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

Dec 21, 2022

6:29 PM

IN RE:

CASE NO. NEPR-MI-2021-0002

IN RE: REVIEW OF THE PUERTO RICO ELECTRIC POWER AUTHORITY'S 10-YEAR INFRASTRUCTURE PLAN-DECEMBER 2020 **SUBJECT:** Submittal of LUMA's December 2022 Update to PREPA-LUMA 90-Day Plan for T&D Projects

#### MOTION SUBMITTING LUMA'S DECEMBER 2022 UPDATE TO PREPA-LUMA 90-DAY PLAN FOR T&D PROJECTS

## TO THE PUERTO RICO ENERGY BUREAU:

COME NOW LUMA Energy, LLC ("ManagementCo")<sup>1</sup>, and LUMA Energy ServCo,

LLC ("ServCo")<sup>2</sup>, (jointly referred to as "LUMA"), through the undersigned legal counsel and

respectfully submit the following:

1. Pursuant to the continued reporting requirements set forth in this Puerto Rico

Energy Bureau's ("Energy Bureau") Resolution and Order of March 26, 2021,<sup>3</sup> and in accordance

with LUMA's Motion of July 15, 2021,<sup>4</sup> and PREPA's and LUMA's Motion of September 21,

2021<sup>5</sup>, LUMA hereby submits, as *Exhibit 1* to this Motion, LUMA's December 2022 update to the

PREPA-LUMA 90-Day Plan pertaining to the transmission and distribution system projects

NEPR

Received:

<sup>&</sup>lt;sup>1</sup> Register No. 439372.

<sup>&</sup>lt;sup>2</sup> Register No. 439373.

<sup>&</sup>lt;sup>3</sup> In this Resolution and Order ("March 26<sup>th</sup> Resolution"), the Energy Bureau required, among others, that the Puerto Rico Electric Power Authority ("PREPA") "continue reporting to the Energy Bureau and [the Federal Emergency Management Agency ("FEMA")], within the next five (5) years, the progress of all ongoing efforts related to the final approval of the submitted projects not yet approved by the Energy Bureau". March 26<sup>th</sup> Resolution on page 19.

<sup>&</sup>lt;sup>4</sup> This refers to the *Motion Submitting the Corrected LUMA Presentation at the Technical Conference of July 11, 2021, and Requesting Approvals of Matters Presented and Proposed during the Technical Conference* filed by LUMA on July 15, 2021 ("July 15<sup>th</sup> Motion") wherein LUMA proposed, among others, that reporting in this docket be done quarterly and that updates to the 90-Day Plan in relation to the 10-Year Infrastructure Plan be provided to the Energy Bureau during the last month of every quarter as it is provided to FEMA. *See* the July 15<sup>th</sup> Motion on pages 8-9.

<sup>&</sup>lt;sup>5</sup> This refers to the *Motion Submitting September 2021 Update to PREPA-LUMA 90-Day Plan* jointly filed by LUMA and PREPA on September 21, 2021 ("LUMA September 21 Motion") wherein LUMA and PREPA informed that going forward; they would continue to file the PREPA-LUMA 90-Day Plans, instead of 90-Day updates of the 10-Year Infrastructure Plan given that FEMA only required the 90-Day Plans. *See* September 21 Motion on page 4.

("T&D Projects") ("December 2022 Update to PREPA-LUMA 90-Day Plan") updating the status of T&D Projects and providing a summary of key next steps for the upcoming 90 days. LUMA and PREPA are submitting to the Central Office for Recovery, Reconstruction, and Resiliency ("COR3") their respective updates to the PREPA-LUMA 90-Day Plan separately (LUMA with respect to the T&D Projects and PREPA with respect to generation-related projects), and COR3 will then submit the respective PREPA-LUMA 90-Day Plan to FEMA. Accordingly, LUMA will be submitting its 90-Day Plan updates separately to this Energy Bureau as they are submitted to COR3.

2. In addition, as *Exhibit 2* to this Motion, LUMA submits a redline version that compares the update to the PREPA-LUMA 90-Day Plan filed with this Energy Bureau on September 16, 2022 (*see* Exhibit 1 of *Motion Submitting September 2022 Update to PREPA-LUMA 90-Day Plan for T&D Projects* filed by LUMA on that date) with the December 2022 Update to PREPA-LUMA 90-Day Plan being submitted today.

WHEREFORE, LUMA respectfully requests that the Energy Bureau take notice of the aforementioned, and accept LUMA's December 2022 Update to PREPA-LUMA 90-Day Plan for T&D Projects submitted herein as Exhibit 1 to this Motion in compliance with LUMA's reporting obligations.

#### **RESPECTFULLY SUBMITTED.**

In San Juan, Puerto Rico, this 21<sup>st</sup> day of December 2022.

I hereby certify that I filed this motion using the electronic filing system of this Energy Bureau and that I will send an electronic copy of this motion to the attorneys for PREPA, Joannely Marrero-Cruz, jmarrero@diazvaz.law and Katiuska Bolaños-Lugo, kbolanos@diazvaz.law\_



## **DLA Piper (Puerto Rico) LLC**

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/s/ Yahaira De la Rosa Algarín Yahaira De la Rosa Algarín RUA Núm. 18,061 yahaira.delarosa@us.dlapiper.com

# Exhibit 1

December 2022 T&D 90-Day Plan

110

December 2022



FEMA

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## I. Introduction

In accordance with the directive received from FEMA to produce a 90-Day Plan, this document captures an overview of the key next steps and progress made on FEMA-funded projects for the Puerto Rico electrical system.

On June 1, 2021, LUMA assumed overall responsibilities for PREPA's T&D System as outlined within the O&M Agreement (OMA) between PREPA, P3A, and LUMA. Upon Commencement of the Service Period, PREPA refocused its efforts on projects in the Generation and Dams, Hydro, and Irrigation asset categories; while projects in the Transmission, Distribution, Substations, IT/Telecom, Buildings, and Environmental asset categories ("T&D Projects") were transitioned to and are now the responsibility of LUMA.

This 90-Day Plan provides information on various focus areas for LUMA.

# II. Overview of Focus Areas for the Next 90-Days

The content below summarizes next steps across the following six areas: 1) PREPA-LUMA Coordination and Alignment; 2) Federal Grant Management; 3) Funding and Reporting; 4) Environmental and Historic Preservation; and 5) Engineering Management.

#### PREPA-LUMA Coordination and Alignment

PREPA and LUMA Focus Areas

- PREPA and LUMA leadership are participating in regular weekly meetings with COR3 & FEMA to ensure visibility of progress of project work, ensure the coordination and understanding of common matters, and to identify and resolve risks that involve points of integration between the two entities
- PREPA and LUMA will continue coordination to support successful operations under the OMA

#### Federal Grant Management

#### LUMA Focus Areas

 Continue working with COR3 and FEMA to obtain Project Obligations for the 72 *Detailed SOWs* submitted to date (i.e., 7 Substation Rebuild projects, 16 Transmission Line Rebuild projects, 3 Substation Minor Repair projects, 3



Substation Physical Security projects, 2 Transmission Pole Replacement projects, and 34 Distribution Pole and Conductor Replacement projects, 5 Streetlight projects, 1 SCADA Remote Access and RTU Replacements project and 1 IT and Telecommunications projects)

- Continue advancing work on 428 projects towards finalizing *Detailed SOWs* for submission to COR3 and FEMA. This effort includes 406 Hazard Mitigation and EHP work. Expect to submit *Detailed SOWs* within the next 90-day period as per target schedule in Section IV
- Continue refinement of 406 Hazard Mitigation Strategies for Distribution, Transmission, Substation and Streetlights and ongoing discussions with COR3 and FEMA for feedback and alignment
- Developed an initial Scope of Work for the system network upgrades necessary to interconnect privately-owned energy projects of Tranche I. The project proposal will be presented to FEMA under Section 406 Hazard Mitigation.
- During the last 90-day period, LUMA completed the following:
  - Submitted 38 *Detailed SOWs* to FEMA for approval representing \$1.02 billion in capital investments
  - Obtained FEMA Authorization and Project Obligations on *Detailed* SOWs for 9 *Detailed* SOWs representing \$72 million in capital investments
  - Progressed construction activities on 29 projects representing \$0.11 billion

## Funding and Reporting

- Continue tracking project actual costs in accordance with FEMA, HUD, and COR3 standards to support financial reporting requirements for federally funded projects
- Submitted progress and financial quarterly reports for period ending 9/30/2022 on all 428-obligated projects
- Submitted \$24.0 million in requests for reimbursements (RFRs) to COR3 to date and has another \$4 million in process to be submitted during the next 90 day period
- Commenced the implementation of Time Reporting and Enhancements technology project to automate RFR process related to Federally Funded



Projects and accelerate submissions to COR3 while ensuring federal compliance

- Incorporated additional best practices from RFRs submitted to date to prioritize projects, and optimize preparation time and overall quality of documentation for RFR submissions moving forward
- Engaged with our grid recovery partners on additional Federal Funding opportunities to include Department of Energy electrical system improvement Grants, HUD and PRDOH CDBG-DR Programs for Hazard mitigation, Grid Resilience and Cost Share as well as FEMA 406 Hazard Mitigation proposals in all major asset categories and projects.
- Worked on additional initial proposals utilizing the FEMA/SHPO 404 Hazard Mitigation program with four key back-up projects proposed and developed, representing \$900 million, should additional 404 HMGP funds become available.

#### **Environmental and Historic Preservation**

#### <u>LUMA Focus Areas</u>

- Continue to consult with FEMA and COR3 on Project-Specific Programmatic Agreement (PSPA) measures specific to streetlight, telecommunications, substations, transmission, and distribution projects
- During the last 90-day period, LUMA completed the following:
  - Streamlined consultation process with FEMA relating to environmental studies, pre-construction, and construction disturbances and vegetation clearing
  - Continue to provide environmental training for A&E, construction contractors and LUMA operations crews in support of compliance with EHP requirements
  - Continue to review initial FEMA Record of Environmental Considerations (RECs) for approved projects to implement conditions into project scopes
  - Continue to support in pre-construction and construction inspections visits, aided with the implementation of mitigation measures required by FEMA EHP and other agencies to meet environmental conditions, and provided supporting documents for Class 3 estimate
  - Develop EHP Closeout guideline
  - Continued notifying and requesting endorsements from government agencies for projects obligated by FEMA (LUMA's Capital Programs and Permitting Office)



#### **Engineering Management**

#### <u>LUMA Focus Areas</u>

- Continue with preliminary engineering design work with existing A/E firms towards the development of *Detailed SOWs*
- Continue detailed engineering on all projects with FEMA approved *Detailed SOWs*
- Continue to finalize contracts for additional A/E resources to support the federally funded projects and leverage the successful engineering firm(s) to assign projects with FEMA project numbers to begin A/E design work towards the development of *Detailed SOWs*.
- Continue evaluating and prioritizing the existing projects with FEMA numbers against the needs and constraints of the electrical system and available contractor capacities to optimize and level the execution strategies
- Continue working the area plan analysis to identify contingency issues and provide a backup analysis to determine sectionalization and segmentation needs (e.g., installation of reclosers)
- During the last 90-day period, LUMA completed the following:
  - Assigned additional Substation and Transmission Line rebuild project engineering packages to engineering firms to finalize engineering scope, budget, and schedule and begin preliminary engineering design in October
  - Completed the planning technical studies and functional specifications on 22 transmission lines and 6 substations for long-term transmission reliability solutions
  - Completed load interconnection reliability studies on 6 load interconnections
  - Completed line reliability recloser studies on twenty-two 38 kV transmission lines
  - Completed transmission line outage matrix studies on 15 transmission lines
  - Completed 2022 day-peak and night-peak power flow model development
  - Completed planning and analysis on 19 additional distribution feeders



## III. LUMA Estimated Schedule for Submission of Detailed SOWs

Over the next 90-days, LUMA will be focused on preparing *Detailed SOW* and cost estimates for T&D projects that currently have both PREB approval and FEMA project numbers.

The tables below show the current set of projects, by asset category, along with the estimated timing for *Detailed SOWs* submittals to COR3 and FEMA.

The estimation of project submission timing noted below is based on the best information available to LUMA at the time of this plan update. LUMA is focused on meeting or exceeding the project submission estimates listed in the table below.

#### **SUBSTATIONS**

| FEMA Prj. # | Project Name                                 | DSOW<br>Submission<br>Estimate | Construction<br>Start<br>Estimate |
|-------------|--|--------------------------------|-----------------------------------|
| 174422      | Catano Modernization & Hardening (Obligated) | Oct-2021<br>(Complete)         | Apr-2023                          |
| 165209      | Culebra 3801 Substation (Obligated)          | Apr-2022<br>(Complete)         | Mar-2023                          |
| 165225      | Vieques 2501 Substation (Obligated)          | Apr-2022<br>(Complete)         | Mar-2023                          |
| 179558      | Manati TC BKR - T005 (Obligated)             | May-2022<br>(Complete)         | Nov-2022<br>(Completed)           |
| 165268      | Rio Grande Estates - CH – 2306               | May-2022<br>(Complete)         | May-2024                          |
| 169495      | Tapia GIS 1102                               | May-2022<br>(Complete)         | Jun-2024                          |
| 169058      | Llorens Torres 1106                          | May-2022<br>(Complete)         | Oct-2024                          |
| 169266      | Centro Medico 1327 & 1359                    | May-2022<br>(Complete)         | Jan-2024                          |
| 169896      | Costa Sur TC (Obligated)                     | Jun-2022<br>(Complete)         | Feb-2024                          |
| 178258      | Taft 1105                                    | Jun-2022<br>(Complete)         | Mar-2026                          |
| 169500      | Bayamon TC - BKRS Y1 - 1711                  | Jul-2022<br>(Complete)         | Nov-2023                          |



| FEMA Prj. # | Project Name                         | DSOW<br>Submission<br>Estimate | Construction<br>Start<br>Estimate |
|-------------|--------------------------------------|--------------------------------|-----------------------------------|
| 178503      | Aguirre TC -BKRS                     | Nov-2022<br>(Complete)         | Nov-2023                          |
| 178577      | Cachete 1526                         | Feb-2023                       | Nov-2023                          |
| 169276      | Viaducto TC 1100                     | Feb-2023                       | Oct-2023                          |
| 546370      | Substation Minor Repairs-Group A     | Apr-2022<br>(Complete)         | Mar-2023                          |
| 542758      | Substation Minor Repairs-Group B     | Jul-2022<br>(Complete)         | Apr-2023                          |
| 546371      | Substation Minor Repairs-Group C     | Jun-2022<br>(Complete)         | Jul-2023                          |
| 549715      | Substation Minor Repairs-Group D     | Feb-2023                       | Sep-2023                          |
| 549725      | Substation Minor Repairs-Group E     | Feb-2023                       | Sep-2023                          |
| 550910      | Physical Security Group 1            | Apr-2022<br>(Complete)         | Mar-2023                          |
| 549764      | Physical Security Group 2            | Jul-2022<br>(Complete)         | Apr-2023                          |
| 551861      | Physical Security Group 3            | Jun-2022<br>(Complete)         | May-2023                          |
| 660422      | Physical Security Group 4            | Feb-2023                       | Jun-2023                          |
| 684920      | Substations HV Equipment Replacement | Feb-2023                       | Mar-2023                          |

## TRANSMISSION

| FEMA Prj. # | Project Name   | DSOW<br>Submission<br>Estimate | Construction<br>Start<br>Estimate |
|-------------|--|--------------------------------|-----------------------------------|
| 168226      | 38000 - San Juan - Isla Grande (LOOP)                          | May-2022<br>(Complete)         | Dec-2023                          |
| 176971      | 8200 - San Juan SP - Catano Sect                               | Jul-2022<br>(Complete)         | Sep-2024                          |
| 180052      | Existing 38kV - Line 100, Line 200 Ponce TC to Jobos TC        | Aug-2022<br>(Complete)         | Aug-2024                          |
| 180326      | Existing 115 kV - Line 36800 Palmer Fajardo to Sabana<br>Llana | Aug-2022<br>(Complete)         | Jun-2024                          |



| FEMA Prj. # | Project Name  | DSOW<br>Submission<br>Estimate | Construction<br>Start<br>Estimate |
|-------------|---|--------------------------------|-----------------------------------|
| 166904      | 37800 - Caguas – Monacillo  | Aug-2022<br>(Complete)         | Apr-2024                          |
| 167443      | 36200 - Monacillos - Juncos   | Aug-2022<br>(Complete)         | Jun-2027                          |
| 176913      | 9500 - Palo Seco SP - Cantano Sect                                    | Aug-2022<br>(Complete)         | Jul-2024                          |
| 176954      | 1100 - Garzas 1 HP - Garzas 2 HP                                      | Aug-2022<br>(Complete)         | Jul-2024                          |
| 168483      | 36400 - Dos Bocas - Ponce   | Aug-2022<br>(Complete)         | May-2025                          |
| 166860      | 37800 - Jobos – Caguas  | Aug-2022<br>(Complete)         | Nov-2025                          |
| 167168      | 37100 - Costa Sur - Acacias   | Aug-2022<br>(Complete)         | Nov-2024                          |
| 177191      | 39000 - Aguas Buenas – Caguas   | Sep-2022<br>(Complete)         | Dec-2024                          |
| 165213      | Main Land 5400 - Rio Blanco HP - Daguao TC                            | Nov-2022<br>(Complete)         | Aug-2024                          |
| 167508      | 50100 - Cambalache - Manati   | Nov-2022<br>(Complete)         | Aug-2027                          |
| 166707      | 51300 - Ponce - Costa Sur   | Nov-2022<br>(Complete)         | Jul-2024                          |
| 177134      | 4100 - Guaraguo TC - Comerio TC                                       | Nov-2022<br>(Complete)         | Apr-2024                          |
| 167446      | 36100 - Dos Bocas - Monacillos  | Jan-2023                       | Oct-2024                          |
| 668669      | 230kV Transmission Priority Poles Replacements - Mora<br>50500        | Apr-2022<br>(Complete)         | Dec-2021<br>(Complete)            |
| 334468      | 38kV Transmission Priority Pole Replacement Line 2200<br>(Obligated)  | May-2022<br>(Complete)         | Feb-2023                          |
| 550896      | 38kV Transmission Priority Pole Replacement Line 6700<br>(Obligated)  | Jun-2022<br>(Complete)         | May-2023                          |
| 668583      | 38kV Transmission Priority Pole Replacement Line 13300<br>(Obligated) | Jun-2022<br>(Complete)         | Apr-2023                          |
| 668592      | 38kV Transmission Priority Pole Replacement Line 9800<br>(Obligated)  | Jul-2022<br>(Complete)         | Mar-2023                          |
| 681672      | 38kV Transmission Priority Pole Replacement Line 2300                 | Nov-2022<br>(Complete)         | May-2023                          |



## DISTRIBUTION

| FEMA Prj. # | Project Name   | DSOW<br>Submission<br>Estimate | Construction<br>Start<br>Estimate |
|-------------|--|--------------------------------|-----------------------------------|
| 165226      | Vieques Feeders 2501-01, 2501-02, 2501-03 and Culebra Feeders 3801-01, 3801-02 | Dec-2022                       | Oct-2023                          |
| 542690      | Streetlighting – Maunabo (Obligated)   | Feb-2022<br>(Complete)         | Jun-2022<br>(Started)             |
| 542688      | Streetlighting – Aguada (Obligated)  | Mar-2022<br>(Complete)         | Jun-2022<br>(Started)             |
| 542756      | Streetlighting – Guanica (Obligated)   | Mar-2022<br>(Complete)         | Aug-2022<br>(Started)             |
| 542687      | Streetlighting – Lajas (Obligated)   | Mar-2022<br>(Complete)         | Jul-2022<br>(Started)             |
| 542517      | Streetlighting – Luquillo (Obligated)  | Mar-2022<br>(Complete)         | Jun-2022<br>(Started)             |
| 660239      | Streetlighting- Villalba (Obligated)   | Jul-2022<br>(Complete)         | Oct-2022<br>(Started)             |
| 659715      | Streetlighting – Aibonito  | Jul-2022<br>(Complete)         | Nov-2022<br>(Started)             |
| 659623      | Streetlighting - Catano  | Jul-2022<br>(Complete)         | Nov-2022<br>(Started)             |
| 659625      | Streetlighting- Dorado   | Aug-2022<br>(Complete)         | Nov-2022<br>(Started)             |
| 660227      | Streetlighting- Hatillo  | Aug-2022<br>(Complete)         | Nov-2022<br>(Started)             |
| 660437      | Streetlighting- Manati   | Aug-2022<br>(Complete)         | Nov-2022<br>(Started)             |
| 673504      | Streetlighting- Gurabo   | Feb-2023                       | Jun-2023                          |
| 659968      | Streetlighting- San German   | Feb-2023                       | Jun-2023                          |
| 666894      | Streetlighting- San Juan   | Mar-2023                       | Jul-2023                          |
| 671502      | Streetlighting- Yabucoa  | Mar-2023                       | Aug-2023                          |
| 671400      | Streetlighting- Barceloneta  | Mar-2023                       | Aug-2023                          |
| 671396      | Streetlighting- Utuado   | Mar-2023                       | Aug-2023                          |
| 334323      | Distribution Pole and Conductor Repair- Ponce Group 1<br>(Obligated)           | Jan-2022<br>(Complete)         | Mar-2022<br>(Started)             |
| 334329      | Distribution Pole and Conductor Repair- Ponce Group 2<br>(Obligated)           | Jan-2022<br>(Complete)         | Feb-2023                          |



| FEMA Prj. # | Project Name  | DSOW<br>Submission<br>Estimate | Construction<br>Start<br>Estimate |
|-------------|---|--------------------------------|-----------------------------------|
| 542762      | Distribution Pole and Conductor Repair-Arecibo Group 2 (Obligated)      | Feb-2022<br>(Complete)         | Mar-2022<br>(Complete)            |
| 334488      | Distribution Pole and Conductor Repair-Caguas Group 4 (Obligated)       | Feb-2022<br>(Complete)         | May-2022<br>(Started)             |
| 334527      | Distribution Pole and Conductor Repair-Caguas Group 8 (Obligated)       | Feb-2022<br>(Complete)         | Sep-2022<br>(Complete)            |
| 673839      | Distribution Pole and Conductor Repair-Bayamon Group 2 (Obligated)      | Jun-2022<br>(Complete)         | Apr-2022<br>(Complete)            |
| 674092      | Distribution Pole and Conductor Repair-Caguas Group 5 (Obligated)       | Jun-2022<br>(Complete)         | Nov-2022<br>(Started)             |
| 674098      | Distribution Pole and Conductor Repair-Caguas Group 7<br>(Obligated)    | Jun-2022<br>(Complete)         | Dec-2022                          |
| 673847      | Distribution Pole and Conductor Repair-Carolina Group 2<br>(Obligated)  | Jun-2022<br>(Complete)         | Mar-2022<br>(Started)             |
| 673848      | Distribution Pole and Conductor Repair-Carolina Group 3 (Obligated)     | Jun-2022<br>(Complete)         | Jan-2022<br>(Started)             |
| 673774      | Distribution Pole and Conductor Repair-Mayaguez Group 1<br>(Obligated)  | Jun-2022<br>(Complete)         | Mar-2022<br>(Started)             |
| 673795      | Distribution Pole and Conductor Repair- Mayaguez Group 4 (Obligated)    | Jun-2022<br>(Complete)         | Mar-2023                          |
| 673818      | Distribution Pole and Conductor Repair- San Juan Group 1<br>(Obligated) | Jun-2022<br>(Complete)         | Nov-2021<br>(Started)             |
| 673838      | Distribution Pole and Conductor Repair- San Juan Group 2<br>(Obligated) | Jun-2022<br>(Complete)         | Dec-2022                          |
| 673771      | Distribution Pole and Conductor Repair-Arecibo Group<br>1 (Obligated)   | Jul-2022<br>(Complete)         | Nov-2021<br>(Started)             |
| 673836      | Distribution Pole and Conductor Repair-Bayamon Group 1                  | Jul-2022<br>(Complete)         | Mar-2022<br>(Started)             |
| 673843      | Distribution Pole and Conductor Repair-Bayamon Group 3 (Obligated)      | Jul-2022<br>(Complete)         | Dec-2022                          |
| 674072      | Distribution Pole and Conductor Repair-Caguas Group 1<br>(Obligated)    | Jul-2022<br>(Complete)         | Nov-2022<br>(Started)             |
| 674083      | Distribution Pole and Conductor Repair-Caguas Group 2<br>(Obligated)    | Jul-2022<br>(Complete)         | Dec-2022                          |
| 674088      | Distribution Pole and Conductor Repair-Caguas Group 3<br>(Obligated)    | Jul-2022<br>(Complete)         | Dec-2021<br>(Started)             |
| 674096      | Distribution Pole and Conductor Repair-Caguas Group 6 (Obligated)       | Jul-2022<br>(Complete)         | Dec-2022                          |
| 673772      | Distribution Pole and Conductor Repair- Mayaguez Group 2 (Obligated)    | Jul-2022<br>(Complete)         | Mar-2023                          |



| FEMA Prj. # | Project Name   | DSOW<br>Submission<br>Estimate | Construction<br>Start<br>Estimate |
|-------------|--|--------------------------------|-----------------------------------|
| 673775      | Distribution Pole and Conductor Repair- Mayaguez Group 3             | Jul-2022<br>(Complete)         | Dec-2021<br>(Started)             |
| 673844      | Distribution Pole and Conductor Repair- San Juan Group 3 (Obligated) | Jul-2022<br>(Complete)         | Dec-2022                          |
| 678985      | Distribution Pole and Conductor Repair - Bayamon Group 4             | Aug-2022<br>(Complete)         | Jan-2023                          |
| 679025      | Distribution Pole and Conductor Repair - San Juan Group 4            | Aug-2022<br>(Complete)         | Feb-2023                          |
| 679033      | Distribution Pole and Conductor Repair - Caguas Group 9              | Aug-2022<br>(Complete)         | Jan-2023                          |
| 679127      | Distribution Pole and Conductor Repair - Arecibo Group 3             | Aug-2022<br>(Complete)         | Feb-2023                          |
| 679149      | Distribution Pole and Conductor Repair - Mayaguez Group 5            | Aug-2022<br>(Complete)         | Feb-2023                          |
| 679457      | Distribution Pole and Conductor Repair - Ponce Group 3               | Aug-2022<br>(Complete)         | Feb-2023                          |
| 678988      | Distribution Pole and Conductor Repair - Bayamon Group 5             | Sep-2022<br>(Complete)         | Feb-2023                          |
| 679026      | Distribution Pole and Conductor Repair - San Juan Group 5            | Sep-2022<br>(Complete)         | Jan-2023                          |
| 679133      | Distribution Pole and Conductor Repair - Arecibo Group 4             | Sep-2022<br>(Complete)         | Feb-2023                          |
| 679134      | Distribution Pole and Conductor Repair - Caguas Group 10             | Sep-2022<br>(Complete)         | Jan-2023                          |
| 679153      | Distribution Pole and Conductor Repair - Mayaguez Group 6            | Sep-2022<br>(Complete)         | Feb-2023                          |
| 679458      | Distribution Pole and Conductor Repair - Ponce Group 4               | Sep-2022<br>(Complete)         | Jan-2023                          |
| 685477      | Distribution Pole and Conductor Repair - Arecibo Group 6             | Nov-2022<br>(Complete)         | Apr-2023                          |
| 682910      | Distribution Pole and Conductor Repair - Bayamon Group 7             | Nov-2022<br>(Complete)         | Apr-2023                          |
| 682890      | Distribution Pole and Conductor Repair - Caguas Group 12             | Nov-2022<br>(Complete)         | Apr-2023                          |
| 685370      | Distribution Pole and Conductor Repair - Mayaguez Group 8            | Nov-2022<br>(Complete)         | Mar-2023                          |
| 685263      | Distribution Pole and Conductor Repair - Ponce Group 6               | Nov-2022<br>(Complete)         | Apr-2023                          |
| 682865      | Distribution Pole and Conductor Repair - San Juan Group 7            | Nov-2022<br>(Complete)         | May-2023                          |



| FEMA Prj. # | Project Name   | DSOW<br>Submission<br>Estimate | Construction<br>Start<br>Estimate |
|-------------|--|--------------------------------|-----------------------------------|
| 682135      | Distribution Pole and Conductor Repair - Bayamon Group 8   | Nov-2022<br>(Complete)         | May-2023                          |
| 682324      | Distribution Pole and Conductor Repair - Caguas Group 13   | Nov-2022<br>(Complete)         | May-2023                          |
| 682870      | Distribution Pole and Conductor Repair - San Juan Group 6  | Nov-2022<br>(Complete)         | Apr-2023                          |
| 682882      | Distribution Pole and Conductor Repair - Caguas Group 11   | Nov-2022<br>(Complete)         | Apr-2023                          |
| 682898      | Distribution Pole and Conductor Repair - Bayamon Group 6   | Nov-2022<br>(Complete)         | Apr-2023                          |
| 685943      | Distribution Pole and Conductor Repair - Ponce Group 5     | Nov-2022<br>(Complete)         | Apr-2023                          |
| 686453      | Distribution Pole and Conductor Repair - Mayaguez Group 7  | Nov-2022<br>(Complete)         | Mar-2023                          |
| 686471      | Distribution Pole and Conductor Repair - Arecibo Group 5   | Nov-2022<br>(Complete)         | Apr-2023                          |
| 682178      | Distribution Pole and Conductor Repair - Arecibo Group 7   | Dec-2022<br>(Complete)         | May-2023                          |
| 682210      | Distribution Pole and Conductor Repair - Mayaguez Group 9  | Dec-2022                       | May-2023                          |
| 686480      | Distribution Pole and Conductor Repair - Ponce Group 7     | Dec-2022<br>(Complete)         | May-2023                          |
| 682028      | Distribution Pole and Conductor Repair - San Juan Group 8  | Dec-2022<br>(Complete)         | May-2023                          |
| 682172      | Distribution Pole and Conductor Repair - Arecibo Group 8   | Dec-2022                       | May-2023                          |
| 682136      | Distribution Pole and Conductor Repair - Bayamon Group 9   | Dec-2022                       | May-2023                          |
| 682373      | Distribution Pole and Conductor Repair - Caguas Group 14   | Dec-2022<br>(Complete)         | May-2023                          |
| 682180      | Distribution Pole and Conductor Repair - Mayaguez Group 10 | Dec-2022<br>(Complete)         | May-2023                          |
| 682228      | Distribution Pole and Conductor Repair - Ponce Group 8     | Dec-2022                       | May-2023                          |
| 682031      | Distribution Pole and Conductor Repair - San Juan Group 9  | Dec-2022                       | May-2023                          |
| 688627      | Distribution Pole and Conductor Repair - Arecibo Group 9   | Dec-2022                       | May-2023                          |
| 688096      | Distribution Pole and Conductor Repair - Caguas Group 15   | Dec-2022                       | May-2023                          |
| 688472      | Distribution Pole and Conductor Repair - Mayaguez Group 11 | Dec-2022                       | May-2023                          |
| 688774      | Distribution Pole and Conductor Repair - Ponce Group 9     | Dec-2022                       | Jun-2023                          |



| FEMA Prj. # | Project Name  | DSOW<br>Submission<br>Estimate | Construction<br>Start<br>Estimate |
|-------------|---|--------------------------------|-----------------------------------|
| 691246      | Distribution Pole and Conductor Repair - San Juan Group 10    | Dec-2022                       | Jun-2023                          |
| 688109      | Distribution Pole and Conductor Repair - San Juan Group 11    | Dec-2022                       | Jun-2023                          |
| 688198      | Distribution Pole and Conductor Repair - Arecibo Group 10     | Dec-2022                       | Jun-2023                          |
| 688625      | Distribution Pole and Conductor Repair - Ponce Group 10       | Dec-2022                       | Jun-2023                          |
| 688629      | Distribution Pole and Conductor Repair - Mayaguez Group 13    | Dec-2022                       | Jun-2023                          |
| 688630      | Distribution Pole and Conductor Repair - Mayaguez Group<br>12 | Dec-2022                       | May-2023                          |
| 689071      | Distribution Pole and Conductor Repair - Arecibo Group 11     | Dec-2022                       | Jun-2023                          |
| TBD         | Distribution Pole and Conductor Repair - San Juan Group 12    | Dec-2022                       | Jun-2023                          |
| TBD         | Distribution Pole and Conductor Repair - Ponce Group 11       | Dec-2022                       | Jun-2023                          |
| TBD         | Distribution Pole and Conductor Repair - Ponce Group 13       | Jan-2023                       | Jul-2023                          |
| TBD         | Distribution Pole and Conductor Repair - Ponce Group 12       | Jan-2023                       | Jul-2023                          |
| TBD         | Distribution Pole and Conductor Repair - Mayaguez Group<br>14 | Jan-2023                       | Jul-2023                          |
| TBD         | Distribution Pole and Conductor Repair - Arecibo Group 12     | Jan-2023                       | Jul-2023                          |
| TBD         | Distribution Pole and Conductor Repair - Arecibo Group 13     | Feb-2023                       | Aug-2022                          |
| TBD         | Distribution Pole and Conductor Repair - Bayamon Group 10     | Feb-2023                       | Aug-2023                          |
| TBD         | Distribution Pole and Conductor Repair - Caguas Group 16      | Feb-2023                       | Aug-2023                          |
| TBD         | Distribution Pole and Conductor Repair - Mayaguez Group<br>15 | Feb-2023                       | Aug-2023                          |
| TBD         | Distribution Pole and Conductor Repair - Ponce Group 14       | Feb-2023                       | Aug-2023                          |
| TBD         | Distribution Pole and Conductor Repair - San Juan Group 13    | Feb-2023                       | Aug-2023                          |
| TBD         | Distribution Pole and Conductor Repair - Arecibo Group 14     | Feb-2023                       | Aug-2023                          |
| TBD         | Distribution Pole and Conductor Repair - Bayamon Group 11     | Feb-2023                       | Aug-2023                          |
| TBD         | Distribution Pole and Conductor Repair - Caguas Group 17      | Feb-2023                       | Aug-2023                          |
| TBD         | Distribution Pole and Conductor Repair - Arecibo Group 15     | Mar-2023                       | Sep-2023                          |
| TBD         | Distribution Pole and Conductor Repair - Bayamon Group 12     | Mar-2023                       | Sep-2023                          |



| FEMA Prj. # | Project Name  | DSOW<br>Submission<br>Estimate | Construction<br>Start<br>Estimate |
|-------------|---|--------------------------------|-----------------------------------|
| TBD         | Distribution Pole and Conductor Repair - Caguas Group 18      | Mar-2023                       | Sep-2023                          |
| TBD         | Distribution Pole and Conductor Repair - Mayaguez Group<br>16 | Mar-2023                       | Sep-2023                          |
| TBD         | Distribution Pole and Conductor Repair - Mayaguez Group<br>17 | Mar-2023                       | Sep-2023                          |
| TBD         | Distribution Pole and Conductor Repair - Ponce Group 15       | Mar-2023                       | Sep-2023                          |
| TBD         | Distribution Pole and Conductor Repair - Ponce Group 16       | Mar-2023                       | Sep-2023                          |
| TBD         | Distribution Pole and Conductor Repair - San Juan Group 14    | Mar-2023                       | Sep-2023                          |
| TBD         | Distribution Pole and Conductor Repair - San Juan Group 15    | Mar-2023                       | Sep-2023                          |
| TBD         | Distribution Pole and Conductor Repair - Arecibo Group 16     | Mar-2023                       | Sep-2023                          |
| TBD         | Distribution Pole and Conductor Repair - Bayamon Group 14     | Mar-2023                       | Sep-2023                          |
| TBD         | Distribution Pole and Conductor Repair - San Juan Group 16    | Mar-2023                       | Sep-2023                          |
| 688623      | Transmission and Distribution Automation Program – Group<br>1 | Jan-2023                       | Jan-2022<br>(Started)             |

## **IT & TELECOM**

| FEMA Prj. # | Project Name  | DSOW<br>Submission<br>Estimate | Construction<br>Start<br>Estimate |
|-------------|---|--------------------------------|-----------------------------------|
| 657300      | Energy Management System (EMS) (Obligated)  | Jul-2022<br>(Complete)         | Oct-2023                          |
| 551925      | SCADA Remote Access and RTU Replacements - Group 1                                    | Jul-2022<br>(Complete)         | Mar-2023                          |
| 675345      | IT OT Technology Systems Reparations  | Mar-2023                       | Jun-2023                          |
| 662238      | Microwave Point to Point Backbone – Group A<br>(Microwave Network Upgrades – Group A) | Jan-2023                       | Oct-2023                          |
| 551926      | SCADA Remote Access and RTU Replacements - Group 2                                    | Mar-2023                       | Aug-2023                          |
| 551927      | SCADA Remote Access and RTU Replacements - Group 3                                    | Mar-2023                       | Aug-2023                          |



## BUILDINGS

| FEMA Prj. # | Project Name                   | DSOW<br>Submission<br>Estimate | Construction<br>Start<br>Estimate |
|-------------|--------------------------------|--------------------------------|-----------------------------------|
| 679006      | Test and Technology Laboratory | Nov-2022<br>(Complete)         | Jul-2024                          |

## Exhibit 2

Redline showing changes from September 2022 Update to PREPA-LUMA 90-Day Plan for T&D Projects to the December 2022 Update to PREPA-LUMA 90-Day Plan for T&D Projects

1110

SeptemberDecember 2022



FEMA



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## I. Introduction

In accordance with the directive received from FEMA to produce a 90-Day Plan, this document captures an overview of the key next steps and progress made on FEMA-funded projects for the Puerto Rico electrical system.

On June 1, 2021, LUMA assumed overall responsibilities for PREPA's T&D System as outlined within the O&M Agreement (OMA) between PREPA, P3A, and LUMA. Upon Commencement of the Service Period, PREPA refocused its efforts on projects in the Generation and Dams, Hydro, and Irrigation asset categories; while projects in the Transmission, Distribution, Substations, IT/Telecom, Buildings, and Environmental asset categories ("T&D Projects") were transitioned to and are now the responsibility of LUMA.

This 90-Day Plan provides information on various focus areas for LUMA.

# II. Overview of Focus Areas for the Next 90-Days

The content below summarizes next steps across the following six areas: 1) PREPA-LUMA Coordination and Alignment; 2) Federal Grant Management; 3) Funding and Reporting; 4) Environmental and Historic Preservation; <u>and</u> 5) Engineering Management; and 6) Enterprise Project Management ("EPM").

#### **PREPA-LUMA** Coordination and Alignment

PREPA and LUMA Focus Areas

- PREPA and LUMA leadership are participating in regular weekly meetings with COR3 & FEMA to ensure visibility of progress of project work, ensure the coordination and understanding of common matters, and to identify and resolve risks that involve points of integration between the two entities
- PREPA and LUMA will continue coordination to support successful operations under the OMA

#### Federal Grant Management

#### LUMA Focus Areas

 Continue working with COR3 and FEMA to obtain Project Obligations for the 4872 Detailed SOWs submitted to date (i.e., 67 Substation Rebuild projects, 1216 Transmission Line Rebuild projects, 3 Substation Minor Repair projects,



3 Substation Physical Security projects, 2 Transmission Pole Replacement projects, and <u>1534</u> Distribution Pole and Conductor Replacement projects, 5 Streetlight projects, 1 SCADA Remote Access and RTU Replacements project and 1 Energy Management System (EMS)IT and Telecommunications projects)

- Continue advancing work on 428 projects towards finalizing *Detailed SOWs* for submission to COR3 and FEMA. This effort includes 406 Hazard Mitigation and EHP work. Expect to submit *Detailed SOWs* within the next 90-day period as per target schedule in Section IV
- Continue refinement of 406 Hazard Mitigation Strategies for Distribution, Transmission, Substation and Streetlights and ongoing discussions with COR3 and FEMA for feedback and alignment
- Developed an initial Scope of Work for the system network upgrades necessary to interconnect privately-owned energy projects of Tranche I. The project proposal will be presented to FEMA under Section 406 Hazard <u>Mitigation.</u>
- During the last 90-day period, LUMA completed the following:
  - Received PREB approval for 7 Initial SOWs projects and programs representing \$567 million in capital investments
  - Submitted <u>5438</u> Detailed SOWs to FEMA for approval representing \$1.502 billion in capital investments
  - Obtained FEMA Authorization and Project Obligations on *Detailed* SOWs for <u>199</u> *Detailed* SOWs representing <u>\$0.1 billion72 million</u> in capital investments
  - Obtained FEMA Project Obligations for Long Lead Materials representing \$0.65 billion in capital investments
  - Construction activities on 11 projects representing \$0.1 billion
  - Completed Progressed construction activities on <u>1 project (429</u> projects completed to date representing \$0.1<u>11</u> billion)
- Continue to work with the representatives from COR3 and FEMA on key issues identified to date and identified as the work progresses

#### **Funding and Reporting**



- Continue tracking project actual costs in accordance with FEMA, HUD, and COR3 standards to support financial reporting requirements for federally funded projects
- Submitted progress and financial quarterly reports for period ending 69/30/2022 on all 428-obligated projects
- Submitted \$11.824.0 million in requests for reimbursements (RFRs) to COR3 to date and has another \$9.54 million in process to be submitted leveraging establishedduring the next 90 day period
- <u>Commenced the implementation of Time Reporting and Enhancements</u> <u>technology project to automate</u> RFR processes for document managements, <u>as required by FEMA, HUD, and process related to Federally Funded Projects</u> <u>and accelerate submissions to COR3 while ensuring federal compliance</u>
- Incorporated <u>learningsadditional best practices</u> from <u>RFR preparationRFRs</u> <u>submitted</u> to date to <u>improveprioritize projects</u>, <u>and optimize</u> preparation time and overall quality of documentation for RFR submissions moving forward
- Started compiling and preparing documentation for a material (inventory) RFR
- Engaged with our grid recovery partners on additional Federal Funding opportunities to include Department of Energy electrical system improvement Grants, HUD and PRDOH CDBG-DR Programs for Hazard mitigation, Grid Resilience and Cost Share as well as FEMA 406 Hazard Mitigation proposals in all major asset categories and projects.
- Continued workingWorked on additional initial proposals utilizing the FEMA/SHPO 404 Hazard Mitigation program with 4<u>four</u> key back-up projects proposed and developed, representing \$900 million, should additional 404 HMGP funds become available. These projects were included in the PRDOH's draft Disaster Recovery Action Plan for public consultations. Of the four projects, three were included in PRDOH's submission to HUD in January 2022 and LUMA awaits the final recommendation before developing a SOW for PREB's review and approval and a subsequent submission to PRDOH and HUD for final approval
- Continued engagement with PRDOH/Vivienda on implementing ER-1 Cost Share Program for CDBG-DR funds against specific projects. Current efforts are towards Catano Substation 1801 as a pilot project

#### **Environmental and Historic Preservation**



- Continue to complete Endangered and Threatened Species Biological Studies and Wetland Hydrological Studies to support construction planning, permitting, and the development of appropriate environmental mitigations
- Continue to consult with FEMA and COR3 on Project-Specific Programmatic Agreement (PSPA) measures specific to streetlight, telecommunications, substations, transmission, and distribution projects
- During the last 90-day period, LUMA completed the following:
  - Project Specific Programmatic Agreement was executed on June 2, 2022
  - Streamlined consultation process with FEMA relating to environmental studies, pre-construction, and construction disturbances <u>and</u> <u>vegetation clearing</u>
  - Continue to provide environmental training for A&E, construction contractors and LUMA operations crews in support of compliance with EHP requirements
  - Continue to review initial FEMA Record of Environmental Considerations (RECs) for approved projects to implement conditions into project scopes
  - Continue to support in pre-construction and construction inspections visits, aided with the implementation of mitigation measures required by FEMA EHP and other agencies to meet environmental conditions, and provided supporting documents for Class 3 estimate
  - o Develop EHP Closeout guideline
  - BeganContinued notifying and requesting endorsements from government agencies for projects obligated by FEMA (LUMA's Capital Programs and Permitting Office)

## **Engineering Management**

- Start preliminary engineering design on additional distribution line, substation, and transmission line projects working with new and existing A/E firms
- Continue with preliminary engineering design work with existing A/E firms towards the development of *Detailed SOWs*
- Continue detailed engineering on all projects with FEMA approved *Detailed SOWs*
- Continue to finalize contracts for additional A/E resources to support the federally funded projects and leverage the successful engineering firm(s) to assign projects with FEMA project numbers to begin A/E design work towards



the development of *Detailed SOWs*. These contracts are in various stages from agreeing to terms and conditions to FOMB approval

- Continue evaluating and prioritizing the existing projects with FEMA numbers against the needs and constraints of the electrical system and available contractor capacities to optimize and level the execution strategies
- Continue working the area plan analysis to identify contingency issues and provide a backup analysis to determine sectionalization and segmentation needs (e.g., installation of reclosers)
- During the last 90-day period, LUMA completed the following:
  - Finalized and executed 6 contracts for additional A/E resources to support the federally funded projects and leverage the successful engineering firm(s) to assign projects with FEMA project numbers to begin A/E design work
  - Assigned additional <u>distributionSubstation and Transmission Line</u> rebuild project engineering packages to engineering firms to finalize engineering scope, budget, and schedule and begin preliminary engineering design in October
  - Commenced process of incorporating NERC Compliance efforts for transmission system studies and analysis (e.g., TPL001 through 4, MOD 29 and CIP 14)
  - Completed the planning technical studies and functional specifications on 4222 transmission lines and 6 substations for long-term transmission reliability solutions
  - <u>Completed load interconnection reliability studies on 6 load</u> <u>interconnections</u>
  - <u>Completed line reliability recloser studies on twenty-two 38 kV</u> <u>transmission lines</u>
  - <u>Completed transmission line outage matrix studies on 15 transmission</u> <u>lines</u>
  - <u>Completed 2022 day-peak and night-peak power flow model</u> <u>development</u>
  - Completed planning and analysis on 7019 additional distribution feeders
  - Completed high-level assessment on 113 substations (29 of the 113 have completed functional specifications)
  - Issued Request for Proposal for the Energy Management System

Enterprise Project Management ("EPM")



<u>LUMA Focus Areas</u>

- Execute contract(s) for Program Management services to support the federally funded projects
- Continue to ramp-up project management resources, systems, and processes related to the execution of project within the infrastructure plan and continue to monitor resource needs as additional projects are launched
- Continue to track and monitor project schedules and costs within the EPM System leveraging the quality controls developed by LUMA

# **X.III.** LUMA Estimated Schedule for Submission of *Detailed SOWs*

Over the next 90-days, LUMA will be focused on preparing *Detailed SOW* and cost estimates for T&D projects that currently have both PREB approval and FEMA project numbers.

The tables below show the current set of projects, by asset category, along with the estimated timing for *Detailed SOWs* submittals to COR3 and FEMA.

The estimation of project submission timing noted below is based on the best information available to LUMA at the time of this plan update. LUMA is focused on meeting or exceeding the project submission estimates listed in the table below.

## **SUBSTATIONS**

| FEMA Prj.<br># | Project Name                                 | DSOW<br>Submission<br>Estimate                     | Construction<br>Start<br>Estimate      |
|----------------|--|--|--|
| 174422         | Catano Modernization & Hardening (Obligated) | Oct-2021<br>( <del>Completed<u>Complete</u>)</del> | <del>Dec-2022Apr-</del><br><u>2023</u> |
| 165209         | Culebra 3801 Substation (Obligated)          | Apr-2022<br>( <del>Completed<u>Complete</u>)</del> | <mark>Jan<u>Mar</u>-2023</mark>        |
| 165225         | Vieques 2501 Substation (Obligated)          | Apr-2022<br>( <del>Completed<u>Complete</u>)</del> | <mark>Jan<u>Mar</u>-2023</mark>        |
| 179558         | Manati TC BKR - T005 (Obligated)             | May-2022<br>( <del>Completed<u>Complete</u>)</del> | Nov- <u>20232022</u><br>(Completed)    |
| 165268         | Rio Grande Estates - CH – 2306               | May-2022<br>( <del>Completed<u>Complete</u>)</del> | FebMay-2024                            |
| 169495         | Tapia GIS 1102                               | May-2022<br>( <del>Completed<u>Complete</u>)</del> | Dec-2023Jun-<br>2024                   |



| FEMA Prj.<br># | Project Name                         | DSOW<br>Submission<br>Estimate                     | Construction<br>Start<br>Estimate              |
|----------------|--------------------------------------|--|--|
| 169058         | Llorens Torres 1106                  | May-2022<br>(CompletedComplete)                    | Dec-2023Oct-<br>2024                           |
| 169266         | Centro Medico 1327 & 1359            | May-2022<br>( <del>Completed</del> Complete)       | Jan-2024                                       |
| 169896         | Costa Sur TC (Obligated)             | Jun-2022<br>( <del>Completed<u>Complete</u>)</del> | Nov-2023Feb-<br>2024                           |
| 178258         | Taft 1105                            | Jun-2022<br>( <del>Completed</del> Complete)       | <del>Jul-2025<u>Mar-</u><br/><u>2026</u></del> |
| 169500         | Bayamon TC - BKRS Y1 - 1711          | Jul-2022<br>( <del>Completed</del> Complete)       | AugNov-2023                                    |
| 178503         | Aguirre TC -BKRS                     | Sep <u>Nov</u> -2022<br>(Complete)                 | SepNov-2023                                    |
| 178577         | Cachete 1526                         | Nov-2022Feb-2023                                   | AugNov-2023                                    |
| 169276         | Viaducto TC 1100                     | Nov-2022Feb-2023                                   | Oct-2023                                       |
| 546370         | Substation Minor Repairs-Group A     | Apr-2022<br>( <del>Completed</del> Complete)       | Feb <u>Mar</u> -2023                           |
| 542758         | Substation Minor Repairs-Group B     | Jul-2022<br>( <del>Completed</del> Complete)       | Apr-2023                                       |
| 546371         | Substation Minor Repairs-Group C     | Jun-2022<br>( <del>Completed</del> Complete)       | Jul-2023                                       |
| 549715         | Substation Minor Repairs-Group D     | Dec-2022Feb-2023                                   | Sep-2023                                       |
| 549725         | Substation Minor Repairs-Group E     | Dec-2022Feb-2023                                   | Sep-2023                                       |
| 550910         | Physical Security Group 1            | Apr-2022<br>( <del>Completed</del> Complete)       | Feb <u>Mar</u> -2023                           |
| 549764         | Physical Security Group 2            | Jul-2022<br>(CompletedComplete)                    | Apr-2023                                       |
| 551861         | Physical Security Group 3            | Jun-2022<br>(CompletedComplete)                    | May-2023                                       |
| 660422         | Physical Security Group 4            | Dec-2022Feb-2023                                   | Jun-2023                                       |
| <u>684920</u>  | Substations HV Equipment Replacement | <u>Feb-2023</u>                                    | <u>Mar-2023</u>                                |



## TRANSMISSION

| FEMA Prj. # | Project Name   | DSOW<br>Submission<br>Estimate     | Construction<br>Start<br>Estimate  |
|-------------|--|------------------------------------|------------------------------------|
| 168226      | 38000 - San Juan - Isla Grande (LOOP)                          | May-2022<br>(Complete)             | SepDec-2023                        |
| 176971      | 8200 - San Juan SP - Catano Sect                               | Jul-2022<br>(Complete)             | Apr <u>Sep</u> -2024               |
| 180052      | Existing 38kV - Line 100, Line 200 Ponce TC to Jobos TC        | Aug-2022<br>(Complete)             | Aug-2024                           |
| 180326      | Existing 115 kV - Line 36800 Palmer Fajardo to Sabana<br>Llana | Aug-2022<br>(Complete)             | Apr <u>Jun</u> -2024               |
| 166904      | 37800 - Caguas – Monacillo                                     | Aug-2022<br>(Complete)             | Apr-2024                           |
| 167443      | 36200 - Monacillos - Juncos                                    | Aug-2022<br>(Complete)             | MarJun-2027                        |
| 176913      | 9500 - Palo Seco SP - Cantano Sect                             | Aug-2022<br>(Complete)             | Jul-2024                           |
| 176954      | 1100 - Garzas 1 HP - Garzas 2 HP                               | Aug-2022<br>(Complete)             | MarJul-2024                        |
| 168483      | 36400 - Dos Bocas - Ponce                                      | Aug-2022<br>(Complete)             | Mar <u>May</u> -2025               |
| 166860      | 37800 - Jobos – Caguas   | Aug-2022<br>(Complete)             | Oct <u>Nov</u> -2025               |
| 167168      | 37100 - Costa Sur - Acacias                                    | Aug-2022<br>(Complete)             | Nov-2024                           |
| 177191      | 39000 - Aguas Buenas – Caguas                                  | Sep-2022<br>(Complete)             | Dec-2024                           |
| 165213      | Main Land 5400 - Rio Blanco HP - Daguao TC                     | SepNov-2022<br>(Complete)          | MayAug-2024                        |
| 167508      | 50100 - Cambalache - Manati                                    | Sep <u>Nov</u> -2022<br>(Complete) | Apr <u>Aug</u> -2027               |
| 166707      | 51300 - Ponce - Costa Sur                                      | Nov-2022<br>(Complete)             | Jul-2024                           |
| 177134      | 4100 - Guaraguo TC - Comerio TC                                | Nov-2022<br>(Complete)             | Apr-2024                           |
| 167446      | 36100 - Dos Bocas - Monacillos                                 | <del>Dec-2022Jan-</del><br>2023    | May-2023Oct-<br>2024               |
| 668669      | 230kV Transmission Priority Poles Replacements - Mora<br>50500 | Apr-2022<br>(Complete)             | Mar-2022Dec-<br>2021<br>(Complete) |



| FEMA Prj. # | Project Name  | DSOW<br>Submission<br>Estimate     | Construction<br>Start<br>Estimate |
|-------------|---|------------------------------------|-----------------------------------|
| 334468      | 38kV Transmission Priority Pole Replacement Line 2200<br>(Obligated)  | May-2022<br>(Complete)             | Dec-2022Feb-<br>2023              |
| 550896      | 38kV Transmission Priority Pole Replacement Line 6700<br>(Obligated)  | Jun-2022<br>(Complete)             | Nov-2022May-<br>2023              |
| 668583      | 38kV Transmission Priority Pole Replacement Line 13300<br>(Obligated) | Jun-2022<br>(Complete)             | Jan <u>Apr</u> -2023              |
| 668592      | 38kV Transmission Priority Pole Replacement Line 9800<br>(Obligated)  | Jul-2022<br>(Complete)             | Mar-2023                          |
| 681672      | 38kV Transmission Priority Pole Replacement Line 2300                 | Sep <u>Nov</u> -2022<br>(Complete) | May-2023                          |

## DISTRIBUTION

| FEMA Prj. # | Project Name  | DSOW<br>Submission<br>Estimate                          | Construction<br>Start<br>Estimate                            |
|-------------|---|---|--|
| 165226      | Vieques Feeders 2501-01, 2501-02, 2501-03 and<br>Culebra Feeders 3801-01, 3801-02 | OctDec-2022   | MayOct-2023  |
| 542690      | Streetlighting – Maunabo (Obligated)  | Feb-2022<br><del>(Completed</del><br><u>(Complete</u> ) | Jun-2022<br>(Started)  |
| 542688      | Streetlighting – Aguada (Obligated)   | Mar-2022<br>( <del>Completed</del> Complete)            | Jun-2022<br>(Started)  |
| 542756      | Streetlighting – Guanica (Obligated)  | Mar-2022<br>( <del>Completed</del> Complete)            | <mark>JulAug</mark> -2022<br>(Started)                       |
| 542687      | Streetlighting – Lajas (Obligated)  | Mar-2022<br>( <del>Completed</del> Complete)            | AugJul-2022<br>(Started)                                     |
| 542517      | Streetlighting – Luquillo (Obligated)   | Mar-2022<br>( <del>Completed</del> Complete)            | <del>Jul<u>Jun</u>-2022<br/>(Started)</del>                  |
| 660239      | Streetlighting- Villalba (Obligated)  | Jul-2022<br>( <del>Completed</del> Complete)            | SepOct-2022<br>(Started)                                     |
| 659715      | Streetlighting – Aibonito   | Jul-2022<br>( <del>Completed<u>Complete</u>)</del>      | <del>Jan-2023<u>Nov-</u><br/><u>2022</u><br/>(Started)</del> |
| 659623      | Streetlighting - Catano   | Jul-2022<br>( <del>Completed<u>Complete</u>)</del>      | Dec <u>Nov</u> -2022<br>(Started)                            |
| 659625      | Streetlighting- Dorado  | Aug-2022<br>( <del>Completed<u>Complete</u>)</del>      | Dec <u>Nov</u> -2022<br>(Started)                            |



| FEMA Prj. #                      | Project Name  | DSOW<br>Submission<br>Estimate                                     | Construction<br>Start<br>Estimate                 |
|----------------------------------|---|--|---|
| 660227                           | Streetlighting- Hatillo   | Aug-2022<br>( <del>Completed<u>Complete</u>)</del>                 | Oct <u>Nov</u> -2022<br>(Started)                 |
| 660437                           | Streetlighting- Manati  | Aug-2022<br>( <del>Completed<u>Complete</u>)</del>                 | Oct <u>Nov</u> -2022<br>(Started)                 |
| 673504                           | Streetlighting- Gurabo  | Dec-2022Feb-2023   | FebJun-2023                                       |
| 659968                           | Streetlighting- San German  | Nov-2022Feb-2023   | Mar <u>Jun</u> -2023                              |
| 666894                           | Streetlighting- San Juan  | <del>Nov-2022</del> Mar-2023                                       | Feb <u>Jul</u> -2023                              |
| <u>671502</u>                    | Streetlighting- Yabucoa   | <u>Mar-2023</u>  | <u>Aug-2023</u>                                   |
| <u>671400</u>                    | Streetlighting- Barceloneta   | <u>Mar-2023</u>  | <u>Aug-2023</u>                                   |
| <u>671396</u>                    | <u>Streetlighting- Utuado</u>   | <u>Mar-2023</u>  | <u>Aug-2023</u>                                   |
| <u>334323</u> 436616             | Distribution Pole and Conductor Repair-Arecibo Ponce<br>Group 1- <u>(Obligated)</u>                       | <del>Jul<u>Jan</u>-2022<br/>(Completed<u>Complete</u>)</del>       | Nov <u>Mar</u> -2022-<br>(Started)                |
| <u>334329</u>                    | Distribution Pole and Conductor Repair- Ponce Group 2<br>(Obligated)                                      | <u>Jan-2022</u><br>(Complete)                                      | Feb-2023  |
| 542762                           | Distribution Pole and Conductor Repair-Arecibo Group 2<br>(Obligated)                                     | Feb-2022<br>( <del>Completed</del> Complete)                       | Aug <u>Mar</u> -2022<br>(Completed<br>(Complete)  |
| <u>334488</u> 334473             | Distribution Pole and Conductor Repair-BayamonCaguas<br>Group 1 <u>4 (Obligated)</u>                      | <del>Jul<u>Feb</u>-2022<br/>(Completed<u>Complete</u>)</del>       | OctMay-2022<br>(Started)                          |
| <u>334527<mark>334474</mark></u> | Distribution Pole and Conductor Repair- <mark>BayamonCaguas</mark><br>Group <mark>28</mark> (Obligated)   | Jun <u>Feb</u> -2022<br>(CompletedComplete)                        | Oct <u>Sep</u> -2022-<br>(Completed<br>(Complete) |
| <del>334475<u>673839</u></del>   | Distribution Pole and Conductor Repair-Bayamon Group 3 <u>2 (Obligated)</u>                               | <del>Jul<u>Jun</u>-2022<br/>(Completed<u>Complete</u>)</del>       | Nov <u>Apr</u> -2022-<br>(Complete)               |
| <u>334420674092</u>              | Distribution Pole and Conductor Repair-Caguas Group<br>1 <u>5 (Obligated)</u>                             | <del>JulJun</del> -2022<br>( <del>Completed</del> Complete)        | Nov-2022<br><u>(Started)</u>                      |
| <u>334443674098</u>              | Distribution Pole and Conductor Repair-Caguas Group<br>2 <u>7</u> (Obligated)                             | <del>JulJun</del> -2022<br>( <del>Completed</del> Complete)        | SepDec-2022                                       |
| <del>334452<u>673847</u></del>   | Distribution Pole and Conductor Repair- <del>Caguas</del> Carolina<br>Group <u>32 (Obligated)</u>         | <del>Jul<u>J</u>un</del> -2022<br>( <del>Completed</del> Complete) | Nov <u>Mar</u> -2022-<br>( <u>Started)</u>        |
| <u>673848</u> 334488             | Distribution Pole and Conductor Repair- <del>Caguas<u>Carolina</u><br/>Group 4<u>3</u> (Obligated)-</del> | Feb <u>Jun</u> -2022<br>(CompletedComplete)                        | AugJan-2022-<br>(Started)                         |
| <del>334491<u>673774</u></del>   | Distribution Pole and Conductor Repair-<br>CaguasMayaguez Group 5 <u>1 (Obligated)</u>                    | Jun-2022<br>( <del>Completed</del> Complete)                       | Sep <u>Mar</u> -2022<br>(Started)                 |
| <del>334497<u>673795</u></del>   | Distribution Pole and Conductor Repair- <del>Caguas</del><br><u>Mayaguez</u> Group 6 <u>4 (Obligated)</u> | <del>JulJun</del> -2022<br>( <del>Completed<u>Complete</u>)</del>  | Aug-2022Mar-<br>2023                              |



| FEMA Prj. #                    | Project Name   | DSOW<br>Submission<br>Estimate                                    | Construction<br>Start<br>Estimate              |
|--------------------------------|--|---|--|
| <del>334518<u>673818</u></del> | Distribution Pole and Conductor Repair-Caguas San<br>Juan Group 71 (Obligated)                 | Jun-2022<br>( <del>Completed<u>Complete</u>)</del>                | Nov- <u>2022</u> - <u>2021</u><br>(Started)    |
| <u>673838</u> 334527           | Distribution Pole and Conductor Repair-Caguas <u>San</u><br>Juan Group 8 <u>2</u> (Obligated)  | Feb <u>Jun</u> -2022<br>(CompletedComplete)                       | Aug <u>Dec</u> -2022<br><del>(Completed)</del> |
| <del>334476<u>673771</u></del> | Distribution Pole and Conductor Repair-CarolinaArecibo<br>Group 2-1_(Obligated)                | <del>JunJul</del> -2022<br>( <del>Completed</del> Complete)       | Oct-2022 <u>Nov-</u><br>2021<br>(Started)      |
| <del>334477<u>673836</u></del> | Distribution Pole and Conductor Repair-<br>Carolina <u>Bayamon</u> Group <u>3 (Obligated)1</u> | JunJul-2022<br>( <del>Completed</del> Complete)                   | AugMar-2022-<br>(Started)                      |
| <del>334308<u>673843</u></del> | Distribution Pole and Conductor Repair-<br>MayaguezBayamon Group 4 <u>3</u> (Obligated)        | <del>Jun<u>Jul</u>-2022<br/>(Completed<u>Complete</u>)</del>      | SepDec-2022                                    |
| <del>334285<u>674072</u></del> | Distribution Pole and Conductor Repair-<br>MayaguezCaguas Group 2 <u>1 (Obligated)</u>         | Jul-2022<br>( <del>Completed<u>Complete</u>)</del>                | Oct <u>Nov</u> -2022-<br>(Started)             |
| <del>334191<u>674083</u></del> | Distribution Pole and Conductor Repair-<br>MayaguezCaguas Group 3-2 (Obligated)                | Jul-2022<br>( <del>Completed<u>Complete</u>)</del>                | AugDec-2022                                    |
| <del>334293<u>674088</u></del> | Distribution Pole and Conductor Repair-<br>MayaguezCaguas Group 4 <u>3</u> (Obligated)         | JunJul-2022<br>(CompletedComplete)                                | Sep-2022_Dec-<br>2021<br>(Started)             |
| <u>674096</u> 334323           | Distribution Pole and Conductor Repair- <u>PonceCaguas</u><br>Group <u>46</u> (Obligated)      | <del>Jan<u>Jul</u>-2022<br/>(Completed<u>Complete</u>)</del>      | SeptDec-2022                                   |
| <del>334329<u>673772</u></del> | Distribution Pole and Conductor Repair- PonceMayaguez<br>Group 2 (Obligated)                   | <del>JanJul</del> -2022<br>( <del>Completed<u>Complete</u>)</del> | Oct-2022Mar-<br>2023                           |
| <u>673775</u>                  | Distribution Pole and Conductor Repair- Mayaguez<br>Group 3                                    | <u>Jul-2022</u><br>(Complete)                                     | <u>Dec-2021</u><br>(Started)                   |
| <del>334471<u>673844</u></del> | Distribution Pole and Conductor Repair- San Juan Group   | <del>Jun<u>Jul</u>-2022<br/>(Completed<u>Complete</u>)</del>      | OctDec-2022                                    |
| <u>678985</u>                  | Distribution Pole and Conductor Repair - Bayamon<br>Group 4                                    | <u>Aug-2022</u><br>(Complete)                                     | <u>Jan-2023</u>                                |
| <del>334472<u>679025</u></del> | Distribution Pole and Conductor Repair San Juan<br>Group <del>2 (Obligated)<u>4</u></del>      | Jun <u>Aug</u> -2022<br>( <del>Completed</del> Complete)          | Oct-2022_Feb-<br>2023                          |
| <u>679033</u>                  | Distribution Pole and Conductor Repair - Caguas Group<br>9                                     | <u>Aug-2022</u><br>(Complete)                                     | <u>Jan-2023</u>                                |
| <u>679127</u>                  | Distribution Pole and Conductor Repair - Arecibo Group<br>3                                    | <u>Aug-2022</u><br>(Complete)                                     | Feb-2023                                       |
| <u>679149</u>                  | Distribution Pole and Conductor Repair - Mayaguez<br>Group 5                                   | <u>Aug-2022</u><br>(Complete)                                     | Feb-2023                                       |
| <u>679457</u>                  | Distribution Pole and Conductor Repair - Ponce Group 3   | <u>Aug-2022</u><br>(Complete)                                     | Feb-2023                                       |
| <u>678988</u>                  | Distribution Pole and Conductor Repair - Bayamon<br>Group 5                                    | <u>Sep-2022</u><br>(Complete)                                     | <u>Feb-2023</u>                                |



| FEMA Prj. #                    | Project Name  | DSOW<br>Submission<br>Estimate              | Construction<br>Start<br>Estimate                |
|--------------------------------|---|---|--|
| <del>546374<u>679026</u></del> | Distribution Pole and Conductor Repair San Juan<br>Group <del>3</del> -<br><del>(Obligated)<u>5</u></del> | Jul <u>Sep</u> -2022<br>(CompletedComplete) | <del>Oct-2022</del> _ <u>Jan-</u><br><u>2023</u> |
| <u>679133</u>                  | Distribution Pole and Conductor Repair - Arecibo Group 4  | <u>Sep-2022</u><br>(Complete)               | Feb-2023   |
| <u>679134</u>                  | Distribution Pole and Conductor Repair - Caguas Group <u>10</u>   | <u>Sep-2022</u><br>(Complete)               | <u>Jan-2023</u>                                  |
| <u>679153</u>                  | Distribution Pole and Conductor Repair - Mayaguez<br>Group 6  | <u>Sep-2022</u><br>(Complete)               | Feb-2023   |
| <u>679458</u>                  | Distribution Pole and Conductor Repair - Ponce Group 4  | <u>Sep-2022</u><br>(Complete)               | <u>Jan-2023</u>                                  |
| <del>TBD<u>685477</u></del>    | Distribution Pole and Conductor Repair - Arecibo Group<br>6   | Oct <u>Nov</u> -2022<br>(Complete)          | JanApr-2023                                      |
| TBD682910                      | Distribution Pole and Conductor Repair - Bayamon<br>Group 7   | Oct <u>Nov</u> -2022<br>(Complete)          | Jan <u>Apr</u> -2023                             |
| TBD <u>682890</u>              | Distribution Pole and Conductor Repair - Caguas Group 12  | Oct <u>Nov</u> -2022<br>(Complete)          | Jan <u>Apr</u> -2023_                            |
| <del>TBD<u>685370</u></del>    | Distribution Pole and Conductor Repair - Mayaguez<br>Group 8  | Oct <u>Nov</u> -2022<br>(Complete)          | Jan <u>Mar</u> -2023                             |
| <del>TBD<u>685263</u></del>    | Distribution Pole and Conductor Repair - Ponce Group 6  | Oct <u>Nov</u> -2022<br>(Complete)          | JanApr-2023                                      |
| TBD <u>682865</u>              | Distribution Pole and Conductor Repair - San Juan<br>Group 7  | Oct <u>Nov</u> -2022<br>(Complete)          | Jan <u>May</u> -2023                             |
| <u>682135</u>                  | Distribution Pole and Conductor Repair - Bayamon<br>Group 8   | <u>Nov-2022</u><br>(Complete)               | <u>May-2023</u>                                  |
| <u>682324</u>                  | Distribution Pole and Conductor Repair - Caguas Group<br>13   | <u>Nov-2022</u><br>(Complete)               | <u>May-2023</u>                                  |
| <u>682870</u>                  | Distribution Pole and Conductor Repair - San Juan<br>Group 6  | <u>Nov-2022</u><br>(Complete)               | <u>Apr-2023</u>                                  |
| <u>682882</u>                  | Distribution Pole and Conductor Repair - Caguas Group<br>11   | <u>Nov-2022</u><br>(Complete)               | <u>Apr-2023</u>                                  |
| <u>682898</u>                  | Distribution Pole and Conductor Repair - Bayamon<br>Group 6   | <u>Nov-2022</u><br>(Complete)               | <u>Apr-2023</u>                                  |
| <u>685943</u>                  | Distribution Pole and Conductor Repair - Ponce Group 5  | <u>Nov-2022</u><br>(Complete)               | <u>Apr-2023</u>                                  |
| <u>686453</u>                  | Distribution Pole and Conductor Repair - Mayaguez<br>Group 7  | <u>Nov-2022</u><br>(Complete)               | <u>Mar-2023</u>                                  |
| <u>686471</u>                  | Distribution Pole and Conductor Repair - Arecibo Group 5  | <u>Nov-2022</u><br>(Complete)               | <u>Apr-2023</u>                                  |



| FEMA Prj. #                      | Project Name  | DSOW<br>Submission<br>Estimate | Construction<br>Start<br>Estimate |
|----------------------------------|---|--------------------------------|-----------------------------------|
| <u>682121682178</u>              | Distribution Pole and Conductor Repair - Arecibo Group<br>7           | OctDec-2022<br>(Complete)      | Jan <u>May</u> -2023              |
| <u>682210</u>                    | Distribution Pole and Conductor Repair - Mayaguez<br>Group 9          | <u>Dec-2022</u>                | <u>May-2023</u>                   |
| <u>686480</u>                    | Distribution Pole and Conductor Repair - Ponce Group 7                | <u>Dec-2022</u><br>(Complete)  | <u>May-2023</u>                   |
| <u>682028</u>                    | Distribution Pole and Conductor Repair - San Juan<br>Group 8          | <u>Dec-2022</u><br>(Complete)  | <u>May-2023</u>                   |
| <u>682172</u>                    | Distribution Pole and Conductor Repair - Arecibo Group<br>8           | <u>Dec-2022</u>                | <u>May-2023</u>                   |
| <u>682136<mark>682135</mark></u> | Distribution Pole and Conductor Repair - Bayamon<br>Group 89          | OctDec-2022                    | Jan <u>May</u> -2023              |
| <del>TBD<u>682373</u></del>      | Distribution Pole and Conductor Repair - Caguas Group<br>43 <u>14</u> | OctDec-2022<br>(Complete)      | Jan <u>May</u> -2023              |
| <del>TBD<u>682180</u></del>      | Distribution Pole and Conductor Repair - Mayaguez<br>Group <u>910</u> | OctDec-2022<br>(Complete)      | Jan <u>May</u> -2023              |
| <u>682228</u>                    | Distribution Pole and Conductor Repair - Ponce Group 8                | Dec-2022                       | <u>May-2023</u>                   |
| <u>682031</u>                    | Distribution Pole and Conductor Repair - San Juan<br>Group 9          | Dec-2022                       | <u>May-2023</u>                   |
| <u>688627</u>                    | Distribution Pole and Conductor Repair - Arecibo Group                | <u>Dec-2022</u>                | <u>May-2023</u>                   |
| <u>688096</u>                    | Distribution Pole and Conductor Repair - Caguas Group<br>15           | <u>Dec-2022</u>                | <u>May-2023</u>                   |
| <u>688472</u>                    | Distribution Pole and Conductor Repair - Mayaguez<br>Group 11         | <u>Dec-2022</u>                | <u>May-2023</u>                   |
| <u>688774</u>                    | Distribution Pole and Conductor Repair - Ponce Group 9                | <u>Dec-2022</u>                | <u>Jun-2023</u>                   |
| <u>691246</u>                    | Distribution Pole and Conductor Repair - San Juan<br>Group 10         | <u>Dec-2022</u>                | <u>Jun-2023</u>                   |
| <u>688109</u>                    | Distribution Pole and Conductor Repair - San Juan<br>Group 11         | <u>Dec-2022</u>                | <u>Jun-2023</u>                   |
| <u>688198</u>                    | Distribution Pole and Conductor Repair - Arecibo Group<br>10          | <u>Dec-2022</u>                | <u>Jun-2023</u>                   |
| <u>688625</u>                    | Distribution Pole and Conductor Repair - Ponce Group<br>10            | <u>Dec-2022</u>                | <u>Jun-2023</u>                   |
| <u>688629</u>                    | Distribution Pole and Conductor Repair - Mayaguez<br>Group 13         | <u>Dec-2022</u>                | <u>Jun-2023</u>                   |
| <u>688630</u>                    | Distribution Pole and Conductor Repair - Mayaguez<br>Group 12         | <u>Dec-2022</u>                | <u>May-2023</u>                   |



| FEMA Prj. #       | Project Name   | DSOW<br>Submission<br>Estimate      | Construction<br>Start<br>Estimate |
|-------------------|--|-------------------------------------|-----------------------------------|
| <u>689071</u>     | Distribution Pole and Conductor Repair - Arecibo Group <u>11</u>                   | Dec-2022                            | <u>Jun-2023</u>                   |
| TBD               | Distribution Pole and Conductor Repair - San Juan<br>Group 12                      | <u>Dec-2022</u>                     | <u>Jun-2023</u>                   |
| <u>TBD</u>        | Distribution Pole and Conductor Repair - Ponce Group <u>11</u>                     | <u>Dec-2022</u>                     | <u>Jun-2023</u>                   |
| TBD               | Distribution Pole and Conductor Repair - Ponce Group<br>7 <u>13</u>                | <del>Oct-2022Jan-2023</del>         | <del>Jan<u>Jul</u>-2023</del>     |
| 682028TBD         | Distribution Pole and Conductor Repair - <u>San JuanPonce</u><br>Group 8 <u>12</u> | <del>Oct-2022Jan-2023</del>         | <del>Jan<u>Jul</u>-2023</del>     |
| TBD               | Distribution Pole and Conductor Repair - Mayaguez<br>Group 14                      | <u>Jan-2023</u>                     | <u>Jul-2023</u>                   |
| TBD               | Distribution Pole and Conductor Repair - Arecibo Group<br>8 <u>12</u>              | <del>Nov-2022</del> Jan-2023        | FebJul-2023-                      |
| TBD               | Distribution Pole and Conductor Repair - Arecibo Group<br>13                       | <u>Feb-2023</u>                     | Aug-2022                          |
| TBD682136         | Distribution Pole and Conductor Repair - Bayamon<br>Group <u>910</u>               | Nov-2022Feb-2023                    | FebAug-2023                       |
| TBD               | Distribution Pole and Conductor Repair - Caguas Group<br>14 <u>16</u>              | Nov-2022Feb-2023                    | FebAug-2023                       |
| TBD               | Distribution Pole and Conductor Repair - Mayaguez<br>Group <del>10<u>15</u></del>  | Nov-2022Feb-2023                    | FebAug-2023                       |
| TBD               | Distribution Pole and Conductor Repair - Ponce Group<br>8 <u>14</u>                | Nov-2022Feb-2023                    | FebAug-2023                       |
| 682031 <u>TBD</u> | Distribution Pole and Conductor Repair - San Juan<br>Group <u>913</u>              | Nov-2022Feb-2023                    | FebAug-2023                       |
| TBD               | Distribution Pole and Conductor Repair - Arecibo Group<br>14                       | <u>Feb-2023</u>                     | Aug-2023                          |
| TBD               | Distribution Pole and Conductor Repair - Bayamon<br>Group 11                       | Feb-2023                            | Aug-2023                          |
| TBD               | Distribution Pole and Conductor Repair - Caguas Group<br>17                        | Feb-2023                            | Aug-2023                          |
| TBD               | Distribution Pole and Conductor Repair - Arecibo Group<br>9 <u>15</u>              | <u>Mar-2023</u> Dec-2022            | Mar <u>Sep</u> -2023-             |
| TBD               | Distribution Pole and Conductor Repair - Bayamon<br>Group 12                       | <u>Mar-2023</u>                     | <u>Sep-2023</u>                   |
| TBD               | Distribution Pole and Conductor Repair - Caguas Group<br>15 <u>18</u>              | <u>Mar-2023</u> <del>Dec-2022</del> | Mar <u>Sep</u> -2023              |
| TBD               | Distribution Pole and Conductor Repair - Mayaguez<br>Group <u>4416</u>             | <u>Mar-2023</u> Dec-2022            | Mar <u>Sep</u> -2023              |



| FEMA Prj. #       | Project Name  | DSOW<br>Submission<br>Estimate      | Construction<br>Start<br>Estimate |
|-------------------|---|-------------------------------------|-----------------------------------|
| TBD               | Distribution Pole and Conductor Repair -<br>Ponce <u>Mayaguez</u> Group 9 <u>17</u>           | <u>Mar-2023</u> Dec-2022            | Mar <u>Sep</u> -2023              |
| TBD               | Distribution Pole and Conductor Repair - <u>San JuanPonce</u><br>Group <del>10<u>15</u></del> | <u>Mar-2023</u> <del>Dec-2022</del> | Mar <u>Sep</u> -2023-             |
| TBD               | Distribution Pole and Conductor Repair - Ponce Group<br>16                                    | <u>Mar-2023</u>                     | <u>Sep-2023</u>                   |
| TBD               | Distribution Pole and Conductor Repair - San Juan<br>Group 14                                 | <u>Mar-2023</u>                     | <u>Sep-2023</u>                   |
| TBD               | Distribution Pole and Conductor Repair - San Juan<br>Group 15                                 | <u>Mar-2023</u>                     | <u>Sep-2023</u>                   |
| TBD               | Distribution Pole and Conductor Repair - Arecibo Group<br>16                                  | <u>Mar-2023</u>                     | <u>Sep-2023</u>                   |
| TBD               | Distribution Pole and Conductor Repair - Bayamon<br>Group 14                                  | <u>Mar-2023</u>                     | <u>Sep-2023</u>                   |
| TBD               | Distribution Pole and Conductor Repair - San Juan<br>Group 16                                 | <u>Mar-2023</u>                     | <u>Sep-2023</u>                   |
| TBD <u>688623</u> | Transmission and Distribution Automation Program –<br>Group 1                                 | Nov-2022Jan-2023                    | Jan-2022<br><u>(Started)</u>      |

# **IT & TELECOM**

| FEMA Prj.<br># | Project Name  | DSOW<br>Submission<br>Estimate                     | Construction<br>Start<br>Estimate |
|----------------|---|--|-----------------------------------|
| 657300         | Energy Management System (EMS) (Obligated)  | Jul-2022<br>( <del>Completed<u>Complete</u>)</del> | Oct-2023                          |
| <u>551925</u>  | SCADA Remote Access and RTU Replacements - Group <u>1</u>                             | <u>Jul-2022</u><br>(Complete)                      | <u>Mar-2023</u>                   |
| 675345         | IT OT Technology Systems Reparations  | <u>Mar-2023</u> <del>Dec-2022</del>                | Jun-2023                          |
| <u>662238</u>  | Microwave Point to Point Backbone – Group A<br>(Microwave Network Upgrades – Group A) | <u>Jan-2023</u>                                    | <u>Oct-2023</u>                   |
| <u>551926</u>  | SCADA Remote Access and RTU Replacements - Group<br>2                                 | <u>Mar-2023</u>                                    | <u>Aug-2023</u>                   |
| <u>551927</u>  | SCADA Remote Access and RTU Replacements - Group<br>3                                 | <u>Mar-2023</u>                                    | <u>Aug-2023</u>                   |



## BUILDINGS

| FEMA Prj. # | Project Name                 | DSOW<br>Submission<br>Estimate     | Construction<br>Start<br>Estimate       |
|-------------|------------------------------|------------------------------------|---|
| 679006      | Test ∧ Technology Laboratory | Oct <u>Nov</u> -2022<br>(Complete) | <del>Dec-2023<u>Jul-</u><br/>2024</del> |