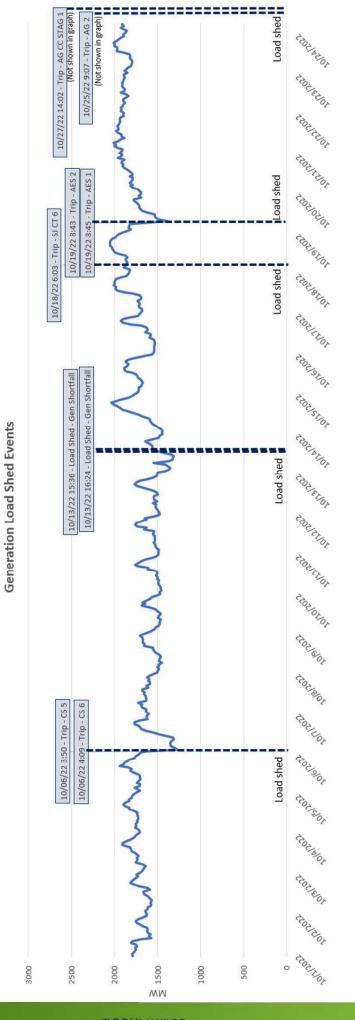
END State

completion of emergency repairs to make the facilities more secure and stable and unlikely to change, fail, or decline. Moreover, the resulting conditions should include the

> NEPR-MI-2022-0003 November 1, 2022

Multiple generation events since October 1st*

Six days with generation driven load shed events occurred in the four weeks of October

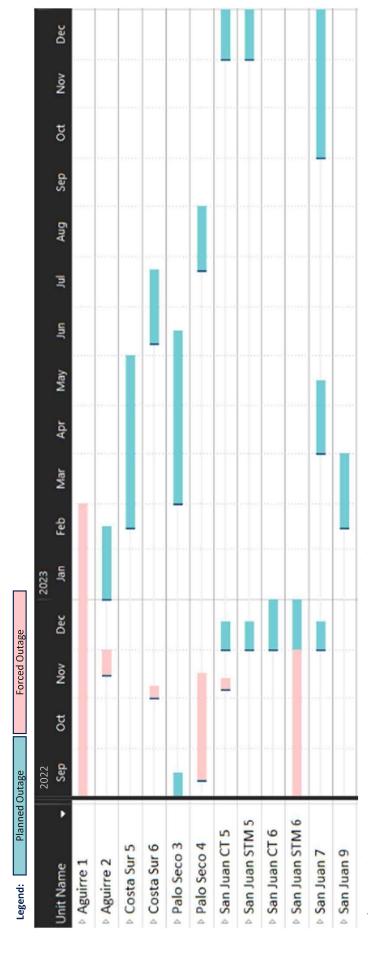




November 1, 2022 NEPR-MI-2022-0003

*October 1, 2022 was date that 90% of Customers restored

Current Planned Outage Projections PREPA Baseload Units



^{*}Based on generation outage schedule provided by PREPA on October 28, 2022.



Stakeholder Coordination and Recent LUMA Activities

PREPA

- Coordination focused on updated outage schedules
- Will continue as plant damage assessments better understood

FEMA

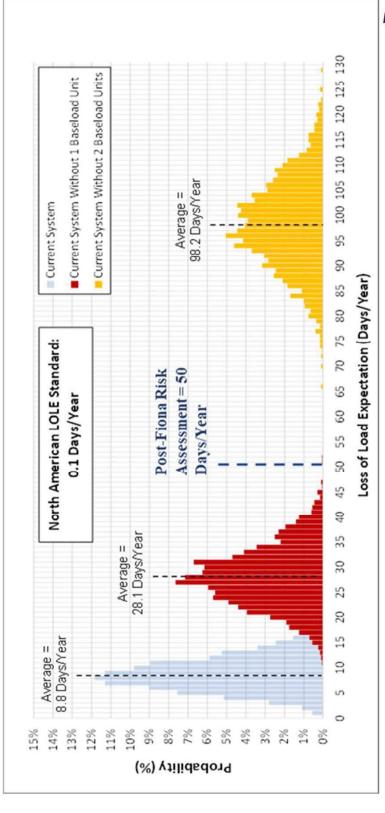
- FEMA kick-off meeting with LUMA, PREPA, and Puerto Rican and federal agencies conducted on Monday, October 17, 2022
- Providing data and analysis to FEMA Task Force

IJMA

- Emergency Demand Response Program
- Federal funding analysis and coordination
- Risk, Resource Planning and Scenario Analysis

Risk Analysis – Initial Assessment Fiona Impacts

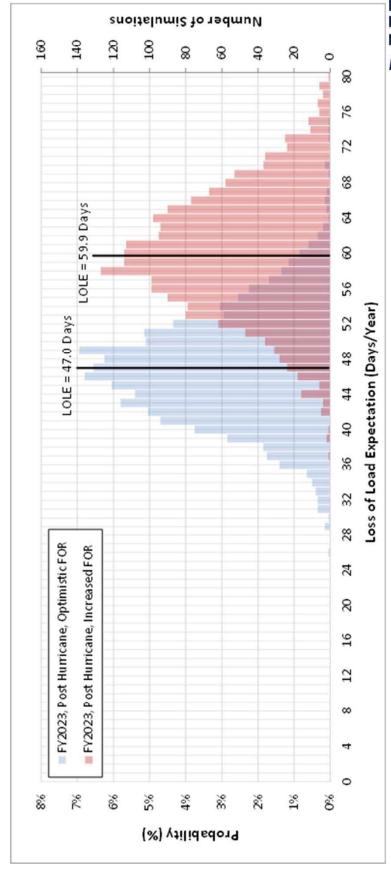
October 6th letter identified the risk that up to one load shed event per week was possible due to damages to generators from Fiona





Risk Analysis – Range of potential generation damage

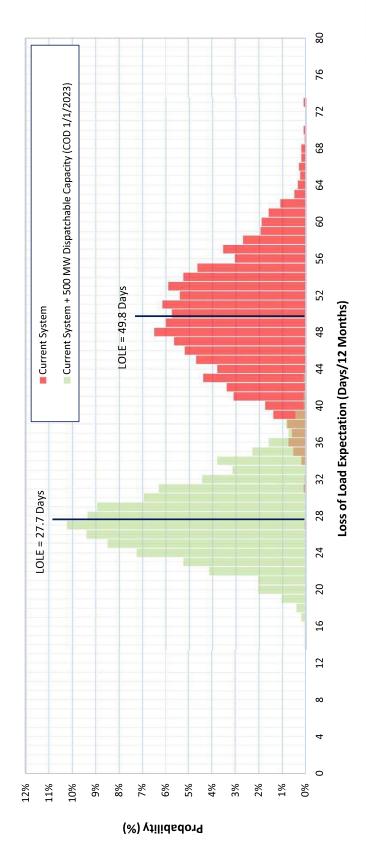
Additional risk analysis now focusing on impact to forced outage rates from Fiona damages





Risk Analysis – Impact of 500 MW of Emergency Generation

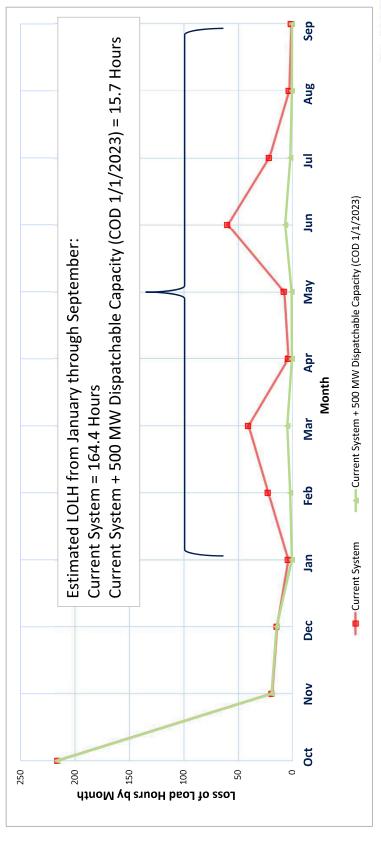
Emergency generation could significantly reduce risk of multiple load sheds





Risk Analysis – Risk Exposure Varies by Month

Risks will decline as demand is reduced in winter months but critically important to complete maintenance before summer 2023 demand increases





Next Steps

- Continue to provide bi-weekly reports to update status and address any PREB questions and concerns
- Continue coordination with stakeholders as several groups simultaneously assess risks and stabilization options
- Focus additional risk analysis after initial results from FEMA damage assessment teams



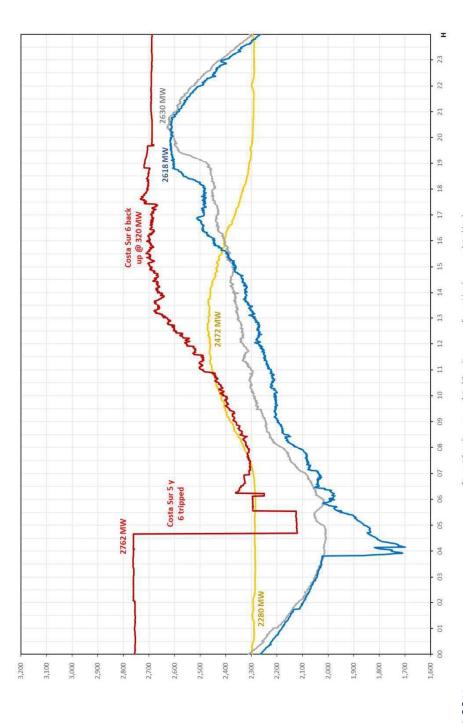


Appendix

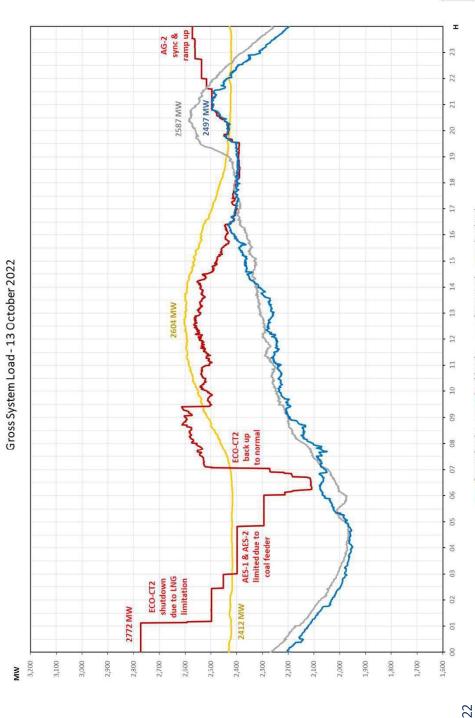
Hourly Activity During Load Shed Days



Hourly Activity During Load Shed Days – October 6, 2022

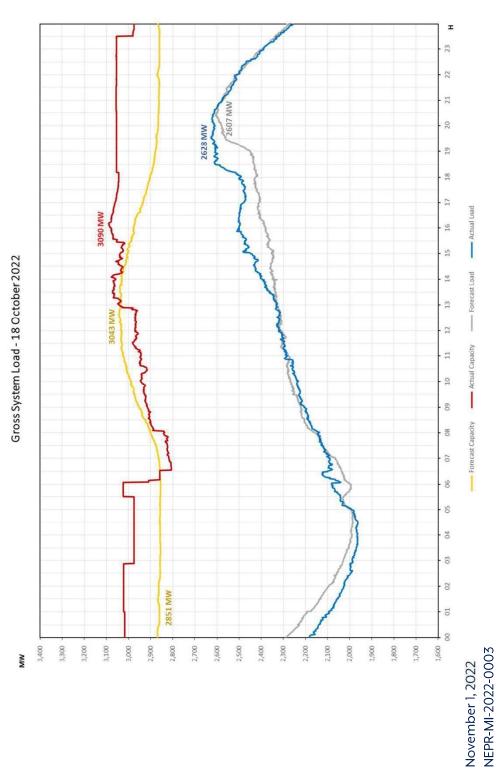


Hourly Activity During Load Shed Days - October 13, 2022

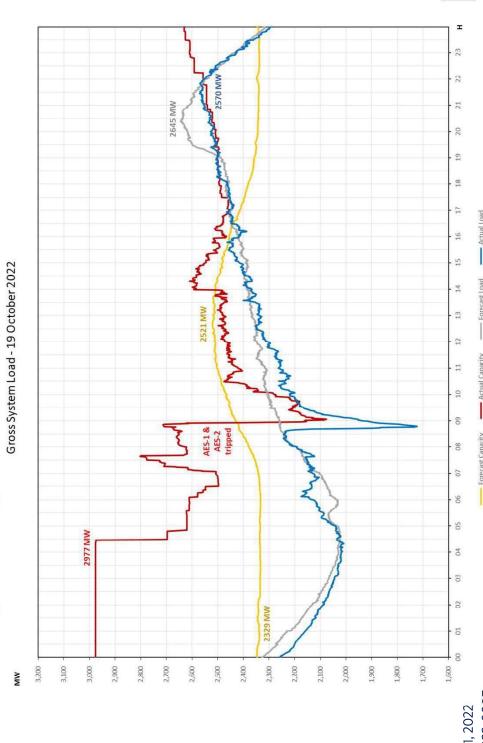




Hourly Activity During Load Shed Days – October 18, 2022

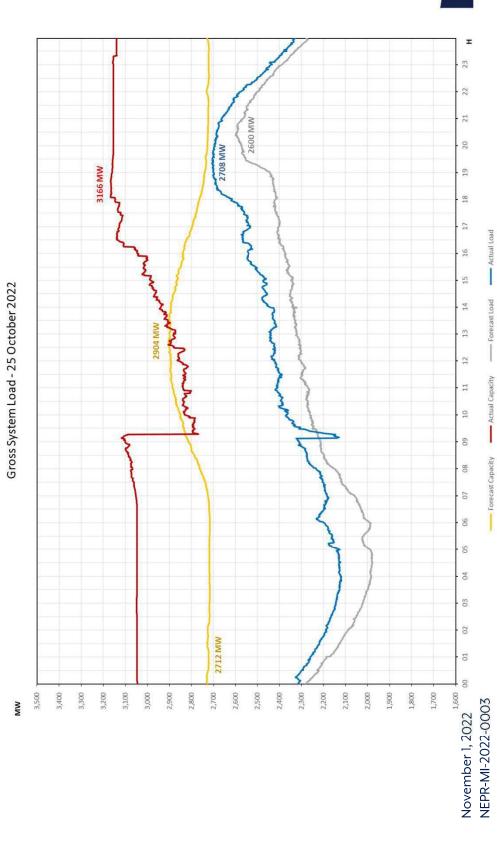


Hourly Activity During Load Shed Days – October 19, 2022



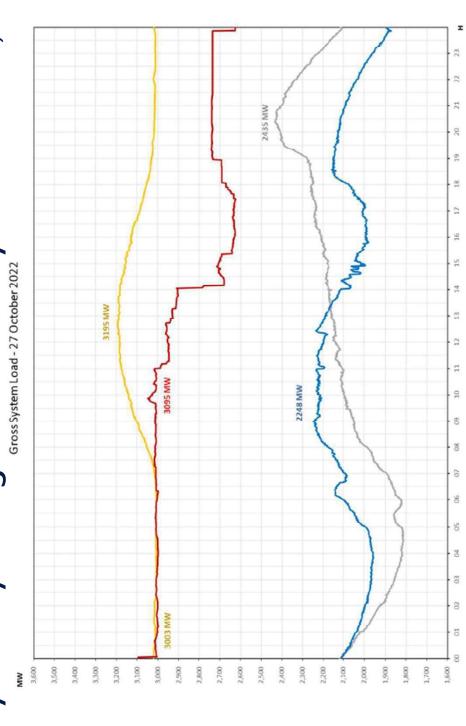


Hourly Activity During Load Shed Days – October 25, 2022





Hourly Activity During Load Shed Days – October 27, 2022



NEPR

Received:

Jan 17, 2023

5:34 PM

COMMONWEALTH OF PUERTO RICO PUBLIC SERVICE REGULATORY BOARD PUERTO RICO ENERGY BUREAU

IN RE: LUMA'S RESPONSE TO HURRICANE FIONA **CASE NO. NEPR-MI-2022-0003**

SUBJECT: Fifth Update on Stabilization Plan

FIFTH UPDATE ON STABILIZATION PLAN FOR TEMPORARY EMERGENCY GENERATION CAPACITY

TO THE HONORABLE PUERTO RICO ENERGY BUREAU:

COME NOW LUMA Energy, LLC ("ManagementCo"), and LUMA Energy ServCo, LLC ("ServCo"), (jointly referred to as "LUMA"), and respectfully state the following:

- 1. In a Resolution and Order of October 7, 2022 ("October 7th Order") with the subject "Baseload Generation Dispatch Status-Post Hurricane Fiona," this honorable Puerto Rico Energy Bureau ("Energy Bureau") convened a Technical Conference to discuss concerns raised by LUMA in a letter dated October 6, 2022, regarding Resource Adequacy and potential Generation resource deficiencies following Hurricane Fiona. Per the October 7th Order, the topics to be discussed at the Technical Conference were "Dispatch Status of the available Baseload Generation post-Hurricane Fiona and (ii) the identified temporary emergency mitigation measures thought to address the generation deficiencies arising from Hurricane Fiona."¹
- 2. On October 12, 2022, the Energy Bureau entered a Resolution and Order whereby it ordered LUMA to develop a stabilization plan as a direct response to Hurricane Fiona, in coordination with the Federal Emergency Management Agency ("FEMA") and the Puerto Rico

¹ The Technical Conference was held as scheduled on October 11, 2022. During the Technical Conference, the Energy Bureau and consultants for the Energy Bureau posed questions to LUMA's representatives.

Electric Power Authority ("PREPA") "to address any baseload generation inadequacy or shortfall that affects the dispatch availability and has the potential to cause load shedding or a blackout event of the electric system ("Stabilization Plan")" ("October 12th Order").

- 3. Per the October 12th Order, LUMA was directed to submit the 1st and the 15th day of each month, from the notice of the Order, an updated report addressing the efforts conducted by LUMA to ensure the completion of the Stabilization Plan.
- 4. On October 27th, 2022, the Energy Bureau issued a Resolution and Order whereby it set a technical conference for November 1, 2022 ("October 27th Order) in connection with the first update on the Stabilization Plan. The Energy Bureau stated that it is particularly interested in "learning about the (1) U.S. Army Corps of Engineers ("USACE") Generation Assessment underway, (2) Emergency Temporary Generation under a potential FEMA Public Assistance Emergency assignment that can expeditiously mitigate the impact of Hurricane Fiona, and (3) Replacement of Emergency Temporary Generation that seeks to phase out the temporary generation with permanent capacity, noting that this permanent capacity is consistent with the approved Integrated Resource Plan ("IRP")." *See* October 27th Order at page 1. As per the October 27th Order, the Technical Conference was held as scheduled on November 1st. LUMA representatives appeared to discuss the Stabilization Plan and answered questions by this Energy Bureau.
 - 5. On October 31st, 2022, LUMA submitted the First Update on the Stabilization Plan.
- 6. On November 15, 2022, LUMA submitted a Second Update on the Stabilization Plan ("Second Update"). In addition, LUMA submitted supplemental information to the Second Update arising from a joint press conference of November 15th, 2022, where the Governor of Puerto Rico, the Hon. Pedro Pierluisi and the Federal Coordinator for the Federal Emergency

Management Agency ("FEMA"), Nancy Casper, announced that FEMA's power stabilization initiative aims to install between 600 to 700 MW of temporary emergency generation capacity through the mobilization of power generation maritime barges and temporary land-based generators. See Supplemental Submission to Second Update on Stabilization Plan to Inform of Announcement by the Puerto Rico Government and FEMA on Temporary Emergency Generation Capacity, filed on November 15, 2022.

- 7. On December 1st, 2022, LUMA submitted the Third Update on the Stabilization Plan.
- 8. On December 15th, 2022, LUMA submitted the Fourth Update on the Stabilization Plan. In addition, LUMA requested a release from the requirement to file an Update to the Stabilization Report on January 2, 2023, in consideration of the upcoming Christmas and New Year's holidays observed in Puerto Rico.
- 9. On December 21, 2022, the Energy Bureau granted LUMA's request to be released from the requirement to file an Update to the Stabilization Report on January 2nd and directed that LUMA shall file the Fifth Update on the Stabilization Plan by January 15, 2023. January 15th was a Sunday, and the 16th was a legal holiday, Martin Luther King Day. Per Section 1.09 of Regulation 8543 on Adjudicative, Notice of Non Compliance, Rate Review and Investigation Proceedings, the Fifth Update on the Stabilization Plan is due today, January 17, 2023.
- 10. In further compliance with the October 12th Order, LUMA hereby submits the Fifth Update on the Stabilization Plan ("Fifth Update"). *See* Exhibit 1 (Update of January 17, 2023). The Fifth Update includes, among others, a summary of the status of the Stabilization Plan with reference to the tasks performed in the past month in coordination with FEMA and PREPA, as

well as a summary of LUMA's internal efforts. Furthermore, the Fifth Update identifies current operational issues and concerns and provides an update on LUMA's risk analyses.

WHEREFORE, LUMA respectfully requests that this Energy Bureau take notice of the aforementioned, accept the Fifth Update submitted as Exhibit 1 to this Motion, deem that LUMA complied with that portion of the October 12th Order that requires submission of bi-monthly updated reports on the Stabilization Plan.

RESPECTFULLY SUBMITTED.

In San Juan, Puerto Rico, this 17th day of January, 2023.

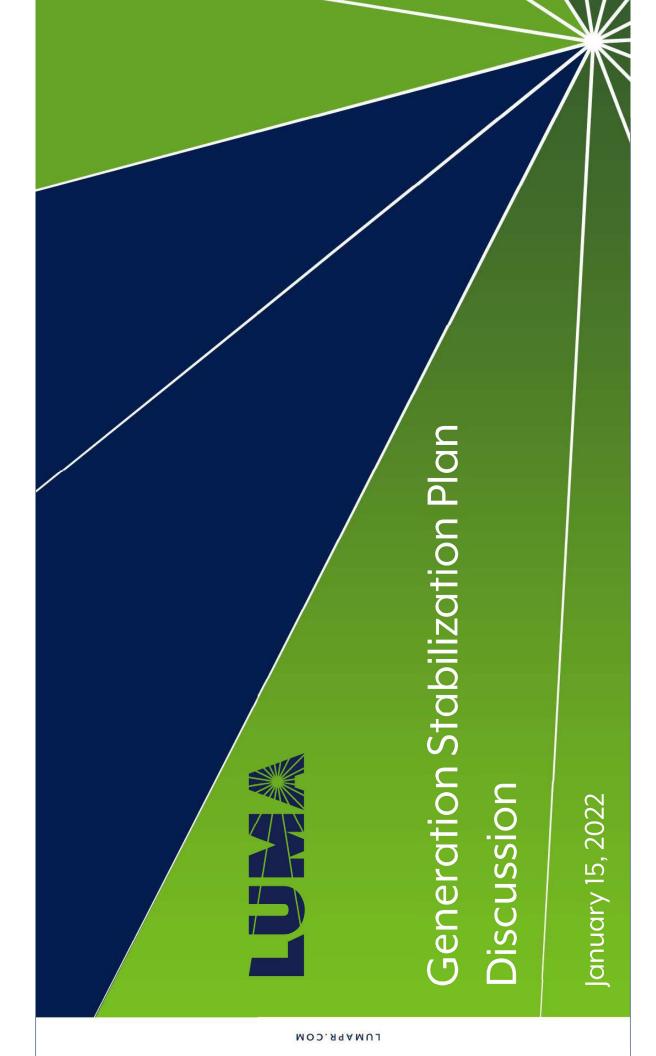
I hereby certify that this motion was filed using the electronic filing system of this Energy Bureau. I also certify that copy of this motion will be notified to the Puerto Rico Electric Power Authority, through its attorneys of record: jmarrero@diazvaz.law and kbolanos@diazvaz.law.



DLA Piper (Puerto Rico) LLC 500 Calle de la Tanca, Suite 401 San Juan, PR 00901-1969 Tel. 787-945-9107 Fax 939-697-6147

/s/ Margarita Mercado Echegaray Margarita Mercado Echegaray RUA NÚM. 16,266 margarita.mercado@us.dlapiper.com

Exhibit 1 Fifth Update on Stabilization Report





Agenda

- I. Executive Summary
- II. Past Two Weeks Area of Focus and Updates
- II. Evolving Team Structure and Organization
- IV. Generation Operational Issues and Concerns as of Report Date
- V. Risk Analysis Update

Executive Summary

- Positive momentum continues as the scope and scale of the Emergency Generation effort becomes better defined
- Regular and timely communications processes are underway and assigned Points of Contact between FEMA Task Force, LUMA and PREPA, and government agencies
- Multiple site visits and technical assessments continuing
- Current planning assumptions are that land-based, trailer-mounted generators should be available in early July
- FEMA indicates that barge generation may not be available
- FEMA still reviewing all feasible sources of trailer mounted generation
- Initial sites have been prioritized for which are best locations, team will continue to review prioritization as assessments are completed based on:
- Well recognized consensus locations in north part of island are preferred
- Relative prioritization changes will continue as site are assessed, based upon injection capacity, transformer capacity, state of needed repairs



LUMAPR.COM

Area of Focus Past Two Weeks was Site Assessments

- Current plan is to prioritize three sites for installation of trailer mounted mobile generators
- . San Juan Power Plant
- 2. Palo Seco Power Plant
- 3. Sabana Llana Transmission Center
- Current planning assumption is that these will be fueled by natural gas, delivered to the San Juan Power Plant and then trucked to sites in ISO-Tank Containers. Sites will also have newly installed temporary natural gas storage tanks
- Additional sites at Cambalache / Yabucoa / Aguirre / Jobos will also be assessed as backup sites as needed
- Repeated site visits are underway with joint teams from FEMA, LUMA, and PREPA to assess physical, logistical. Interconnection and other attributes of all feasible sites
- LUMA has retained Black & Veatch to assist with data compilation and analysis to support required interconnection
- Detailed review of all ongoing capital and maintenance work at these locations is underway to coordinate scope
 - Documentation packages have been turned over to FEMA for approximately 19 project locations
- Permitting issues are still being assessed, but cautious optimism is emerging that the emergency generators can resolve any issues that could emerge

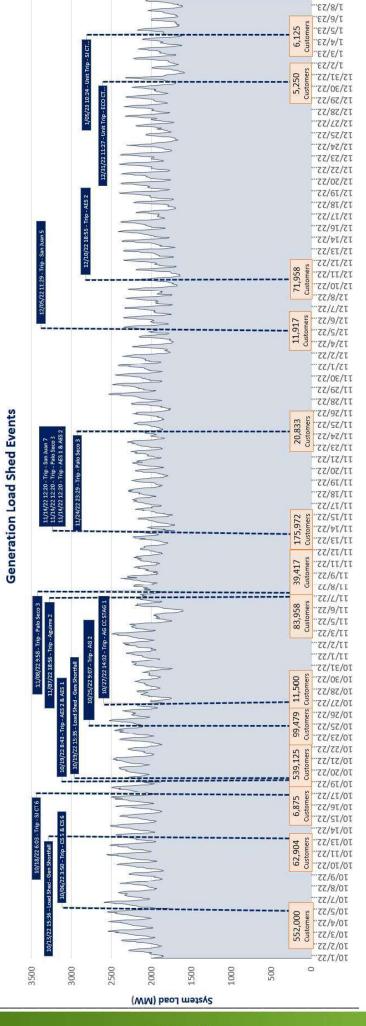


Evolving Team Organization Structure

Organizational Group	Role
FEMA	 Overall direction of the Task Force reporting internally within Department of Homeland Security organization and coordinating the technical and support groups with LUMA and PREPA
Task Force Leadership Team	 Government or operational groups represented that have a role in task force (Energy Bureau, P3A, Governor's office) FEMA-led as part of Task Force, periodic updates and written reports as appropriate
Operational Coordination Team	• Representative from technical, operational, financial or government that are either leading, doing, or supporting ongoing activities
Functional Teams and Subject Matter Experts	 Larger teams matrixed in from existing LUMA or PREPA organizations to address specific issue or analysis related to generation or T&D functional areas
Operations Support	Specific project organizations for LUMA and PREPA with designated lead responsible project manager, senior oversight roles, steering committees and other Project Management Organization (PMO) functions created to support the Task Force



Fifteen Load Shed Events Have Occurred Since October 1, 2022

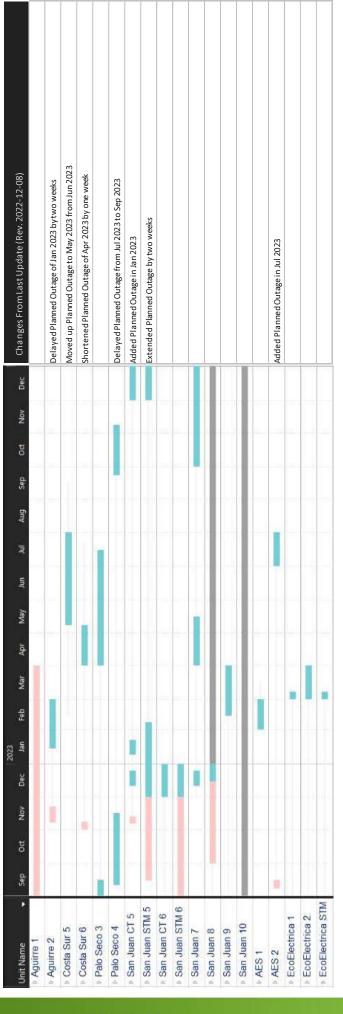


Updated until 1/8/2023



Generation Planned Outages as of January 5, 2023

- had to be rescheduled, raising concerns about whether adequate pre-planning and parts requisitions will have been done to complete the outages PREPA's ability to successfully implement required planned outages on schedule remains the largest risk factor. Several PREPA plant outages have on schedule (industry practices and SOP requirements are that major outages should be scheduled with 18-month lead time)
- Several outages have been deferred and will now happen a few months later when generation reserves will be tight due to higher demand
- April is emerging as a keyperiod of risk for adequate plant availability

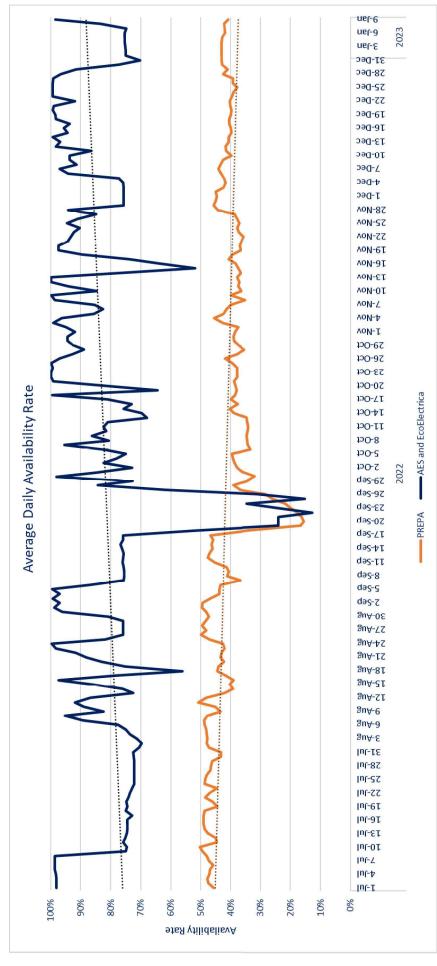




Planned Outages

Forced Outages

Average Daily Availability Rate Since July 1, 2022





LUMAPR.COM

Risk Analysis – Observations to date

- Resource adequacy concerns and risks of load shed expressed in LUMA letter to PREB on October 6th continue to exist
- PREPA operating plants are experiencing higher than historical Forced Outage Rates.
- PREPA performance on Planned Outage schedules remains a concern, especially considering their historic overrun of approximately 50% on outage durations. If this historic trend is repeated, it will increase risks:
- Return to Service dates for Aguirre I and Aguirre 2 at end of February are key milestones
- San Juan plant availability is being closely monitored
- Discussions underway to defer AES maintenance outage from July to October
- Weather-related demand and potential storms could have a significant impact to reserves and reliability
- Timing of FEMA emergency generation continues to evolve as information is assessed. Current planning assumption is capacity will be available in July which will help with summer reserve shortfall, but does not help achieve spring outage schedules
- Outlook for January through March load shed risk currently appears low. This is primarily due to reduced system demand rather than generation availability.



NEPR

Received:

Mar 15, 2023

10:56 PM

COMMONWEALTH OF PUERTO RICO PUBLIC SERVICE REGULATORY BOARD PUERTO RICO ENERGY BUREAU

IN RE: LUMA'S RESPONSE TO HURRICANE FIONA **CASE NO. NEPR-MI-2022-0003**

SUBJECT: Motion Submitting Ninth Update on Stabilization Plan

MOTION SUBMITTING NINTH UPDATE ON STABILIZATION PLAN FOR TEMPORARY EMERGENCY GENERATION CAPACITY

TO THE HONORABLE PUERTO RICO ENERGY BUREAU:

COME NOW LUMA Energy, LLC ("ManagementCo"), and LUMA Energy ServCo, LLC ("ServCo"), (jointly referred to as "LUMA"), and respectfully state the following:

- 1. In a Resolution and Order of October 7, 2022 ("October 7th Order") with the subject "Baseload Generation Dispatch Status-Post Hurricane Fiona," this honorable Puerto Rico Energy Bureau ("Energy Bureau") convened a Technical Conference to discuss concerns raised by LUMA in a letter dated October 6, 2022, regarding Resource Adequacy and potential Generation resource deficiencies following Hurricane Fiona. Per the October 7th Order, the topics to be discussed at the Technical Conference were "Dispatch Status of the available Baseload Generation post Hurricane Fiona and (ii) the identified temporary emergency mitigation measures thought to address the generation deficiencies arising from Hurricane Fiona."¹
- 2. On October 12, 2022, the Energy Bureau entered a Resolution and Order whereby it ordered LUMA to develop a stabilization plan as a direct response to Hurricane Fiona, in coordination with the Federal Emergency Management Agency ("FEMA") and the Puerto Rico

¹ The Technical Conference was held as scheduled on October 11, 2022. During the Technical Conference, the Energy Bureau and consultants for the Energy Bureau posed questions to LUMA's representatives.

Electric Power Authority ("PREPA") "to address any baseload generation inadequacy or shortfall that affects the dispatch availability and has the potential to cause load shedding or a blackout event of the electric system ("Stabilization Plan")" ("October 12th Order").

- 3. Per the October 12th Order, LUMA was directed to submit the 1st and the 15th day of each month from the notice of the Order, an updated report addressing the efforts conducted by LUMA to assure the completion of the Stabilization Plan.
- 4. On October 27th, 2022, the Energy Bureau issued a Resolution and Order whereby it set a technical conference for November 1, 2022 ("October 27th Order) in connection with the first update on the Stabilization Plan. The Energy Bureau stated that it is particularly interested in "learning about the (1) U.S. Army Corps of Engineers ("USACE") Generation Assessment underway, (2) Emergency Temporary Generation under a potential FEMA Public Assistance Emergency assignment that can expeditiously mitigate the impact of Hurricane Fiona, and (3) Replacement of Emergency Temporary Generation that seeks to phase out the temporary generation with permanent capacity, noting that this permanent capacity is consistent with the approved Integrated Resource Plan ("IRP")." *See* October 27th Order at page 1.
- 5. As per the October 27th Order, the Technical Conference was held as scheduled on November 1st. LUMA representatives appeared to discuss the Stabilization Plan and answered questions by this Energy Bureau.
 - 6. On October 31st, 2022, LUMA submitted the First Update on the Stabilization Plan.
- 7. On November 15, 2022, LUMA submitted a Second Update on the Stabilization Plan ("Second Update"). In addition, LUMA submitted supplemental information to the Second Update arising from a joint press conference of November 15th, 2022, where the Governor of Puerto Rico, the Hon. Pedro Pierluisi and the Federal Coordinator for the Federal Emergency

Management Agency ("FEMA"), Nancy Casper, announced that FEMA's power stabilization initiative aims to install between 600 to 700 MW of temporary emergency generation capacity through the mobilization of power generation maritime barges and temporary land-based generators. See Supplemental Submission to Second Update on Stabilization Plan to Inform of Announcement by the Puerto Rico Government and FEMA on Temporary Emergency Generation Capacity, filed on November 15, 2022.

- 8. On December 1st, 2022, LUMA submitted the Third Update on the Stabilization Plan.
- 9. The most recent updates to the Stabilization Plan were filed on January 17,2023 (Fifth Update); January 31, 2023 (Sixth Update); February 14, 2023 (Seventh Update); and March 1, 2023 (Eight Update).
- 10. In compliance with the October 12th Order, LUMA hereby submits as *Exhibit 1*, the Ninth Update on the Stabilization Plan ("Ninth Update"). The Ninth Update includes, among others, a summary of the status of Stabilization Plan with reference to the tasks performed in the past weeks in coordination with USACE, FEMA and PREPA, as well as a summary of LUMA's internal efforts. As slides 4 and 7 of *Exhibit 1* show, construction has commenced with progress at Palo Seco and Emergency Gensets, and other equipment are expected at Palo Seco by March 24th. Finally, the Ninth Update identifies current operational issues and concerns and provides an update on LUMA's risk analyses, 90 days after Hurricane Fiona.

WHEREFORE, LUMA respectfully requests that this Energy Bureau take notice of the aforementioned, accept the Ninth Update submitted as Exhibit 1 to this Motion, and deem that LUMA complied with that portion of the October 12th Order that requires submission of bimonthly updated reports on the Stabilization Plan.

RESPECTFULLY SUBMITTED.

In San Juan, Puerto Rico, this 15th day of March, 2023

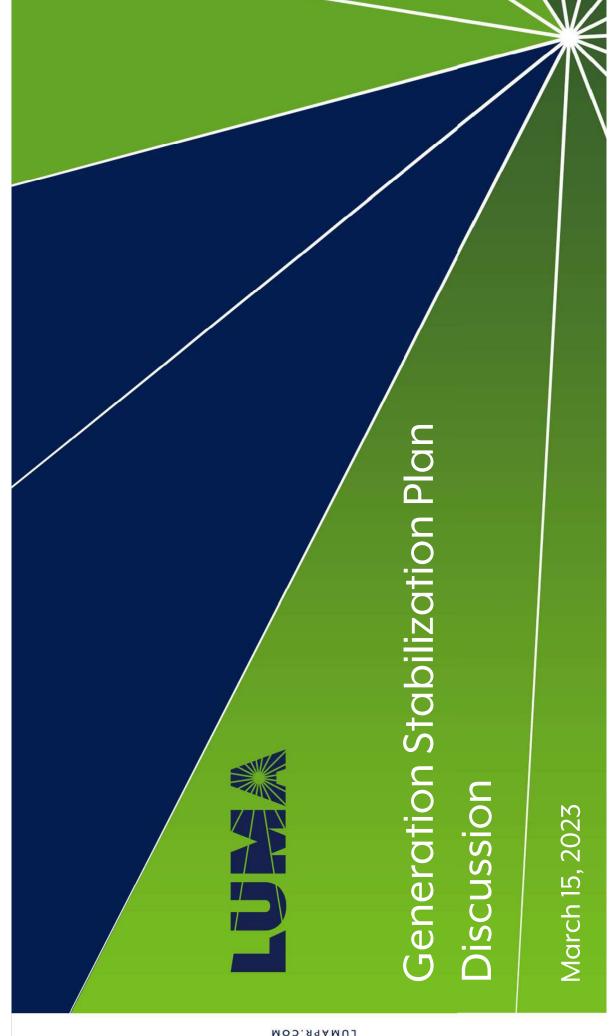
I hereby certify that this motion was filed using the electronic filing system of this Energy Bureau. I also certify that copy of this motion will be notified to the Puerto Rico Electric Power Authority, through its attorney of record: jmarrero@diazvaz.law.



DLA Piper (Puerto Rico) LLC 500 Calle de la Tanca, Suite 401 San Juan, PR 00901-1969 Tel. 787-945-9107 Fax 939-697-6147

/s/ Margarita Mercado Echegaray Margarita Mercado Echegaray RUA NÚM. 16,266 margarita.mercado@us.dlapiper.com

Exhibit 1 Ninth Update on Stabilization Report





Agenda

- I. Executive Summary
- . Construction Activities
- II. Current Operations
- IV. Resource Adequacy Risk Analysis Summary

Executive Summary

Construction has commenced and making progress at Palo Seco

- US Army Corps of Engineers (USACE) awarded generation installation contract to Weston Solutions, Inc. for generation installation and New Fortress Energy for fuel delivery
- Site mobilization, required demolition and construction have begun

Emergency Gensets and other equipment are expected at Palo Seco by March 24

- Six primary gensets plus one spare genset and associated balance of plant equipment are being sourced from Arizona and Texas and currently enroute to Puerto Rico
- LNG re-gasification equipment and a holding tank are being shipped from Nicaragua

Working to address transformer and underground pipe-cable concerns at San

- PREPA's new, unused, transformer stored at San Juan is being evaluated and may solve the transformer issue problem
- Examination is being done on the 115 kV buried cable to identify the root cause of the testing failure and establish a repair plan
- US Environmental Protection Agency specified the generation emissions must meet New Source Performance Standards (NSPS) for NO $_{
 m x}$ compliance (25 ppm)
- Several NOx control strategies are being evaluated by the USACE Project Delivery Team (PDT)



Gensets ready to leave Yuma, AZ headed to Jacksonville, FL to be shipped to Palo Seco



Old pipe-cable insulating oil system tanks at San Juan



Active work at both primary sites

Palo Seco – Making progress on construction

- Current mobilization and daily USACE Project Delivery Team meetings
- Demolishing buildings, tanks, and disposal of rubble to clear for generation equipment
- Off-site fabrication of piping
- Installation of cable tray supports and cable for Power Systems Safety **Protection**
- Foundation design for Liquified Natural Gas area and 90,000 gallon tank is complete.
- Pile driving is scheduled to begin on 3/16
- Scale of pile driving for tank is an installation schedule risk

San Juan – Working to address risks from old, damaged equipment

- Leaks at existing #10 transformer and damage of 115 kV underground pipe cable pose significant risk to installation
- LUMA and PREPA have been engaged in doing further testing and evaluation in order to resolve these risks



New cable trays being staged for assembly and installation at Palo



Construction Coordination and Communication Activities

Organizational Groups

- FEMA
- Task Force Leadership Team
- Operational Coordination Team
- Functional Teams and Subject Matter Experts
- **Operations Support**

- Contract awarded to Weston Solutions and construction activities have significantly increased
- USACE is leading the Integrated Project Delivery Team (PDT) meetings, seven days a week
- Besides USACE staff, the PTD meetings include others from FEMA, Weston Solutions, New Fortress Energy, PREPA and
- Many other ad hoc and scheduled meetings occur each week to deal with technical issues, e.g., electrical protection, equipment testing and electrical tie-in coordination.



Construction Management

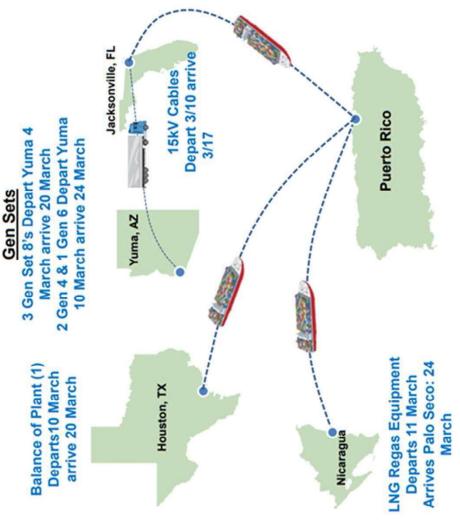
Submittal Tacker

Transport Schedule

6-Mar 8-Mar 8-Mar 8-Mar 8-Mar 8-Mar 8-Mar 8-Mar 8-Mar Load# 9055730 9055731 9055732 FIO 3/9/2023

- Division of Responsibility
- · Various weekly and daily integrated team meetings support the construction planning and control effort
- Close tracking of RFIs, Submittals, Approvals, Tasks and Schedules
- Security, Lighting, Accident Prevention, Quality Control and Ground Transport plans, including Ground Penetrating Radar (GPR) surveys are being completed now to prepare for arrival of equipment

Logistics Activities



Delivery of Major Equipment

Generation equipment is being sourced from various locations and on its way

Palo Seco:

- Six- primary GE TM 2500 GenSets
- One spare GE TM 2500 GenSet
- Balance of Plant equipment
- 15kV Cables
- LNG Re-gas Equipment

All on schedule and expected to be delivered to Palo Seco by 3/24

San Juan:

Expect generators on site: 4/28



LNG Equipment shipped from Nicaragua





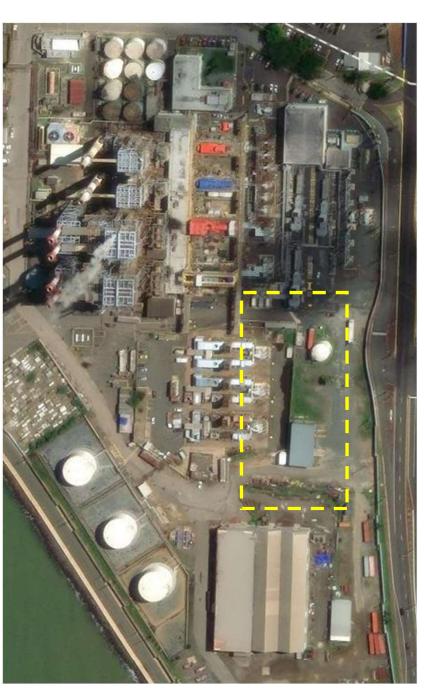
- LNG skid and large volume (90k-gallon) tank to be placed at Palo Seco.
- Foundation requires 118, 60 foot concrete piles
- Foundation requires 118, 60 foot concrete piles

 Equipment will be transported by truck seven miles from the Puerto Rico port to the construction site





Overview of Palo Seco site and area for new generation



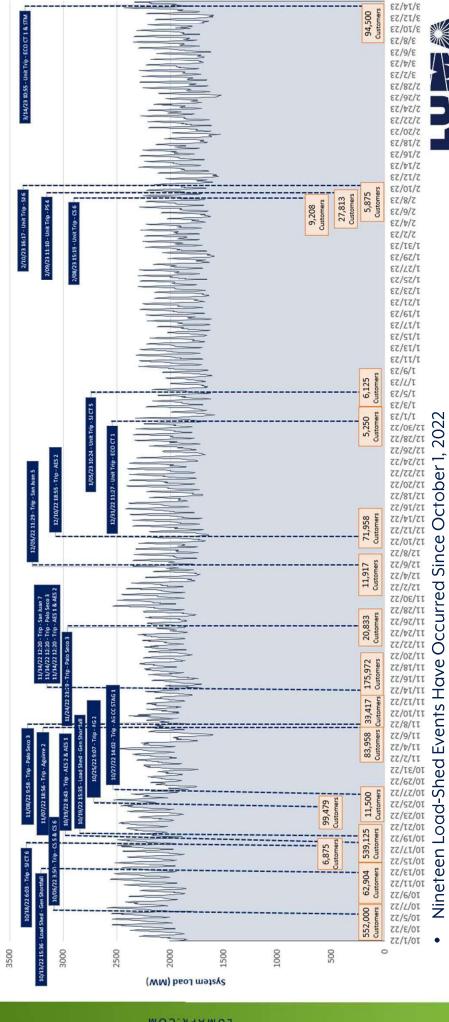
Dashed yellow outline shows the area where the generation units will be installed

3/15/2023

Current Generation Operations – Load Shed Events

Updated until 3/14/2023

Generation Load Shed Events



- One load shed event has occurred in the past two weeks.





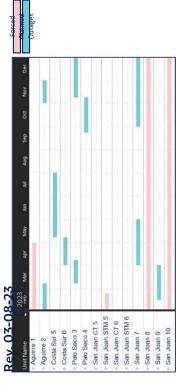
Repeated changes to maintenance schedule limit effective planning of outage scheduling

Planned Outage (PO) Schedule Changes for PREPA Units

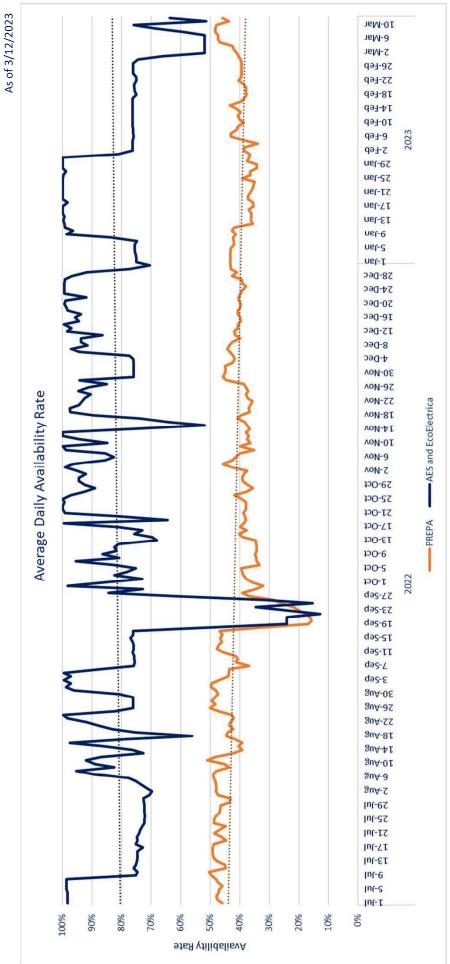
Twenty-nine (29)
Planned Outage
schedules have
been extended
or delayed since
October 2022

Schedule Revisions	Schedule Aguirre 1 Aguirre 2 Costa Sur Costa Sur Palo Seco Palo Seco Pau Juan San Juan San Juan San Juan Revisions Aguirre 1 5 6 3 4 CT 5 STM 5 CT 6 STM 6	Aguirre 2	Costa Sur 5	Costa Sur 6	Palo Seco 3	Palo Seco 4	San Juan CT 5	San Juan STM 5	San Juan CT 6	San Juan STM 6	San Juan 7	San Juan 7 San Juan 8 San Juan 9 10	San Juan 9	San Juan 10
Baseline	Baseline Rev. 10-26-22	22												
Rev. 10- 28-22								Extend PO				Add OOS through		Add OOS through
Rev. 12- 08-22	Extend FO duration	Move up FO start	Delay PO start	Move up PO start	Delay PO start	Extend PO	Delay PO start	Extend PO duration			Delay PO start	0,00		5505
Rev. 01- 05-23		Delay PO start	Move up PO start	Shorten PO duration		Delay PO Start	Add PO in Dec 2023	Extend PO duration						
Rev. 01- 17-23		Add PO in Nov 2023									Extend PO duration	Change OOS to FO		Change OOS to FO
Rev. 02-									Add PO in	Add PO in				
06-23									2024	2024				
24-23	Extend FO duration to end of Apr 2023.				Move up PO start date from Apr 2023 to Mar 2023 and shorten duration. Add PO in Nov 2023.		Add PO in Mar 2023. Delay PO start from Dec 2023 to May 2024.	Change PO in Feb to FO and extend duration. Delay PO start from Dec 2023 to May 2024.						
Rev. 03-		Extend PO												
08-23		duration												

Unit Name	2023 Feb	Mar	Apr	May	Jun	Ą	Aug	das	od	Nov	Dec
Aguirre 1	I										
Aguirre 2	ı										
Costa Sur 5	l										
Costa Sur 6											
Palo Seco 3	Ī				ı						
Palo Seco 4						_					
San Juan CT 5											
San Juan STM 5										Ī	
San Juan CT 6											
San Juan STM 6											
San Juan 7		Ī		ı				Ī			
San Juan 9											



Availability of PREPA units trending lower



Since July of 2022, trend of availability of PREPA units decreased to below 40%, compared to its stated goal of 65%

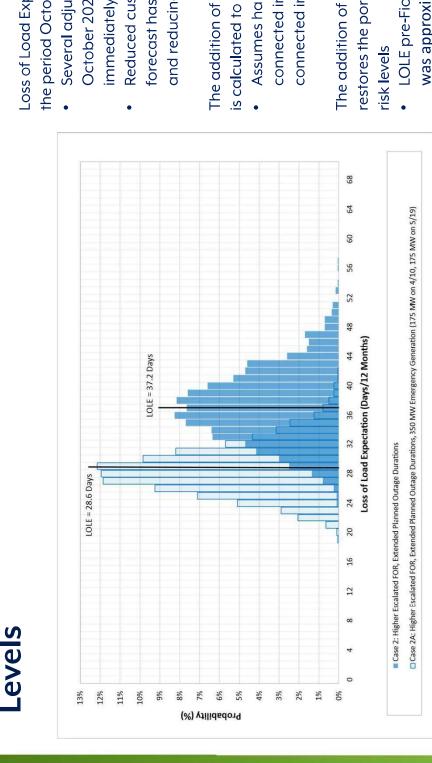


Resource Adequacy: continued risk with expected decrease when emergency generation is available

- Resource adequacy analysis suggest load shed risks will increase in coming months as demand grows due to rising temperatures
- Increased risk of load sheds in March to April time period
- Failure to complete scope of maintenance work during planned duration
- Increasing forced outage rates
- Crowded outage schedule in March through May period
- 7% less than forecast) due to cooler than normal temperatures and customer shift to rooftop solar Risks have been somewhat mitigated by lower-than-expected customer demand (on averaging and net metering policy
- Near term arrival and interconnection of first 180 MW of FEMA emergency generation in April will reduce load shed risks considerably



350 MW of Emergency Generation reduces risk to Pre-Fiona



Loss of Load Expectation is currently (LOLE) 37.2 for the period October 2023 – October 2024

- Several adjustments to outage schedules in October 2022 reduced outage events immediately after Fiona
- Reduced customer demand from original forecast has the effect of increasing reserves and reducing LOLE

The addition of 350 MW of emergency generation is calculated to reduce the LOLE down to 28.6

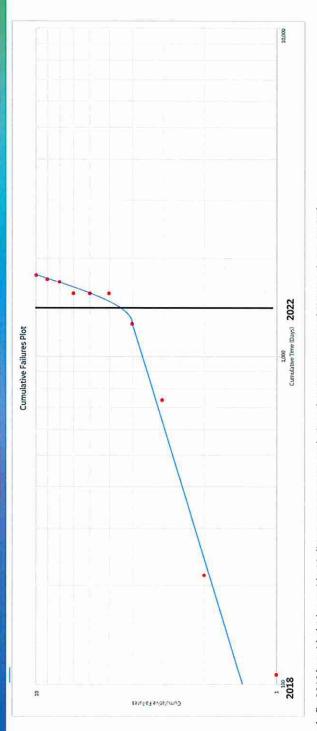
Assumes half the emergency generation is connected in April and the other half connected in May

The addition of 350 MW of emergency generation restores the portfolio approximately to pre-Fiona risk levels

 LOLE pre-Fiond using historic availability data was approximately 28.1



Análisis de confiabilidad Sistema Eléctrico Unidad 1

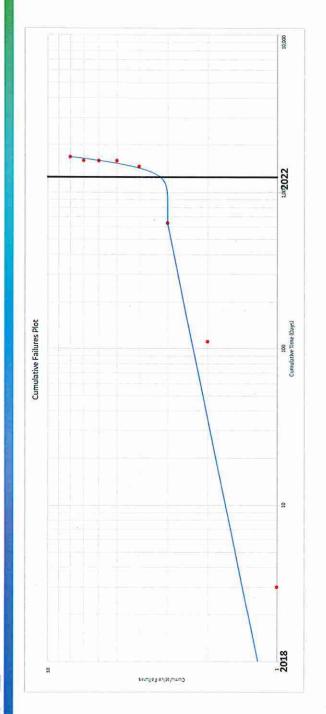


- Desde el año 2018 la unidad 1 ha tenido 10 disparos por eventos relacionados a eventos con el Sistema de transmisión.
- De esos 10 eventos 6 han sido en el año 2022.
- Para el periodo de análisis que comprende desde 6/1/2021 a 11/14/2022 obtenemos los siguientes datos:
 - Beta = 2.03 (La confiabilidad del sistema esta en deterioro)
 - Mean time between Failures = 42.65 Days
 - Next expected event day = 12/25/2022



aes

Análisis de confiabilidad Sistema Eléctrico Unidad 2



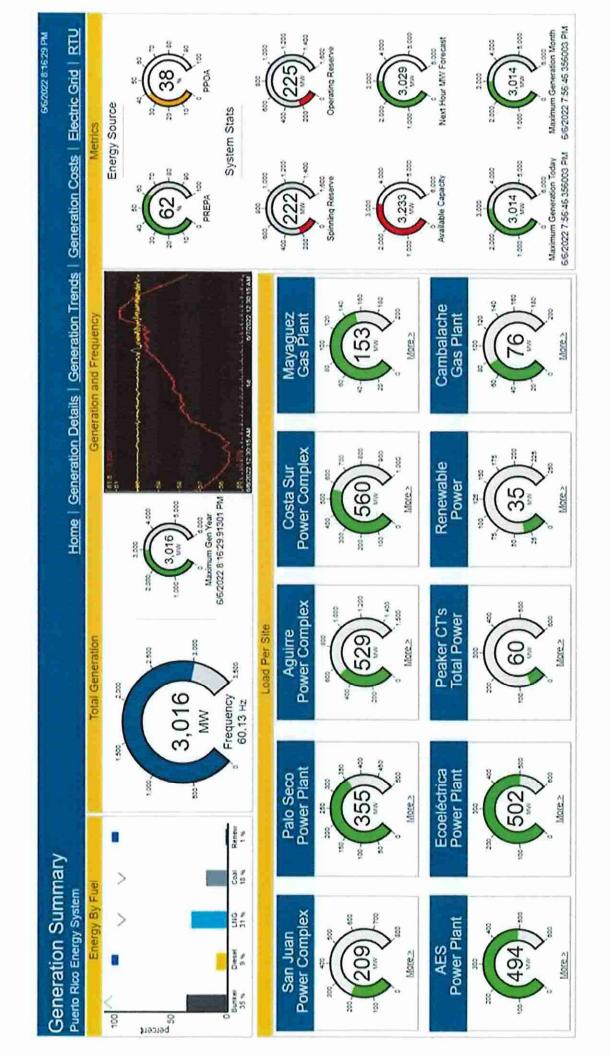
- Desde el año 2018 la unidad 2 ha tenido 8 disparos por eventos relacionados a eventos con el Sistema de transmisión.
- De esos 8 eventos 5 han sido en el año 2022.
- Para el periodo de análisis que comprende desde 6/1/2021 a 11/14/2022 obtenemos los siguientes datos:
 - Beta= 2.68 (La confiabilidad del sistema esta en deterioro)
 - Mean time between Failures = 39.62 Days
 - Next expected event day =12/21/2022

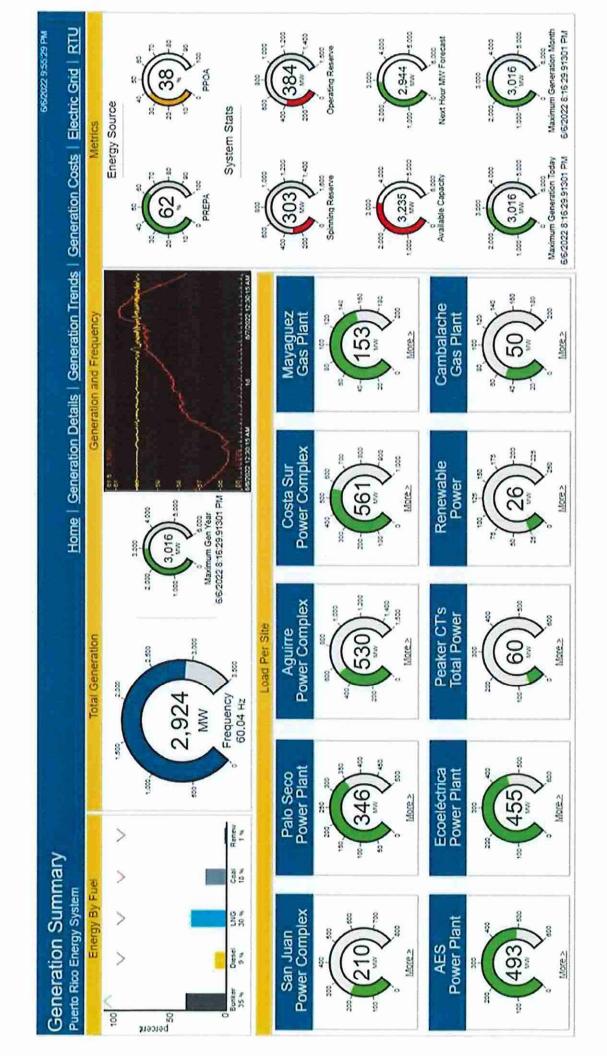


AHORA | Compartimos la gráfica de producción de energía por estación generatriz. Al presente 8:15pm, estamos atendiendo el 100% de la demanda de energía de 3,012mw que superó el pronóstico de demanda para hoy. ¡Continuamos trabajando por Puerto Rico! @GovPierluisi @fortalezapr



8:22 PM · Jun 6, 2022





Annex C

PROGRAMA DE REPARACIONES CALDERAS Y TURBO-GENERADORES

Ing. Ferdinand Correa Méndez Administrador de Generación

DRAFT

ICO ESTIMADO

RESERVA TOTAL DEL SISTEMAS

% DE DISPONIBILIDAD TOTAL

PICO REAL



2349

N/A

1406

N/A

1234

2449

N/A

855

N/A

1129

N/A

906

N/A

N/A

892 1234 1150

N/A

N/A

1261

N/A

Ing. Josué Colón Ortiz

Director Ejecutivo

evisado por:	
_	

Revisado por:																																		
		Ing. Jorge	L. Cotto Pé	rez																								Aprob	ado por:		Ing. N	Iary C. Z	Lapata /	Acosta
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SJ STM 5	60	N/A	N/A	N/A	N/A	30-Jun-22	30-Jun-22	30-Jun-22	30-Jun-22	30-Jun-22	30-Jun-22	30-Jun-22	30-Jun-22			10.0					+										 	+-+		
SJ CT 6	160	7-Sep-13	5-Feb-15	N/A	N/A	1-Feb-16	1-Feb-16	1-Feb-16	1-Feb-16	1-Feb-16	1-Feb-16	1-Feb-16	1-Feb-16								+							М	ajor iviaint.		 '	++		
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AES 2	227																			Annual N	Maint.	1111					_			+	<u> </u>	\longrightarrow		
* R: REPORTE DE I	NSPECCION		MANT: MANTEN	IIMIENTO INSP: INS	SPECCION NS: NO	HA ESTADO EN SE	RVICIO DESDE AM	IBIENTAL	CONS. PROGR	RM, UNIDADES	DE VAPOR			341	499	1300	1376	710	610 610	0 610	416	516	966	516	696	480	700	480 5	80 580	0 200	100	100	510	550 550
C: CERTIFICACIO	[LQ: LAVADO QU	IMICO LIM. PROX.	. AMB.: FECHA LIM	ITE PROXIMA SALI	IDA AMBIENTAL	=1	MANT. Y SAI	LIDAS FORZ. UI	NIDADES DE VA	AP.		788	752	191	182	262	274 274	4 274	297	285	231	285	264	289	263	289 2	77 277	7 323	335	335	286	281 281
			Ll	EYENDA					LIMITACIONE	ES, UNIDADES I	DE VAPOR			525	379	16	15	22	23 23	23	25	24	19	24	22	24	22	24	23 23	27	28	28	24	23 23
PROGRESO A	CTUAL								DISPONIBILI	DAD DE U. DE	VAPOR			1238	1261	1385	1319	1898	1985 198	1985	2154	2067	1676	2067	1911	2208	1907	2098 2	011 201	1 2342	2429	2429	2072	2038 2038
CONSERV. PF	OGRAMA	ADA							% DE DISP. DI	E UNIDADES DI	E VAPOR			43	44	48	46	66	69 69	69	74	71	58	71	66	74	66	73	70 70	81	84	84	72	70 70
SALIDA FORZ	ADA			*****					CONS. PROGR	R. AL CICLO CO	OMBINADO			246	246	246	246	246	246 24	6 246	246	246	246	246	246	246	246	246 2	46 246	6 246	246	246	246	246 246
									MANT. DIAR.,	, FORZ. Y LIMIT	ſ. C.C.			346	288	35	35	35	35 35	35	35	35	35	35	87	87	87	87	87 87	87	87	87	87	87 87
									DISPONIBILIDAD CICLO COMBINADO						58	311	311	311	311 31	1 311	311	311	311	311	260	260	260	260 2	60 260	260	260	260	260	260 260
NOTA:								<u>-</u>]	MANTENIMIE	ENTO A TURBI!	NAS DE GAS			0	0	139	139	139	139 139	9 139	139	139	139	139	139	139	139	139 1	39 139	9 139	139	139	139	139 139
	TADAS	son reales, no so	n estimadas							FORZ. Y LIMIT				289	288	118	118	118	61 61		61	61	61	61	118		118		18 118		118	118	118	118 118
Las emas KLS	LIADAS	son reales, no so	i Cstilliadas.						1	OAD TURBINAS				321	322	353	353	353	410 410		+	410	410	410	353		353		53 353		353	353	353	353 353
				Datos Anua	al					ENTO - CAMBA				0	33	164	164	82	82 82		82	164	164	82	82		82	 	82 82	_	82	82	82	82 82
				Datos Anua	aı									- Ů			0			_	0	0	0									 		
		C:-4 E1/	·•		T4	ARE	F	AEC	-	FORZ. Y LIMIT DAD CAMBAL A				8	66	0		41	41 41		<u> </u>	1	0	41	41		41			_	41	41	41	41 41
		Sistema Eléc	trico		Integrado	AEE	Eco	AES						157	67	1	1	42	42 42		_	I	1	42	42		42		42 42	_	42	42	42	42 42
Proyectado Siste		, ,			3,754	2,833	504	418	1	ENTO HIDROEI				30	30	75	75	75	75 25		25	25	25	25	75	75	75		75 75	_	25	25	25	25 25
Proyectado Siste					70.6%	65%	95%	92%	MANT. DIAR.,	, FORZ. Y LIMIT	T. HIDRO			43	43	6	6	6	6 19			19	19	19	6	6	6		6 6		19	19	19	19 19
Sistema Eléctric		,	*		3,167	2,261	501	405	DISPONIBILIE	DAD HIDROELE	CTRICAS			27	26	19	19	19	19 56	_	56	56	56	56	19	19	19		19 19	56	56	56	56	56 56
Sistema Eléctric					58%	51%	95%	89%	1	DISPONIB	BILIDAD AEE		(MW)	1743	1734	2069	2003	2623	2767 280	2804	3014	2845	2453	2886	2584	2881 2	2580	2771 2	584 268	3053	3140	3140	2783	2748 2748
Notas: 1. D	itos Anu	ales de Dispo	nibilidad has	sta 31-Diciem	bre-2022.								(%)	40%	40%	48%	46%	60%	64% 65%	% 65%	69%	65%	56%	66%	59%	65%	59%	64% 6	2% 62%	% 70%	72%	72%	64%	63% 63%
									MANTENIMIE	ENTO - ECOELI	ÉCTRICA			0	0	398	0	0	0 0	0	0	398	0	0	0	0	398	0	0 0	0	0	0	0	0 0
									MANT.DIAR.,	FORZ. Y LIMIT	. TURB. ECOEL	EC.		0	0	4	16	16	16 16	16	16	4	16	16	16	16	4	16	16 16	16	16	16	16	16 16
									DISPONIBILIE	DAD ECOELÉC	TRICA			530	530	128	514	514	514 514	4 514	514	128	514	514	514	514	128	514 5	14 514	4 514	514	514	514	514 514
									MANTENIMIE	ENTO - AES				0	0	0	0	0	227 22	7 0	0	0	0	0	0	0	0	0	0 227	7 0	0	0	0	0 0
									MANT.DIAR.,	FORZ. Y LIMIT	. TURB. AES			66	232	23	23	23	11 11		23	23	23	23	23	23	23	23	23 11		23	23	23	23 23
	Fecha d	e Revisión:		20-Mar-23					DISPONIBILID	DAD AES				388	222	431	431	431	216 210	6 431	431	431	431	431	431	431	431	431 4	31 216	6 431	431	431	431	431 431
									DISPONIBILI	DAD TOTAL			(MW)	2661	2486	2628	2948	3569	3497 353	3750	3959	3404	3399	3831	3529	3827	3139	3717 3	530 341	4 3998	4085	4085	3728	3693 3693
									1				(3.433.0)	0.400			1	1	1 1		1	1	a=00							-	1	1 2000	'	

(MW)

(MW)

(MW)

2258

N/A

N/A

N/A

941

N/A

775

N/A

N/A

N/A

1018 1150 1261 600

N/A

N/A

976

N/A

1081

Para garantizar la confiabilidad, en caso de salidas forzadas el programa pudiera sufrir cambios.



Generation Directorate

Current Status of PREPA Generation Fleet

REV: February 27, 2023

							RE	V: February 2	-			
Power Station	Unit	Capacity (MW)	Available Capacity	Condition	Date of last major maintenance	Date of last major maintenance	Person in charge of attending	NME (Million)	FY 2021-22 Available Budget	FY22	FY23	Currents Status / Action Plan / Comments
			•					PA's Base Ge				
	CT 5	160	150	Available	June 30 2022			\$45.00	\$38.00	\$45.00		Minor Outage from dec 7 to dec 21 2022. Unit afected by Huracane Fiona. Major overhaul begining January 15, 2022 until jun 30 2022; Approximate cost \$45 millions including LTSA (Long Term Services Agreement). Forced Outage . Unit online expedted 5 march 2023. Unit afected by Huracane Fiona. Forecast February
	STM 5	60		Not Available	June 30 2022							2023. Major overhaul begining January 15, 2022 until june 30 2022. Verifying delivery of steam turbine parts is a critical path. Combustion inspection for december 1 to december 31 2022. Unit online January 9 2023. Problems with
	CT 6	160	150	Available				\$33.00			\$33.00	turbine control valves in steam units cause a limitatiion on combustion units. Unit Major overhaul; Proposed date: February 2024; Approximate cost \$33 millions.
	STM 6	60	50	Available	Sep-13	Jun-10		333.00			Ş33.00	Uunit on line january 9 2023. Generator Rotor Inspection October 27, 2021; Generator Instrumentation Problems (field ground). Unit online January 30, 2022. Unit off line on april 30 2022, problems with turbine control valves. Forecast January 2023. Major overhaul Proposed date: February 2024.
San Juan	7	100	0	Not Available	Aug-08	Aug-08	Eng. Victor Ortiz Plant Manager	\$18.00			\$18.00	Forced Outage; Tranformer problem. Short Outage from dec 7 to dec 21 2022. Boiler failure on jan 2023; Unit on line january 25 2023; Valve inspection and repair finish january 5 2022; Turbine rotors have expired hours for major repair (over 70K hours). Approximate repair cost \$5 millions. Boilers Repairs (\$10 millions) needed. Major inspection date to be determined. Unit in limited use (8%) according to EPA MATS (Mercury and Air Toxic Standards). Total Outage cost aproximate \$18 millions.
	8	100	0	Not available	Nov-10	Nov-10		\$18.00			\$18.00	Boiler pipe breakage problems, steam leaks and feedwater heater #6 problems. Limited use unit (8%) according to EPA (MATS). Boiler air leaks. Approximate cost of boiler repairs and auxiliary equipment, \$18 millions including new boiler piping.
	9	100	0	Not Available	Nov-19	Aug-12		\$2.00			\$2.00	Environmental outage from february 19 to april 1 2023. Unit afected by Hurace Fiona. Limitation cause for problems BFP; repair finish july 25 2022. Unit have problem with excitation system on december 30 2021; Luma working from january 2 to january 3 2022. Unit Star up january 4 2022. Programmmed outage finished: 7 days (October 28 - November 3, 2021): coolers replacement, BFP 9-1 and 9-2 inspection, condenser cleaner, etc. DEMI (Demineralized) water production problems. Temporary water production plant of the Central (RO) faces operational problems. In the process of completing the installation of a new permanent DEMI plant.
	10	100	0	Not available	Sep-09	Sep-09		\$17.00		\$17.00		Low pressure turbine fault. Unit not available since the end of 2015. Returning the unit to service entails an approximate investment of \$17 millions and an estimated duration of the works, 6 months. Forecast Unit Online June 30 2023. Epa requirement re-activition policy.
	1	85	0	Not available	Apr-08	Apr-08		\$10.00			\$10.00	Limited use unit EPA (MATS). Boiler air leaks, requires replacement of boiler piping. Generator has major stator failure and requires turbine work.
	2	85	0	Not available				\$15.00			\$15.00	Limited used unit EPA (MATS). Faulty unit generator; the unit's Main Power Transformer is used as an
Palo Seco	3	216	200	Available	Nov-09	Nov-09	Eng. Antonio Kalil Plant Manager	\$9.00			\$9.00	output transformer for new MPA FT-8. Several Forced Outage between October 31 - December 16, 2021: Economizer (boiler) tubes failure, condenser tubes failure, front standard problems. Forecast Unit return online for December 17, 2021. It is required to purchase boiler tube and economizer panels for approximately \$5 millions and repair auxiliary equipments, for march 2023-may 2023
	4	216	200	Available	May-09	Jun-19		\$3.00	\$3.00	\$3.00		Forced Outage begining september 3 to december 2022 . Problems with DC Pump; turbine bearing inspection. Environmental outage begining january 23 2022 until march 21 2022; Work will be carried out on the boiler and replacement of the air pre-heater baskets. Unit online BFP 4-1 repair finished December 12. Forced outage on september due to oil leak through control wiring and high pressure differential on the air preheaters. Unit return to service on Sunday, October 10, 2021. Work will be carried out on the boiler and replacement of the air pre-heater baskets.
	1	450	0	Not Available	Feb-12	Dec-08	For Alouis Cour	\$20.70	\$16.00	\$19.00	\$1.70	Forced outage: Do a reinspection in generator area. Forecast april 2023. Major repair beginning on March 16 2022 until july 30 2022. Major works, environmental outages, boiler tubes replacement and turbine rotors replacement for an approximate \$19 millions.
Aguirre Steam Plant	2	450	0	Not Available	Mar-10	Dec-19	Eng. Alexis Cruz Plant Manager	\$2.35			\$2.35	Unit on envromental outage from january 162023 to march 1 2023. Unit afected by Huracane Fiona. Unit on line by october 13 2022. Last inspection begining march 2 until march 11 2022. Repair airheater seals and boilers air infiltration. This action eliminated at least 50 mw limitation. Beginnig the procurement process to repair the Excitation System next fiscal year.
	5	410	190	Available	Jul-13	Jul-13	Eng. Miguel	\$21.80	\$2.80	\$2.80	\$19.00	Unit limited to 222 mw for BFP problems until april 2023 Forced Outage between may 12 to may 24 2022 to replace the generator hydrogen seals. Forced Outage November 30 - December 5, 2021. BFP 5-1 and BFP 5-2 motors failure. Main steam piping failure on September 13, 2021. Unit return service on Wednesday, October 6, 2021. Major outage (boiler, environmental maintenance and replacement of turbine rotors) scheduled for January 2023. Approximate cost \$19 millions.
Costa Sur	6	410	410	Aavailable	Sep-12	Feb-21	Beauchamp Plant Manager	\$6.70	\$3.00	\$5.00	\$1.70	Unit off line for boiler backpass cleaning until nov 4. Unit online january 5 2022. Last summer Low pressure turbine failure (LP turbine failure) after major unit repair including these rotors for \$20 millions. Rotors were shipped to the US workshop by ship during the week of September 20-27. Findings report and repairs beggining october and finished on December 2, 2021. Rotor shippied to Puerto Rico on December 6, 2021. Unit on test December 30 2021; Turbine balance works from januart 1 to january 7, 2022 an approximate cost of replacement of damaged parts of \$5 millions.
Total PREPA Base Generation		3162	1350	42.69%				\$221.55	\$62.80	\$91.80	\$129.75	Available
								1 of -				

1 of 3



Generation Directorate

Current Status of PREPA Generation Fleet

REV: February 27, 2023

Power Station	Unit	Capacity (MW)	Available Capacity	Condition	Date of last major maintenance	Date of last major maintenance	Person in charge of attending	NME (Million)	FY 2021-22 Available Budget	FY22	FY23	Currents Status / Action Plan / Comments
							PREPA's	Reserve Ge	neration Fleet			
	I-1	50	0	Not Available				\$1.00	\$1.00	\$1.00		gas noth inspection \$1 millions. April 2022
	I-2	50	0	NotAvailable SC				\$1.00	\$1.00	\$1.00		Unit afected by Huracane Fiona.Inlet filters clogged. Hot gas path inspection scheduled for June 2022. Unit
	I-3	50	0	Not Available				\$2.50	\$1.00	\$2.50		off line from dic 2022; Make inspection in the unit to return to service Major inpection scheduled for 2/14/22 until 01/29/2023. Repar cost \$2.5 millions
	1-4	50	0	Not Available				\$2.00	,	,	\$2.00	Unit afected by Huracane Fiona. Inspect generator rotor. PT Repair; Minor outage October 20 - return unit
	1-4	30	0	NOT Available				72.00			γ2.00	online for November 5 2021. Generator failure on dec 2022. Inspect generetor rotor.
Aguirre Combined Cycle	ST-1	96	0	NotAvailable			Eng. Alexis Cruz Plant Manager	\$2.00	\$1.00	\$1.00	\$1.00	Unit afected by Huracane Fiona. Unit off line October 19 2021; water line repair to cooling tower; condenser fouling and air in leakages. Unit on line may 2022.
	II-1	50	0	Not available			i iaiit iiiaiiagei	\$2.00			\$2.00	MPT 2-1, 2-2 failure; in process to replacement until january 2023
	II-2	50	0	Not available				\$2.00			\$2.00	MPT 2-2 failure; in process to replacemennt until december 2023; Mayor inspection
	II-3	50	50	Available				\$1.00			\$1.00	Unit online.PT failure; Unit off line since dec 2022. Unit afected by Huracane Fiona. Repair coolers fan Unit online. PT failure; Unit off line since dec 2022. Unit afected by Huracane Fiona. Stand by Transformer
	II-4	50	50	Available				\$1.70			\$1.70	fail. Hot gas path inspection and spare rotor \$1.7 millions.
	ST-2	96	0	Not available				\$2.00			\$2.00	Steam Tube Faiulre and generator rings problems
Total Aguirre CC		592	100	16.89%				\$17.20	\$4.00	\$5.50	\$11.70	Availability
DACHAO	1-1	21	20	Available				\$2.00	\$1.00	\$2.00		Unit afected by Huracane Fiona. Mayor Outage Repair planned april 2022
DAGUAO	1-2	21	19	Available				\$2.00	\$1.00	\$2.00		Unit afected by Huracane Fiona,. Generator Ground Inspection from dec 20 2021; Mayor Outage Repair for 2022
AGUIRRE	2-1	21	0	Not available				\$4.00			\$4.00	Unit requires major turbine repair and a complete generator assembly.
Additite	2-2	21	0	Not Available				\$2.00	\$1.00	\$2.00		Mayor Outage Repair
	1-1 1-2	21	20	Available Not available				\$2.00 \$2.30	\$1.00	\$2.00	\$2.30	Mayor Outage Repair 2022 Mayor Outage Repair and Generator breaker replacement
	2-1	21	18	Available				\$2.00	\$1.00	\$2.00	γ2.30	Mayor Outage Repair 2022
	MPA 1	28	28	Available				\$0.10	\$0.10	\$0.10		Environmental air permit. Contract awarded to perform environmental acceptance tests. EPA approve
PALO SECO							Eng. Jaime		·			emission testing. Emisssion test between july-August 2022. Environmental air permit. Contract awarded to perform environmental acceptance tests. EPA approve
	MPA 2	28	28	Available			Umpierre	\$0.10	\$0.10	\$0.10		emission testing. Emisssion test between july-August 2022
	MPA 3	28	28	Available			Hidro Gas Head Division	\$0.10	\$0.10	\$0.10		Environmental air permit. Contract awarded to perform environmental acceptance tests. EPA approve emission testing. Emisssion test between july-August 2022
COSTA SUR	1-1	21	0	Not available				\$2.00	\$2.00	\$2.00		Unit reached full speed not load with excitation. Phasing tests schedule for july 2022. Mayor Outage Repair
	1-2	21	0	Not available				\$4.00			\$4.00	Turbocompressor replacement. Mayor Outage Repair
JOBOS	1-1	21	20	Available				\$2.00	\$1.00	\$2.00		Unit afected by Huracane Fiona. Mayor Outage Repair 2022 Unit afected by Huracane Fiona. Due for major inspection (August 2020) and speed reduction gearbox
30503	1-2	21	16	Available				\$2.00	\$1.00	\$2.00		replacement.
YABUCOA	1-1 1-2	21	0	Not available Not Available				\$2.00 \$2.00	\$1.00 \$1.00	\$2.00 \$2.00		Unit afected by Huracane Fiona. Alignment process. Unit afected by Huracane Fiona. Alignment process finish;
VEGA BAJA	1-1	21	0	Not available				\$2.10	\$0.00	\$2.10		Voltage regulator repair unit expected in service on april 2022
	1-2	21	0	Not available				\$4.00			\$4.00	Turbocompressor major failure.
Total 18 Peaking Units		399	197	49.37%				\$36.70	\$11.30	\$22.40	\$14.30	Availability Unit on line - August 15 - Voltaio Bogulator Control foliod - replacement on contember 2022 - Unit Bonoir
	1A 1B	27.5 27.5	27.5 27.5	Available Available				\$18.00	\$8.00	\$18.00		Unit on line; August 15: Voltaje Regulator Control falied; replecement on september 2022. Unit Repair Cost estimate \$18 millions for both units 1A an 1B. Mayor outagef inished on may 22 2022(ahead
	2A	27.5	27.5	Available			Eng. Jaime Umpierre					Turbine Failure; Do a assetment to repair the unit; forecast finish September 14 2022
	2B	27.5	27.5	Available			Hidro Gas Head					
MAYAGÜEZ	3A 3B	27.5 27.5	27.5 0	Available Not Available			Division					Problem with Gear box
	4A	27.5	27.5	Available			Eng. Waldo Córdoba	\$0.80	\$0.80	\$0.80		Combustor casing crack failure. First stage nozzle issues. Repair cost estimate \$800 K. Unit online february 5 2022
	4B	27.5	27.5	Available			Plant Manager					
Total Mayagüez		220	192.5	87.50%				\$18.80	\$8.80	\$18.80	\$0.00	
	1	82.5		Not available			Eng. Carmen	\$20.00	\$0.00	\$18.00	\$2.00	Unit out of service since 2011; Combustion turbine failure; Proposal \$18 millions and six months. Combustion Inspection from 19 feb to march 5; Outage beginind april 19 2022 until jun 15 2022; New
CAMBALACHE	2	82.5	0	Not Available			Quintana Plant Manager	\$8.90	\$4.00	\$6.90	\$2.00	Automatic Voltaje Regulator; Control System and Maintenance Services HTS. Outage LTSA with GE; Unit until august 14 2022 New Automatic Voltaje Regulator; Control System and
	3	82.5	82	Available			Trant Wanager	\$8.90	\$4.00	\$6.90	\$2.00	Maintenance Services HTS
Total Cambalache	1	247.5	82	33.13% Available				\$37.80	\$8.00	\$31.80	\$6.00	
VIEQUES	2	3	0	Not Available			Eng. Jaime					Troubleshooting control system issues.
	1	2	2	Available			Umpierre Hidro Gas Head					
Culebra	2	2	2	Available			Division					
Total Vieques	and Culehra	2 12	7	Not Available 58.33%								
Total Peaking & Emerg			578.5	39.34%				\$110.50	\$32.10	\$78.50	\$32.00	Availability
Total Feating & Emerg	ency offics	1,470.5	3/8.3	33.34%				2 of 3		7/0.30	352.00	Availability



Total NME (Necessary Maintenance Expenses)

Generation Directorate

Current Status of PREPA Generation Fleet

EV: February 27 2022

							RE	V: February 2	27 , 2023			
Power Station	Unit	Capacity (MW)	Available Capacity	Condition	Date of last major maintenance	Date of last major maintenance	Person in charge of attending	NME (Million)	FY 2021-22 Available Budget	FY22	FY23	Currents Status / Action Plan / Comments
								HYDROELEC	TRICS			
Toro Negro	1-1	1.5	1.5	Available								
Toro Negro	1-2	1.5	1.5	Available								
Toro Negro	1-3	1.5	1.5	Available								
Toro Negro	1-4	4	0	Not available								
Toro Negro	2	2	0	Not available								Turbine inlet main valve replacement. Phasing test pending.
Yauco	1	25	0	Not available				\$8.00	\$2.00	\$4.00	\$4.00	Pending turbine and generator major overhaul. Federal restoration funding allocation for \$8 million
Yauco	2-1	4.5	0	Not Available								Unit out of Service December 31 2021 General Inspection; Limited pending relay protection system modifications.
Yauco	2-2	4.5	4	Available			E. L. L. L.					
Garzas	1-1	3.6	3.6	Available			Eng. Jaime					
Garzas	1-2	3.6	1	Aavailable			Umpierre					Generator bearing repair. Expected in-service on October 2021.
Garzas	2	5	0	Not available			Hidro Gas Head Division					Transmission line failure due to Hurricane María. Federal restoration funding approved.
Caonillas Caonillas	1-1 1-2	9	0	Not available Not available			Head DIVISION	\$5.00		\$1.00	\$4.00	Station flooding failure due to Hurricane María. In preparation of specifications and bid process documents. Federal restoration funding allocation for \$5 millions.
Caonillas	2	3.6	0	Not available								Pending major restoration budget approvals.
Dos Bocas	1	5.0	0	Not Available								Restored generator in coordination for transportation to site.
Dos Bocas	2	5	0	Not Available								Restored generator in coordination for transportation to site.
Dos Bocas	3	5	5	Available								
Patillas	1-1	0.8	0	Not available								Downstream flow risk concerns.
Patillas	1-2	0.6	0	Not available								Downstream flow risk concerns.
Río Blanco	1	2.5	0	Not available								Penstock major failure. Federal restoration funding approved.
Río Blanco	2	2.5	0	Not available								Penstock major failure. Federal restoration funding approved.
Total Hydro	,	99.7	18.1	18.15%				\$13.00	\$2.00	\$5.00	\$8.00	

\$345.05

\$96.90

\$175.30

\$169.75

Annex D

PMO Amounts (Deposits January 2022 - FYTD 2023)	\$ 410,424,531.61
.ess: 11/16/22 Transfer	\$ (40,000,000.00)
Less: 12/15/22 Transfer	\$ (87,974,000.00)
	\$ 282,450,531.61
Emergency Reimbursement Accounts Balance (as of 3/16/23)	\$ 180,598,451.78
Difference	\$ 101,852,079.83
RECONCILIATION OF DIFFERENCE:	
Net Deposit Differences	\$ 26,914,844.50
Whitefish Transfers, net	\$ (90,289,283.00)
Other Transfers Prior to August 2022	\$ (38,280,371.83)
Other Account Activity, net	\$ (197,269.70)
Total	\$ (101,852,080.03)
	(0.20)

NOTES

¹ Based on deposits for FEMA public assistance from January 12, 2022 - March 6, 2023.

² Amounts represent balances for FEMA reimbursements. Excludes HMGP DR 4339 and WCA GBR No 4991 accounts.

³ These are non-PREPA deposits that were received prior to January 2022, along with other deposits not related to FEMA Public Assistance.

⁴ Includes the net amounts transferred to the PREPA Operating Accounts in March 2022 and April 2022 to fund the Whitefish Settlement Agreement.

⁵ Includes amounts transferred to the PREPA Operating Accounts.

⁶ Primarily relates to the return of unused ARPA and Premium Pay funds to the Central Government.

DRAFT - Subject to Change

RECONCILIATION OF PMO AMOUNTS				
	Reference to 'Summary			
	and 'Bank Account			
escriptions MO Amounts (Deposits FY 2022 / FYTD 2023)	Details' Tabs ⁽¹⁾	Ś	Amounts 410,424,531.61	Notes
		· ·		
sss: 11/16/22 Transfer sss: 12/15/22 Transfer	w x	\$	(40,000,000.00) (87,974,000.00)	
33. 22/22 11010101	^	\$	282,450,531.61	
1.0.1 / 50/0/00				
sh Balance (as of 3/9/23) er "Bank Account Details")		\$	181,253,135.78	
ss: HMGP Account is: LUMA-PW 11214- Small project reimbursement (3/10/23)	E	\$	(900,325.42) 24,514.78	
us: PREPA RFR-PW 7907 All Contractors (3/14/23)	F	\$	221,126.64	
ergency Reimbursement Accounts Balance (as of 3/16/23)	2	Ś	180,598,451.78	
				•
erence		\$	101,852,079.83	1
ONCILIATION OF DIFFERENCES:				
Deposit Differences (see details below)	3	\$	26,914,844.50	
tefish Transfers, net	4	\$	(90,289,283.00)	
- Toronfore Bullet & Avenue 2002	_			
r Transfers Prior to August 2022	5	\$	(38,280,371.83)	
r Account Activity, net (see details below)	6	\$	(197,269.70)	
			(101 052 005 ···	1
I		\$	(101,852,080.03)	1
sining Difference		\$	(0.20)]
0				
0	=			
NCILIATION OF DIFFERENCES:				
Master Tracker 03032023		\$	429,489,667.67	
eposit Differences (see details below)				
907: All Contractors	ĸ	\$		PREPA Reimbursement
937: Whitefish 3: CDBG Cost-Share	J L	\$	8,306,728.85 1,777,400.00	PREPA Reimbursement PREPA Reimbursement
76: Lord Electric MARIA	м	\$	790,541.83	PREPA Reimbursement
133 FM Technology 1742 / 10751 - FAASt [Distribution Pole and Conductor Repair-	N	\$		PREPA Reimbursement
1742 / 10751 - FAAST (Distribution Pole and Conductor Repair- 824: FAASt [Distribution Pole and Conductor Repair-		\$		LUMA Deposit LUMA Deposit
7: Costa Sur Discharge Channel	0	\$	59,918.50	
10: FAASt A&E PREPA	P P	\$		LUMA Deposit
10: FAASt A&E PREPA 10: FAASt A&E PREPA	P	\$	1,074,490.68	LUMA Deposit LUMA Deposit
94: Subrecipient Management Cost	P	\$	42,960.00	LUMA Deposit
510: FAASt A&E PREPA	P	\$	1,327,376.02	LUMA Deposit
11090 / 11123 / 11137 / 11152: FAASt [Distribution Pole and Conductor Repair-	Q	\$	217,966.29	LUMA Deposit
1150 / 11165 / 11168: FAASt [Distribution Pole and Conductor Repair-	R	\$	194,234.40	LUMA Deposit
0499: FAASt [Maunabo Streetlighting] (Distribution) Deposits	S	\$		LUMA Deposit
Deposits onal FEMA Reimbursement Account Deposits		\$	1,570,422.81 19,065,136.06	-
A&E PREPA - 9510 1: Duke	P	\$	7,101,748.00	
1: DUKE 615(0) RFR0019803	т	\$	(3,439,197.00)	
Differences		\$	-	
o sits after 2/28/23: PW 10702(0) - RFR0020698	A B	\$		Deposits after 2/28/23: Deposits after 2/28/23:
Responders Program , net	c	\$	151,304.50	. ,
um Pay, net	D	\$	46,000.00	
N-PW 11214- Small project reimbursement (3/10/23) A RFR-PW 7907 All Contractors (3/14/23)	E F	\$ \$	24,514.78 221,126.64	
reposit Differences	3	\$	26,914,844.50	
r Account Activity, net:				
Account Unused Funds to Central Government		\$	(154,304.50)	Return of unused funds
nium Pay Unused Funds to Central Government r Premium Pay		\$	(26,000.00) (17,000.00)	Return of unused funds
r Premium Pay r Amounts		\$		FEMA 4339 DR 428 Gene
Deposits In Error To FEMA Maria Account, Net		\$	-	
, net Act, net	6	\$	(197,269.70)	
	U	*	(137,203.70)	
EFISH DETAILS				
ents to Whitefish: nt Paid before Settlement Agreement		\$	37,056,105.00	
nent Agreement - First Payment		\$	63,800,717.17	
ment Agreement - Second Payment		\$	26,488,565.83	-
		\$	127,345,388.00	
A Reimbursements				
eived 11/12/21 eived 1/12/22	J J	\$	8,306,728.85 67,990,776.25	
ived 1/12/22 ived 4/8/22	U G	\$	67,990,776.25 35,054,911.90	
	-	\$	111,352,417.00	-
sfers to Operating Account				
sfers to Operating Account sfer 3/1/22 - Settlement Agreement - First Payment	v	\$	(63,800,717.17)	
ifer 4/11/22	н	\$	(35,054,911.90)	
rn Transfer to FEMA Account 5/3/22 ement Agreement - Second Payment	ı	\$	8,566,346.07 (26,488,565.83)	=
				_
efish Transfers, net	4	\$	(90,289,283.00)	

Notes

Numerical references reconcile to the 'Summary' tab; alphabetical references reconcile to the 'Bank Account' Details' tab.

not one-month	NET CHANGE IN REIMBURS ON-DRIVE ON-DRIVE CHARGE	SEMENT RELATED ACCOUNT BALANCES BOOK BOOK OF THE PROPERTY OF	G10-360478			DESCRIPTION OF	NEI CHANGE IN REINIBOR	SEMENT RELATED ACCOUNT BALANCES			FEERAL AWARDS DESCRIPTION
EPE SONS - FEMALES SEPTEMBER	MANAGEROK PANAGE BATSALIA COVO N	PENNI CERROR CER Deservation Pricentis ANTA Numbia Promission Flor HANCE CR CERT	FEMALKendursenent - TOTAL	Deposit Amount	Transfer to PREPA Obersting Account Other Transfers	Currently Unidentified (1901	707AL Check	Reference to Record distance Code Price Model factors	Disaber Number Type	PW1 PWName	Transfer Sa Annount Schartood by Sale Ancignett PRINT/CORM Cale Current Properties IRFK Comments
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1 .	\$ \$	- 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	5 5 372,711.36 5 1,712,000.00	20,018 1,01,000			\$ 272,711.06 \$ \$ 1,712,000.00 \$ \$	E 68 Frankrigt von 1980 1980. S Restriction in the Standard I		1801 All Parks Mari	6 VY VY N Vyddolfer Rounded Friedrikke MEMORTHON Michigan Tar
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				Transfer to	
PW	Event	PW Name	Amount Disbursed by	Sub-	Туре
			FEMA/COR3	Recipient	111-
PA-02-PR-4339-PW-09904	Emergengy Work - Maria Huracan	St. James Securities	70.110	Date 1/12/2022	Contract Cost Reimbursement
PA-02-PR-4339-PW-08937	Emergengy Work - Maria Huracan	Whitefish			Contract Cost Reimbursement
PA-02-PR-4339-PW-05838	Emergengy Work - Maria Huracan	Green Plant			Contract Cost Reimbursement
PA-02-PR-4339-PW-07907	Emergengy Work - Maria Huracan	All Contractors			Contract Cost Reimbursement
PA-02-PR-4339-PW-05910	Emergengy Work - Maria Huracan	C. Principe Electrical Contractors			Contract Cost Reimbursement
PA-02-PR-4339-PW-04233	Emergengy Work - Maria Huracan	FM Technology			Contract Cost Reimbursement
PA-02-PR-4339-PW-00251	Emergengy Work - Maria Huracan	COBRA 251	40,430,832	2/18/2022	Contract Cost Reimbursement
PA-02-PR-4339-PW-00294	Emergengy Work - Maria Huracan	LGE	199,022	3/4/2022	Contract Cost Reimbursement
PA-02-PR-4339-PW-01294	Administrative - Maria Huracan	Management Cost - Maria	7,575,342	3/4/2022	Contract Cost Reimbursement
PA-02-PR-4339-PW-00302	Emergengy Work - Maria Huracan	FPL	1,927,977	3/29/2022	Contract Cost Reimbursement
PA-02-PR-4339-PW-01294	Administrative - Maria Huracan	Management Cost - Maria	12,197,687	4/8/2022	Contract Cost Reimbursement
PA-02-PR-4339-PW-08937	Emergengy Work - Maria Huracan	Whitefish			Contract Cost Reimbursement
PA-02-PR-4473-PW-00506	Administrative - Earthquake	Subrecipient Management Cost			Contract Cost Reimbursement
PA-02-PR-4339-PW-06311	Emergengy Work - Maria Huracan	US Contractor Inspections (MEC) 90%			CDBG-DR Non-Federal Match
PA-02-PR-3384-PW-00072	Emergency Work - Huracan Irma	Perfect Integrated Solutions			CDBG-DR Non-Federal Match
PA-02-PR-3384-PW-00083	Emergency Work - Huracan Irma	Pro Energy			CDBG-DR Non-Federal Match
PA-02-PR-3384-PW-00150	Emergency Work - Huracan Irma	EMCCO Southorn			CDBG-DR Non-Federal Match
PA-02-PR-4339-PW-00295 PA-02-PR-4339-PW-00316	Emergengy Work - Maria Huracan Emergengy Work - Maria Huracan	Southern			Contract Cost Reimbursement
PA-02-PR-4473-PW-00638	Emergency Work - Maria Huracan Emergency Work - Earthquake	Exelon Earthquake Force Account T&D			Contract Cost Reimbursement Internal Cost Reimbursement
PA-02-PR-4339-PW-00301	Emergency Work - Earthquake Emergengy Work - Maria Huracan	Duke			Contract Cost Reimbursement
PA-02-PR-4473-PW-00591	Emergency Work - Barthquake	Costa Sur Emergency Repairs			Contract Cost Reimbursement
PA-02-PR-4339-PW-10455	Permanent Work - Maria Huracan	FAASt Mayaguez Hydro-Gas Power Plant			Contract Cost Reimbursement
PA-02-PR-4336-PW-00054	Emergency Work - Huracan Irma	Lord Electric			CDBG-DR Non-Federal Match
PA-02-PR-4339-PW-01105	Emergengy Work - Maria Huracan	Pacific Gas & Electric Company			Contract Cost Reimbursement
PA-02-PR-4339-PW-01100	Emergengy Work - Maria Huracan	AES	-		Contract Cost Reimbursement
PA-02-PR-4339-PW-01105	Emergengy Work - Maria Huracan	Pacific Gas & Electric Company			Contract Cost Reimbursement
PA-02-PR-4473-PW-00007	Earthquake Fuel	Earthquake Peaking Units	37,586,651	8/19/2022	Internal Cost Reimbursement
PA-02-PR-4473-PW-00007	Earthquake Fuel	Earthquake Peaking Units	10,017,956	8/19/2022	Internal Cost Reimbursement
PA-02-PR-4339-PW-10455	Permanent Work - Maria Huracan	FAASt Mayaguez Hydro-Gas Power Plant	2,421,482	8/19/2022	Contract Cost Reimbursement
PA-02-PR-4473-PW-00638	Emergency Work - Earthquake	Earthquake Force Account T&D	711,620	9/19/2022	Internal Cost Reimbursement
PA-02-PR-4473-PW-00615	Pemanent Work - Earthquake	Costa Sur Work Completed			Contract Cost Reimbursement
PA-02-PR-4339-PW-00305	Emergengy Work - Maria Huracan	WEC			Contract Cost Reimbursement
PA-02-PR-4339-PW-01294	Administrative - Maria Huracan	Management Cost - Maria			Contract Cost Reimbursement
PA-02-PR-4339-PW-00296	Emergengy Work - Maria Huracan	Centerpoint			Contract Cost Reimbursement
PA-02-PR-4339-PW-00304 PA-02-PR-4339-PW-00291	Emergengy Work - Maria Huracan	Xcel AMEREN			Contract Cost Reimbursement
PA-02-PR-4339-PW-00291	Emergengy Work - Maria Huracan Emergengy Work - Maria Huracan	XGL			Contract Cost Reimbursement
PA-02-PR-4473-PW-00682	Pemanent Work - Earthquake	Costa Sur Tanks			Contract Cost Reimbursement Contract Cost Reimbursement
PA-02-PR-4339-PW-05838	Emergengy Work - Maria Huracan	Green Plant			2 CDBG-DR Non-Federal Match
PA-02-PR-3384-PW-00145	Emergency Work - Huracan Irma	C. Principe Electrical Contractors			2 CDBG-DR Non-Federal Match
PA-02-PR-3384-PW-00149	Emergency Work - Huracan Irma	Retirees			2 CDBG-DR Non-Federal Match
PA-02-PR-4339-PW-03775	Emergengy Work - Maria Huracan	Retirees 90%	· ·		2 CDBG-DR Non-Federal Match
PA-02-PR-4339-PW-00323	Emergengy Work - Maria Huracan	OGE			2 Contract Cost Reimbursement
PA-02-PR-4473-PW-00007	Earthquake Fuel	Earthquake Peaking Units	51,999,184	10/27/2022	Internal Cost Reimbursement
PA-02-PR-4473-PW-00638	Emergency Work - Earthquake	Earthquake Force Account T&D	29,828	10/27/2022	! Internal Cost Reimbursement
PA-02-PR-4339-PW-10568	Permanent Work - Maria Huracan	FAASt Aguirre Power Plant 002 Units 1 &2	9,040,166	11/2/2022	Contract Cost Reimbursement
PA-02-PR-4339-PW-01294	Administrative - Maria Huracan	Management Cost - Maria			2 Contract Cost Reimbursement
PA-02-PR-4339-PW-01294	Administrative - Maria Huracan	Management Cost - Maria			Contract Cost Reimbursement
PA-02-PR-4339-PW-10568	Permanent Work - Maria Huracan	FAASt Aguirre Power Plant 002 Units 1 &2			2 Contract Cost Reimbursement
PA-02-PR-4339-PW-01110	Emergengy Work - Maria Huracan	Southern Californis Edison Co.			? Contract Cost Reimbursement
PA-02-PR-4339-PW-10615	Permanent Work - Maria Huracan	FAASt [San Juan 001 – Units 5 & 6] (Generation		, ., .	Contract Cost Reimbursement
PA-02-PR-4339-PW-01219	Emergengy Work - Maria Huracan	KPM			Contract Cost Reimbursement
PA-02-PR-4339-PW-00442	Emergengy Work - Maria Huracan	Berrios Electric			Contract Cost Reimbursement
PA-02-PR-4339-PW-03264 PA-02-PR-4339-PW-00744	Emergengy Work - Maria Huracan	CRG Engineering Corp			Contract Cost Reimbursement
PA-02-PR-4339-PW-00744 PA-02-PR-4339-PW-10622	Emergengy Work - Maria Huracan Permanent Work - Maria Huracan	Wanto Electric Co. FAASt [Aguirre Power Plant 003 Combined Cycle]			Contract Cost Reimbursement
PA-02-PR-4339-PW-10622 PA-02-PR-4339-PW-09312	Permanent Work - Maria Huracan Permanent Work - Maria Huracan	FAASt Mobile Generation Units Purchases			Contract Cost Reimbursement Contract Cost Reimbursement
PA-02-PR-4339-PW-02218	Emergengy Work - Maria Huracan	Marcelo Electrical Contractors			Contract Cost Reimbursement Contract Cost Reimbursement
PA-02-PR-4339-PW-00682	Pemanent Work - Earthquake	Costa Sur Tanks			Contract Cost Reimbursement Contract Cost Reimbursement
PA-02-PR-4339-PW-03165	Emergengy Work - Maria Huracan	Bonneville Contracting and Tehcnology Group			Contract Cost Reimbursement
PA-02-PR-4339-PW-10615	Permanent Work - Maria Huracan	FAASt [San Juan 001 – Units 5 & 6] (Generation	-		Contract Cost Reimbursement
PA-02-PR-4339-PW-10455	Permanent Work - Maria Huracan	FAASt Mayaguez Hydro-Gas Power Plant Permanen			Contract Cost Reimbursement
PA-02-PR-4339-PW-10702	Permanent Work	FAASt [FAAST Costa Sur Power Plant Permanent	-		Contract Cost Reimbursement
			410,424,531,61		

410,424,531.61

PREPA- FAAST Reimi	bursements Rece	ived								PW St	ummary			
Die	isaster Number	Туре	PW#	PW Name	Transfer to Sub-Recipient Date	Days Outstanding	Current Progress:	RFR#	PW Obligated Amount	Obligated Federal Cost Share 90%	Working Capital Advances	Total Reimbursed 90%	Deposited Amount per "CF v Master Tracker" tab	Variance
DFMO4339502	4339	RFR	9312	FAASt Mobile Generation Units Purchases	2/1/2023		71 Payment Complete	RFR0021571	\$ 59,740,469.92			\$ 53,766,422.93	\$ 53,766,422.93	\$
DFMO4339518	4339	RFR	10702	FAASt [FAAST Costa Sur Power Plant Permanent SOWs reimbursed:	3/6/2023		149 Payment Complete	RFR0020698	\$ 42,299,739.00	\$ 38,069,764.69		\$ 1,868,774.00	\$ 1,868,773.50 \$	0.50
				SOWs reimbursed: SOW 3065- Unit 6 LP-B Repair & Instalation Work (Failure)										
				SOWs not reimbursed:										
				SOW 3046 - Traveling Screens Replacement										
				SOW 3047 - Replacement of Regulator Valves for Boiler Feed Water Units 5 & 6										
				SOW 3048 - Low Pressure Water Heater 3 Repair Work SOW 3049 - Procurement of Water Heater 5 (Deaerator) Spare Pump										
				SOW 3050 - Procurement & Replacement of Air-Preheaters Baskets, Unit 5										
				SOW 3051 - Replacement of Air-Preheaters Baskets, Unit 5 SOW 3052 - CCWP and BCWP Spare Motors for Units 5 and 6										
				SOW 3053 - Procurement of (IDF) and (FDF) Spare Motors for Units 5 and 6										
				SOW 3054 - Procurement of Condensate Pump (CP) Motor for Units 5 and 6 SOW 3055 - Replacement of Unit 5 Electric Load Center										
				SOW 3056 - Replacement of Unit 5 Electric Load Center SOW 3056 - Replacement of Excitation System Units 5 and 6										
				SOW 3057 - Replacement of 4160 V Electric Cable Normal Transformer SA, 5B										
				SOW 3058 - CS SMajar Inspection Unit 5 - HP/IP/LP Turbine Rotor Replacement SOW 3059 - Unit 5 Boiler Replace and Repairs & Auxiliary Equipment Repairs										
				SOW 3060 - Water Heater 6 Replacement Work										
				SOW 3062 - Unit 6 - HP/IP/LP Inspection (Failure) - To be combined w/ 3058 SOW 3063 - BFWP Inner Barrel Bundle										
				SOW 3067 - Fuel Igniters Replacement Work										
DFMO4339513	4339	RFR	10615	SOW 3066 - AGC - Replacement Project FAASt [San Juan 001 Winits 5 & 6] (Generation	1/10/2023		197 Payment Complete	RFR0019803					\$ 3,439,197,00 \$	
DFMO4339513 DFMO4339513	4339 4339	RFR	10615	FAASt [San Juan 001 Binits 5 & 6] (Generation FAASt [San Juan 001 Binits 5 & 6] (Generation	1/10/2023 2/27/2023		197 Payment Complete 246 Payment Complete	RFR0019803 RFR0019803	\$ 60,080,016.00	> 54,072,013.96		\$ 10,897,403.00	\$ 3,439,197.00 \$ \$ 7,458,206.11	(0.11
1				SOWs reimbursed:										
				SOW 1001- Units 5 Cooling Tower Replacement SOW 1003- Units 5 Condenser Repair and Coating Application										
				SOW 1006- Units 5 Replacement of Outlet Valves and Elbow Condenser										
				SOW 1020- Control System Upgrade units 5 & 6 SOW 1024- Purchases and Installation of Modules D&E HRSG Unit 5										
				30W 2024- For Clases and Machinery of Microbias Date Fried One 3										
				SOWs not reimbursed: SOW 1002 - Units 5 New High Pressure Pumps										
				SOW 1002 - Units 5 New High Pressure Pumps SOW 1004 - Units 5 HP Bleed Valve, LP Bleed Valve and Heat Injection Steam Valve										
				SOW 1005 - Units 5 and 6 Black Start Emergency Generator Upgrade										
				SOW 1013 - Unit 5 SCR - Amonium Procurement SOW 1014 - Units 5 Heavy Equipment Rental Services										
				SOW 1018 - LTSA SJ5										
				SOW 1019 - LTSA SIG SOW 1017 - Steam Rotor Replacement Unit 5 & CT Repairs										
				SOW 1023 - Unit 6 - Major Overhaul (Steam Turbine Replacement and CT Repairs)										
				SOW 1025 - Replacement of the Online Condenser Cleaner Unit 5 SOW 1026 - Unit 6 - Major Overhaul - Baller Repairs										
				N/A - Purchase and installation 20 TON for UPS Units 5 & 6										
DFMO4339504 DFMO4339504	4339 4339	RFR RFR	10455 10455	FAASt Mayaguez Hydro-Gas Power Plant Permanen FAASt Mayaguez Hydro-Gas Power Plant Permanen	2/27/2023 8/19/2022		95 Payment Complete 53 Payment Complete	RFR0021271 RFR0019508	\$ 18,192,583.00	\$ 16,373,324.32		\$ 15,987,669.75	\$ 42,373.49 5 \$ 2,421,482.00	\$ 0.19
DFMO4339504	4339	RFR	10455	FAASt Mayaguez Hydro-Gas Power Plant	6/22/2022		71 Payment Complete	RFR0018545					\$ 13,523,814.07	
				SOWs reimbursed:										
				SOW 7092 - Unit 1A, 1B and 4A Rehabilitation Emergency SOW-Variable frecuency control water pump										
				Emergency SOW-Fuse										
DFMO4339505	4339	WCA	10571	Emergency SOW- CELL, SAMPLE, TM820V-400, AVANTECHTORAY MEMBI FAASt Aguirre Power Plant 001 Infrastructure	7/14/2022		7 Payment Complete	RFR0019600	\$ 2.021.265.00	\$ 2,728,138.55	\$ 682.024.6	\$ 667,000.00	\$ 667,000,00	c .
				•	1/18/2023		151 Payment Complete-Against	RFR0020740	3,031,203.00	5 2,720,230.33	5 002,034.0	007,000.00	\$ 007,000.00	~
DFMO4339505	4339	RFR	10571	FAASt Aguirre Power Plant 001 Infrastructure SOWs reimbursed:	1/10/2023		advance	11110020740						
				SOW 2034-Two New Condenser Discharge Water Pumps Motors										
				and the second s										
				SOWs not reimbursed: SOW 2033: Rehabilitation Fuel Tank Farm Liners										
				SOW 2035: Two New BCWP Motors										
DFMO4339506	4339	RFR	10568	SOW 2044: Purchase and Installation Breakers 480 V FAASt Aguirre Power Plant 002 Units 1 &2	12/12/2022		147 Payment Complete	RFR0020793	\$ 20,905,908 nn	\$ 18,815,318.06		\$ 9,355,381.67	\$ 315,216.00	s
DFMO4339506	4339	RFR	10568	FAASt Aguirre Power Plant 002 Units 1 &2	11/2/2022		141 Payment Complete	RFR0019311		. 20,020,020.00		,,-31.07	\$ 9,040,165.67	
				SOWs reimbursed: SOW 2042- Unit 1 - Major Inspection (Replacement Turbo-Generator)										
				SOW 2042- Unit 1 - Major Inspection (Replacement Turba-Generator)										
				SOWs not reimbursed:										
				SOW 2029 - Unit 1 South Wall Boiler Tubing Replacement and Boilers Repairs										
				/Air and Gas Duct Pre-heaters Repair Wark SOW 2031 - Replacement of Load Center 1-4 Condenser Circulating Water Pump										
				SOW 2031 - Replacement of Load Center 1-4 Condenser Circulating Water Pump SOW 2041 - Inner Barrel Bundle										
DE1404035	407.7	pro	40	SOW 2043 - Unit 2 Excitation System	4 lac lr		454 5		A 5 402 222	A 400		A 4	A 451-515	
DFMO4339507	4339	RFR	10622	FAASt [Aguirre Power Plant 003 Combined Cycle] SOWs reimbursed:	1/26/2023		151 Payment Complete	RFR0020742	\$ 5,405,870.36	\$ 4,865,283.32		\$ 124,874.10	\$ 124,874.30 \$	(0.20
				SOW 2040-Hot Gas Path Inspection Work Units 1-1 and 1-2										
				SOWs not reimbursed:										
				SOW 2036 - Procurement of Stages 1-1 & 1-2 Turbine Rotor Bucket Set										
				SOW 2037 - New Water Condensate Tank										
				SOW 2038 - Major inspection Unit 1-3 SOW 2039 - Hot Gas Path Repairs Work Units 2-4 and stand by transformer										
DFMO4339501A	4339	RFR	9510	FAASt A&E PREPA	5/31/2022		71 Payment Complete	RFR0018054	\$ 486,406,842.43	\$ 437,766,158.19		\$ 4,939,500.24	\$ 4,939,500.24	\$
DFMO4339518 DFMO4339512	4339 4339	WCA WCA	10694 10609	FAASt Costa Sur 002 - Infrastructure projects FAASt [Palo Seco 002- Auxiliary Infrastructure	7/14/2022 7/8/2022		7 Payment Complete 1 Payment Complete	RFR0019604 RFR0019606	\$ 1,250,000.00	\$ 1,125,000.00 \$ 3,134,221.20	\$ 281,250.00)	\$ - \$ -	s c
DFMO4339501B	4339	WCA	10609	FAASt [Equipment and Materials]	8/18/2022		2 Payment Complete	RFR0019699	\$ 797,183,125.20	\$ 717,464,812.68	\$ 147,622,821.75	5		\$
DFMO4339501B	4339	WCA	10710	FAASt Equipment and Materials	3/6/2023		28 Payment Complete	RFR0021021			\$ 31,743,381.42	2	\$ -	\$
				TOTAL								\$ 97,607,025.69	\$ 97,607,025.31 \$	0.38

 $[\]label{eq:Notes} \textbf{A} \quad \text{The $54.9M$ reimbursement for PW $9510 offsets the working Capital Advance of $7.1M$ received on $10/14/2021 for the same PW.}$

SOWs Not Approved or Not Submitted

							Funding For	mulation			
# PW	FEMA ID	Project Title	Fund	Asset	Project Formulation Status	Cost Estimate	PREB Approval	FEMA Approval	Commencement Date	Date of Completion	Percentage of Completion
6 10571	669498	FAASt Aguirre Power Plant Infrastructure Projects 001	428	Generation	Approved	5,274,222	5,274,222	-		Apr-23	N/A
	2032	Sea Water Intake Structural Repairs Work				5,274,222	5,274,222	Not eligible	Not eligible	Not eligible	Not eligible
7	670036	FAASt Fire Pump for Aguirre Power Complex (AG-004)	428	Generation	Developing Detailed SOW	280,040	280,040	To be submitted	Jun-22	Jun-23	0%
10 10615	662947	FAASt San Juan 001 – Units 5 & 6	428	Generation	Approved	17,350,000	17,350,000	-		Mar-24	N/A
	1013	Unit 5 SCR - Ammonium Procurement				500,000	500,000	Not eligible	Not eligible	Not eligible	Not eligible
	1014	Units 5 Heavy Equipment Rental Services				850,000	850,000	Not eligible	Not eligible	Not eligible	Not eligible
	1018	LTSA SJ5				8,000,000	8,000,000	Not eligible	Not eligible	Not eligible	Not eligible
	1019	LTSA SJ6				8,000,000	8,000,000	Not eligible	Not eligible	Not eligible	Not eligible
11 11085	687480	FAASt San Juan Plant – Units 7 & 8	428	Generation	Approved	18,000,000	-	-		Oct-22	0%
	1021	Unit 8 Rehabilitation (Turbine)				10,000,000	Pending	Pending	Jul-22	Oct-22	0%
	1028	Unit 8 Boiler Replacement and Repairs & Auxiliary Equipment Repa	irs			8,000,000	Pending	Pending	Jul-22	Oct-22	0%
12	Pending	FAASt San Juan Plant – Unit 10	428	Generation	Pending PREB Approval	16,764,783	764,783	Pending		Sep-23	50%
	1009	Cooling Tower Unit 10 Repair Works				385,000	385,000	Pending	Mar-23	Sep-23	0%
	1016	Unit 10 Rehabilitation				16,000,000	Pending	Pending	Mar-23	Sep-23	0%
	N/A	Lagging and thermal insulation repair to sjsp 9 and 10				342,783	342,783	Pending	N/A	N/A	100%
	N/A	Enderezamiento/colocacion grua overhead en carril - u. 9 y 10 csj				37,000	37,000	Pending	N/A	N/A	100%
13 10608	667744	FAASt San Juan Power Plant - Auxiliary Infrastructure	428	Generation	Approved	232,727	232,727	-		Jan-23	N/A
	1015	Water Treatment and Technical Assistance Cooling Water System				232,727	232,727	Not eligible	Not eligible	Not eligible	Not eligible
16 10606	662957	FAASt Palo Seco Steam Plant Unit 3-4	428	Generation	Approved	700,000	700,000	-		Jan-24	N/A
	4074	Contract, on request, for Crane Services PS4				700,000	700,000	Not Eligible	Not Eligible	Not Eligible	Not Eligible
17 10609	671481	FAASt Palo Seco Steam Plant Permanent Repairs	428	Generation	Approved	1,036,800	1,036,800	-		Jun-24	100%
	4077	Mega-Gens Environmental Comissioning				1,036,800	1,036,800	Consolidated 334509	N/A	Jun-22	100%
18	Pending	FAASt Hydro Gas Permanent Repairs	428	Generation	Developing Detailed SOW	50,180,000	50,180,000	To be submitted		Dec-24	0%
	5082	Spare Generator Breakers for Frame 5000 Hitachi Gas Turbines				650,000	650,000	To be submitted	Jan-23	Jun-23	0%
	5083	Procurement of Turbo-Compressors for Frame 5000 Gas Turbines				7,800,000	7,800,000	To be submitted	Jan-23	Dec-23	0%
	5084	Procurement of Spare Speed Reduction Gear for Frame 5000 Gas	Turbines			1,560,000	1,560,000	To be submitted	Jan-23	Dec-23	0%
	5085	New Spare Three Exhaust Plenums for Frame 5000 Gas Turbines				780,000	780,000	To be submitted	Jan-23	Dec-23	0%
	5086	Three Exhaust Gas Diffusion Ducts for Frame 5000 Gas Turbines				390,000	390,000	To be submitted	Jan-23	Dec-23	0%
	5087	Major Outage Turbo -compressor (CT) 15 units				39,000,000	39,000,000	To be submitted	Jan-23	Dec-24	0%
19 10607	663383	FAASt Cambalache Power Plant Permanent Repairs	428	Generation	Approved	32,500,000	14,500,000	-		Jun-24	67%
	6088	Unit 1 Rehabilitation				18,000,000	Pending	Pending	Mar-23	Sep-23	0%
	6089	Control System Power Plant Maintenance -Generator and Technic	al Services			2,500,000	2,500,000	Not Eligible	Jan-24	Jun-24	100%
	6091	LTSA Units Camb 1, 2, 3				12,000,000	12,000,000	Not Eligible	Jun-23	Dec-23	100%

	Location
	Aguirre Power Plant
	Aguirre Power Plant
	San Juan Power Plant
	San Juan Power Plant
	San Juan Power Plant
	San Juan Power Plant
	San Juan Power Plant
	All Power Plants
	All Power Plants
	One has Brown Blant
	San Juan Power Plant
	Palo Seco Steam Plant
	Palo Seco Steam Plant
H	Hydrogas Gas Turbine Peakers
H	Hydrogas Gas Turbine Peakers
H	Hydrogas Gas Turbine Peakers
H	Hydrogas Gas Turbine Peakers
H	Hydrogas Gas Turbine Peakers
ŀ	Hydrogas Gas Turbine Peakers
	Cambalache
	Cambalache
	Cambalache

Annex E

Directorate	PID	ProjectDescription		Budget	Transfer of Funds		Actual at February 2023	Forescast at June 2023 Under	/Over Rudget	BI BI Description	Resp Resp 2	Planta	PlanArea	PlanSubArea		Funding Category	Project Criticality
Directorate	FID	riojectoescription		2022-2023	Transfer of Fullus	Budget Neview	(Freiminary)	Torescast at Julie 2023 Officer	/Over Budget	bi Description		Fianta	FialiAlea	Thermal	Турсоты	Category	Project Criticality
Generation	14169	Boiler Improvement U-2 - Aguirre Steam Plant	Replace high pressure heaters #6 and #7 and corner valves on burners.	6,200,000.00	(1,200,000.00)	5,000,000.00	927,277.14	5,000,000.00	0.00	160 Improvements to Steam Boilers	Jefe Divisón Central 342 Generatriz Aguirre	Aguirre Steam Plant	Production	Production Plant	Improvement	Reliability	Maintain
			The procurement and delivery of two motors for replacement of											Thermal			
Generation	15243	Two Motor Replacement for Motor Driven Boiler Feed Pumps	existing motors for both Units 1 and 2 Boiler Feed Water Pumps. Without the availability of these BFWPs the Unit cant not start up.	2,600,000.00	-	2,600,000.00	1,654,165.25	1,697,610.07	902,389.93	160 Improvements to Steam Boilers	Jefe Divisón Central 342 Generatriz Aguirre	Aguirre Steam Plant	Production	Production Plant	Improvement	Reliability	Maintain
Generation	19634	Control Upgrade to Mark VIe	Aguirre Frame 5000 currently use obsolete Speedtronic Mark I Controls	800,000.00	(650,000.00)	150,000.00	-	150,000.00	0.00	Improvement to Other Balance of Plants 195 Combined Cycle	Jefe Central Ciclo 304 Combinado	Aguirre Combined Cycle Units	Production	Other Production	Improvement	Reliability	Maintain
			Procurement and installation of 12 - 600 A, 480 V Breakers and 4 - 1,600 A, 480 V Breakers for Normal Bus 1A EESS (The breakers												·		
Generation	12200	3 Purchase and Installation Breakers 480 V	must be procured by PREPA because it is on the Generation side of the agreed line of demarcation).	300,000.00	(300,000.00)					360 Rehabilitation of Substations	Jefe Divisón Central 342 Generatriz Aguirre	Aguirre Steam Plant	Distribution	Other Distribution	Improvement	Poliability	Utility Standard
Generation	12288	PULLIASE AND HISTAIIAUDII DIEAKEIS 400 V	_	300,000.00	(500,000.00)	-	-			300 Reliabilitation of Substations		Aguirre Steam Plant	Distribution	Thermal	improvement	Reliability	Othity Standard
Generation	16972	Procurement of Air-Preheaters Baskets, Unit 5	Procurement and delivery of hot and cold sections baskets and other components of the pre-heaters of Unit 5.	1,000,000.00	870,000.00	1,870,000.00	575,308.08	1,870,000.00	0.00	160 Improvements to Steam Boilers	Jefe Divisón Central 354 Generatriz Costa Sur	Costa Sur Steam Plant	Production	Production Plant	Improvement	Reliability	Maintain
			Replacement of Auxiliary equipment load centers and breakers for							Improvements to Steam Turbine	Jefe Divisón Central			Thermal Production			
Generation	16974	Replacement of Unit 5 Electric Load Center	turbines 5 due to obsolescence.	1,000,000.00	-	1,000,000.00	363,154.41	1,000,000.00	0.00	165 Generator	354 Generatriz Costa Sur	Costa Sur Steam Plant	Production	Plant Thermal	Improvement	Reliability	Maintain
Generation	NEW	Replacement of Excitation System Units 5 and 6	Procurement and installation of an upgrade for the excitation system. The manufacturer discontinued production of spare parts.	1,000,000.00	(1,000,000.00)					Improvements to Steam Turbine 165 Generator	Jefe Divisón Central 354 Generatriz Costa Sur	San Juan Steam Plant	Production	Production Plant	Improvement	Daliability	Maintain
Generation	INEVV			1,000,000.00	(1,000,000.00)	-	-			165 Generator		San Juan Steam Plant	Production	Thermal	improvement	Reliability	ividiiItalii
Generation	New	Procurement of Induced Draft Fan (IDF) and Forced Draft Fan (FDF) Spare Motors for Units 5 and 6	Procurement and delivery of motors to be storage as spare parts to avoid units forced outages and/or load limitations.	870,000.00	(870,000.00)	-	=			160 Improvements to Steam Boilers	Jefe Divisón Central 354 Generatriz Costa Sur	San Juan Steam Plant	Production	Production Plant	Improvement	Reliability	Maintain
			Procurement and delivery of motors to be storage as spare parts								Jefe Divisón Central			Thermal Production			
Generation	NEW	Procurement of Condensate Pump (CP) Motor for Units 5 and 6	to avoid units forced outages and/or load limitations. PREPA manages two (2) contracts to cover the security needs of	870,000.00	(870,000.00)	-	-			170 Improvements to Steam Balance of Plant	354 Generatriz Costa Sur	San Juan Steam Plant	Production	Plant	Improvement	Reliability	Maintain
			the Power Plants. PREPA needs to purchase equipment for digital monitoring and printing of employee IDs. Also, PREPA needs to										Fi		Facilities and		
			replace security cameras at the generation sites, in addition to the										Equipment		Equipment		
Generation	19517	7 Security Equipment - Other Facilities	equipment for digital console monitoring.	1,109,000.00	-	1,109,000.00	-	1,109,000.00	0.00	564 Other Equipment - Administrative Services	666 Administración de Co	ntratos y Servicios Técnicos	1	Other Equipment		Safety	Mandatory
			Design and construction of fire protection systems to comply with insurance and other regulatory compliance requirements. San Juan														
			Fire Protection work includes fire detection and suppression system maintenance and repair. Aguirre Power Complex fire														
			protection work includes design for above ground piping to replace														
			the obsolete underground piping system, which has undetectable and therefore irreparable leakage. PREPA will execute an RFP														
			process for the design drawings and specifications to relocate the existing fire suppression system at Aguirre. PREPA will undertake a														
			separate competitive procurement process for the relocation of underground fire suppression piping, including any electrical and														
Generation	1004	Fire Protection Systems - Generation	control data systems, piping lines, fire protection, and water storage and delivery infrastructure.	4,500,000.00	(3,078,000.00)	1,422,000.00		505,846.00	916,154.24	199 Other Improvement to Generation Plants	287 Director Generación	All Power Plant	Production	Other Production	Improvement	Cofoty	Mandatory
Generation	19041	The Protection Systems - Generation		4,300,000.00	(3,078,000.00)	1,422,000.00		303,840.00	510,134.24	199 Other Improvement to Generation Flants	287 Birector Generacion	All Fower Flatt	Froduction	FIOduction	improvement	Salety	ivialidatol y
			Project included design, build and repair of tank dedicated for storage of raw water, demineralized water and process water,														
			along with any repairs and maintenance of concrete or earth dikes in power plants. Any repairs shall have the purpose of having the														
			storage capacity provisions for the production of demineralized water for the production of superheat steam to move the turbine											Thermal			
Generation	19639	Water Storage Tanks and Dike Improvements	and to comply with all state and federal codes, standards and regulations, such as: API 653, NPDES, and ASCE-7.	5,200,000.00	(2,687,700.00)	2,512,300.00	781,763.76	2,512,300.00	0.00	170 Improvements to Steam Balance of Plant	287 Director Generación	All Power Plant	Production	Production Plant	Improvement	Safety	Mandatory
deneration	15050	Water storage rains and sine improvements	Supply all materials, equipment and services for the surface	3,200,000.00	(2,007,700.00)	2,312,300.00	761,763.76	2,512,500.00	0.00	170 Improvements to steam balance of Figure	207 Pirecesi Generación	7 III OWEI FIGURE	1 Todaction		improvement	Surcey	
		Coating Application Boiler Structures and Chimneys All Power	preparation and application of paint coating of all structural elements that supports all the power plant's boiler components								Jefe Divisón Central			Thermal Production			
Generation	New	Plants	and also the exhaust stacks.	3,600,000.00	(3,600,000.00)	=	-			160 Improvements to Steam Boilers	354 Generatriz Costa Sur	San Juan Steam Plant	Production	Plant	Improvement	Reliability	Maintain
			San Juan Structural Repairs Fuel Service Tank 10 Structural steel repairs of floor, roof, shell, columns and beams elements of a														
			existing fuel service tank and application of new anti-corrosive coating on the interior and exterior of the tank.														
			Aguirre Rehabilitation Fuel Tank Farm Liners. Rehabilitation,														
			repair, and installation a of approximately 46,000 square feet of Flexible Membrane Liner System of the Aguirre Fuel Farm area.														
			Palo Seco Fuel Tanks Level Measurement System. Procurement and delivery of an integrated measurement, accounting, control,											Thermal			
Generation	1963	Fuel Storage Tanks Improvement	monitoring, and temperature system for the power plant's fuel tanks.	5,500,000.00	(3,409,427.00)	2,090,573.00	14,938.75	2,090,573.00	0.00	150 Fuel Manangement and Storage	287 Director Generación	All Power Plant	Production	Production Plant	Improvement	Safety	Mandatory
deneration	19037	The storage rains improvement	turks.	3,300,000.00	(3,403,427.00)	2,030,373.00	14,550.75	2,030,373.00	0.00	130 r der Mahangement and Storage	287 Director deficiación	Airrowerriane	Toduction	Thermal	improvement	Surcey	ivialidatory
Generation	19619	CEMS y Metros de Particulado Filtra para Centrales	Monitoring Equipment CEMS	1,000,000.00	(935,000.00)	65,000.00	63,157.75	65,000.00	0.00	175 Pollution Control Projects	287 Director Generación		Production	Production Plant	Improvement	Safety	Mandatory
			For the purchase of approximately 45 vehicles. Current fleet is unsafe & unreliable, dating back to 1999-2000 model years.														
			Vehicles are urgently needed in order to sustain operations. Hydro & Gas is comprised of 51 generating units in 20 power stations,														
			which are spread throughout the islands, along with several										Facilities :		Faultan :		
			reservoirs, channels and tunnels. All of which require personnel movement between stations for operations, repairs, inspections										Equipment		Equipment		
			and maintenance. The Hidro-Gas Division units are responsible for immediate emergency response and electrical grid restoration and														
Generation	19879	9 Vehicle Replacement - PREPA	stability during blackouts, such as the blackout event that occurred starting on April 6, 2022.	1,500,000.00	(1,040,000.00)	460,000.00	128,430.00	460,000.00	0.00	545 Equipment - Adquisition and Replacement	287 Director Generación	All Power Plant		portation Equip		Safety	Mandatory
		Transaction of the state of the	This blanket is for environmental projects with equipment	, ,	, , = -,301	2.7,222.00	,3.00		2,00	4-1				Thermal Production		,	
Generation	9543	Blectric System Environmental Projects	purchases that require capitalization.	1,000,000.00	-	1,000,000.00	825,594.26	1,000,000.00	0.00	175 Pollution Control Projects	287 Director Generación	All Power Plant	Production	Plant	Improvement	Safety	Mandatory

Directorate	PID	ProjectDescription		Budget 2022-2023	Transfer of Funds	Budget Review	Actual at February 2023 (Preliminary)	Forescast at June 2023 Un	ider/Over Budget I	BI BI Description	Resp Resp 2	Planta	PlanArea	PlanSubArea	TypEofBI	Funding Category	Project Criticality
			Replacement of Battery Banks for generating units with the purpose of providing DC Power to protection systems of the turbine and boiler of the units. This DC Power is used when, there				(· · · · · · · · · · · · · · · · · · ·										,
Generation	19895	Battery Bank Replacements	is a loss on the AC Power and without the DC back up the units will trip and the customers may experience loadsheds.	500,000.00	670,000.00	1,170,000.00	118,815.34	1,170,000.00	0.00	199 Other Improvement to Generation Plants	287 Director Generación	All Power Plant	Production	Other Production	Improvement	Reliability	Maintain
Generation	724:	Equipment for Production Division	This blanket provides for the purchase and capitalization of different equipment's used in all plants	504,000.00	(250,000.00)	254,000.00	-	254,000.00	0.00	568 Other Equipment - Electric System	287 Director Generación	All Power Plant	Office Furniture and Equipment	Other Equipment	Other Equipment	Reliability	Mandatory
Generation	1992	Small Improvement for Generation Building Facilities	This blanket is required to attend important priorities of buildings repairs on walls, roofs, stairs on all sites of Generation.	411,000.00	-	411,000.00	83,404.50	411,000.00	0.00	Improvement Land & Builddings - 476 Electrict System	287 Director Generación	All Power Plant	General Land and		General Land	Reliability	Mandatory
			This blanket is intended to supply all the technologies needs of the generation actualization mainly computers, monitors, cameras										Office Furniture	Computer	Computer		
Generation	614	Electric System Office Automat	speakers etc. This blanket provides to attend and capitalize different Security	250,000.00	-	250,000.00	934.26	250,000.00	0.00	528 Computer Equipment - Electric System	287 Director Generación	All Power Plant	and Equipment Office Furniture	Equipment	Equipment	Efficiency	Utility Standard
Generation	16993	Security Equipment-Generation	Equipment on Generation facilities, this is to preserve PREPAS property and the wellbeing of our staff.	200,000.00	(125,060.00)	74,940.00	3,650.00	60,644.00	14,296.00	576 Other Equipment - Corporate Security	287 Director Generación	All Power Plant	and Equipment	Equipment	Equipment	Safety	Mandatory
			Safety Equipment is meant to provide for the safety of the employees in dangerous sites and situation like confined spaces,										Office Furniture	Other	Other		
Generation	1986	Safety Equipment Generation	hoists, gas monitors and other special tools. Inspection and maintenance to the Aero-derivative units to assure	150,000.00	(83,357.50)	66,642.50	-	66,642.50	0.00	568 Other Equipment - Electric System	287 Director Generación	All Power Plant	and Equipment	Equipment	Equipment	Safety	Mandatory
Generation	16978	Aereoderivative Improvement of Mayaguez	reliability and extension of useful life. Aeroderivative Units Inspections. Annual Borescope Inspection	6,550,000.00	2,327,557.00	8,877,557.00	4,820,134.70	8,877,557.00	0.00	Improvement to Balance Turbine Simple 187 Cycle	Jefe de Central Hidro 315 Gas	Mayaguez Gas-Turbine Power Plant	Production	Other Production	Improvement	Efficiency	Maintain
			(B) Frame 5 Major Inspections & components - Peaking Units. \$1.5 M each for Vega Baja 1-2, Aguirre 2-1, Palo Seco 2-1 & Jobos 1-2.														
			These Hidro-Gas Division units are responsible for immediate emergency response and electrical grid restoration and stability														
Generation	14000	Four (4) Major Inspections Hydro Gas Plant	during blackouts, such as the blackout event that occurred starting on April 6, 2022.	4.400.000.00	(1,300,000.00)	3,100,000.00	24,367.37	3,100,000.00	0.00	Improvement to Balance Turbine Simple 187 Cycle	Jefe de Central Hidro 315 Gas	Hydro-Gas Remote Power Plant	Production	Other Production	Improvement	Poliability	Maintain
Generation	1406	From (4) Major Inspections nyuro das Plant		4,400,000.00	(1,300,000.00)	3,100,000.00	24,307.37	5,100,000.00	0.00	187 Cycle	513 Gds	Power Plant	Production	Production	improvement	Reliability	IVIdIIILdIII
			LTSA Units Cambalache 1-2-3. Long Term Service Agreement for the A, B & C (Major) inspections on the Cambalache Units. Provide														
			the technical advisors and consumables for all the inspections and the replacement of the scheduled Hot Gas Path parts (capital														
			parts) The A & B are the minor inspections. Basis for the estimate is														
			the expected payments to OEM in the LTSA contract, for the expected fired-hour use of units 2 & 3 throughout the FY 22-23.														
			There is no need for an OEM estimate, as the payment for fired hours account for their maintenance obligations. This amount is to							Improvement Combustion Turbines	Jefe Central -			Other			
Generation	15880	Major Inspection Unit 1-3 Cambalache	fund the fired hours for maintenance of units 2 & 3.	1,600,000.00	200,000.00	1,800,000.00	112,520.92	1,800,000.00	0.00	185 Simple Cycle	305 Cambalache	Cambalache Gas Plant	Production	Production	Improvement	Reliability	Maintain
			Provide technical support and parts replacement for the generating unit control systems with Original Equipment														
			Manufacturer trained technical advisors. The provided services will be a complete maintenance program for														
			the continuous operations of the included equipment and its systems, especially for the obsolete equipment's. It will include														
			parts replacement, software updates, backups, servers & network														
			devices health issues solution and unexpected issues solutions. (Cambalache). The Costs on the Automatic Voltage Regulator														
		Control System Power Plant Maintenance - Generator and	Replacment are based on OEM's proposal, which was requested due to obsolescense on the existing equipment due to reach of the								Jefe Central -			Thermal Production			
Generation	NEW	Technical Services	useful life.	1,200,000.00	(200,000.00)	1,000,000.00	-		1,000,000.00	170 Improvements to Steam Balance of Plant	305 Cambalache	Cambalache Gas Plant	Production	Plant	Improvement	Reliability	Maintain
			Replacement of the EDI (Electrodeionization System), which is the														
			electrically-driven water treatment technology that uses electricity, ion exchange membranes and resin to remove ionized species														
			from water. This equipment has reached its useful life and needs							Improvement to Balance Turbine Simple		Manager Con Trushing		Other			
Generation	19866	Demi Plant Improvement	to be replaced. Also, there going to be some maintenance on the Reverse Osmosis System and in one of the WTP tanks.	500,000.00	-	500,000.00	-	-	500,000.00	187 Cycle	314 Central de Gas - Maya	Mayaguez Gas-Turbine guePower Plant	Production	Production	Improvement	Reliability	Mandatory
			Procurement of parts and repairs to gas ducts, filter houses, cooling towers, water and fuel pump and control valves of Units 2							Improvement to Balance Turbine Simple	Jefe Central -			Other			
Generation	19920	Cambalache GT Units & Auxiliaries Repairs	and 3.	400,000.00	-	400,000.00	585,361.06		-185,361.06	187 Cycle Improvement Land & Builddings -	305 Cambalache Jefe Divisón Central	Cambalache Gas Plant	Production General Land and	Production General Land	Improvement General Land	Reliability	Maintain
Generation	NEW	Operation & Office Trailer	Acquisition of a 40 Ft Office Trailer	30,000.00	(30,000.00)	-	-			476 Electrict System	354 Generatriz Costa Sur	San Juan Steam Plant	Building	and Building	and Building	Reliability	Maintain
Generation	NEW	Operation & Office Trailer	Acquisition of a 20 Ft Office Trailer	20,000.00	(20,000.00)	-	-			Improvement Land & Builddings - 476 Electrict System	Jefe Divisón Central 354 Generatriz Costa Sur	San Juan Steam Plant	General Land and Building	General Land and Building	General Land and Building	Reliability	Maintain
			Required payment under contract with New Fortress Energy for								Contratos de Ingenierí	a -		Thermal Production			
Generation	19900	Natural Gas Manufacturing Surcharge - San Juan Steam Plant	delivery of LNG to the San Juan complex. Unit 6 - Payment for Operational Fire hours necessary for Major	10,050,000.00	=	10,050,000.00	5,833,333.31	10,050,000.00	0.00	150 Fuel Manangement and Storage	101 Generación	San Juan Steam Plant	Production	Plant	Improvement	Efficiency	Iniciative
			Inspection of the Combustion Turbine and Including the Rotor							land of the control o	lefe Diriefe Control			Other			
Generation	16946	5 LTSA SJ6	Exchange and Torque Tube. Fire Hours (\$8M), Rotor Exchange and Torque Tube (\$4M)	8,000,000.00	2,000,000.00	10,000,000.00	4,575,611.41	10,000,000.00	0.00	Improvement to GasTurbines Combined 196 Cycle	Jefe Divisón Central 348 Generatriz San Juan	San Juan Steam Plant	Production	Production	Improvement	Reliability	Maintain
Generation	1694	LTSA SJ5	Unit 5 - Payment for Operational Fire hours necessary for future combustor, turbine and major inspection Unit 5	8,000,000.00	-	8,000,000.00	9,547,460.52		-1,547,460.52	Improvement to GasTurbines Combined 196 Cycle	Jefe Divisón Central 348 Generatriz San Juan	San Juan Steam Plant	Production	Other Production	Improvement	Reliability	Maintain
			The Supply of steam turbines L-0 and L-1 rows of buckets for Units 5 and 6. The one for Unit 6 will be used during Major Repair of the														
			steam turbine on Fy 2023-24. The one for Unit 5 will used as a														
			spare for the next major repair work or in case of an emergency repair project on this unit. The procurement is necessary to be														
Generation	1704	L-O & L-1 Blades Rotor Turbine STG6 , STG5	perform during this period because of the lead time of 30 weeks for this equipment.	2,000,000.00	(2,000,000.00)	_	_			Improvements to Steam Turbine 190 Generator Combined Cycle	Jefe Divisón Central 348 Generatriz San Juan	San Juan Steam Plant	Production	Other Production	Improvement	Efficiency	Maintain
ocher auton	1704		Procurement, delivery, installation and commissioning of an	2,000,000.00	(2,000,000.00)					250 Scherator Combined Cycle		zan saan steam i idilt	. 1000000011	Thermal	provement	c.y	
Generation	1982	5 DEMI Plant Upgrade Control - San Juan Steam Plant	Upgrade to the Foxboro DCS Control System of the Water Demi Control System.	1,000,000.00	(1,000,000.00)		=			170 Improvements to Steam Balance of Plant	Jefe Divisón Central 348 Generatriz San Juan	San Juan Steam Plant	Production	Production Plant	Improvement	Efficiency	Utility Standard
			The supply of circulating water pumps that will be use during the major repair works of the boiler of the Unit 6 and during any														
			emergency repair needed on any of unit's 5 or 6. This is an								John División Conta I			Thermal			
Generation	16982	2 Buy CWP-5&6	essential equipment necessary for the operation of the boiler systems of both units.	800,000.00	(800,000.00)	-				170 Improvements to Steam Balance of Plant	Jefe Divisón Central 348 Generatriz San Juan	San Juan Steam Plant	Production	Production Plant	Improvement	Efficiency	Utility Standard
												-					

				Budget			Actual at February 2023								Funding	
Directorate	PID	ProjectDescription		2022-2023	Transfer of Funds	Budget Review	(Preliminary)	Forescast at June 2023 Under/Over Budget	BI BI Description	Resp Resp 2	Planta	PlanArea	PlanSubArea Thermal	TypEofBI	Category	Project Criticality
Generation	19807	Debris Filter Control System Upgrade U 7-8	Replacement of the Debris Filter control system of the Condensers to extend the life of the equipment and improve efficiency.	800.000.00	200.000.00	1.000.000.00	42.764.61	1.000.000.00	00 170 Improvements to Steam Balanc	Jefe Divisón Central e of Plant 348 Generatriz San Juan		Production	Production Plant	Improvement	Efficiency	Maintain
Generation	15007	SESTIMENT CONTROL SYSTEM OPENING OF S	Replace critical pressure parts components of San Juan Generation	000,000.00	200,000.00	1,000,000.00	12,70 1101	2,000,000.00	170 improvements to steam balance	5 to Generaliz San Sau	Sun yaan Steam Flant	rioduction	T Idire	mprovement	Emelency	Widiritain
			Complex Unit 5 Heat Recovery Steam Generator (HRSG), specifically: Module D High Pressure Economizer 3 Tubes Bundles,													
			Module D Intermediate Pressure Evaporators Tubes Bundles,													
			Module E Intermediate Pressure Economizer Tubes Bundles, Module E High Pressure Economizer 1 Tubes Bundles, Module E						Combined Cycle Heat Recovery	Jefe Divisón Central			Other			
Generation	17039	Installation of Modules D&E HRSG Unit 5	High Pressure Economizer 2 Tubes Bundles. Repairs related to maintenance, repairs and conservation of	500,000.00	(500,000.00)	-	-		198 Improvement	348 Generatriz San Juan	San Juan Steam Plant	Production	Production	Improvement	Efficiency	Maintain
			building components such as air conditioning units, inspection and													
			cleaning air ducts to avoid mold in working areas, replacement and repairs office electrical breakers and dry type transformers, repairs													
			of stairs, and replacement of doors, toilets and lighting fixtures due						Improvement Land & Buildding			General Land and		General Land		
Generation	19954	Building Maintenance	to useful life expiration. The supply and replacement of the regulator valves for the boiler	500,000.00	(250,000.00)	250,000.00	-	250,000.00	476 Electrict System	348 Generatriz San Juan	San Juan Steam Plant	Building	and Building	and Building	Reliability	Maintain
		Progurament and Replacement of Regulator Valves for Reiler	feed water system of the Unit 5 is essential for the Unit's 5 steam							Jefe Divisón Central			Thermal Production			
Generation	19818	Procurement and Replacement of Regulator Valves for Boiler Feed Water Units 5	stage of the unit. This equipment has a lead time of approximately 18 to 24 weeks after placing order.	250,000.00	(250,000.00)	-	-		170 Improvements to Steam Balanc		San Juan Steam Plant	Production	Plant	Improvement	Efficiency	Maintain
			Replacement of UPS system to ensure DC power for the unit's							Jefe Divisón Central			Thermal Production			
Generation	19819	UPS para Unidades SJ	protection system.	125,000.00	-	125,000.00	-	125,000.00 0.0	1 .	e of Plant 348 Generatriz San Juan		Production	Plant	Improvement	Reliability	Utility Standard
Generation	14672		Conservación Programada Unidades a Gas Stag 1 y 2	_	3,234,847.00	3,234,847.00	2,228,145.53	3,234,847.00 0.0	Improvement to GasTurbines C 196 Cycle	ombined Jefe Central Ciclo 304 Combinado	Aguirre Combined Cycl Units	e Production	Other Production	Improvement	Reliability	Maintain
		Foxboro Advantage Cyber Security Project - Aguirre Ciclo	Foxboro Advantage Cyber Security Project - Aguirre Ciclo						Improvement to Other Balance		Aguirre Combined Cycl		Other		,	
Generation	19939	Combinado	Combinado Provide technical support and parts replacement for the	-	2,000,280.00	2,000,280.00	1,130,333.60	2,000,280.00 0.0	00 195 Combined Cycle	304 Combinado	Units	Production	Production	Improvement	Safety	Utility Standard
			generating unit control systems with Original Equipment Manufacturer trained technical advisors.													
			The provided services will be a complete maintenance program for													
			the continuous operations of the included equipment and its systems, especially for the obsolete equipment's. It will include													
			parts replacement, software updates, backups, servers & network										Thermal			
Generation	18651	Control System Power Plant Maintenance -Generator and Technical Services - Aguirre	devices health issues solution and unexpected issues solutions. (Aguirre)	1,250,000.00		1,250,000.00	476,183.83	1,250,000.00 0.0	Improvements to Steam Turbin 165 Generator	Jefe Divisón Central 342 Generatriz Aguirre	Aguirre Steam Plant	Production	Production Plant	Improvement	Reliability	Maintain
		<u></u>	0.0	, ,		, ,	,	7 - 22 - 2 - 2					Thermal			
Generation	14165	Rehabilitación TurboGenerador Unidad 1 - Central Aguirre		-	3,450,000.00	3,450,000.00	1,804,428.64	3,450,000.00 0.0	Improvements to Steam Turbin 165 Generator	Jefe Divisón Central 342 Generatriz Aguirre	Aguirre Power Plant	Production	Production Plant	Improvement	Efficiency	Maintain
										Jefe Divisón Central			Thermal Production			
Generation	19941	Mallas de Retención Jetty - Central Palo Seco		-	40,000.00	40,000.00	-	40,000.00 0.0		e of Plant 360 Generatriz Palo Sec		Production	Plant	Improvement	Safety	Mandatory
Generation	17041	Componentes de Repuesto Unidad 5 & 6 - Central San Juan			800,000.00	800,000.00	28,524.18	800,000.00	Improvement to Other Balance 195 Combined Cycle	of Plants Jefe Divisón Central 348 Generatriz San Juan		Production	Other Production	Improvement	Efficiency	Utility Standard
demeration	17011				300,000.00	000,000.00	20,32 1120	0.00,000,000	133 combined cycle		San yaan Steam Flant	rioduction	Thermal	mprovement	Emelency	Standard
Generation	19816	Sistema limpieza continúa condensadores Unidad 5 & 6 y 7 & 8 – Central San Juan		-	300,000.00	300,000.00	6,950.17	300,000.00 0.0	00 170 Improvements to Steam Balanc	Jefe Divisón Central e of Plant 348 Generatriz San Juan	San Juan Steam Plant	Production	Production Plant	Improvement	Efficiency	
		Remplazo de canastro precalentadores Unidad 7 – Central San								Jefe Divisón Central			Thermal Production			
Generation	19943	Juan		-	1,200,000.00	1,200,000.00	-	1,200,000.00	00 170 Improvements to Steam Balanc			Production	Plant	Improvement	Efficiency	Maintain
Generation	17040	Mantenimiento programado del HRSG Unidad 6 - Central San			380,000.00	380,000.00	_	380,000.00 0.0	Combined Cycle Heat Recovery 198 Improvement	Jefe Divisón Central 348 Generatriz San Juan		Production	Other Production	Improvement	Efficiency	Maintain
		Bundle repuesto de bombas de alimentación Unidad 5 & 6							Improvement to Other Balance	of Plants Jefe Divisón Central			Other	,		
Generation	19883	Central San Juan		-	250,000.00	250,000.00	-	250,000.00 0.0	00 195 Combined Cycle Improvement to Balance Turbir	348 Generatriz San Juan e Simple Jefe de Central Hidr		Production	Production Other	Improvement	Efficiency	Maintain
Generation	19944	Rehabilitación Mayor a las turbinas de combustion Vega Baja 1-1		-	1,000,000.00	1,000,000.00	-	1,000,000.00	00 187 Cycle Improvement to Balance Turbin	315 Gas e Simple Jefe de Central Hidr	Vega Baja TC	Production	Production	Improvement	Efficiency	Utility Standard
Generation	19945	Rehabilitación Mayor a las turbinas de combustion Vega Baja 1-2		-	2,225,000.00	2,225,000.00	-	1,950,000.00		315 Gas	Vega Baja TC	Production	Production	Improvement	Efficiency	Utility Standard
Generation	19946	Rehabilitación Mayor a las turbinas de combustion Palo Seco 1-2			2,225,000.00	2,225,000.00	_	1,950,000.00 0.0	Improvement to Balance Turbir 00 187 Cycle	e Simple Jefe de Central Hidr 315 Gas	Palo Seco TC	Production	Other Production	Improvement	Efficiency	Utility Standard
		,							Improvement to Balance Turbir	e Simple Jefe de Central Hidr			Other			
Generation	19947	Rehabilitación Mayor a las turbinas de combustion Aguirre 1-2		-	2,247,555.00	2,247,555.00	-	1,995,109.50 0.0	00 187 Cycle	315 Gas		Production	Production Thermal	Improvement	Efficiency	Utility Standard
					070 000 00	070 000 00		070 000 00		Jefe Divisón Central			Production		F10: -	Lucin Co. L. I
Generation	19940	Acquisition of Auxiliary Equipment for Units 5 & 6 Costa Sur		-	870,000.00	870,000.00	-	870,000.00 0.0	00 170 Improvements to Steam Balance	e of Plant 354 Generatriz Costa Su	r Costa Sur Steam Plant	Production	Plant Thermal	Improvement	Efficiency	Utility Standard
Generation	16073	Rehabilitación Caldera Unidad 6 CCS			1,000,000.00	1,000,000.00		1,000,000.00	00 160 Improvements to Steam Boiler	Jefe Divisón Central 354 Generatriz Costa Su		Production	Production Plant	Improvement	Efficiency	Maintain
Generation		Rehabilitar Turbogenerador de Vapor Unidad 1 - 2, Ciclo		-	1,000,000.00		-	1,000,000.00	Improvements to Steam Turbin		Aguirre Combined Cycl		Other	improvement	Efficiency	Maintain
Generation	16752	Combinado Central Aguirre		-	450,000.00	450,000.00	-	450,000.00 0.0	00 190 Generator Combined Cycle Improvement to GasTurbines C	304 Combinado ombined Jefe Central Ciclo	Units Aguirre Combined Cycl	Production e	Production Other	Improvement	Efficiency	Maintain
Generation	19485	HRSG's Improvements - Combined Cycle Plant Aguirre		-	200,000.00	200,000.00	-	200,000.00 0.0		304 Combinado	Units	Production	Production	Improvement	Efficiency	Maintain
									Improvements to Steam Turbin	Jefe Divisón Central			Thermal Production			
Generation	13442	HP and IP Rotor Improvement - Aguirre Steam Plant		-	-	-	32,670.11		165 Generator	342 Generatriz Aguirre	Aguirre Steam Plant	Production	Plant	Improvement	Reliability	Maintain
Generation	19951	Mejoras Aeroderivadas FT8 Palo Seco		-	1,294,860.00	1,294,860.00	795,578.85	1,294,860.00 0.0	Improvement to Balance Turbir 00 187 Cycle	e Simple Jefe de Central Hidr 315 Gas	Mayaguez Gas-Turbine Power Plant	Production	Other Production	Improvement	Efficiency	Maintain
										Jefe Divisón Central			Thermal Production			
Generation	19916	AVR (ABB) Unidad 2 – Central Aguirre		-	840,000.00	840,000.00	455,002.50	840,000.00 0.0	00 160 Improvements to Steam Boiler		Aguirre Steam Plant	Production	Plant	Improvement	Reliability	Maintain
										Jefe Divisón Central			Thermal Production			
Generation		Boiler Improvement Unit 4 Palo Seco Steam Plant		0	-	-	154,501.41		160 Improvements to Steam Boiler			Production	Plant	Improvement	Reliability	Maintain
Facilities Facilities		Bonus Plant Small Improvement for other Building Facilities of PREPA		1,000,000.00 500,000.00	(350,000.00)	650,000.00 500,000.00	30,944.00					 		 		
Generation	14092	Hydroelectric Units Improvement NME		1,500,000.00	(1,500,000.00)	-	·									
Generation iT/OT		Preliminary Studies - Dams and Reservoirs Technology and Communications Equipment, Software, and		500,000.00 5,000,000.00	(579,000.00)	500,000.00 4,421,000.00	98,534.00 370,691.00					+	+			
iT/OT		Replace the Lightning Detection and Location System		500,000.00	(300,000.00)	200,000.00	2.0,031.00									
			·					·	·	·	-					

Puerto Rico Power Authority NME - FY 2022-23

			Budget		,	Actual at February 20	123										Funding	
Directorate	PID ProjectDescription		2022-2023	Transfer of Funds	Budget Review ((Preliminary)	Forescast at June 2023	Under/Over Budget	BI	BI Description	Resp	Resp 2	Planta	PlanArea	PlanSubArea	TypEofBI	Category	Project Criticality
iT/OT	15910 Meteorological Data Collection Equipment		500,000.00	(400,000.00)	100,000.00	1,738	.00											
Generation	19678 Aeroderivadas Improvement Mayaguez GC			802,445.50	802,445.50													
		Station and Equipment Protective Coating to withstand harsh																,
Generation	New Hydroelectric Units Station Protective Coating	& damp environment	1500000	(1,500,000.00)	-													

99,039,000.00 - 99,039,000.00 38,696,373.22 79,330,269.07 1,600,018.59

Annex F

AUTORIDAD DE ENERGIA ELECTRICA OFIC SUBDIRECTORA DE OPERACIONES ESTIMADOS DE CONSTRUCCION APROBADOS FONDOS FEDRALES

TITULO SOW RESP PID ESTIMADO PROJECT TO DATE REIMBURSED EXPENSES 02/28/2023 FAASt AGUIRRE COMBINED CYCLE REPAIR PW 10622 1-3 107538 129.727.96 2038 Major inspection Unit 1-3 19937 304 165 FAASt NEW RAW WATER TANK SAN JUAN PW 10608 POWER PLANT U 7-10 1011 19931 107539 348 170 539,846.07 Units 7-10 New Raw Water Tank BARREL ASSEMBLY BOMBAS PW 10568 ALIMENTACION AGUIRRE 1 Y 2 19938 107541 342 160 254,990.25 2041 Inner Barrel Bundle FAASt COSTA SUR POWER PLANT CAUSTIC SODA & ACID TANKS REPLACEMENT PW 10694 Caustic Soda and Acid tanks replacement works 19936 107542 354 175 122,800.00 FAASt SAN JUAN POWER PLANT CONTROL PW 10615 SYSTEM UPGRADES 5 Y 6 1020 Control System Upgrade units 5 & 6 19935 107550 348 190 FAASt BOILER, GENERATOR & TURBINE PW 10606 REPAIRS PALO SECO STEAM PLANT UNIT 3 PS3 Boiler Repairs; MPT, Generatior and turbine Repair & Aux. Equipment 19934 107551 360 170 309,461.42 FAASt PALO SECO STEAM PLANT UPGRADE PW 10609 - OSI DCS 4078 Upgrade OSI DCS 19933 107554 360 199 FAAST UPGRADE TO MARK VI PALO SECO PW 10606 STEAM PLANT UNITS 3 & 4 19934 107555 360 4079 Upgrade to Mark VI e 170 FAASt PALO SECO STEAM PLANT -PROCUREMENT TURNING GEAR SYSTEM PW 10606 **UNITS 3 & 4** 19934 107559 360 170 Procurement Turning Gear System, Units 3 and 4 FAASt STRUCTURE REPAIRS FUEL SERVICE PW 10608 TANK 10 107560 1,081,992.70 1012 Structural Repairs Fuel Service Tank 10 19931 348 170 FAASt PURCHASE OF WATER WALL TUBES AND ECONIMIZER PALO STEAM PLANT -PW 10606 UNIT 3 PS 3 Procurement and Delivery of Water Wall Boiler Tubes and Economizer 19934 107567 360 170 2,400,000.00 FAASt REPLACEMENT OF TWO UNINTERRUPTIBLE POWER SUPPLY PW 11085 SYSTEM UNIT 7 & 8 Replacement of Two Uninterruptible Power Supply Systems for Units 7 and 8 107586 900/170 1010 19952 348 FAASt SAN JUAN POWER PLANT COOLING PW 10615 TOWER REPLACEMENT UNIT 5 & 6 1001 19935 107587 900/190 342,884.99 764,399.00 Units 5 Cooling Tower Replacement 348 FAASt PALO SECO STEAM PLANT NEW WATER CONDENSATE 1-2 TANK PW 10609 4076 New Water Condensate 1-2 Tank 19933 107592 360 900/199 228,179.70 FAASt COSTA SUR POWER PLANT UNIT 5 PW 10702 HP IP LP TURBINE ROTOR REPLACEMENT 19952 107593 3,481,333.20 3058 CS 5Major Inspection Unit 5 - HP/IP/LP Turbine Rotor Replacement 354 900/170 FAAST NEW WATER CONDENSATE TANK PW 10622 FOR THE AGUIRRE COMBINED CYCLE 2037 19937 107594 304 900/165 147,448.80 New Water Condensate Tank FAAST PSSP FUEL TANKS LEVEL PW 10609 MEASUREMENT SYSTEM 4071 19933 107598 360 900/199 Fuel Tanks Level Measurement System 9,038,665.09

Annex G

Puerto Rico Power Authority NME - FY 2021-22

		Budget Transfer of					Disaster									Funding	
Directorate	PID ProjectDescription	2021-22 Funds	Budget Review	Actual at June 2022	Under/Over Budget	INTERNAL ID	Number	PW #	PW Name	sow	Comment BI	BI Description	Resp Resp 2	Planta Plan.	Thermal	TypEofBI Category	Project Criticality
Generation	19637 Fuel Storage Tanks Improvement	3,650,000 (2,918,000.00)	732,000.00	657,990.03	74,009.97						1	50 Fuel Manangement and Storage	287 Director Generación	Prod	Production uction Plant Thermal	Improvement Safety	Mandatory
Generation	19900 Natural Gas Manufacturing Surcharge - San Juan Steam Plant	10,050,000 (451,767.48)	9,598,232.52	9,226,962.77	371,269.75						1	50 Fuel Manangement and Storage	Contratos de Ingeniería 101 Generación	San Juan Steam Plant Prod	Production	Improvement Efficiency	Iniciative
Generation	9578 Conductos y Enbudos	500,000 (500,000.00)			-						1	60 Improvements to Steam Boilers	Jefe Divisón Central 360 Generatriz Palo Seco	Palo Seco Steam Plant Prod	Production	Improvement Efficiency	Maintain
Generation	13422 Boiler Improvement Unit 3 - Palo Seco Steam Plant	1,000,000 -	1,000,000.00	1,921,327.49	(921,327.49)						1	60 Improvements to Steam Boilers	Jefe Divisón Central 360 Generatriz Palo Seco	Palo Seco Steam Plant Prod	Production	Improvement Reliability	Maintain
Generation	14169 Boiler Improvement U-2 - Aguirre Steam Plant	150,000 (150,000.00)	-	-	-						1	60 Improvements to Steam Boilers	Jefe Divisón Central 342 Generatriz Aguirre	Aguirre Steam Plant Prod	Production	Improvement Reliability	Maintain
Generation	19916 AVR - Central Aguirre	350,000.00	350,000.00	165,653.45	184,346.55						1	60 Improvements to Steam Boilers	Jefe Divisón Central 342 Generatriz Aguirre	Aguirre Steam Plant Prod	Production	Improvement Reliability	Maintain
Generation	15243 Boiler Improvement U-1 - Aguirre Steam Plant	9,000,000 (1,681,000.00)	7,319,000.00	7,302,389.93	16,610.07	DFMO4339505	4339	10571	FAASt Aguirre Power Plant 001 Infrastructure	SOW 2034-Two New Condenser Discharge Water Pumps Motors	1	60 Improvements to Steam Boilers	Jefe Divisón Central 342 Generatriz Aguirre	Aguirre Steam Plant Prod	Production plant Thermal	Improvement Reliability	Maintain
Generation	16969 Boiler Improvement Unit 4 Palo Seco Steam Plant	1,475,000 -	1,475,000.00	2,422,067.79	(947,067.79)						1	60 Improvements to Steam Boilers	Jefe Divisón Central 360 Generatriz Palo Seco	Palo Seco Steam Plant Prod	Production uction Plant Thermal	Improvement Reliability	Maintain
Generation	16972 Rehabilitación Caldera Unidad 5 - Central Costa Sur	1,000,000 (50,000.00)	950,000.00	1,636,277.92	(686,277.92)						1	60 Improvements to Steam Boilers	Jefe Divisón Central 354 Generatriz Costa Sur	Costa Sur Steam Plant Prod	Production	Improvement Reliability	Maintain
Generation	Compra "Barrel Assembly" Bombas Alimentación 5 y 6 - Central 19554 Costa Sur	1,200,000 -	1,200,000.00	1,250,214.52	(50,214.52)						1	60 Improvements to Steam Boilers	Jefe Divisón Central 354 Generatriz Costa Sur	Costa Sur Steam Plant Prod	Production Plant Thermal	Improvement Reliability	Maintain
Generation	19660 Piping Hangers Replacement Unit 3 and 4 palo Seco Steam Plant	100,000 (100,000.00)			-					SOW 2042- Unit 1 - Major	1	60 Improvements to Steam Boilers	Jefe Divisón Central 360 Generatriz Palo Seco	Palo Seco Steam Plant Prod	Production Plant Thermal	Improvement Safety	Maintain
Generation	13442 HP and IP Rotor Improvement - Aguirre Steam Plant	7,000,000 2,484,000.00	9,484,000.00	13,031,956.80	(3,547,956.80)	DFMO4339506	4339	10568	FAASt Aguirre Power Plant 002 Units 1 &2	Inspection (Replacement Turbo- Generator)	1	Improvements to Steam Turbine 65 Generator	Jefe Divisón Central 342 Generatriz Aguirre	Aguirre Steam Plant Prod	Production Plant Thermal	Improvement Reliability	Maintain
Generation	14800 Turbine Generator Improvement Unit 3 Palo Seco Steam Plant	250,000 -	250,000.00	483,457.11	(233,457.11)						1	Improvements to Steam Turbine 65 Generator	Jefe Divisón Central 360 Generatriz Palo Seco	Palo Seco Steam Plant Prod	Production plant Thermal	Improvement Reliability	Maintain
Generation	16974 Turbine Generator Improvement Unit 5 Costa Sur Steam Plant	1,500,000 (400,000.00)	1,100,000.00	1,635,032.84	(535,032.84)						1	Improvements to Steam Turbine 65 Generator	Jefe Divisón Central 354 Generatriz Costa Sur	Costa Sur Steam Plant Prod	Production	Improvement Reliability	Maintain
Generation	18651 Rehabilitación del Turbogenerador Unidad 2 - Central Aguirre	1,500,000 -	1,500,000.00	2,454,699.51	(954,699.51)						1	Improvements to Steam Turbine 65 Generator	Jefe Divisón Central 342 Generatriz Aguirre	Aguirre Steam Plant Prod	Production Plant Thermal	Improvement Reliability	Maintain
Generation	14135 Planta Desmineralizadora y Pulidores Unidad 1-2, Central Aguirre	250,000 150,000.00	400,000.00	105,375.66	294,624.34						1	70 Improvements to Steam Balance of Plant	Jefe Divisón Central 342 Generatriz Aguirre	Aguirre Steam Plant Prod	Production	Improvement Reliability	Mandatory
Generation	Cooling Towers Units 3 & 4	250,000 (250,000.00)	-		-						1	70 Improvements to Steam Balance of Plant	Jefe Divisón Central 360 Generatriz Palo Seco	Palo Seco Steam Plant Prod	Production Plant Thermal	Improvement Reliability	Maintain
Generation	16117 Bomba Sistema de Incendio - Central Aguirre	800,000 -	800,000.00	74,847.58	725,152.42						1	70 Improvements to Steam Balance of Plant	Jefe Divisón Central 342 Generatriz Aguirre	Aguirre Steam Plant Prod	Production Plant Thermal	Improvement Safety	Mandatory
Generation	19477 Traveling Screens - San Juan Steam Plant	900,000 (800,000.00)	100,000.00	52,131.27	47,868.73						1	70 Improvements to Steam Balance of Plant	Jefe Divisón Central 348 Generatriz San Juan	San Juan Steam Plant Prod	Production Plant Thermal	Improvement Reliability	Mandatory
Generation	19638 Water Storage Tanks and Dike Improvements	5,700,000 (4,811,647.31)	888,352.69	746,777.42	141,575.27						1	70 Improvements to Steam Balance of Plant	287 Director Generación	Prod	Production Plant Thermal	Improvement Safety	Mandatory
Generation	19639 Traveling Screens - Palo Seco Steam Plant	1,000,000 (250,000.00)	750,000.00	670,326.02	79,673.98						1	70 Improvements to Steam Balance of Plant	Jefe Divisón Central 360 Generatriz Palo Seco	Palo Seco Steam Plant Prod	Production	Improvement Reliability	Maintain
Generation	19663 Condenser Improvement Unit 3-4 DCPS	400,000 250,000.00	650,000.00	482,666.72	167,333.28						1	70 Improvements to Steam Balance of Plant	Jefe Divisón Central 360 Generatriz Palo Seco	Palo Seco Steam Plant Prod	Production Plant Thermal	Improvement Efficiency	Maintain
Generation	19819 UPS para Unidades SJ	325,000 (125,000.00)	200,000.00	82,067.92	117,932.08						1	70 Improvements to Steam Balance of Plant	Jefe Divisón Central 348 Generatriz San Juan	San Juan Steam Plant Prod	Production Plant Thermal	Improvement Reliability	Utility Standard
Generation	19923 Steam Coils Units - Palo Seco Steam Plant	750,000 (750,000.00)									1	70 Improvements to Steam Balance of Plant	360 Jefe Divisón Central Generatriz Palo Seco	Palo Seco Steam Plant Prod	Production Plant Thermal	Improvement Reliability	Maintain
Generation	Turbine Control Valvules - Palo Seco Steam Plant 13448 Corrigieron el PID A: 13448 ya que por error lo crearon NEW	1,000,000 -	1,000,000.00	929,577.08	70,422.92						1	70 Improvements to Steam Balance of Plant	360 Jefe Divisón Central Generatriz Palo Seco	Palo Seco Steam Plant Prod	Production Plant Thermal	Improvement Reliability	Maintain
Generation	9543 Environmental Projects On the Electric System	1,000,000 428,227.52	1,428,227.52	1,313,765.86	114,461.66						1	75 Pollution Control Projects	287 Director Generación	Prod	Production Plant Thermal	Improvement Safety	Mandatory
Generation	19722 Treatment Plant Filters - Palo Seco Steam Plant	750,000 (750,000.00)	-	-	-						1	75 Pollution Control Projects	Jefe Divisón Central 360 Generatriz Palo Seco	Palo Seco Steam Plant Prod	Production Plant	Improvement Reliability	Mandatory
Generation	15880 Major Inspection Unit 1-3 Cambalache	3,000,000 44,381.00	3,044,381.00	3,040,381.34	3,999.66						1	Improvement Combustion Turbines 85 Simple Cycle	Jefe Central - 305 Cambalache	Cambalache Gas Plant Prod	Other Production	Improvement Reliability	Maintain
Generation	14089 Three (3) Major Inspections Hydro Gas Plant	4,070,000 (3,420,549.79)	649,450.21	462,185.52	187,264.69					Rehabilitation	1	Improvement to Balance Turbine Simple 87 Cycle	Jefe de Central Hidro 315 Gas	Power Plant Prod	Other Production	Improvement Reliability	Maintain
Generation	16978 Aereoderivative Improvement of Mayaguez	5,000,000 13,755,000.00	18,755,000.00	19,079,900.69	(324,900.69)	DFMO4339504	4339	10455	FAASt Mayaguez Hydro-Gas Power Plant Permanen	Emergency SOW-Variable frecuency control water pump	1	Improvement to Balance Turbine Simple 87 Cycle	Jefe de Central Hidro 315 Gas		Other Production	Improvement Efficiency	Maintain
Generation	19920 CAMBALACHE GT UNITS & AUXILIARIES REPAIRS	655,000 1,778,000.00	2,433,000.00	1,839,478.91	593,521.09						1	Improvement to Balance Turbine Simple 87 Cycle	Jefe Central - 305 Cambalache	Cambalache Gas Plant Prod	Other Production	Improvement Reliability	Maintain
Generation	Steam Turbine and Generator Improvement Units 1 - 2, 16752 Combined Cycle Plant Aguirre	500,000 -	500,000.00	412,916.62	87,083.38					Repair and Coating Application	1	Improvements to Steam Turbine 90 Generator Combined Cycle	Jefe Central Ciclo 304 Combinado	Aguirre Combined Cycle Units Prod	Other Production	Improvement Efficiency	Maintain
Generation	19807 Condenser Repair U5	700,000 1,825,000.00	2,525,000.00	2,043,901.22	481,098.78	DFMO4339513	4339	10615	FAASt [San Juan 001 Units 5 & 6] (Generation	SOW 1006- Units 5 Replacement of Outlet Valves and Elbow	1	Improvement to Other Balance of Plants 95 Combined Cycle	Jefe Divisón Central 348 Generatriz San Juan	San Juan Steam Plant Prod	Other Production	Improvement Efficiency	Maintain
Generation	19833 BUNDLE REPUESTO BOMBAS DE ALIMENTACIÓN DE LAS U 5 Y 6	1,960,000 (1,600,000.00)	360,000.00	363,232.16	(3,232.16)						1	Improvement to Other Balance of Plants 95 Combined Cycle	348 Generatriz San Juan	San Juan Steam Plant Prod	Other Production	Improvement Reliability	Maintain
Generation	New Filter House Overhauling CTG U5	200,000 (200,000.00)	-	-	-					SOW 2040-Hot Gas Path	1	Improvement to Other Balance of Plants 95 Combined Cycle		San Juan Steam Plant Prod	Other Production	Improvement Reliability	Maintain
Generation	Scheduled Maintenance Stag I Combined Cycle Aguirre Steam 14672 Plant	1,800,000 1,654,234.88	3,454,234.88			DFMO4339507	4339	10622	FAASt [Aguirre Power Plant 003 Combined Cycle]	Inspection Work Units 1-1 and 1-2	1	Improvement to GasTurbines Combined 96 Cycle Improvement to GasTurbines Combined	Jefe Central Ciclo 304 Combinado Jefe Divisón Central		Other Production Other	Improvement Reliability	Maintain
Generation	16945 Combined Cycle Improvement U-5 San Juan Steam Plant	5,250,000 7,925,000.00	13,175,000.00	13,312,912.35	(137,912.35)						1	96 Cycle	348 Generatriz San Juan	San Juan Steam Plant Prod	uction Production	Improvement Reliability	Maintain

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Puerto Rico Power Authority NME - FY 2021-22

Directorate	PID ProjectDescription	Budget Transfer of 2021-22 Funds	: Budget Review Actual at June 2022 Under/Over Budget	INTERNAL ID	Disaster Number	PW#	PW Name	sow	Comment	BI BI Description	Resp Resp 2	Planta PlanArea	PlanSubArea TypEofBI	Funding Category	Project Criticality
Generation	16946 Combined Cycle Improvement U-6 San Juan Steam Plant	5,250,000 (50,000.00)								Improvement to GasTurbines Combined 196 Cycle	Jefe Divisón Central 348 Generatriz San Juan	San Juan Steam Plant Production	Other Production Improvement	Reliability	Maintain
Generation	19485 HRSG's Improvements - Combined Cycle Plant Aguirre	500,000 -	500,000.00 94,024.29 405,975.71							Improvement to GasTurbines Combined 196 Cycle	Jefe Central Ciclo 304 Combinado	Aguirre Combined Cycle Units Production	Other Production Improvement	Efficiency	Maintain
Generation	Crane Supporte Structure Retirement - CCA (Only the Retirement new Estimated)	300,000 (300,000.00)								Improvement to GasTurbines Combined 196 Cycle	304 Jefe Central Ciclo Combinado	Aguirre Combined Cycle Units Production	Other Production Improvement	Reliability	Maintain
Generation	19922 Major Combined Cycle Improvement San Juan Unit 5	15,955,000 (15,955,000.00)								Improvement to GasTurbines Combined 196 Cycle	348 Jefe Divisón Central Generatriz San Juan	San Juan Steam Plant Production	Other Production Improvement	Reliability	Maintain
Generation	19641 Fire Protection Systems - Generation	1,050,000 -	1,050,000.00 544,154.24 505,845.76							Other Improvement to Generation 199 Plants	287 Director Generación	Production	Other Production Improvement	Safety	Mandatory
Generation	19895 Battery Bank Replacements	500,000 (20,000.00)	480,000.00 114,529.10 365,470.90							Other Improvement to Generation 199 Plants	287 Director Generación	Production	Other Improvement	Reliability	Maintain
Generation	19915 ADQUISICIÓN DE BREAKER	250,000 -	250,000.00 179,483.52 70,516.48							Other Improvement to Generation 199 Plants	Jefe Divisón Central 360 Generatriz Palo Seco	Palo Seco Steam Plant Production	Other Improvement	Reliability	Maintain
Generation	19921 Upgrade Ovation System SJ 5-6	2,900,000 -	2,900,000.00 2,453,606.00 446,394.00	DFMO4339513	4339	10615	SOW 1020- Control System Upgrade units 5 & 6	1020		Other Improvement to Generation 199 Plants	348 Jefe Divisón Central Generatriz San Juan	San Juan Steam Plant Production	Other Improvement	Reliability	Maintain
Generation	New ADQUISICION EQUIPOS AUXILIARES - CPS	500,000 (500,000.00)								Other Improvement to Generation 199 Plants	360 Jefe Divisón Central Generatriz Palo Seco	Palo Seco Steam Plant Production	Other Production Improvement	Reliability	Maintain
Generation	12288 Purchase and Installation of Breakers 4160V	400,000 -	400,000.00 - 400,000.00							360 Rehabilitation of Substations	Jefe Divisón Central 342 Generatriz Aguirre	Aguirre Steam Plant Distribution	Other Distribution Improvement	Reliability	Utility Standard
Generation	19879 Vehicle Replacement	750,000 139,181.00	889,181.00 506,988.00 382,193.00							474 #N/A	287 Director Generación	#N/A	#N/A #N/A	Safety	Mandatory
Generation	19925 Small Improvement for Building Facilities	300,000 587,586.00	887,586.00 860,080.70 27,505.30							Improvement Land & Builddings - 476 Electrict System	287 Director Generación	Building	General Land and Building and Building	Reliability	Mandatory
Generation	6145 Electric System Office Automat	250,000 (200,000.00)	50,000.00 32,654.24 17,345.76							528 Computer Equipment - Electric System	287 Director Generación	and Equipment	Computer Computer Equipment Equipment	Efficiency	Utility Standard
Generation	7241 Equipment for Production Division	248,568 (248,000.00)	568.00 - 568.00							568 Other Equipment - Electric System	287 Director Generación	and Equipment	Other Other Equipment Equipment Other Other	Reliability	Mandatory
Generation	19865 Safety Equipment Generation	150,000 -	150,000.00 21,281.62 128,718.38							568 Other Equipment - Electric System	287 Director Generación	and Equipment	Equipment Equipment Other Other	Safety	Mandatory
Generation	16993 Security Equipment-Electric System	200,000 -	200,000.00 127,325.23 72,674.77				FAASt [San Juan 001 Units 5 & 6]	SOW 1024- Purchases and Installation of Modules D&E		576 Other Equipment - Corporate Security Combined Cycle Heat Recovery	287 Director Generación Jefe Divisón Central			Safety	Mandatory
Generation	17039 Scheduled Maintenance HRSG U-5 San Juan Steam Plant	- 4,480,000.00	4,480,000.00 4,843,476.27 (363,476.27)	DFMO4339513	4339	10615	(Generation	HRSG Unit 5 SOW 3065- Unit 6 LP-B Repair &		198 Improvement Improvements to Steam Turbine			Production Improvement Thermal Production	Efficiency	Maintain
Generation	16975 Turbine Generator Improvement unit 6 Costa Sur Steam Plant	- 2,000,000.00	2,000,000.00 3,727,536.51 (1,727,536.51)	DFMO4339518	4339	10702	Permanent	Instalation Work (Failure)		165 Generator		Costa Sur Steam Plant Production	Plant Improvement	Reliability	Maintain
Irrigation	19732 Preliminary Studies - Dams and Reservoirs Blanket for Refund Federal Grant Allocation - Unit Inspection	250,000 -	250,000.00												
Irrigation	19924	15,000 (15,000)													
Irrigation	17139 Improvements to Dams and Channel Systems - Guayama	50,000 -	50,000.00												
Irrigation	17144 Improvements to Dams and Channel Systems - Juana Diaz	70,000 -	70,000.00												
Irrigation	17147 Improvements to Dams and Channel Systems-Isabela	25,000 172,806													
Irrigation	17149 Improvements to Dams and Channel Systems - Lajas	70,000 -	70,000.00												
Irrigation	14023 Improve Physical Plant V. lajas	25,000 -	25,000.00												
Irrigation	17140 Improvements to the Guayama District Physical Plant	70,000 -	70,000.00												
Irrigation	17143 Improvements to the J. Diaz District Physical Plant 17142 Purchase of Equipment, Materials and Tools J. Diaz	25,000 15,000 25,000 9,000													
Irrigation	1/142 Purchase of Equipment, Materials and Tools J. Diaz 17145 Purchase of Equipment, Materials and Tools Isabela	25,000 9,000 50,000 (50,000)													
Irrigation	17145 Purchase of Equipment, Materials and Tools Isabela 17148 Purchase of Equipment, Materials and Tools V. lajas	25,000 (50,000)	25,000.00												
Irrigation	17148 Purchase or equipment, materials and Tools V. Jajas 17146 Acquisition of Vehicles - District - Isabela	50,000 (50,000)													
Irrigation	17.14b Acquisition of Vehicles - District - Isabela 13302 Acquisition of Vehicles - Guayama														
Irrigation	10002 ACQUISITION OF VENICIES - GUAYAMA	33,233	JJ,433.00											1	

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Annex H

Puerto Rico Power Authority NME - FY 2018-19

Directorate (Fund)	PID ProjectDescription	Budget 2018-19 Transfer of Funds Budget Review	Actual at June 2019 Under/0	Over Budget	INTERNAL ID	Disaster Number	PW#	PW Name	SOW Project Type	Funding Priority	Project Criticality	Division	Resp Responsabilidad BI	BI Description	PlanArea	PlanSubArea	TypEofBl
Generation	19883 Generadores Portatiles 20 -30 MW	- 58.097.985.00 58.097.985.0	00 55,356,083	2,741,902	DFMO4339502	4339	9312 Pu	AASt Mobile Generation Units	GMN					40 Unidades Generatrices Portatiles	Production	Other Production	
Generation	1565 GUILLOUGE FORMALE SEE SE WAY	30,031,303.00	33,330,003	2,742,302	DI IIIO4535330E	4333	3312 10	diction.	OWN					onabes deneralizes ordanes	Troubeton	Guerriouseum	
Generation	19637 Fuel Storage Tanks Improvement	2,975,274.00 (1,870,219.00) 1,105,055.0	00 649,404	455,651					GMN	Maintain	High	División de Generación	287 Director Generación 1	50 Fuel Manangement and Storage	Production	Thermal Production Plant	Improvement
Generation	13422 Boiler Improvement Unit 3 - Palo Seco Steam Plant	991,758.00 (983,516.00) 8,242.0	-	8,242					GMN	Maintain	Low	Central Palo Seco	360 Jefe Divisón Central Generatriz Palo Seco 1	60 Improvements to Steam Boilers	Production	Thermal Production Plant	Improvement
Generation	14169 Boiler Improvement U-2 - Aguirre Steam Plant	991,758.00 - 991,758.0	1,192,320	(200,562)					GMN	Maintain	High	Complejo Centrales Aguirre	342 Jefe Divisón Central Generatriz Aguirre 1	60 Improvements to Steam Boilers	Production	Thermal Production Plant	Improvement
Generation	Boiler Support Structures Improvement - Unit 1-2 - Aguirre Steam 14725 Plant	198,352.00 (98,352.00) 100,000.0		100,000					GMN	Maintain	High	Complejo Centrales Aguirre	342 Jefe Divisón Central Generatriz Aguirre 1	60 Improvements to Steam Boilers	Production	Thermal Production Plant	Improvement
Generation	15243 Boiler Improvement U-1 - Aguirre Steam Plant	991,758.00 - 991,758.0	1,022,025	(30,267)					GMN	Maintain	Medium	Complejo Centrales Aguirre	342 Jefe Divisón Central Generatriz Aguirre 1	60 Improvements to Steam Boilers	Production	Thermal Production Plant	Improvement
				(, . ,													
Generation	16969 Boiler Improvement Unit 4 Palo Seco Steam Plant	495,879.00 500,000.00 995,879.0		995,879					GMN	Maintain	High	Central Palo Seco	360 Jefe Divisón Central Generatriz Palo Seco 1	60 Improvements to Steam Boilers	Production	Thermal Production Plant	Improvement
Generation	16973 Boiler Improvement Unit 6 Costa Sur Steam Plant	4,958,789.00 (3,258,000.00) 1,700,789.0	00 2,553,052	(852,263)					GMN	Maintain	High	Central Costa Sur	354 Jefe Divisón Central Generatriz Costa Sur 1	60 Improvements to Steam Boilers	Production	Thermal Production Plant	Improvement
		991,758.00 - 991,758.0															
Generation	19636 Boiler Support Structure Improvements	991,/58.00 - 991,/58.0	869,609	122,149					GMN	Mandatory	High	Ingeniería y Servicios Técnicos	293 Conservación y Servicios Técnicos 1	50 Improvements to Steam Boilers	Production	Thermal Production Plant	Improvement
Generation	19660 Piping Hangers Replacement Unit 3 and 4 palo Seco Steam Plant	148,764.00 350,000.00 498,764.0	204,955	293,809					GMN	Mandatory	High	Central Palo Seco	360 Jefe Divisón Central Generatriz Palo Seco 1	60 Improvements to Steam Boilers	Production	Thermal Production Plant	Improvement
Generation	Installation of Major High Pressure Parts (SH, RH, Econ) Unit 9 San 19734 Juan Steam Plant	- 6,500,000.00 6,500,000.0	00 6,289,252	210,748					GMN			Central San Juan	348 Jefe Divisón Central Generatriz San Juan 1	60 Improvements to Steam Boilers	Production	Thermal Production Plant	Improvement
Generation	19803 Replacement of Cargo Elevators U 5-6 CCS	247,939.00 (247,000.00) 939.00	0 -	939					GMN			Central Costa Sur	354 Jefe Divisón Central Generatriz Costa Sur 1	60 Improvements to Steam Boilers	Production	Thermal Production Plant	Improvement
Generation	13442 HP and IP Rotor Improvement - Aguirre Steam Plant	2,479,395.00 (2,279,000.00) 200,395.0	00 288,391	(87,996)					GMN	Maintain	High	Complejo Centrales Aguirre	342 Jefe Divisón Central Generatriz Aguirre 1	65 Improvements to Steam Turbine Generator	Production	Thermal Production Plant	Improvement
	4349	1,487,637.00 2,000,000.00 3,487,637.0	20	3.487.637					5400		U.S.	Central Palo Seco	360 Jefe Divisón Central Generatriz Palo Seco 1	F. L	Production	Thermal Production Plant	
remendation	13448 Turbine Generator Improvement Unit 4 - Palo Seco Steam Plant	2,467,037.00 2,000,000.00 3,487,637.0	~	3,487,637					GIVIN	Mandatory	riigii	CENTRAL FOIL JELU	sou pere brisson Central Generatriz Palo Seco 1	65 Improvements to Steam Turbine Generator	Froductioff	mermar Production Plant	Improvement
Generation	14151 Steam Valve Reconditiong Aguirre Steam Plant	495,879.00 (445,879.00) 50,000.0		50,000					GMN	Maintain	Medium	Complejo Centrales Aguirre	342 Jefe Divisón Central Generatriz Aguirre 1	65 Improvements to Steam Turbine Generator	Production	Thermal Production Plant	Improvement
Generation	14165 Turbine Generator Improvement Unit 1 - Aguirre Steam Plant	1,487,637.00 (1,287,637.00) 200,000.0		200,000					GMN	Maintain	High	Complejo Centrales Aguirre	342 Jefe Divisón Central Generatriz Aguirre 1	65 Improvements to Steam Turbine Generator	Production	Thermal Production Plant	Improvement
Generation	14800 Turbine Generator Improvement Unit 3 Palo Seco Steam Plant	991,758.00 (741,758.00) 250,000.0	215,489	34,511					GMN	Maintain	High	Central Palo Seco	360 Jefe Divisón Central Generatriz Palo Seco 1	65 Improvements to Steam Turbine Generator	Production	Thermal Production Plant	Improvement
Generation	16975 Turbine Generator Improvement Unit 6 South Coast Steam Plant	3,471,153.00 (2,471,000.00) 1,000,153.0	00 874,819	125,334					GMN	Maintain	High	Central Costa Sur	354 Jefe Divisón Central Generatriz Costa Sur 1	65 Improvements to Steam Turbine Generator	Production	Thermal Production Plant	Improvement
Seneration	18651 Turbine - Generator Improvement U-2 Aguirre Steam Plant	991.758.00 (891.758.00) 100.000.0	75.055	24,945					GMN	Maintain	High	Complain Centrales Aquirre	342 Jefe Divisón Central Generatriz Aguirre 1	65 Improvements to Steam Turbine Generator	Production	Thermal Production Plant	Improvement
eneration	18031 Tutune - Generator improvement 0-2 Aguirre Steam Fiant	391,738.00 (091,738.00) 100,000.0	73,033	24,543					GIVIN	ividiitaiii	riigii	Complejo Centrales Aguirre	342 Pele Divisori Central Generatiriz Agointe	improvements to steam rurume generator	Production	memai Production Plant	improvement
eneration	12246 Feed water Pump Turbine Improvement - Palo Seco Steam Plant	495,879.00 (495,000.00) 879.00	0 -	879					GMN	Maintain	High	Central Palo Seco	360 Jefe Divisón Central Generatriz Palo Seco 1	70 Improvements to Steam Balance of Plant	Production	Thermal Production Plant	Improvement
Seneration	Water Demineralizer Plant and Polishers Demi, Unit 1-2, Aguirre 14135 Steam Plant	396,703.00 - 396,703.0		396,703					GMN	Mandatory	Medium	Complejo Centrales Aguirre	342 Jefe Divisón Central Generatriz Aguirre 1	70 Improvements to Steam Balance of Plant	Production	Thermal Production Plant	Improvement
Generation	14142 Discharge Canal Maintenance - Aguirre Steam Plant	99,176.00 - 99,176.00	-	99,176					GMN	Maintain	Medium	Complejo Centrales Aguirre	342 Jefe Divisón Central Generatriz Aguirre 1	70 Improvements to Steam Balance of Plant	Production	Thermal Production Plant	Improvement
Generation	14143 Main Steam Condenser - Aguirre Steam Plant	991,758.00 (991,758.00) -		-					GMN	Maintain	High	Complejo Centrales Aguirre	342 Jefe Divisón Central Generatriz Aguirre 1	70 Improvements to Steam Balance of Plant	Production	Thermal Production Plant	Improvement
Generation	14148 Condenser Circulating Water Pump Motor Control Center	644,643.00 (544,643.00) 100,000.0	100 -	100,000					GMN	Maintain	High	Complejo Centrales Aguirre	342 Jefe Divisón Central Generatriz Aguirre 1	70 Improvements to Steam Balance of Plant	Production	Thermal Production Plant	Improvement
Generation	15921 Cathodic Protection and Improvement Condenser Piping	297,527.00 (297,527.00) -	-	-					GMN	Maintain	High	Complejo Centrales Aguirre	342 Jefe Divisón Central Generatriz Aguirre 1	70 Improvements to Steam Balance of Plant	Production	Thermal Production Plant	Improvement
Generation	15923 Water Heaters Unit 5 and 6 South Coast Steam Plant	1,388,461.00 (1,388,461.00)		-					GMN	Maintain	High	Central Costa Sur	354 Jefe Divisón Central Generatriz Costa Sur 1	70 Improvements to Steam Balance of Plant	Production	Thermal Production Plant	Improvement
5	18585 DEMI Rehabilitation	495,879.00 206,000.00 701,879.0	00 483,787	218,092					5101	Mandatan		Central Costa Sur	354 Jefe Divisón Central Generatriz Costa Sur 1	70 Improvements to Steam Balance of Plant	Production	Thermal Production Plant	Improvement
Generation	18385 DEMI Renabilitation	495,879.00 206,000.00 701,879.0	483,/8/	218,092					GMN	Mandatory	riign	Central Costa Sur	354 Jele Divisori Central Generatriz Costa Sur	improvements to Steam Balance of Plant	Production	Thermal Production Plant	improvement
Generation	19477 Traveling Screens Units 7 to 10, San Juan Steam Plant	743,818.00 (593,000.00) 150,818.0	129,656	21,163					GMN	Maintain	High	Central San Juan	348 Jefe Divisón Central Generatriz San Juan 1	70 Improvements to Steam Balance of Plant	Production	Thermal Production Plant	Improvement
Generation	Water Demineralization Plant Improvement - Palo Seco Steam 19621 Plant	198,352.00 (198,352.00) -		-					GMN	Maintain	High	Central Palo Seco	360 Jefe Divisón Central Generatriz Palo Seco 1	70 Improvements to Steam Balance of Plant	Production	Thermal Production Plant	Improvement
Seneration	19634 Mark Vie Controls Upgrade	3,967,031.00 (3,967,031.00) -	-	-					GMN	Utility Standard	High	Complejo Centrales Aguirre	304 Jefe Central Ciclo Combinado 1	70 Improvements to Steam Balance of Plant	Production	Thermal Production Plant	Improvement
ieneration	19638 Water Storage Tanks and Dike Improvements	1,983,516.00 (1,758,590.00) 224,926.0	00 495,231	(270,305)					GMN	Maintain	High	División de Generación	287 Director Generación 1	70 Improvements to Steam Balance of Plant	Production	Thermal Production Plant	Improvement
Seneration	19639 Traveling Screens - Palo Seco Steam Plant	247,939.00 - 247,939.0	10	247,939					GMN	Maintain	Medium	Central Palo Seco	360 Jefe Divisón Central Generatriz Palo Seco 1	70 Improvements to Steam Balance of Plant	Production	Thermal Production Plant	Improvement
Seneration	Transing Access - Folio Seco Steam Plant	- 247,939.0		241,939					GIVIN	.viumidiii	mealulli	TOTAL SECURITION OF THE SECURI	1		rosuccioli	risering Froduction Plant	mprovement
ieneration	19719 Acquisition of Equipment for operation and security of units	49,588.00 - 49,588.0	-	49,588					GMN	Mandatory	High	Central Costa Sur	354 Jefe Divisón Central Generatriz Costa Sur 1	70 Improvements to Steam Balance of Plant	Production	Thermal Production Plant	Improvement
Generation	19721 Foxboro Automation System Expansion and Upgrade	1,487,637.00 (162,911.00) 1,324,726.0	1,745,134	(420,408)					GMN	Maintain	High	Central Costa Sur	354 Jefe Divisón Central Generatriz Costa Sur 1	70 Improvements to Steam Balance of Plant	Production	Thermal Production Plant	Improvement
											L						
eneration	19727 Condenser Improvement Unit 4 Palo Seco Seco Steam Plant	297,527.00 450,000.00 747,527.0	928,276	(180,749)					GMN	Maintain	High	Central Palo Seco	360 Jefe Divisón Central Generatriz Palo Seco 1	70 Improvements to Steam Balance of Plant	Production	Thermal Production Plant	Improvement
eneration	19730 Foxboro Automation System For Steam Turbine	1,190,109.00 - 1,190,109.0		1,190,109					GMN	Utility Standard	High	Complejo Centrales Aguirre	304 Jefe Central Ciclo Combinado 1	70 Improvements to Steam Balance of Plant	Production	Thermal Production Plant	Improvement
eneration	19811 COMPRA TORRES DE ENFRIAMIENTO UNIDADES 5-10	1,487,637.00 (1,425,138.00) 62,499.0	10	62,499					GMN	Maintain	High	Central San Juan	348 Jefe Divisón Central Generatriz San Juan 1	70 Improvements to Steam Balance of Plant	Production	Thermal Production Plant	Improvement
	VÁLVULAS Y ACTUADORES CONDENS Y BOMBAS DE CIRCULACIÓN			02,433									A STATE OF THE STA	, and the second second by M. I. Mills.			or go as according
eneration	19818 5-10	247,939.00 (247,000.00) 939.00	0 -	939					GMN	Maintain	Medium	Central San Juan	348 Jefe Divisón Central Generatriz San Juan 1	70 Improvements to Steam Balance of Plant	Production	Thermal Production Plant	Improvement
neration	19819 UPS para Unidades 7-8	247,939.00 (247,939.00) -							GMN	Maintain	High	Central San Juan	348 Jefe Divisón Central Generatriz San Juan 1	70 Improvements to Steam Balance of Plant	Production	Thermal Production Plant	Improvement
eneration	19820 UPDATE CONTROL SYSTEM GIS PSSP	495,879.00 (495,879.00) -	-	-					GMN	Maintain	High	Central Palo Seco	360 Jefe Divisón Central Generatriz Palo Seco 1	70 Improvements to Steam Balance of Plant	Production	Thermal Production Plant	Improvement
eneration	19824 REHABILITACIÓN TANQUES DE AGUA PSSP	495,879.00 - 495,879.0	00 586,365	(90,486)					GMN	Maintain	Medium	Central Palo Seco	360 Jefe Divisón Central Generatriz Palo Seco 1	70 Improvements to Steam Balance of Plant	Production	Thermal Production Plant	Improvement
operation	Sistema Control Foxboro Calderas y Turbinas Unidades Generatrices	4,958,789.00 1,000,000.00 5,958,789.0	7,131,138	(1,172,349)					GM.	Mandat	High	Ingeniería y Servicios Técnicos	202 Concentration a Sensitive Tricking	70 Improvements to Steam Balance of Plant	Production	Thermal Production Plant	Imarcusmo
eneration	19825 (Upgrade)	4,538,789.00 1,000,000.00 5,958,789.0	/,131,138	(1,1/2,549)					GMN	Mandatory	nign	ingeniena y Servicios Tecnicos	293 Conservación y Servicios Técnicos 1	roumprovements to Steam Balance of Plant	Production	inermai Production Plant	Improvement
Generation	8470 Motores Resguardo Bomba		693,186	(693,186)					GMN		_		1	70 Improvements to Steam Balance of Plant	Production	Thermal Production Plant	
Generation	19561 Asbestos Removal and Replacement	99,176.00 (69,175.00) 30,001.0		30,001					GMN	Mandatory	High	División de Generación	287 Director Generación 1	73 Pollutant Removal and Treatment	Production	Thermal Production Plant	Improvement
	- more confirmations	(,,,,,,,,,,,,,		,004													

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Puerto Rico Power Authority NME - FY 2018-19

Directorate (Fund)	PID ProjectDescription	Budget 2018-19 Transfer of Funds Budget Review	Actual at June 2019 Under/Over Budget	INTERNAL ID	Disaster Number	PW#	PW Name	SOW Project Type	Funding Priority	Project Criticality	Division	Resp Responsabilidad BI	BI Description	PlanArea	PlanSubArea	ТурЕо[ВІ
Planning and Environmental Protection	Modification to the Cooling Water Intake Structure South Coast 16766 Steam Plant and Aguirre Power Complex	3,967,031.00 (3,967,000.00) 31.00	- 3	1				GMN			Protección Ambiental	67 Protec. Amb. y Conf. Cal Adm. Gen. 17	5 Pollution Control Projects	Production	Thermal Production Plant	Improvement
Generation	9543 Enviromental Projects On the Electric System	198,352.00 (80,000.00) 118,352.00	32,895 85,45	7				GMN	Maintain	High	División de Generación	287 Director Generación 17	'S Pollution Control Projects	Production	Thermal Production Plant	Improvement
Generation	19619 CEMS Particulate Monitor	396,703.00 350,000.00 746,703.00	912,458 (165,75	5)				GMN	Mandator~	High	Ingeniería y Servicios Técnicos	101 Contratos de Ingeniería - Generación 17	5 Pollution Control Projects	Production	Thermal Production Plant	Improvement
Generation								O.M.	Wallacory	1.181						myrotenent
Generation	19722 Treatment Plant Filters - Palo Seco Steam Plant Waste Treatment Plant Nautilus 1 Replacement - Palo Seco Seteam	595,055.00 (595,000.00) 55.00	- 5	5				GMN	Mandatory	High	Central Palo Seco	360 Jefe Divisón Central Generatriz Palo Seco 17	5 Pollution Control Projects	Production	Thermal Production Plant	Improvement
Generation	19723 Plant	743,818.00 (644,000.00) 99,818.00	- 99,81	8				GMN	Mandatory	High	Central Palo Seco	360 Jefe Divisón Central Generatriz Palo Seco 17	5 Pollution Control Projects	Production	Thermal Production Plant	Improvement
Generation	15025 Reparation Tanque Servicio 4S Bunker		207,128 (207,12	8)				GMN				17	'S Pollution Control Projects	Production	Thermal Production Plant	
Generation	14092 Hydroelectric Plants Improvements - HG Plant	3,967,031.00 (2,967,031.00) 1,000,000.00	854,168 145,83	12				GMN	Maintain	High	Centrales Hidrogas y Cambalache	315, Jefe de Central Hidro Gas 18	ID Hidroelectric Plant Improvements	Production	Hydraulic Production Plant	Improvement
Generation	15880 Major Inspection "C" Unit 1-3 Cambalache	3,967,031.00 (808,900.00) 3,158,131.00	- 3,158,13	31				GMN	Maintain	Medium	Centrales Hidrogas y Cambalache	305 Jefe Central - Cambalache 18	Improvement Combustion Turbines Simple Cycle	Production	Other Production	Improvement
		991.758.00 500.000.00 1.491.758.00														
Generation	14089 Three (3) Major Inspections Hydro Gas Plant	991,/58.00 500,000.00 1,491,/58.00	1,831,831 (340,07	3)				GMN	Maintain	Medium	Centrales Hidrogas y Cambalache	315 Jefe de Central Hidro Gas 18	77 Improvement to Balance Turbine Simple Cycle	Production	Other Production	Improvement
Generation	16978 Aereoderivative Improvement of Mayaguez	3,570,328.00 18,000,000.00 21,570,328.00	23,415,386 (1,845,05	(8)				GMN	Maintain	Medium	Centrales Hidrogas y Cambalache	315 Jefe de Central Hidro Gas 18	77 Improvement to Balance Turbine Simple Cycle	Production	Other Production	Improvement
Generation	19866 Rehabilitación Planta DEMI	- 85,000.00 85,000.00	- 85,00	10				GMN				18	7 Improvement to Balance Turbine Simple Cycle	Production	Other Production	
Generation	Steam Turbine and Generator Improvement Units 1 - 2, Combined 16752 Cycle Plant Aguirre	694,231.00 - 694,231.00	- 694,23	11				GMN	Maintain	High	Complejo Centrales Aguirre	304 Jefe Central Ciclo Combinado 15	0 Improvements to Steam Turbine Generator Combined Cycle	Production	Other Production	Improvement
Generation	Spares and Maintenance Components for Units 5 and 6 San Juan 17041 Steam Plant	396,703.00 - 396,703.00	2,048,470 (1,651,76	17)				GMN	Maintain	High	Central San Juan	348 Jefe Divisón Central Generatriz San Juan 15	5 Improvement to Other Balance of Plants Combined Cycle	Production	Other Production	Improvement
Generation	BOMBAS DE LUBRICACIÓN MOVIDAS A VAPOR PARA CTGS Y STG	247,939.00 (247,939.00) -						CAMA	Maintein	High	Central San Juan		5 Improvement to Other Balance of Plants Combined Cycle	Production	Other Production	
Generation								GMN	waintáiñ	nign	Central San Juan					Improvement
Generation	19833 BUNDLE REPUESTO BOMBAS DE ALIMENTACIÓN DE LAS U 5 Y 6	1,487,637.00 (1,000,000.00) 487,637.00	512,075 (24,43	8)				GMN	Maintain	High	Central San Juan	348 Jefe Divisón Central Generatriz San Juan 19	5 Improvement to Other Balance of Plants Combined Cycle	Production	Other Production	Improvement
Generation	14672 Scheduled Maintenance Stag I Combined Cycle Aguirre Steam Plant	1,438,049.00 - 1,438,049.00	- 1,438,04	19				GMN	Maintain	High	Complejo Centrales Aguirre	304 Jefe Central Ciclo Combinado 19	6 Improvement to GasTurbines Combined Cycle	Production	Other Production	Improvement
Generation	16945 Combined Cycle Improvement U-5 San Juan Steam Plant	7,438,184.00 (1,564,639.00) 5,873,545.00	7,116,350 (1,242,80	15)				GMN	Maintain	High	Central San Juan	348 Jefe Divisón Central Generatriz San Juan 15	6 Improvement to GasTurbines Combined Cycle	Production	Other Production	Improvement
Generation	16946 Combined Cycle Improvement U-6 CSJ	7,438,184.00 (1,466,989.00) 5,971,195.00	6,407,371 (436,17	6)				GMN	Maintain	High	Central San Juan	348 Jefe Divisón Central Generatriz San Juan 15	6 Improvement to GasTurbines Combined Cycle	Production	Other Production	Improvement
Generation	19485 HRSG's Improvements - Combined Cycle Plant Aguirre	99,176.00 (99,176.00) -						GMN	Maintain	High	Complejo Centrales Aguirre	304 Jefe Central Ciclo Combinado 15	6 Improvement to GasTurbines Combined Cycle	Production	Other Production	Improvement
denetation	Valve Replacement and Improvement of Hrsg'S - Combined Cycle							O.W.	Walltall	1.181						
Generation	15763 Plant Aguirre	99,176.00 - 99,176.00	135,778 (36,60	2)				GMN	Maintain	Medium	Complejo Centrales Aguirre	304 Jefe Central Ciclo Combinado 15	8 Combined Cycle Heat Recovery Improvement	Production	Other Production	Improvement
Generation	17039 Scheduled maintenance HRSG - Unit 5 - San Juan Steam Plant	99,176.00 50,000.00 149,176.00	123,667 25,50	19				GMN	Maintain	High	Central San Juan	348 Jefe Divisón Central Generatriz San Juan 19	8 Combined Cycle Heat Recovery Improvement	Production	Other Production	Improvement
Generation	17040 Scheduled maintenance HRSG - Unit 6 - San Juan Steam Plant	99,176.00 (99,176.00) -						GMN	Maintain	High	Central San Juan	348 Jefe Divisón Central Generatriz San Juan 19	8 Combined Cycle Heat Recovery Improvement	Production	Other Production	Improvement
Generation	13534 New Transformer 500kVa 4160/480, Combined Cycle Plant Aguirre	99,176.00 (99,000.00) 176.00	- 17	6				GMN	Maintain	High	Complejo Centrales Aguirre	304 Jefe Central Ciclo Combinado 15	9 Other Improvement to Generation Plants	Production	Other Production	Improvement
Generation	Breaker Replacement - 480V and 4160V Unit 3-6 - Costa Sur Steam 15029 Plant	396,703.00 (346,703.00) 50,000.00	- 50,00	10				GMN	Maintain	High	Central Costa Sur	354 Jefe Divisón Central Generatriz Costa Sur 15	9 Other Improvement to Generation Plants	Production	Other Production	Improvement
Generation	16116 Navigation Channel Buoy	148,764.00 - 148,764.00		14				GMN	Mandatory	High	Complejo Centrales Aguirre	342 Jefe Divisón Central Generatriz Aguirre 19	9 Other Improvement to Generation Plants	Production	Other Production	Improvement
Generation	18637 Culebra Plant Improvements	1,388,461.00 (1,211,000.00) 177,461.00	180,367 (2,90	16)				GMN	Maintain	Medium	Centrales Hidrogas y Cambalache	315 Jefe de Central Hidro Gas 19	9 Other Improvement to Generation Plants	Production	Other Production	Improvement
Generation	19641 Fire Protection Systems - Generation	991,758.00 (499,819.00) 491,939.00	120,442 371,45	17				GMN	Maintain	High	División de Generación	287 Director Generación 15	9 Other Improvement to Generation Plants	Production	Other Production	Improvement
Generation	CONTROL MARK VI U 7-10, SIST LIMP CONDEN U 7-8 Y CONTROL 19838 BOMBAS RO	- 99,999.00 99,999.00	- 99,99	9				GMN			Central San Juan	348 Jefe Divisón Central Generatriz San Juan 15	9 Other Improvement to Generation Plants	Production	Other Production	Improvement
Generation	19840 Acquisition of Control Valves for U5-6	148,764.00 - 148,764.00	- 148,76	14				GMN	Maintain	High	Central Costa Sur	354 Jefe Divisón Central Generatriz Costa Sur 15	9 Other Improvement to Generation Plants	Production	Other Production	Improvement
Generation	19841 Acquisition of Potable Water System for CCS	247,939.00 (250,000.00) (2,061.00)						GMN	Mandaton	High	Central Costa Sur			Production	Other Production	Improvement
Generation								GIVIN	Mandatory	High			9 Other Improvement to Generation Plants			Improvement
Generation	16214 Energy Administration System Update (SCADA)	297,527.00 (92,289.00) 205,238.00	- 205,23	18				GMN	Maintain	High	División de Operaciones Sistema Eléctrico	333 Subdivisión Operación y Sistema Administración de Energía 25	5 Energy Management System	Transmission	Other Transmission	Expansion
Generation	16382 Replacement Transformer of Power Transmission	4,958,789.00 - 4,958,789.00	2,493,538 2,465,25	51				GMN	Maintain	High	División Conservación Eléctrica y Protección Sistema Eléctrico	320 Suministros Subestaciones 25	2 Transmission Misc. Improv. Plant - Electric System	Transmission	Other Transmission	Improvement
Generation	19658 Relay Protection	495,879.00 - 495,879.00	239,009 256,87	70				GMN	Maintain	High	División Conservación Eléctrica y Protección Sistema Eléctrico	326 Pruebas de Aceptación 25	2 Transmission Misc. Improv. Plant - Electric System	Transmission	Other Transmission	Improvement
Generation	8704 Improvement of Distribution Transformers	1,983,516.00 - 1,983,516.00	- 1,983,5:	16				GMN	Maintain	High	División Conservación Eléctrica y Protección Sistema Eléctrico	320 Suministros Subestaciones 36	ID Rehabilitation of Substations	Distribution	Other Distribution	Improvement
Generation	12288 Purchase and Installation of Breakers 4160V	1,487,637.00 (1,478,000.00) 9,637.00						GMN	Maintain	High	Complejo Centrales Aguirre		0 Rehabilitation of Substations	Distribution	Other Distribution	Improvement
								GWIN	Walitalii	rigii	Comprejo Centrales Aguirre					
Generation	19844 Fire Protection Storage Tank - Palo Seco Warehouse Complex Passenger Elevator for Administrative Building San Juan Steam	664,478.00 (514,477.00) 150,001.00	51,157 98,84	14				GMN	Mandatory	High	Generacion	286 Centro Adiestramiento Sistema Eléctrico (CASE) 47	2 Improvement to Other Buildings	General Land and Building	General Land and Building	General Land and Building
Generation	12913 Plant	74,382.00 (74,382.00) -	63,000 (63,00	0)				GMN	Maintain	Medium	Central San Juan	348 Jefe Divisón Central Generatriz San Juan 47	6 Improvement Land & Builddings - Electrict System	General Land and Building	General Land and Building	General Land and Building
Generation	1984S ELEVADOR DE CARGA PARA LA UNIDAD 6	247,939.00 - 247,939.00	- 247,93	19				GMN	Mandatory	High	Central San Juan	348 Jefe Divisón Central Generatriz San Juan 47	6 Improvement Land & Builddings - Electrict System	General Land and Building	General Land and Building	General Land and Building
Generation	19848 New Asphalt Work - Access Road APC	495,879.00 (495,879.00) -						GMN	Maintain	Low	Complejo Centrales Aguirre	342 Jefe Divisón Central Generatriz Aguirre 47	6 Improvement Land & Builddings - Electrict System	General Land and Building	General Land and Building	General Land and Building
Generation	6145 Electric System Office Automat	99,176.00 (43,262.00) 55,914.00	90,209 (34,29	5)				GMN	Maintain	Medium	División de Generación		8 Computer Equipment - Electric System	Office Furniture and Equipment	Computer Equipment	Computer Equipment
								GIVIN	umsdill	recolulii						
Generation	16261 Major Repairs for Aircrafts	991,758.00 - 991,758.00	- 991,75	8				GMN	Maintain	High	División de Operaciones Sistema Eléctrico	168 Departamento de Operaciones Aéreas 54	0 Equipment - Air Transportation	Office Furniture and Equipment	Transportation Equipment	Transportation Equipment
Generation	19731 Helicopter Replacement - PREPA	3,967,031.00 (3,967,031.00) -						GMN	Maintain	High	División de Operaciones Sistema Eléctrico	168 Departamento de Operaciones Aéreas 54	0 Equipment - Air Transportation	Office Furniture and Equipment	Transportation Equipment	Transportation Equipment
Executive	19879 Transportation - Vehicles - Generation	991,758.00 (991,758.00) -						GMN			División Transportación Terrestre	183 54	5 Equipment - Adquisition and Replacement of Land Transp.	Office Furniture and Equipment	Transportation Equipment	Transportation Equipment
Generation	16823 Optimize the Radio System	595,055.00 (595,055.00) -						GMN	Mandatory	High	División de Operaciones Sistema Eléctrico	337 Planificación y Construcción - Comunicaciones 55	0 Equipment Communication - Electric System	Office Furniture and Equipment	Communication Equipment	Communication Equipment
			•							•		1				•

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Puerto Rico Power Authority NME - FY 2018-19

			Budget																				
Directorate (Fund)	PID ProjectDescription	_	2018-19 Tr	ansfer of Fund	ds Budget Review	Actual at	t June 2019	Under/Over Bu	dget	INTERNAL ID	Disaster Number	PW#	PW Name	sow	Project Type	Funding Priority	y Project Criticality	Division	Resp Responsabilidad	BI BI Description	PlanArea	PlanSubArea	TypEofBI
Generation	15002 Infrastructure and Technology - Fiber Optics	1,98	3,516.00	(983,000.00)	1,000,516.	.00	-	1,	000,516						GMN	Maintain	High	División de Operaciones Sistema Eléctrico	337 Planificación y Construcción - Comunicaciones	555 Equipment - Telephone and Data Lines	Office Furniture and Equipment	Communication Equipment	Communication Equipment
Generation	16635 Replacement of Backbone to Microwave System	49	879.00	(495 879 00)	0	_									GMN	Maintain	High	División de Operaciones Sistema Eléctrico	337 Planificación y Construcción - Comunicaciones	555 Equipment - Telephone and Data Lines	Office Furniture and Equipment	Communication Equipment	Communication Equipment
			,	(100)010100	,																		
Generation	19849 Actualización de las Unidades de Control Remoto (RTU) del SAE	40	879.00		495.879				195 879						GMN	Maintain	127-16	División de Operaciones Sistema Eléctrico	333 Subdivisión Operación y Sistema Administración de Energía	555 Equipment - Telephone and Data Lines	Office Furniture and Equipment	Communication Equipment	Communication Equipment
Generation	19849 Actualización de las Unidades de Control Remoto (RTO) del SAE	49:	,879.00		495,879.	.00	-		495,879						GIVIN	Maintain	nign	Division de Operaciones Sistema Electrico	333 Subdivision Operacion y Sistema Administracion de Energia	555 Equipment - Telephone and Data Lines	Office Furniture and Equipment	Communication Equipment	Communication Equipment
	Actualización al Sistema Operativo IBM AIX 7.1 para los comp. del																						
Generation	19850 SAE	54	,467.00	(545,467.00))	-	-		-			1			GMN	Maintain	High	División de Operaciones Sistema Eléctrico	333 Subdivisión Operación y Sistema Administración de Energía	555 Equipment - Telephone and Data Lines	Office Furniture and Equipment	Communication Equipment	Communication Equipment
Generation	7241 Equipment for Production Division	74:	,818.00	(400,000.00)	343,818.	.00	3,695		340,123						GMN	Maintain	Medium	División de Generación	287 Director Generación	568 Other Equipment - Electric System	Office Furniture and Equipment	Other Equipment	Other Equipment
Generation	19857 VEHÍCULO TRANSPORTACIÓN (MULA) 6 @ \$15,000	44	,629.00	(11,039.00)	33,590.	.00	-		33,590						GMN	Maintain	Medium	Central San Juan	348 Jefe Divisón Central Generatriz San Juan	568 Other Equipment - Electric System	Office Furniture and Equipment	Other Equipment	Other Equipment
Generation	19859 BOILER MAINTENANCE SPECIAL TOOLS	74	.382.00		74.382	.00	69.306		5.076						GMN			Central San Juan	348 Jefe Divisón Central Generatriz San Juan	568 Other Equipment - Electric System	Office Furniture and Equipment	Other Equipment	Other Equipment
Generation	19862 ADQUISICIÓN BOMBAS PARA POCETAS PSSP	141	,764.00	(148.764.00	Α.										GMN	Mandatory	Medium	Central Palo Seco	360 Jefe Divisón Central Generatriz Palo Seco	568 Other Equipment - Electric System	Office Furniture and Equipment	Other Equipment	Other Equipment
Generation	19002 ADQUISICION BOWIBAS FARA FOCETAS FSSF	14	,704.00	(140,704.00	7		-								GIVIN	ivialidatory	iviculuiii	Central Palo Seco	300 Jele Divisori Central Generatriz Palo Seco	300 Other Equipment - Electric System	Office Furniture and Equipment	Other Equipment	Other Equipment
Generation	19865 Safety Equipment Generation	24	,939.00	(83,000.00)	164,939.	.00	-		164,939			1			GMN			División de Generación	287 Director Generación	568 Other Equipment - Electric System	Office Furniture and Equipment	Other Equipment	Other Equipment
Generation	16993 Security Equipment-Electric System	24	,939.00	(31,092.00)) 216,847.	.00	29,013		187,834						GMN	Mandatory	High	División de Generación	287 Director Generación	576 Other Equipment - Corporate Security	Office Furniture and Equipment	Other Equipment	Other Equipment
Generation	19732 Preliminary Studies - Dams and Reservoirs	49	,879.00	(495,879.00))	-	-		-						GMN	Mandatory	High	Centrales Hidrogas y Cambalache	315 Jefe de Central Hidro Gas	600 Preliminary Studies - Engineering	Preliminary Surveys and Investigation	Preliminary Surveys and Investigation	Preliminary Surveys and Investigation
		111,63	,225.00	33,339,836.00	144,977,061.	.00 1	128,720,539.73	16,250	5,521.27														

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Annex I

NME Projects – FEMA Reimbursed April 1, 2023 Report

- NME Fiscal Year 2018-19
 - o Proyecto 19883 Generadores Portátiles 23-30 MW
 - PW 9312 FAASt Mobile Generation Units Purchases
 - Reimbursed \$53,766,422.93
- NME Fiscal Year 2021-22
 - Mayagüez
 - 16978 Aeroderivative Improvement of Mayagüez
 - PW 10455 FAASt Mayagüez Hydro-Gas Power Plant Permanent
 - SOW 7092 Unit 1A, 1B and 4A Rehabilitation
 - Emergency SOW-Variable frequency control water pump
 - Emergency SOW-Fuse
 - Reimbursed \$ 15,987,669.75
 - Aguirre Steam Plant
 - 15243 Boiler Improvement U-1 Aguirre Steam Plant
 - PW 10571 FAASt Aguirre Power Plant 001 Infrastructure
 - SOW 2034-Two New Condenser Discharge Water Pumps Motors
 - Reimbursed \$ 667,000
 - 13442 HP and IP Rotor Improvement Aguirre Steam Plant
 - PW 10568 FAASt Aguirre Power Plant 002 Units 1 &2
 - SOW 2042- Unit 1 Major Inspection (Replacement Turbogenerator) Combined Cycle Aguirre Steam Plant
 - Reimbursed \$ 9,355,381.67
 - 14672 Scheduled Maintenance Stag I Combined Cycle Aguirre Steam Plant
 - Pw 10622 FAASt [Aguirre Power Plant 003 Combined Cycle]
 - SOW 2040-Hot Gas Path Inspection Work Units 1-1 and 1-2
 - Reimbursed \$ 124,874.1
 - San Juan Steam Plant
 - 19807 Condenser Repair U5 San Juan Steam Plant
 - - SOW 1003- Units 5 Condenser Repair and Coating Application
 - SOW 1006- Units 5 Replacement of Outlet Valves and Elbow Condenser

- 17039 Scheduled Maintenance HRSG U-5 San Juan Steam Plant
 - PW 10615 FAASt [San Juan 001 2 Units 5 & 6] (Generation
 - SOW 1024- Purchases and Installation of Modules D&E HRSG Unit 5
 - Reimbursed \$ 10,897,403
- 19921 Upgrade Ovation System SJ 5-6
 - PW 10615 FAASt [San Juan 001 2 Units 5 & 6] (Generation
 - SOW 1020- Control System Upgrade units 5 & 6
 - Reimbursed \$2,205,245
- Costa Sur Steam Plant
 - 16975 Turbine Generator Improvement unit 6 Costa Sur Steam Plant
 - PW 10702 FAASt [FAAST Costa Sur Power Plant Permanent
 - SOW 3065- Unit 6 LP-B Repair & Installation Work (Failure)
 - Reimbursed \$ 1,868,774