

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

NEPR

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IN RE:

IN RE: REVIEW OF THE PUERTO RICO
ELECTRIC POWER AUTHORITY'S 10-
YEAR INFRASTRUCTURE PLAN-
DECEMBER 2020

CASE NO. NEPR-MI-2021-0002

SUBJECT: Submittal of LUMA's September 2023
Update to PREPA-LUMA 90-Day Plan for T&D
Projects

**MOTION SUBMITTING LUMA'S SEPTEMBER 2023 UPDATE TO
PREPA-LUMA 90-DAY PLAN FOR T&D PROJECTS**

TO THE PUERTO RICO ENERGY BUREAU:

COME NOW LUMA Energy, LLC ("ManagementCo")¹, and **LUMA Energy ServCo, LLC** ("ServCo")², (jointly referred to as "LUMA"), through the undersigned legal counsel and respectfully submits 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, 2021,³ and in accordance with LUMA's Motion of July 15, 2021,⁴ and PREPA's and LUMA's Motion of September 21, 2021⁵, LUMA hereby submits, as *Exhibit 1* to this Motion, LUMA's September 2023 update to

¹ Register No. 439372.

² Register No. 439373.

³ In this Resolution and Order ("March 26th 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 26th Resolution on page 19.

⁴ 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 15th 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 15th Motion on pages 8-9.

⁵ 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.

the PREPA-LUMA 90-Day Plan pertaining to the transmission and distribution system projects (“T&D Projects”) updating the status of T&D Projects and providing a summary of key next steps for the upcoming 90 days (“September 2023 Update to PREPA-LUMA 90-Day Plan”). 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 June 20, 2023 (*see Exhibit 1 of Motion Submitting June 2023 Update to PREPA-LUMA 90-Day Plan for T&D Projects* filed by LUMA on that date) with the September 2023 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 September 2023 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 14th day of September 2023.

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 attorney for PREPA, Joannely Marrero-Cruz, jmarrero@diazvaz.law.



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Exhibit 1

September 2023 T&D 90-Day Plan

Exhibit 2

Redline showing changes from the June 2023 Update to PREPA-LUMA 90-Day Plan for T&D Projects to the September 2023 Update to PREPA-LUMA 90-Day Plan for T&D Projects



FEMA



90-Day Plan

September 2023



September 2023

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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 electric transmission and distribution grid.

On June 1, 2021, LUMA assumed overall responsibilities for the Puerto Rico Electric Power Authority's (PREPA) Transmission and Distribution (T&D) System as outlined within the Operations and Maintenance 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 other 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 five areas:

1. PREPA-LUMA Coordination and Alignment
2. Federal Grant Management
3. Funding and Reporting
4. Environmental and Historic Preservation
5. Engineering Management

1. PREPA-LUMA Coordination and Alignment

PREPA and LUMA goals for the next 90 days:

- PREPA and LUMA leadership will participate in regular weekly meetings with the Central Office for Recovery, Reconstruction, and Resiliency (COR3) & FEMA to ensure visibility of progress of project progress, the coordination and understanding of common matters, and to identify and resolve risks that involve points of integration between the two entities.
- LUMA will continue to coordinate with PREPA to support successful operations under the T&D OMA.
- LUMA and PREPA will continue to collaborate on the Vieques and Culebra Microgrid Project. LUMA is assuming project lead responsibilities and coordinating the project hand-offs for design, construction, and post-production phases for the appropriate operational jurisdictions. LUMA is

engaged with COR3 and P3A to identify and collaborate on project construction and operational jurisdiction challenges related to the O&M Agreement between LUMA and PREPA.

- LUMA continues to collaborate directly with PREPA and Genera at the leadership, working group, and project levels as Genera assumes their role as Generation Operator. This transition will evolve over the next 90 days.

2. Federal Grant Management

LUMA goals for the next 90 days:

- LUMA will continue working with COR3 and FEMA to obtain project obligations for the 106 detailed statements of work (DSOWs) submitted to date that have yet to be obligated.
- LUMA will continue advancing work on Section 428 projects with the goal of finalizing DSOWs for submission to COR3 and FEMA. This effort includes Sections 404 and 406 of the Hazard Mitigation Grant Program (HMGP) and Environmental and Historic Preservation (EHP) work. LUMA expects to submit additional DSOWs within the next 90-day period as per target schedule below.
- LUMA will continue refining Section 406 Hazard Mitigation Grant Program strategies for all asset classes including distribution, transmission, substation, and IT/OT. LUMA will continue to conduct discussions with COR3 and FEMA for feedback and alignment.
- LUMA will continue providing the reconciliation costs to support submissions for project formulation.

During the last 90-day period, LUMA completed the following:

- Submitted 71 DSOWs to FEMA for approval, representing \$4.6 billion in capital investments.
- Received an amended obligation for an additional \$600 million to support Architecture and Engineering (A&E) resources.
- Obtained FEMA authorization and project obligations on six DSOWs representing \$99.6 million in capital investments.

3. Funding and Reporting

LUMA goals for the next 90 days:

- LUMA will continue to track project actual costs in accordance with FEMA, HUD, and COR3 standards to support financial reporting requirements for federally funded projects.

- LUMA will continue executing self-performing work (see section IV in this plan).

During the last 90-day period, LUMA completed the following:

- LUMA submitted \$81 million in requests for reimbursements (RFRs) to COR3 to date. Another \$26 million is expected to be submitted during the next 90-day period.
- LUMA continued the implementation of a time reporting and technology project to automate RFR process related to federally funded projects. The goal is to accelerate submissions to COR3 while ensuring federal compliance.
- LUMA incorporated additional best practices from RFRs submitted to date. They have aided in prioritizing projects, optimizing preparation time, and improving the overall quality of documentation for RFR submissions moving forward. Best practices include task standardization for A&E and Category Z, data integrity validity automation, metrics for requests for information, and RFI mitigating measures.
- LUMA engaged with our grid recovery partners on additional federal funding opportunities to include:
 - U.S. Department of Energy electrical system improvement grants
 - Puerto Rico Department of Housing's Community Development Block Grant – Disaster Recovery (PRDOH CDBG-DR) Program for hazard mitigation via the U.S. Department of Housing and Urban Development (HUD)

4. Environmental and Historic Preservation

LUMA goals for the next 90 days:

- LUMA will continue with FEMA meetings and consultations.
- LUMA will outline an environmental compliance strategy for vegetation clearance in accordance with the U.S. Fish and Wildlife Service.
- LUMA will review the following health, safety, and environmental policies: asbestos (0724); spill response (0310); waste management (0315); and acquisition and divestiture environmental requirements for alignment with EHP process (0330).
- LUMA will continue with the development of process for work in areas that require managing lead containing materials.
- LUMA will outline environmental compliance strategy for effective EHP process for engineering, procurement, and construction (EPC) projects.

- To the extent possible, LUMA will expedite the process with the Instituto de Cultura Puertorriqueña (ICP) to complete the required archaeological studies for transmission lines.
- LUMA will complete installation of containers to store used transformers in the technical offices of Bayamon, Guayama, Caguas, and Aguadilla in compliance with the Clean Water Act (CWA) and the spill prevention program.
- LUMA will begin the underground injection control compliance plan with Capital Programs and substations.

During the last 90-day period, LUMA completed the following:

- LUMA continued to review initial FEMA Record of Environmental Considerations (RECs) for approved projects for integration into project scopes.
- LUMA continued to support preconstruction and construction inspection visits, along with implementing mitigation measures required by FEMA EHP and other agencies to meet environmental conditions. We also provided supporting documents for a class-three estimate.
- LUMA continued notifying and requesting endorsements from government agencies for projects obligated by FEMA.
- LUMA developed a template for underground injection control system closures.
- LUMA implemented the first phase of the corporate recycling program.
- LUMA reviewed these health, safety, and environmental policies: vegetation management (0320); wildlife, avian, and historical resources protection (0335); working near waterbodies (0325); and stormwater and erosion control (0340).

5. Engineering Management

LUMA goals for next 90 days:

- LUMA will continue preliminary engineering design work with existing A&E firms towards the development of DSOWs.
- LUMA will continue engineering and construction on all projects with FEMA-approved DSOWs.
- LUMA will submit DSOWs for critical projects including vegetation clearing, transmission lines, and distribution feeder rebuild projects.

- We will award contract(s) under planning studies RFP for engineering studies including area planning, distribution automation, distribution evaluations and studies, substation analysis and others.
- LUMA will continue to evaluate and prioritize existing FEMA projects against the needs and constraints of the electrical system and available contractor capacities to optimize the execution strategies.
- LUMA will continue work on the area plan analysis to identify contingency issues and provide backup analysis to determine sectionalization and segmentation needs (e.g., installation of distribution automation) to enhance reliability.
- LUMA is working on improving system models and performing distribution feeder verification. This will ensure proper analysis can be performed based on accurate field data. The models will include, but are not limited to, conductor sizes, transformer sizes, checking for connectivity, locating missing meters, tie points, distribution automation devices, regulators, and capacitor banks.
- LUMA is reviewing the 38 kV transmission lines and performing area plans to improve reliability. The work includes mitigation for N-1 contingency violations and ensuring that customers will have load transfer capability. This work will occur during the next 90 days but will not be completed during that period.

During the last 90-day period, LUMA completed the following:

- LUMA completed the planning technical studies and functional specifications on five transmission lines and four substations for long-term transmission reliability solutions.
- LUMA conducted preliminary engineering, including system planning review, standards review, and the development of preliminary design packages and class 3 estimates, to support the submission of 71 DSOWs representing \$4.6 billion dollars of work.

III. LUMA Estimated Schedule for DSOW Submission

Over the next 90 days, LUMA will be focused on preparing DSOWs and cost estimates for T&D projects. The tables below show the existing set of projects, by asset category, along with the estimated timing for DSOWs 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.

Note: Self-performed work includes work performed by Luma internal labor and Quanta contractors. Self-performed work is designated as contracted work (CW), mostly contracted work (MCW), or mostly self-performed work (MSPW).

- **Mostly contracted work (MCW)** = more than 65% of the work is procured/contracted (excluding management and oversight).
- **Mostly self-performed work (MSPW)** = more than 65% of the work is performed by LUMA (excluding management and oversight).
- **A mixture of contracted work and LUMA self-performed work (CW/SPW)** = between 50/50% and 65/35% (excluding management and oversight).

Substations

*Construction start dates assume timely FEMA obligation of the relevant DSOWs and approval of the underlying contracts by the Financial Oversight and Management Board and P3A, if required. LUMA will be ready to proceed with construction or as soon thereafter as necessary supplies are available.

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
165225	Vieques (Phase II)	Feb-23 (Completed)	Dec-24	MCW	Pending Obligation
165209	Culebra (Phase II)	Feb-23 (Completed)	Dec-24	MCW	Pending Obligation
682834	Costa Sur-TC (Phases II and III)	Mar-23 (Completed)	Dec-24	MCW	Pending Obligation
169276	Viaducto TC 1100	Mar-23 (Completed)	Apr-24	MCW	Pending Obligation
723077	Sabana Llana TC	May-23 (Completed)	Dec-24	CW/SPW	Pending Obligation
682121	Aguirre TC (Phase II)	May-23 (Completed)	Dec-24	MCW	Pending Obligation
723002	Jobos TC	May-23 (Completed)	Dec-24	MCW	Pending Obligation
723078	San Juan SP TC	May-23 (Completed)	Dec-24	MCW	Pending Obligation
550950	Monacillos	May-23 (Completed)	Dec-24	MCW	Pending Obligation
660422	Physical Security Group 4	Jun-23 (Completed)	Jun-24	MCW	Pending Obligation
549715	Substation Minor Repairs (Group D)	Jun-23 (Completed)	Sep-24	MCW	Pending Obligation
549725	Substation Minor Repairs (Group E)	Jun-23 (Completed)	Aug-24	MCW	Pending Obligation
684920	Substations HV Equipment Replacement (Group 1)	Jun-23 (Completed)	Apr-23	MSPW	Pending Obligation
550980	Parques y Recreos	Jun-23 (Completed)	Jan-25	MCW	Pending Obligation

Substations (continued)

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
547243	Egozcue	Jun-23 (Completed)	May-25	MCW	Pending Obligation
550099	Esc. Industrial Miguel Such 1423	Jun-23 (Completed)	Feb-25	MCW	Pending Obligation
547241	Tallaboa 5402	Jun-23 (Completed)	Dec-25	MCW	Pending Obligation
551912	Puerto Nuevo Metalclad 1520	Jun-23 (Completed)	Sept-25	MCW	Pending Obligation
550986	Condado 1113	Jun-23 (Completed)	Mar-25	MCW	Pending Obligation
551918	Crematorio 1512	Jun-23 (Completed)	Dec-25	MCW	Pending Obligation
550106	Conquistador - CH	Jun-23 (Completed)	Mar-23	CW/SPW	Pending Obligation
550162	Berwind TC- Metalclad - 1336	Sep-23	Jan-25	MCW	TBD
551260	Guaynabo Pueblo Rebuild	Sep-23	Jul-25	MCW	TBD
547344	Acacias TC Relocation	Sep-23	Jul-25	MCW	TBD
550894	Baldrich 1422	Sep-23	May-25	MCW	TBD
178577	Cachete 1526	Sep-23	Mar-25	MCW	TBD
551914	Caparra 1911 & 1924	Sep-23	Mar-26	MCW	TBD
547187	Arecibo Pueblo 8002 Relocation	Sep-23	Apr-25	MCW	TBD
547273	Charco Hondo 8008 Relocation	Sep-23	Feb-26	MCW	TBD

Substations (continued)

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
729286	Substations HV Equipment Replacement Group 2	Sep-23	Nov-23	MSPW	TBD
550498	Pampanos Relocation	Oct-23	May-26	MCW	TBD
682645	Substation Minor Repairs (Group F)	Oct-23	Apr-24	MCW	TBD
685869	Substation Minor Repairs (Group G)	Oct-23	Apr-24	MCW	TBD
TBD	Venezuela	Oct-23	Jun-23	CW/SPW	TBD
682328	Bayamon TC	Oct-23	Nov-24	MCW	TBD
668669	Mayaguez TC	Nov-23	Aug-25	MCW	TBD
TBD	Substations HV Equipment Replacement (Group 3)	Nov-23	Jan-25	MCW	TBD
547247	Cambalache TC	Dec-23	Sep-25	MCW	TBD
547343	Victoria TC	Dec-23	Sept-25	MCW	TBD

Transmission

*Construction start dates assume timely FEMA obligation of the relevant DSOWs and approval of the underlying contracts by the Financial Oversight and Management Board and P3A, if required. LUMA will be ready to proceed with construction or as soon thereafter as necessary supplies are available.

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
168226	San Juan 115kV Underground Transmission Loop	Mar-22 (Completed)	Oct-24	MCW	\$13,271,435.
334468	Transmission Priority Pole Replacements – Line 2200	Apr-22 (Completed)	Aug-23	MSPW	\$1,460,279
668592	Transmission Priority Pole Replacement - Line 9800 Bayamón TC - Guaraguo Sect	Jun-22 (Completed)	Dec-23	MCW	\$378,779.
550896	Transmission Priority Pole Replacements – Line 6700	Jun-22 (Completed)	Jun-23	MSPW	\$824,119
668583	Transmission Priority Pole Replacements – Line 13300	Jun-22 (Completed)	Oct-23	MSPW	\$535,593
681672	Transmission Priority Pole Replacements – 38kV Line 2300	Nov-22 (Completed)	Feb-24	MSPW	\$242,542
176971	8200 - San Juan SP - Cataño Sect	Jun-23 (Completed)	Dec-24	MCW	Pending Obligation
180052	Existing 38kV - Line 100, Line 200 Ponce TC to Jobos TC	Jun-23 (Completed)	Sept-25	MCW	Pending Obligation
180326	Existing 115 kV - Line 36800 Palmer Fajardo o Sabana Llana	Jun-23 (Completed)	Oct-24	MCW	Pending Obligation
166904	37800 - Caguas – Monacillo	Jun-23 (Completed)	Sep-24	MCW	Pending Obligation
167443	36200 - Monacillos - Juncos	Jun 23 (Completed)	Oct-25	MCW	Pending Obligation
176913	9500 - Palo Seco SP - Cantaño Sect	Jun-23 (Completed)	Aug-24	MCW	Pending Obligation
176954	1100 - Garzas 1 HP - Garzas 2 HP	Jun-23 (Completed)	Jul-25	MCW	Pending Obligation

Transmission (continued)

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
168483	36400 - Dos Bocas - Ponce	Jun-23 (Completed)	Jun-24	MCW	Pending Obligation
166860	37800 - Jobos – Caguas	Jun-23 (Completed)	Oct-25	MCW	Pending Obligation
167168	37100 - Costa Sur - Acacias	Jun-23 (Completed)	Jan-25	MCW	Pending Obligation
177191	39000 - Aguas Buenas – Caguas	Jun-23 (Completed)	Dec-24	MCW	Pending Obligation
165213	Mainland 5400 - Rio Blanco HP - Dagua TC	Jun-23 (Completed)	Jul-25	MCW	Pending Obligation
167508	50100 - Cambalache - Manati	Jun-23 (Completed)	Dec-25	MCW	Pending Obligation
166707	51300 - Ponce - Costa Sur	Jun-23 (Completed)	Oct-24	MCW	Pending Obligation
177134	4100 - Guaraguo TC - Comerio TC	Jun-23 (Completed)	Nov-25	MCW	Pending Obligation
167446	36100 - Dos Bocas – Monacillos	Jun-23 (Completed)	March-23 (Started)	MCW	Pending Obligation
548598	36200 - Fajardo to Rio Blanco (Evaluating for relocation)	Jun-23 (Completed)	May-26	MCW	Pending Obligation
547259	2700 - Victoria TC to Quebradillas Sect	Jun-23 (Completed)	Jun-25	MCW	Pending Obligation
547269	2800 - Aguadilla Hospital Distrito Sect to T-Bone TO	Jun-23 (Completed)	Apr-25	MCW	Pending Obligation
718955	TL-50200 - Costa Sur SP to Bayamon TC	Aug-23 (Completed)	Apr-24	MCW	Pending Obligation
718971	TL-50300 - Costa Sur SP to Aguirre SP	Aug-23 (Completed)	Apr-24	MCW	Pending Obligation

Transmission (continued)

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
718951	TL-51200- Costa Sur to Cambalache	Aug-23 (Completed)	Apr-24	MCW	Pending Obligation
550019	600 - Caguas TC to Gautier Benitez Sect	Sep-23	Feb-25	MCW	TBD
334470	3100 - Monacillo TC to Dagao TC	Nov-23	Sep-26	MCW	TBD
711909	100 - Jobos TC - Guayama TO	Nov-23	Jan-24	CW/SPW	TBD
711670	100 - Salinas Sect - Jobos TC	Nov-23	Feb-24	CW/SPW	TBD
712980	3000 - Caguax Sect - Juncos TC	Nov-23	Jan-24	CW/SPW	TBD
435257	3000 - Monacillos TC - Bairoa TO	Nov-23	Mar-24	CW/SPW	TBD
712977	3000 - Caguas TC - Caguax Sect	Nov-23	Jan-24	CW/SPW	TBD
708637	3700 - Maunabo TC - Humacao TC	Nov-23	Mar-24	CW/SPW	TBD
711819	13400 - Acacias TC - San German Sect - La Parguera Sect	Nov-23	Feb-24	CW/SPW	TBD
334331	1900 - Dos Bocas to San Sebastian	Dec-23	Oct-25	MCW	TBD
547251	2400 - Dos Bocas to America Apparel	Dec-23	Mar-24	MCW	TBD
547350	13300 - Bayamón Tc to Plaza del Sol	Dec-23	Oct-26	MCW	TBD
551911	9100 - Guaraguo TC to Bayamón Pueblo Sect	Dec-23	Sep-25	MCW	TBD
547342	1500 Mayaguez GP to GOAB 1515	Dec-23	Aug-26	MCW	TBD

Transmission (continued)

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
547160	1200 Mayaguez GP to Yauco 2 HP	Dec-23	Oct-25	MCW	TBD
334334	500 Ponce TC to Costa Sur SP	Dec-23	Feb-26	MCW	TBD
550902	9700 Palo Seco SP to Bay View Sect	Dec-23	Apr-25	MCW	TBD
551067	11100 – Canovanas TC TO GOAB 11115	Dec-23	Oct-25	MCW	TBD
547226	11400 – Barceloneta TC to Florida	Dec-23	Jul-26	MCW	TBD
730657	2200 - Dos Bocas to Dorado	Dec-23	Aug-25	MCW	TBD

Distribution – Automation

*Construction start dates assume timely FEMA obligation of the relevant DSOWs and approval of the underlying contracts by the Financial Oversight and Management Board and P3A, if required. LUMA will be ready to proceed with construction or as soon thereafter as necessary supplies are available.

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
688623	Transmission and Distribution Automation Program (Group 1)	Apr-23 (Completed)	Feb-23 (Started)	MSPW	Pending Obligation
TBD	Area-Wide Distribution Automation (Group Mayaguez)	Sep-23	Oct-23	MSPW	TBD
TBD	Area-Wide Distribution Automation (Group San Juan)	Sep-23	Oct-23	MSPW	TBD
TBD	Area-Wide Distribution Automation (Group Caguas)	Oct-23	Oct-23	MSPW	TBD
TBD	Area-Wide Distribution Automation (Bayamon)	Oct-23	Oct-23	MSPW	TBD

Distribution – Feeders

*Construction start dates assume timely FEMA obligation of the relevant DSOWs and approval of the underlying contracts by the Financial Oversight and Management Board and P3A, if required. LUMA will be ready to proceed with construction or as soon thereafter as necessary supplies are available.

FEMA Project #	Project Name	DSOW Submission	Construction Start Date*	Self-Performed Work	Obligated \$
165226	Vieques Feeders 2501-01, 2501-02, 2501-03 and Culebra Feeders 3801-01, 3801-02	Dec-22 (Completed)	Mar-24	MCW	Pending obligation
334474	Distribution Feeder (Bayamón Short-Term Group 2)	Jun-23 (Completed)	Mar-24	MCW	Pending obligation
334191	Distribution Feeder (Mayagüez Short Term Group 3)	Jun-23 (Completed)	May-24	MCW	Pending obligation
334285	Distribution Feeder (Mayagüez Group 2)	Jun-23 (Completed)	Apr-24	MCW	Pending obligation
334293	Distribution Feeder (Mayagüez Short-Term Group 4)	Jun-23 (Completed)	Apr-24	MCW	Pending obligation
334308	Distribution Feeder (Mayagüez Group 1)	Jun-23 (Completed)	Apr-24	MCW	Pending obligation
546374	Distribution Feeder (San Juan Group 3)	Aug-23 (Completed)	Apr-24	MCW	Pending obligation
334452	Distribution Feeder (Caguas Group 3)	Sep-23 (Completed)	Oct-24	MCW	Pending obligation
334472	Distribution Feeder (San Juan Group 2)	Sep-23 (Completed)	Mar-24	MCW	Pending obligation

Distribution – Feeders (continued)

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
334475	Distribution Feeder (Bayamón Group 3)	Sep-23 (Completed)	Mar-24	MCW	Pending obligation
334477	Distribution Feeder (Carolina Group 3)	Sep-23 (Completed)	May-24	MCW	Pending obligation
334491	Distribution Feeder (Caguas Group 5)	Sep-23 (Completed)	May-24	MCW	Pending obligation
334497	Distribution Feeder (Caguas Group 6)	Sep-23 (Completed)	Apr-24	MCW	Pending obligation
334518	Distribution Feeder (Caguas Group 7)	Sep-23 (Completed)	Oct-24	MCW	Pending obligation
334420	Distribution Feeder (Caguas Group 1)	Sep-23	Apr-24	MCW	TBD
334443	Distribution Feeder (Caguas Group 2)	Sep-23	Sep-24	MCW	TBD
334471	Distribution Feeder (San Juan Group 1)	Sep-23	Apr-24	MCW	TBD
436616	Distribution Feeder (Arecibo Group 1)	Sep-23 (Completed)	Dec-24	MCW	Pending Obligation
546386	Distribution Feeder (El Yunque Group)	Sep-23	May-24	MCW	TBD

Distribution – Feeders (continued)

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
334473	Distribution Feeder (Bayamón Group 1)	Sep-23	Apr-24	MCW	TBD
730821	Distribution Feeder (Arecibo Group 2)	Sep-23	Apr-24	MCW	TBD
334476	Distribution Feeder (Carolina Group 2)	Sep-23	Jul-24	MCW	TBD
730586	Distribution Feeder (Ponce Group 1)	Sep-23	Apr-24	MCW	TBD
730824	Distribution Feeder (Ponce Group 2)	Sep-23	Jul-24	MCW	TBD
730513	Distribution Feeder (Caguas Group 4)	Sep-23	Jun-24	MCW	TBD
730541	Distribution Feeder (Caguas Group 8)	Sep-23	May-24	MCW	TBD

Distribution – Pole Replacement

*Construction start dates assume timely FEMA obligation of the relevant DSOWs and approval of the underlying contracts by the Financial Oversight and Management Board and P3A, if required. LUMA will be ready to proceed with construction or as soon thereafter as necessary supplies are available.

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
334323	Ponce Group 1	Jan-22 (Completed)	Mar-22 (Started)	MSPW	\$418,999
334329	Ponce Group 2	Jan-22 (Completed)	Jun-23 (Started)	MCW	\$405,783
542762	Arecibo Group 2	Jan-22 (Completed)	Mar-22 (Completed)	MSPW	\$818,662
334488	Caguas Group 4	Feb-22 (Completed)	May-22 (Started)	MCW	\$165,208
334527	Caguas Group 8	Feb-22 (Completed)	Sep-22 (Completed)	MSPW	\$117,387
673839	Bayamon Group 2	May-22 (Completed)	Apr-23 (Completed)	MSPW	\$36,451
674092	Caguas Group 5	Jun-22 (Completed)	Jun-23 (Started)	MSPW	\$614,309
674098	Caguas Group 7	Jun-22 (Completed)	Feb-23 (Completed)	MCW	\$124,271
673847	Carolina Group 2	Jun-22 (Completed)	Mar-22 (Started)	MSPW	\$277,756

Distribution – Pole Replacement (continued)

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
673848	Carolina Group 3	Jun-22 (Completed)	Apr-22 (Started)	MSPW	\$62,627
673774	Mayaguez Group 1	Jun-22 (Completed)	Apr-22 (Started)	MSPW	\$2,040,782
673795	Mayaguez Group 4	Jun-22 (Completed)	Jun-23 (Started)	MSPW	\$2,072,233
673818	San Juan Group 1	Jun-22 (Completed)	Aug-22 (Started)	MCW	\$914,461
673838	San Juan Group 2	Jun-22 (Completed)	May-23 (Started)	MCW	\$412,638
673771	Arecibo Group 1	Jul-22 (Completed)	Nov-2022 (Started)	MSPW	\$2,737,411
673836	Bayamon Group 1	Jul-22 (Completed)	Jun-22 (Started)	MCW	\$6,651,051
673843	Bayamon Group 3	Jul-22 (Completed)	Feb-23 (Started)	MCW	\$1,307,651
674072	Caguas Group 1	Jul-22 (Completed)	Nov-22 (Started)	MCW	\$1,282,680
674083	Caguas Group 2	Jul-22 (Completed)	Nov-22 (Started)	MCW	\$2,446,183

Distribution – Pole Replacement (continued)

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
674088	Caguas Group 3	Jul-22 (Completed)	May-22 (Started)	MCW	\$1,969,392
674096	Caguas Group 6	Jul-22 (Completed)	Feb-23 (Started)	CW/SPW	\$2,424,985
673772	Mayaguez Group 2	Jul-22 (Completed)	Mar-23 (Started)	MSPW	\$4,759,357
673775	Mayaguez Group 3	Jul-22 (Completed)	Jan-22 (Started)	MSPW	\$5,124,519
673844	San Juan Group 3	Jul-22 (Completed)	May-23 (Started)	MCW	\$1,600,866
678985	Bayamon Group 4	Aug-22 (Completed)	Mar-23 (Started)	MCW	\$474,861
679025	San Juan Group 4	Aug-22 (Completed)	Oct-23	MSPW	\$345,514
679033	Caguas Group 9	Aug-22 (Completed)	Apr-23 (Started)	MCW	\$1,049,570
679127	Arecibo Group 3	Aug-22 (Completed)	May-23 (Started)	MSPW	\$250,503
679149	Mayaguez Group 5	Aug-22 (Completed)	Aug-23 (Started)	MSPW	\$182,378

Distribution – Pole Replacement (continued)

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
679457	Ponce Group 3	Aug-22 (Completed)	Jun-23 (Started)	MCW	\$861,874
678988	Bayamon Group 5	Sept-22 (Completed)	Mar-23 (Started)	MCW	\$1,293,228
679133	Arecibo Group 4	Sept-22 (Completed)	Oct-23	MSPW	\$25,440
679026	San Juan Group 5	Sept-22 (Completed)	May-23 (Started)	MSPW	\$683,747
679134	Caguas Group 10	Sept-22 (Completed)	May-23 (Started)	MCW	\$650,281
679153	Mayaguez Group 6	Sept-22 (Completed)	May-23 (Started)	MSPW	\$246,252
679458	Ponce Group 4	Sept-22 (Completed)	Jul-23 (Started)	MCW	\$689,340
685477	Arecibo Group 6	Nov-22 (Completed)	Jun-23 (Started)	MCW	\$480,605
682910	Bayamon Group 7	Nov-22 (Completed)	Apr-23 (Started)	MCW	\$722,052
682890	Caguas Group 12	Nov-22 (Completed)	May-23 (Started)	MCW	\$710,654

Distribution – Pole Replacement (continued)

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
685370	Mayaguez Group 8	Nov-22 (Completed)	Aug-23 (Started)	MSPW	\$96,936
685263	Ponce Group 6	Nov-22 (Completed)	Jul-23 (Started)	MCW	\$775,663
682865	San Juan Group 7	Nov-22 (Completed)	Aug-23 (Started)	MCW	\$105,208
682135	Bayamon Group 8	Nov-22 (Completed)	Feb-23 (Started)	MCW	\$803,639
682324	Caguas Group 13	Nov-22 (Completed)	Apr-23 (Started)	CW/SPW	\$819,846
682870	San Juan Group 6	Nov-22 (Completed)	Aug-23 (Started)	MCW	\$120,130
682882	Caguas Group 11	Nov-22 (Completed)	Jan-23 (Started)	MCW	\$763,393
682898	Bayamon Group 6	Nov-22 (Completed)	Feb-23 (Started)	MCW	\$864,311
685943	Ponce Group 5	Nov-22 (Completed)	Jul-23 (Started)	MCW	\$368,007
686453	Mayaguez Group 7	Nov-22 (Completed)	May-23 (Started)	MSPW	\$29,638

Distribution – Pole Replacement (continued)

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
686471	Arecibo Group 5	Nov-22 (Completed)	Jun-23 (Started)	MCW	\$368,833
682178	Arecibo Group 7	Dec-22 (Completed)	Jul-23 (Started)	MSPW	\$303,240
682210	Mayaguez Group 9	Dec-22 (Completed)	May-23 (Started)	MSPW	\$278,096
686480	Ponce Group 7	Dec-22 (Completed)	May-23 (Started)	MSPW	\$733,415
682028	San Juan Group 8	Dec-22 (Completed)	Aug-23 (started)	MCW	\$620,946
682172	Arecibo Group 8	Dec-22 (Completed)	Jan-23 (Started)	MSPW	\$307,002
682136	Bayamon Group 9	Dec-22 (Completed)	Apr-23 (Started)	MCW	\$655,864
682373	Caguas Group 14	Dec-22 (Completed)	Jun-23 (Started)	MCW	\$90,344
682180	Mayaguez Group 10	Dec-22 (Completed)	Jan-23 (Started)	MSPW	\$62,816
682228	Ponce Group 8	Dec-22 (Completed)	May-23 (Started)	MSPW	\$1,103,445

Distribution – Pole Replacement (continued)

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
682031	San Juan Group 9	Dec-22 (Completed)	Sept-23	MCW	\$719,242
688627	Arecibo Group 9	Dec-22 (Completed)	May-23 (Started)	MSPW	\$434,881
688096	Caguas Group 15	Dec-22 (Completed)	Sept-23	MCW	\$31,408
688472	Mayaguez Group 11	Dec-22 (Completed)	Apr-23 (Started)	MSPW	\$209,817
688774	Ponce Group 9	Dec-22 (Completed)	May-23 (Started)	MSPW	\$628,534
691246	San Juan Group 10	Dec-22 (Completed)	Aug-23 (Started)	MCW	\$286,704
688109	San Juan Group 11	Dec-22 (Completed)	Aug-23 (Started)	MCW	\$650,873
688198	Arecibo Group 10	Dec-22 (Completed)	Sept-23	MSPW	\$88,915
688625	Ponce Group 10	Dec-22 (Completed)	Apr-23 (Started)	MSPW	\$1,040,648
688629	Mayaguez Group 13	Dec-22 (Completed)	May-23 (Started)	MSPW	\$155,663

Distribution – Pole Replacement (continued)

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
688630	Mayaguez Group 12	Dec-22 (Completed)	Sep-23	MSPW	\$61,046
689071	Arecibo Group 11	Dec-22 (Completed)	Jul-23 (Started)	MSPW	\$88,915
701679	San Juan Group 12	Dec-22 (Completed)	Oct-23	MCW	\$93,187
701545	Ponce Group 11	Dec-22 (Completed)	May-23 (Started)	MSPW	\$711,427
701555	Ponce Group 13	Jan-23 (Completed)	Jun-23 (Started)	MSPW	\$753,962
701552	Ponce Group 12	Jan-23 (Completed)	Apr-23 (Started)	MSPW	\$274,832
701495	Mayaguez Group 14	Jan-23 (Completed)	Apr-23 (Started)	MCW	\$29,638
701504	Arecibo Group 12	Jan-23 (Completed)	Jun-23 (Started)	MSPW	\$217,475
704916	Arecibo Group 13-16	Mar-23 (Completed)	May-23 (Started)	MSPW	\$353,725
704750	Bayamon Group 10	Mar-23 (Completed)	Jul-23 (Started)	MCW	\$671,139

Distribution – Pole Replacement (continued)

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
704751	Bayamon Group 11	Mar-23 (Completed)	Jul-23 (Started)	MCW	\$501,335
704755	Bayamon Groups 12-14	Mar-23 (Completed)	Oct-23	MCW	\$607,843
704844	Caguas Groups 16-20	Mar-23 (Completed)	Jun-23 (Started)	MSPW	\$471,788
705527	San Juan Groups 17-21	Mar-23 (Completed)	Oct-23	MCW	\$893,001
705503	Mayaguez Groups 15-19	Apr-23 (Completed)	Oct-23	MSPW	Pending obligation
705584	Ponce Groups 14-15	Apr-23 (Completed)	Nov-23	MCW	\$2,127,676
704933	San Juan Groups 13-16	Apr-23 (Completed)	Oct-23	MCW	\$1,657,406
708579	Ponce Groups 16-19	Apr-23 (Completed)	Nov-23	MCW	Pending obligation
710094	Bayamon Group 1 (Phase II)	Aug-23 (Completed)	Nov-23	MCW	Pending obligation
710110	Bayamon Group 2 (Phase II)	Aug-23 (Completed)	Nov-23	MCW	Pending obligation

Distribution – Pole Replacement (continued)

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
710099	Arecibo Group 1 (Phase II)	Sep-23	Dec-23	MCW	TBD
711888	Caguas Group 1 (Phase II)	Sep-23	Dec-23	MCW	TBD
711856	Bayamon Group 3 (Phase II)	Oct-23	Jan-24	MCW	TBD
712968	Arecibo Group 2 (Phase II)	Oct-23	Jan-24	MCW	TBD
TBD	Carolina Group 1 (Phase II)	Nov-23	Feb-24	MCW	TBD
TBD	Caguas Group 2 (Phase II)	Nov-23	Feb-24	MCW	TBD
TBD	Mayaguez Group 1 (Phase II)	Nov-23	Feb-24	MCW	TBD
TBD	San Juan Group 2 (Phase II)	Dec-23	Mar-24	MCW	TBD
TBD	Ponce Group 1 (Phase II)	Dec-23	Mar-24	MCW	TBD
TBD	San Juan Group 1 (Phase II)	Dec-23	Mar-24	MCW	TBD

Distribution – Streetlighting

*Construction start dates assume timely FEMA obligation of the relevant DSOWs and approval of the underlying contracts by the Financial Oversight and Management Board and P3A, if required. LUMA will be ready to proceed with construction or as soon thereafter as necessary supplies are available.

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Estimate*	Self-Performed Work	Obligated \$
542690	Maunabo Streetlighting	Feb-22 (Completed)	Jun-22 (Started)	MCW	\$7,974,197
542756	Guánica Streetlighting	Mar-22 (Completed)	Aug-22 (Started)	MCW	\$12,295,431
542687	Lajas Streetlighting	Mar-22 (Completed)	Jul-22 (Started)	MCW	\$13,217,521
542688	Aguada Streetlighting	Mar-22 (Completed)	Jun-22 (Started)	MCW	\$22,676,501
542517	Luquillo Streetlighting	Mar-22 (Completed)	Jun-22 (Started)	MCW	\$707,494
660437	Manati Streetlight	Jul-22 (Completed)	Nov-22 (Started)	MCW	\$34,458,465
659715	Aibonito Streetlighting	Jul-22 (Completed)	Nov-22 (Started)	MCW	\$9,134,158
659623	Cataño Streetlighting	Jul-22 (Completed)	Nov-22 (Started)	MCW	\$21,136,810
660239	Villalba Streetlighting	Jul-22 (Completed)	Oct-22 (Started)	MCW	\$13,503,120
660227	Hatillo Streetlighting	Aug-22 (Completed)	Nov-22 (Started)	MCW	\$24,652,343
659625	Dorado Streetlighting	Aug-22 (Completed)	Nov-22 (Started)	MCW	\$29,087,211
673504	Gurabo Streetlighting	Feb-23 (Completed)	Mar-23 (Started)	MCW	\$23,785,969

Distribution – Streetlighting (continued)

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Estimate*	Self-Performed Work	Obligated \$
698424	Florida Streetlighting	Mar-23 (Completed)	Apr-23 (Started)	MCW	Pending obligation
691702	Trujillo Alto Streetlighting	Mar-23 (Completed)	Apr-23 (Started)	MCW	\$29,676,415
690545	Aguadilla Streetlighting	Mar-23 (Completed)	May-23 (Started)	MCW	\$24,113,826
679039	Caguas Streetlighting	Mar-23 (Completed)	May-23 (Started)	MCW	\$84,121,466
659968	San Germán Streetlighting	Mar-23 (Completed)	May-23 (Started)	MCW	\$39,502,133
698439	Las Marías Streetlighting	Jun-23 (Completed)	May-23 (Started)	MCW	Pending obligation
698458	Guaynabo Streetlighting	Jun-23 (Completed)	Jun-23 (Started)	MCW	Pending obligation
698427	Maricao Streetlighting	Jun-23 (Completed)	Jun-23 (Started)	MCW	Pending obligation
678795	Arecibo Streetlighting	Jun-23 (Completed)	Jun-23 (Started)	MCW	Pending obligation
678793	Mayagüez Streetlighting	Jun-23 (Completed)	Jun-23 (Started)	MCW	Pending obligation

Distribution – Streetlighting (continued)

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Estimate*	Self-Performed Work	Obligated \$
671400	Barceloneta Streetlighting	Jun-23 (Completed)	Jun-23 (Started)	MCW	Pending obligation
666894	San Juan Streetlighting	Jun-23 (Completed)	Jun-23 (Started)	MCW	Pending obligation
671502	Yabucoa Streetlighting	Jun-23 (Completed)	Jul-23 (Started)	MCW	Pending obligation
698432	Hormigueros Streetlighting	Jun-23 (Completed)	Aug-23 (Started)	MCW	Pending obligation
678789	Carolina Streetlighting	Jun-23 (Completed)	Aug-23 (Started)	MCW	Pending obligation
690721	Guayama Streetlighting	Jun-23 (Completed)	Oct-23	MCW	Pending obligation
678794	Ponce Streetlighting	Jun-23 (Completed)	Oct-23	MCW	Pending obligation
671396	Utuado Streetlighting	Jun-23 (Completed)	Oct-23	MCW	Pending obligation
704679	Coamo Streetlighting	Jun-23 (Completed)	Aug-23	MCW	Pending obligation
693788	Toa Alta Streetlighting	Aug-23 (Completed)	Sep-23 (Started)	MCW	Pending obligation
698570	Corozal Streetlighting	Aug-23 (Completed)	Sep-23 (Started)	MCW	Pending obligation

Distribution – Streetlighting (continued)

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Estimate*	Self-Performed Work	Obligated \$
690483	Cayey Streetlighting	Aug-23 (Completed)	Sep-23 (Started)	MCW	Pending obligation
679780	Bayamon Streetlighting	Aug-23 (Completed)	Dec-23	MCW	Pending obligation
699814	Juana Diaz Streetlighting	Sep-23	Dec-23	MCW	TBD
686482	Isabela Streetlighting	Sep-23	Nov-23	MCW	TBD
701473	Canovanas Streetlighting	Sep-23	Dec-23	MCW	TBD
698522	Vieques Streetlighting	Sep-23	Feb-24	MCW	TBD
690480	Humacao Streetlighting	Sept-23	Feb-24	MCW	TBD
693615	Rio Grande Streetlighting	Sept-23	Nov-23	MCW	TBD
703535	Toa Baja Streetlighting	Oct-23	Jan-24	MCW	TBD

Distribution – Streetlighting (continued)

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Estimate*	Self-Performed Work	Obligated \$
693543	Juncos Streetlighting	Oct-23	Mar-24	MCW	TBD
704744	San Sebastian Streetlighting	Oct-23	Feb-24	MCW	TBD
704931	Camuy Streetlighting	Oct-23	Feb-24	MCW	TBD
714641	Rincón Streetlighting	Oct-23	May-24	MCW	TBD
704757	Santa Isabel Streetlighting	Oct-23	May-24	MCW	TBD
698579	Orocovis Streetlighting	Nov-23	Jun-24	MCW	TBD
704938	Las Piedras Streetlighting	Nov-23	May-24	MCW	TBD
713795	Lares Streetlighting	Nov-23	Jun-24	MCW	TBD
704929	San Lorenzo Streetlighting	Nov-23	Mar-24	MCW	TBD

Distribution – Streetlighting (continued)

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Estimate*	Self-Performed Work	Obligated \$
698511	Culebra Streetlighting	Nov-23	May-24	MCW	TBD
709631	Morovis Streetlighting	Nov-23	May-24	MCW	TBD
704943	Naranjito Streetlighting	Dec-23	May-24	MCW	TBD
697183	Vega Baja Streetlighting	Dec-23	Mar-24	MCW	TBD
704849	Naguabo Streetlighting	Dec-23	Jul-24	MCW	TBD
724703	Arroyo Streetlighting	Dec-23	Jun-24	MCW	TBD
704868	Ceiba Streetlighting	Dec-23	May-24	MCW	TBD

IT & Telecom

*Construction start dates assume timely FEMA obligation of the relevant DSOWs and approval of the underlying contracts by the Financial Oversight and Management Board and P3A, if required. LUMA will be ready to proceed with construction or as soon thereafter as necessary supplies are available.

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Estimate*	Self-Performed Work	Obligated \$
551925	SCADA Remote Access and RTU Replacements (Group 1)	Jul-22 (Completed)	Dec-23	MCW	Pending obligation
657300	Energy Management System (Phase I)	Aug-22 (Completed)	Aug-23 (Started)	CW/SPW	\$44,047,335
675345	IT OT Technology Systems Repairs	Mar-23 (Completed)	Jan-24	MCW	Pending obligation
668665	Cybersecurity Program Implementation	June 23 (Completed)	Jan-24	MCW	TBD
714654	Advanced Metering Infrastructure (AMI)	Jul-23 (Completed)	Apr-24	MCW	Pending obligation
551963	Transport Network	Jul-23 (Completed)	Sep-24	MCW	Pending obligation
662238	Microwave PTP Backbone	Jul-23 (Completed)	Apr-24	MCW	Pending obligation
551926	SCADA Remote Access and RTU Replacements (Group 2)	Sep-23	Apr-24	MSPW	TBD
673292	Telecom Infrastructure Cerro Puntas	Sep-23	Jan-24	MCW	TBD
551927	SCADA Remote Access and RTU Replacements (Group 3)	Oct-23	Jul-24	MSPW	TBD
675406	LMR 2-Way Radio	Oct-23	May-24	MCW	TBD
682331	RTU & Telecom Replacement - Mayaguez	Nov-23	Jan-24	MCW	TBD

Buildings and Systems

*Construction start dates assume timely FEMA obligation of the relevant DSOWs and approval of the underlying contracts by the Financial Oversight and Management Board and P3A, if required. LUMA will be ready to proceed with construction or as soon thereafter as necessary supplies are available.

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
679006	Test and Technology Laboratory (Equipment)	Nov-22 (Completed)	Apr-24	MCW	Pending obligation
657300	Energy Management System (Phase II Primary Control Center - PCC)	Jun-23 (Submitted)	Dec-24	MCW	Pending obligation
169576	Arecibo Regional Office Building	Nov-23	Mar-25	MCW	TBD
169798	Arecibo Electric Service Center	Nov-23	Mar-25	MCW	TBD
551247	Palo Seco South Building Repairs	Nov-23	May-25	MCW	TBD

Vegetation

*Construction start dates assume timely FEMA obligation of the relevant DSOWs and approval of the underlying contracts by the Financial Oversight and Management Board and P3A, if required. LUMA will be ready to proceed with construction or as soon thereafter as necessary supplies are available.

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
723883	Islandwide Vegetation Clearing: Region 1 San Juan Distribution – Group A	Jun-23 (initial submission) Jul-23 (revised submission)	Dec-23	MCW	Pending Obligation
727691	Islandwide Vegetation Clearing: Region 1 San Juan Transmission/Distribution – 38 kV and below – Group B	Jul-23 (Submitted)	Jun-24	MCW	Pending obligation
727608	Islandwide Vegetation Clearing: Region 1 San Juan Transmission – 115 kV	Jul-23 (Submitted)	Jun-25	MCW	Pending obligation
728827	Islandwide Vegetation Clearing: Region 2 Arecibo Distribution – Group A	Jul-23 (Submitted)	Mar-24	MCW	Pending obligation
727540	Islandwide Vegetation Clearing: Region 2 Arecibo Transmission/Distribution – 38 kV and below – Group B	Jul-23 (Submitted)	Jun-24	MCW	Pending obligation
727659	Islandwide Vegetation Clearing: Region 2 Arecibo Transmission – 115 kV	Jul-23 (Submitted)	Jun-25	MCW	Pending obligation
727522	Islandwide Vegetation Clearing: Region 3 Bayamon Distribution – Group A	Jul-23 (Submitted)	Mar-24	MCW	Pending obligation

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
727572	Islandwide Vegetation Clearing: Region 3 Bayamon Transmission/Distribution – 38 kV and below – Group B	Jul-23 (Submitted)	Jun-24	MCW	Pending obligation
727558	Islandwide Vegetation Clearing: Region 3 Bayamon Transmission – 115 kV	Jul-23 (Submitted)	Jun-25	MCW	Pending obligation
727692	Islandwide Vegetation Clearing: Region 4 Caguas Distribution – Group A	Jul-23 (Submitted)	Mar-24	MCW	Pending obligation
727694	Island Wide Vegetation Clearing: Region 4 Caguas Transmission/Distribution – 38 kV and below – Group B	Jul-23 (Submitted)	Jun-24	MCW	Pending obligation
727606	Islandwide Vegetation Clearing: Region 4 Caguas Transmission – 115 kV	Jul-23 (Submitted)	Jun-25	MCW	Pending obligation
728832	Islandwide Vegetation Clearing: Region 5 Mayaguez Distribution – Group A	Jul-23 (Submitted)	Mar-24	MCW	Pending obligation
727562	Islandwide Vegetation Clearing: Region 5 Mayaguez Transmission/Distribution – 38 kV and below – Group B	Jul-23 (Submitted)	Jun-24	MCW	Pending obligation
727657	Islandwide Vegetation Clearing: Region 5 Mayaguez Transmission – 115 kV	Jul-23 (Submitted)	Jun-25	MCW	Pending obligation

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
727531	Islandwide Vegetation Clearing: Region 6 Ponce Distribution – Group A	Jul-23 (Submitted)	Mar-24	MCW	Pending obligation
727530	Islandwide Vegetation Clearing: Region 6 Ponce Transmission/Distribution – 38 kV and below – Group B	Jul-23 (Submitted)	Jun-24	MCW	Pending obligation
727529	Islandwide Vegetation Clearing: Region 6 Ponce Transmission – 115 kV	Jul-23 (Submitted)	Jun-25	MCW	Pending obligation
TBD	Islandwide Vegetation Clearing: 230 kV Transmission	Sep-23	Jul-26	MCW	TBD
TBD	Islandwide Vegetation Clearing: Region 1 San Juan Substations & Telecommunications Sites	Sep-23	Aug-26	MCW	TBD
TBD	Islandwide Vegetation Clearing: Region 2 Arecibo Substations & Telecommunications Sites	Sep-23	Aug-26	MCW	TBD
TBD	Islandwide Vegetation Clearing: Region 3 Bayamon Substations & Telecommunications Sites	Sep-23	Aug-26	MCW	TBD
TBD	Islandwide Vegetation Clearing: Region 4 Caguas Substations & Telecommunications Sites	Sep-23	Aug-26	MCW	TBD

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
TBD	Islandwide Vegetation Clearing: Region 5 Mayaguez Substations & Telecommunications Sites	Sep-23	Aug-26	MCW	TBD
TBD	Islandwide Vegetation Clearing: Region 6 Ponce Substations & Telecommunications Sites	Sep-23	Aug-26	MCW	TBD

IV. Self-Performing Work

LUMA will continue to execute self-performing work in the following categories:

- Pole/conductor replacements
- Structure replacements
- Hardware/insulator replacements
- Streetlights
- Substation, feeder, and line minor repairs
- Communication network and grid automation
- Equipment replacements
- Civil and low-voltage work to support projects

We will continue to refine this section in collaboration with P3A as we move forward.



FEMA



90-Day Plan

September 2023

LUMA 

September 2023

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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 electric transmission and distribution grid.

On June 1, 2021, LUMA assumed overall responsibilities for the Puerto Rico Electric Power Authority's (PREPA) Transmission and Distribution (T&D) System as outlined within the Operations and Maintenance 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 other 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 five areas:

1. PREPA-LUMA Coordination and Alignment
2. Federal Grant Management
3. Funding and Reporting
4. Environmental and Historic Preservation
5. Engineering Management

1. PREPA-LUMA Coordination and Alignment

PREPA and LUMA goals for the next 90 days:

- PREPA and LUMA leadership will participate in regular weekly meetings with the Central Office for Recovery, Reconstruction, and Resiliency (COR3) & FEMA to ensure visibility of progress of project progress, the coordination and understanding of common matters, and to identify and resolve risks that involve points of integration between the two entities.
- LUMA will continue to coordinate with PREPA to support successful operations under the T&D OMA.
- LUMA and PREPA will continue to collaborate on the Vieques and Culebra Microgrid Project. LUMA is assuming project lead responsibilities and coordinating the project hand-offs for design, construction, and post-production phases for the appropriate operational jurisdictions. LUMA is

engaged with COR3 and P3A to identify and collaborate on project construction and operational jurisdiction challenges related to the O&M Agreement between LUMA and PREPA.

- LUMA continues to collaborate directly with PREPA and Genera at the leadership, working group, and project levels as Genera assumes their role as Generation Operator. This transition will evolve over the next 90 days.

2. Federal Grant Management

LUMA goals for the next 90 days:

- LUMA will continue working with COR3 and FEMA to obtain project obligations for the 106 detailed statements of work (DSOWs) submitted to date that have yet to be obligated.
- LUMA will continue advancing work on Section 428 projects with the goal of finalizing DSOWs for submission to COR3 and FEMA. This effort includes Sections 404 and 406 of the Hazard Mitigation Grant Program (HMGP) and Environmental and Historic Preservation (EHP) work. LUMA expects to submit additional DSOWs within the next 90-day period as per target schedule below.
- LUMA will continue refining Section 406 Hazard Mitigation Grant Program strategies for all asset classes including distribution, transmission, substation, and IT/OT. LUMA will continue to conduct discussions with COR3 and FEMA for feedback and alignment.
- LUMA will continue providing the reconciliation costs to support submissions for project formulation.

During the last 90-day period, LUMA completed the following:

- Submitted 71 DSOWs to FEMA for approval, representing \$4.6 billion in capital investments.
- Received an amended obligation for an additional \$600 million to support Architecture and Engineering (A&E) resources.
- Obtained FEMA authorization and project obligations on six DSOWs representing \$99.6 million in capital investments.

3. Funding and Reporting

LUMA goals for the next 90 days:

- LUMA will continue to track project actual costs in accordance with FEMA, HUD, and COR3 standards to support financial reporting requirements for federally funded projects.

- LUMA will continue executing self-performing work (see section IV in this plan).

During the last 90-day period, LUMA completed the following:

- LUMA submitted \$81 million in requests for reimbursements (RFRs) to COR3 to date. Another \$26 million is expected to be submitted during the next 90-day period.
- LUMA continued the implementation of a time reporting and technology project to automate RFR process related to federally funded projects. The goal is to accelerate submissions to COR3 while ensuring federal compliance.
- LUMA incorporated additional best practices from RFRs submitted to date. They have aided in prioritizing projects, optimizing preparation time, and improving the overall quality of documentation for RFR submissions moving forward. Best practices include task standardization for A&E and Category Z, data integrity validity automation, metrics for requests for information, and RFI mitigating measures.
- LUMA engaged with our grid recovery partners on additional federal funding opportunities to include:
 - U.S. Department of Energy electrical system improvement grants
 - Puerto Rico Department of Housing's Community Development Block Grant – Disaster Recovery (PRDOH CDBG-DR) Program for hazard mitigation via the U.S. Department of Housing and Urban Development (HUD)

4. Environmental and Historic Preservation

LUMA goals for the next 90 days:

- LUMA will continue with FEMA meetings and consultations.
- LUMA will outline an environmental compliance strategy for vegetation clearance in accordance with the U.S. Fish and Wildlife Service.
- LUMA will review the following health, safety, and environmental policies: asbestos (0724); spill response (0310); waste management (0315); and acquisition and divestiture environmental requirements for alignment with EHP process (0330).
- LUMA will continue with the development of process for work in areas that require managing lead containing materials.
- LUMA will outline environmental compliance strategy for effective EHP process for engineering, procurement, and construction (EPC) projects.

- To the extent possible, LUMA will expedite the process with the Instituto de Cultura Puertorriqueña (ICP) to complete the required archaeological studies for transmission lines.
- LUMA will complete installation of containers to store used transformers in the technical offices of Bayamon, Guayama, Caguas, and Aguadilla in compliance with the Clean Water Act (CWA) and the spill prevention program.
- LUMA will begin the underground injection control compliance plan with Capital Programs and substations.

During the last 90-day period, LUMA completed the following:

- LUMA continued to review initial FEMA Record of Environmental Considerations (RECs) for approved projects for integration into project scopes.
- LUMA continued to support preconstruction and construction inspection visits, along with implementing mitigation measures required by FEMA EHP and other agencies to meet environmental conditions. We also provided supporting documents for a class-three estimate.
- LUMA continued notifying and requesting endorsements from government agencies for projects obligated by FEMA.
- LUMA developed a template for underground injection control system closures.
- LUMA implemented the first phase of the corporate recycling program.
- LUMA reviewed these health, safety, and environmental policies: vegetation management (0320); wildlife, avian, and historical resources protection (0335); working near waterbodies (0325); and stormwater and erosion control (0340).

5. Engineering Management

LUMA goals for next 90 days:

- LUMA will continue preliminary engineering design work with existing A&E firms towards the development of DSOWs.
- LUMA will continue engineering and construction on all projects with FEMA-approved DSOWs.
- LUMA will submit DSOWs for critical projects including vegetation clearing, transmission lines, and distribution feeder rebuild projects.

- We will award contract(s) under planning studies RFP for engineering studies including area planning, distribution automation, distribution evaluations and studies, substation analysis and others.
- LUMA will continue to evaluate and prioritize existing FEMA projects against the needs and constraints of the electrical system and available contractor capacities to optimize the execution strategies.
- LUMA will continue work on the area plan analysis to identify contingency issues and provide backup analysis to determine sectionalization and segmentation needs (e.g., installation of distribution automation) to enhance reliability.
- LUMA is working on improving system models and performing distribution feeder verification. This will ensure proper analysis can be performed based on accurate field data. The models will include, but are not limited to, conductor sizes, transformer sizes, checking for connectivity, locating missing meters, tie points, distribution automation devices, regulators, and capacitor banks.
- LUMA is reviewing the 38 kV transmission lines and performing area plans to improve reliability. The work includes mitigation for N-1 contingency violations and ensuring that customers will have load transfer capability. This work will occur during the next 90 days but will not be completed during that period.

During the last 90-day period, LUMA completed the following:

- LUMA completed the planning technical studies and functional specifications on five transmission lines and four substations for long-term transmission reliability solutions.
- LUMA conducted preliminary engineering, including system planning review, standards review, and the development of preliminary design packages and class 3 estimates, to support the submission of 71 DSOWs representing \$4.6 billion dollars of work.

III. LUMA Estimated Schedule for DSOW Submission

Over the next 90 days, LUMA will be focused on preparing DSOWs and cost estimates for T&D projects. The tables below show the existing set of projects, by asset category, along with the estimated timing for DSOWs 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.

Note: Self-performed work includes work performed by Luma internal labor and Quanta contractors. Self-performed work is designated as contracted work (CW), mostly contracted work (MCW), or mostly self-performed work (MSPW).

- **Mostly contracted work (MCW)** = more than 65% of the work is procured/contracted (excluding management and oversight).
- **Mostly self-performed work (MSPW)** = more than 65% of the work is performed by LUMA (excluding management and oversight).
- **A mixture of contracted work and LUMA self-performed work (CW/SPW)** = between 50/50% and 65/35% (excluding management and oversight).

Substations

*Construction start dates assume timely FEMA obligation of the relevant DSOWs and approval of the underlying contracts by the Financial Oversight and Management Board and P3A, if required. LUMA will be ready to proceed with construction or as soon thereafter as necessary supplies are available.

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
<u>165225</u>	<u>Vieques (Phase II)</u>	Feb-23 (Completed)	<u>Dec-24</u>	<u>MCW</u>	<u>Pending Obligation</u>
<u>165209</u>	<u>Culebra (Phase II)</u>	Feb-23 (Completed)	<u>Dec-24</u>	<u>MCW</u>	<u>Pending Obligation</u>
<u>682834</u>	<u>Costa Sur-TC (Phases II and III)</u>	Mar-23 (Completed)	<u>Dec-24</u>	<u>MCW</u>	<u>Pending Obligation</u>
<u>169276</u>	<u>Viaducto TC 1100</u>	Mar-23 (Completed)	<u>Apr-24</u>	<u>MCW</u>	<u>Pending Obligation</u>
<u>723077</u>	<u>Sabana Llana TC</u>	May-23 (Completed)	<u>Dec-24</u>	<u>CW/SPW</u>	<u>Pending Obligation</u>
<u>682121</u>	<u>Aguirre TC (Phase II)</u>	May-23 (Completed)	<u>Dec-24</u>	<u>MCW</u>	<u>Pending Obligation</u>
<u>723002</u>	<u>Jobos TC</u>	May-23 (Completed)	<u>Dec-24</u>	<u>MCW</u>	<u>Pending Obligation</u>
<u>723078</u>	<u>San Juan SP TC</u>	May-23 (Completed)	<u>Dec-24</u>	<u>MCW</u>	<u>Pending Obligation</u>
<u>550950</u>	<u>Monacillos</u>	May-23 (Completed)	<u>Dec-24</u>	<u>MCW</u>	<u>Pending Obligation</u>
<u>660422</u>	<u>Physical Security Group 4</u>	Jun-23 (Completed)	<u>Jun-24</u>	<u>MCW</u>	<u>Pending Obligation</u>
<u>549715</u>	<u>Substation Minor Repairs (Group D)</u>	Jun-23 (Completed)	<u>Sep-24</u>	<u>MCW</u>	<u>Pending Obligation</u>
<u>549725</u>	<u>Substation Minor Repairs (Group E)</u>	Jun-23 (Completed)	<u>Aug-24</u>	<u>MCW</u>	<u>Pending Obligation</u>
<u>684920</u>	<u>Substations HV Equipment Replacement (Group 1)</u>	Jun-23 (Completed)	<u>Apr-23</u>	<u>MSPW</u>	<u>Pending Obligation</u>
<u>550980</u>	<u>Parques y Recreos</u>	Jun-23 (Completed)	<u>Jan-25</u>	<u>MCW</u>	<u>Pending Obligation</u>

Substations (continued)

<u>FEMA Project #</u>	<u>Project Name</u>	<u>DSOW Submission Estimate</u>	<u>Construction Start Date*</u>	<u>Self-Performed Work</u>	<u>Obligated \$</u>
<u>547243</u>	<u>Egozcue</u>	<u>Jun-23 (Completed)</u>	<u>May-25</u>	<u>MCW</u>	<u>Pending Obligation</u>
<u>550099</u>	<u>Esc. Industrial Miguel Such 1423</u>	<u>Jun-23 (Completed)</u>	<u>Feb-25</u>	<u>MCW</u>	<u>Pending Obligation</u>
<u>547241</u>	<u>Tallaboa 5402</u>	<u>Jun-23 (Completed)</u>	<u>Dec-25</u>	<u>MCW</u>	<u>Pending Obligation</u>
<u>551912</u>	<u>Puerto Nuevo Metalclad 1520</u>	<u>Jun-23 (Completed)</u>	<u>Sept-25</u>	<u>MCW</u>	<u>Pending Obligation</u>
<u>550986</u>	<u>Condado 1113</u>	<u>Jun-23 (Completed)</u>	<u>Mar-25</u>	<u>MCW</u>	<u>Pending Obligation</u>
<u>551918</u>	<u>Crematorio 1512</u>	<u>Jun-23 (Completed)</u>	<u>Dec-25</u>	<u>MCW</u>	<u>Pending Obligation</u>
<u>550106</u>	<u>Conquistador - CH</u>	<u>Jun-23 (Completed)</u>	<u>Mar-23</u>	<u>CW/SPW</u>	<u>Pending Obligation</u>
<u>550162</u>	<u>Berwind TC- Metalclad - 1336</u>	<u>Sep-23</u>	<u>Jan-25</u>	<u>MCW</u>	<u>TBD</u>
<u>551260</u>	<u>Guaynabo Pueblo Rebuild</u>	<u>Sep-23</u>	<u>Jul-25</u>	<u>MCW</u>	<u>TBD</u>
<u>547344</u>	<u>Acacias TC Relocation</u>	<u>Sep-23</u>	<u>Jul-25</u>	<u>MCW</u>	<u>TBD</u>
<u>550694</u>	<u>Baldrich 1422</u>	<u>Sep-23</u>	<u>May-25</u>	<u>MCW</u>	<u>TBD</u>
<u>178577</u>	<u>Cachete 1526</u>	<u>Sep-23</u>	<u>Mar-25</u>	<u>MCW</u>	<u>TBD</u>
<u>551914</u>	<u>Caparra 1911 & 1924</u>	<u>Sep-23</u>	<u>Mar-26</u>	<u>MCW</u>	<u>TBD</u>
<u>547187</u>	<u>Arecibo Pueblo 8002 Relocation</u>	<u>Sep-23</u>	<u>Apr-25</u>	<u>MCW</u>	<u>TBD</u>
<u>547273</u>	<u>Charco Hondo 8008 Relocation</u>	<u>Sep-23</u>	<u>Feb-26</u>	<u>MCW</u>	<u>TBD</u>

Substations (continued)

<u>FEMA Project #</u>	<u>Project Name</u>	<u>DSOW Submission Estimate</u>	<u>Construction Start Date*</u>	<u>Self- Performed Work</u>	<u>Obligated \$</u>
<u>729286</u>	<u>Substations HV Equipment Replacement Group 2</u>	<u>Sep-23</u>	<u>Nov-23</u>	<u>MSPW</u>	<u>TBD</u>
<u>550498</u>	<u>Pampanos Relocation</u>	<u>Oct-23</u>	<u>May-26</u>	<u>MCW</u>	<u>TBD</u>
<u>682645</u>	<u>Substation Minor Repairs (Group F)</u>	<u>Oct-23</u>	<u>Apr-24</u>	<u>MCW</u>	<u>TBD</u>
<u>685869</u>	<u>Substation Minor Repairs (Group G)</u>	<u>Oct-23</u>	<u>Apr-24</u>	<u>MCW</u>	<u>TBD</u>
<u>TBD</u>	<u>Venezuela</u>	<u>Oct-23</u>	<u>Jun-23</u>	<u>CW/SPW</u>	<u>TBD</u>
<u>682328</u>	<u>Bayamon TC</u>	<u>Oct-23</u>	<u>Nov-24</u>	<u>MCW</u>	<u>TBD</u>
<u>668669</u>	<u>Mayaguez TC</u>	<u>Nov-23</u>	<u>Aug-25</u>	<u>MCW</u>	<u>TBD</u>
<u>TBD</u>	<u>Substations HV Equipment Replacement (Group 3)</u>	<u>Nov-23</u>	<u>Jan-25</u>	<u>MCW</u>	<u>TBD</u>
<u>547247</u>	<u>Cambalache TC</u>	<u>Dec-23</u>	<u>Sep-25</u>	<u>MCW</u>	<u>TBD</u>
<u>547343</u>	<u>Victoria TC</u>	<u>Dec-23</u>	<u>Sept-25</u>	<u>MCW</u>	<u>TBD</u>

Transmission

*Construction start dates assume timely FEMA obligation of the relevant DSOWs and approval of the underlying contracts by the Financial Oversight and Management Board and P3A, if required. LUMA will be ready to proceed with construction or as soon thereafter as necessary supplies are available.

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
168226	San Juan 115kV Underground Transmission Loop	Mar-22 (Completed)	Oct-24	MCW	\$13,271,435.
334468	Transmission Priority Pole Replacements – Line 2200	Apr-22 (Completed)	Aug-23	MSPW	\$1,460,279
668592	Transmission Priority Pole Replacement - Line 9800 Bayamón TC - Guaraguao Sect	Jun-22 (Completed)	Dec-23	MCW	\$378,779.
550896	Transmission Priority Pole Replacements – Line 6700	Jun-22 (Completed)	Jun-23	MSPW	\$824,119
668583	Transmission Priority Pole Replacements – Line 13300	Jun-22 (Completed)	Oct-23	MSPW	\$535,593
681672	Transmission Priority Pole Replacements – 38kV Line 2300	Nov-22 (Completed)	Feb-24	MSPW	\$242,542
176971	8200 - San Juan SP - Cataño Sect	Jun-23 (Completed)	Dec-24	MCW	Pending Obligation
180052	Existing 38kV - Line 100. Line 200 Ponce TC to Jobos TC	Jun-23 (Completed)	Sept-25	MCW	Pending Obligation
180326	Existing 115 kV - Line 36800 Palmer Fajardo o Sabana Llana	Jun-23 (Completed)	Oct-24	MCW	Pending Obligation
166904	37800 - Caguas – Monacillo	Jun-23 (Completed)	Sep-24	MCW	Pending Obligation
167443	36200 - Monacillos - Juncos	Jun 23 (Completed)	Oct-25	MCW	Pending Obligation
176913	9500 - Palo Seco SP - Cantaño Sect	Jun-23 (Completed)	Aug-24	MCW	Pending Obligation
176954	1100 - Garzas 1 HP - Garzas 2 HP	Jun-23 (Completed)	Jul-25	MCW	Pending Obligation

Transmission (continued)

<u>FEMA Project #</u>	<u>Project Name</u>	<u>DSOW Submission Estimate</u>	<u>Construction Start Date*</u>	<u>Self-Performed Work</u>	<u>Obligated \$</u>
<u>168483</u>	<u>36400 - Dos Bocas - Ponce</u>	<u>Jun-23 (Completed)</u>	<u>Jun-24</u>	<u>MCW</u>	<u>Pending Obligation</u>
<u>166860</u>	<u>37800 - Jobos - Caguas</u>	<u>Jun-23 (Completed)</u>	<u>Oct-25</u>	<u>MCW</u>	<u>Pending Obligation</u>
167168	<u>37100 - Costa Sur - Acacias</u>	<u>Jun-23 (Completed)</u>	<u>Jan-25</u>	<u>MCW</u>	<u>Pending Obligation</u>
177191	39000 - Aguas Buenas - Caguas	<u>Jun-23 (Completed)</u>	Dec-24	<u>MCW</u>	<u>Pending Obligation</u>
<u>165213</u>	<u>Mainland 5400 - Rio Blanco HP - Daguao TC</u>	<u>Jun-23 (Completed)</u>	<u>Jul-25</u>	<u>MCW</u>	<u>Pending Obligation</u>
167508	50100 - Cambalache - Manati	<u>Jun-23 (Completed)</u>	<u>Dec-25</u>	<u>MCW</u>	<u>Pending Obligation</u>
<u>166707</u>	<u>51300 - Ponce - Costa Sur</u>	<u>Jun-23 (Completed)</u>	<u>Oct-24</u>	<u>MCW</u>	<u>Pending Obligation</u>
177134	4100 - Guaraquao TC - Comerio TC	<u>Jun-23 (Completed)</u>	<u>Nov-25</u>	<u>MCW</u>	<u>Pending Obligation</u>
<u>167446</u>	<u>36100 - Dos Bocas - Monacillos</u>	<u>Jun-23 (Completed)</u>	<u>March-23 (Started)</u>	<u>MCW</u>	<u>Pending Obligation</u>
548508	36200 - Fajardo to Rio Blanco (Evaluating for relocation)	<u>Jun-23 (Completed)</u>	<u>May-26</u>	<u>MCW</u>	<u>Pending Obligation</u>
<u>547259</u>	<u>2700 - Victoria TC to Quebradillas Sect</u>	<u>Jun-23 (Completed)</u>	<u>Jun-25</u>	<u>MCW</u>	<u>Pending Obligation</u>
<u>547269</u>	<u>2800 - Aguadilla Hospital Distrito Sect to T-Bone TO</u>	<u>Jun-23 (Completed)</u>	<u>Apr-25</u>	<u>MCW</u>	<u>Pending Obligation</u>
<u>718955</u>	<u>TL-50200 - Costa Sur SP to Bayamon TC</u>	<u>Aug-23 (Completed)</u>	<u>Apr-24</u>	<u>MCW</u>	<u>Pending Obligation</u>
<u>718971</u>	<u>TL-50300 - Costa Sur SP to Aguirre SP</u>	<u>Aug-23 (Completed)</u>	<u>Apr-24</u>	<u>MCW</u>	<u>Pending Obligation</u>

Transmission (continued)

<u>FEMA Project #</u>	<u>Project Name</u>	<u>DSOW Submission Estimate</u>	<u>Construction Start Date*</u>	<u>Self-Performed Work</u>	<u>Obligated \$</u>
<u>718951</u>	<u>TL-51200- Costa Sur to Cambalache</u>	<u>Aug-23 (Completed)</u>	<u>Apr-24</u>	<u>MCW</u>	<u>Pending Obligation</u>
<u>550019</u>	<u>600 - Caguas TC to Gautier Benitez Sect</u>	<u>Sep-23</u>	<u>Feb-25</u>	<u>MCW</u>	<u>TBD</u>
<u>334470</u>	<u>3100 - Monacillo TC to Dagua TC</u>	<u>Nov-23</u>	<u>Sep-26</u>	<u>MCW</u>	<u>TBD</u>
<u>711909</u>	<u>100 - Jobos TC - Guayama TO</u>	<u>Nov-23</u>	<u>Jan-24</u>	<u>CW/SPW</u>	<u>TBD</u>
<u>711670</u>	<u>100 - Salinas Sect - Jobos TC</u>	<u>Nov-23</u>	<u>Feb-24</u>	<u>CW/SPW</u>	<u>TBD</u>
<u>712980</u>	<u>3000 - Caguax Sect - Juncos TC</u>	<u>Nov-23</u>	<u>Jan-24</u>	<u>CW/SPW</u>	<u>TBD</u>
<u>435257</u>	<u>3000 - Monacillos TC - Bairoa TO</u>	<u>Nov-23</u>	<u>Mar-24</u>	<u>CW/SPW</u>	<u>TBD</u>
<u>712977</u>	<u>3000 - Caguas TC - Caguax Sect</u>	<u>Nov-23</u>	<u>Jan-24</u>	<u>CW/SPW</u>	<u>TBD</u>
<u>708637</u>	<u>3700 - Maunabo TC - Humacao TC</u>	<u>Nov-23</u>	<u>Mar-24</u>	<u>CW/SPW</u>	<u>TBD</u>
<u>711819</u>	<u>13400 - Acacias TC - San German Sect - La Parquera Sect</u>	<u>Nov-23</u>	<u>Feb-24</u>	<u>CW/SPW</u>	<u>TBD</u>
<u>334331</u>	<u>1900 - Dos Bocas to San Sebastian</u>	<u>Dec-23</u>	<u>Oct-25</u>	<u>MCW</u>	<u>TBD</u>
<u>547251</u>	<u>2400 - Dos Bocas to America Apparel</u>	<u>Dec-23</u>	<u>Mar-24</u>	<u>MCW</u>	<u>TBD</u>
<u>547350</u>	<u>13300 - Bayamón Tc to Plaza del Sol</u>	<u>Dec-23</u>	<u>Oct-26</u>	<u>MCW</u>	<u>TBD</u>
<u>551911</u>	<u>9100 - Guaraquao TC to Bayamón Pueblo Sect</u>	<u>Dec-23</u>	<u>Sep-25</u>	<u>MCW</u>	<u>TBD</u>
<u>547342</u>	<u>1500 Mayaguez GP to GOAB 1515</u>	<u>Dec-23</u>	<u>Aug-26</u>	<u>MCW</u>	<u>TBD</u>

Transmission (continued)

<u>FEMA Project #</u>	<u>Project Name</u>	<u>DSOW Submission Estimate</u>	<u>Construction Start Date*</u>	<u>Self- Performed Work</u>	<u>Obligated \$</u>
<u>547160</u>	<u>1200 Mayaguez GP to Yauco 2 HP</u>	<u>Dec-23</u>	<u>Oct-25</u>	<u>MCW</u>	<u>TBD</u>
<u>334334</u>	<u>500 Ponce TC to Costa Sur SP</u>	<u>Dec-23</u>	<u>Feb-26</u>	<u>MCW</u>	<u>TBD</u>
<u>550902</u>	<u>9700 Palo Seco SP to Bay View Sect</u>	<u>Dec-23</u>	<u>Apr-25</u>	<u>MCW</u>	<u>TBD</u>
<u>551067</u>	<u>11100 – Canovanas TC TO GOAB 11115</u>	<u>Dec-23</u>	<u>Oct-25</u>	<u>MCW</u>	<u>TBD</u>
<u>547226</u>	<u>11400 – Barceloneta TC to Florida</u>	<u>Dec-23</u>	<u>Jul-26</u>	<u>MCW</u>	<u>TBD</u>
<u>730657</u>	<u>2200 - Dos Bocas to Dorado</u>	<u>Dec-23</u>	<u>Aug-25</u>	<u>MCW</u>	<u>TBD</u>

Distribution – Automation

*Construction start dates assume timely FEMA obligation of the relevant DSOWs and approval of the underlying contracts by the Financial Oversight and Management Board and P3A, if required. LUMA will be ready to proceed with construction or as soon thereafter as necessary supplies are available.

<u>FEMA Project #</u>	<u>Project Name</u>	<u>DSOW Submission Estimate</u>	<u>Construction Start Date*</u>	<u>Self-Performed Work</u>	<u>Obligated \$</u>
<u>688623</u>	<u>Transmission and Distribution Automation Program (Group 1)</u>	<u>Apr-23 (Completed)</u>	<u>Feb-23 (Started)</u>	<u>MSPW</u>	<u>Pending Obligation</u>
<u>TBD</u>	<u>Area-Wide Distribution Automation (Group Mayaguez)</u>	<u>Sep-23</u>	<u>Oct-23</u>	<u>MSPW</u>	<u>TBD</u>
<u>TBD</u>	<u>Area-Wide Distribution Automation (Group San Juan)</u>	<u>Sep-23</u>	<u>Oct-23</u>	<u>MSPW</u>	<u>TBD</u>
<u>TBD</u>	<u>Area-Wide Distribution Automation (Group Caguas)</u>	<u>Oct-23</u>	<u>Oct-23</u>	<u>MSPW</u>	<u>TBD</u>
<u>TBD</u>	<u>Area-Wide Distribution Automation (Bayamon)</u>	<u>Oct-23</u>	<u>Oct-23</u>	<u>MSPW</u>	<u>TBD</u>

Distribution – Feeders

*Construction start dates assume timely FEMA obligation of the relevant DSOWs and approval of the underlying contracts by the Financial Oversight and Management Board and P3A, if required. LUMA will be ready to proceed with construction or as soon thereafter as necessary supplies are available.

<u>FEMA Project #</u>	<u>Project Name</u>	<u>DSOW Submission</u>	<u>Construction Start Date*</u>	<u>Self-Performed Work</u>	<u>Obligated \$</u>
<u>165226</u>	<u>Vieques Feeders 2501-01, 2501-02, 2501-03 and Culebra Feeders 3801-01, 3801-02</u>	<u>Dec-22 (Completed)</u>	<u>Mar-24</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>334474</u>	<u>Distribution Feeder (Bayamón Short-Term Group 2)</u>	<u>Jun-23 (Completed)</u>	<u>Mar-24</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>334191</u>	<u>Distribution Feeder (Mayagüez Short Term Group 3)</u>	<u>Jun-23 (Completed)</u>	<u>May-24</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>334285</u>	<u>Distribution Feeder (Mayagüez Group 2)</u>	<u>Jun-23 (Completed)</u>	<u>Apr-24</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>334293</u>	<u>Distribution Feeder (Mayagüez Short-Term Group 4)</u>	<u>Jun-23 (Completed)</u>	<u>Apr-24</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>334308</u>	<u>Distribution Feeder (Mayagüez Group 1)</u>	<u>Jun-23 (Completed)</u>	<u>Apr-24</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>546374</u>	<u>Distribution Feeder (San Juan Group 3)</u>	<u>Aug-23 (Completed)</u>	<u>Apr-24</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>334452</u>	<u>Distribution Feeder (Caguas Group 3)</u>	<u>Sep-23 (Completed)</u>	<u>Oct-24</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>334472</u>	<u>Distribution Feeder (San Juan Group 2)</u>	<u>Sep-23 (Completed)</u>	<u>Mar-24</u>	<u>MCW</u>	<u>Pending obligation</u>

Distribution – Feeders (continued)

<u>FEMA Project #</u>	<u>Project Name</u>	<u>DSOW Submission Estimate</u>	<u>Construction Start Date*</u>	<u>Self-Performed Work</u>	<u>Obligated \$</u>
<u>334475</u>	<u>Distribution Feeder (Bayamón Group 3)</u>	<u>Sep-23 (Completed)</u>	<u>Mar-24</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>334477</u>	<u>Distribution Feeder (Carolina Group 3)</u>	<u>Sep-23 (Completed)</u>	<u>May-24</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>334491</u>	<u>Distribution Feeder (Caguas Group 5)</u>	<u>Sep-23 (Completed)</u>	<u>May-24</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>334497</u>	<u>Distribution Feeder (Caguas Group 6)</u>	<u>Sep-23 (Completed)</u>	<u>Apr-24</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>334518</u>	<u>Distribution Feeder (Caguas Group 7)</u>	<u>Sep-23 (Completed)</u>	<u>Oct-24</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>334420</u>	<u>Distribution Feeder (Caguas Group 1)</u>	<u>Sep-23</u>	<u>Apr-24</u>	<u>MCW</u>	<u>TBD</u>
<u>334443</u>	<u>Distribution Feeder (Caguas Group 2)</u>	<u>Sep-23</u>	<u>Sep-24</u>	<u>MCW</u>	<u>TBD</u>
<u>334471</u>	<u>Distribution Feeder (San Juan Group 1)</u>	<u>Sep-23</u>	<u>Apr-24</u>	<u>MCW</u>	<u>TBD</u>
<u>436616</u>	<u>Distribution Feeder (Arecibo Group 1)</u>	<u>Sep-23 (Completed)</u>	<u>Dec-24</u>	<u>MCW</u>	<u>Pending Obligation</u>
<u>546386</u>	<u>Distribution Feeder (El Yunque Group)</u>	<u>Sep-23</u>	<u>May-24</u>	<u>MCW</u>	<u>TBD</u>

Distribution – Feeders (continued)

<u>FEMA Project #</u>	<u>Project Name</u>	<u>DSOW Submission Estimate</u>	<u>Construction Start Date*</u>	<u>Self-Performed Work</u>	<u>Obligated \$</u>
<u>334473</u>	<u>Distribution Feeder (Bayamón Group 1)</u>	<u>Sep-23</u>	<u>Apr-24</u>	<u>MCW</u>	<u>TBD</u>
<u>730821</u>	<u>Distribution Feeder (Arecibo Group 2)</u>	<u>Sep-23</u>	<u>Apr-24</u>	<u>MCW</u>	<u>TBD</u>
<u>334476</u>	<u>Distribution Feeder (Carolina Group 2)</u>	<u>Sep-23</u>	<u>Jul-24</u>	<u>MCW</u>	<u>TBD</u>
<u>730586</u>	<u>Distribution Feeder (Ponce Group 1)</u>	<u>Sep-23</u>	<u>Apr-24</u>	<u>MCW</u>	<u>TBD</u>
<u>730824</u>	<u>Distribution Feeder (Ponce Group 2)</u>	<u>Sep-23</u>	<u>Jul-24</u>	<u>MCW</u>	<u>TBD</u>
<u>730513</u>	<u>Distribution Feeder (Caguas Group 4)</u>	<u>Sep-23</u>	<u>Jun-24</u>	<u>MCW</u>	<u>TBD</u>
<u>730541</u>	<u>Distribution Feeder (Caguas Group 8)</u>	<u>Sep-23</u>	<u>May-24</u>	<u>MCW</u>	<u>TBD</u>

Distribution – Pole Replacement

*Construction start dates assume timely FEMA obligation of the relevant DSOWs and approval of the underlying contracts by the Financial Oversight and Management Board and P3A, if required. LUMA will be ready to proceed with construction or as soon thereafter as necessary supplies are available.

<u>FEMA Project #</u>	<u>Project Name</u>	<u>DSOW Submission Estimate</u>	<u>Construction Start Date*</u>	<u>Self-Performed Work</u>	<u>Obligated \$</u>
<u>334323</u>	<u>Ponce Group 1</u>	Jan-22 (Completed)	Mar-22 (Started)	<u>MSPW</u>	<u>\$418,999</u>
<u>334329</u>	<u>Ponce Group 2</u>	Jan-22 (Completed)	Jun-23 (Started)	<u>MCW</u>	<u>\$405,783</u>
<u>542762</u>	<u>Arecibo Group 2</u>	Jan-22 (Completed)	Mar-22 (Completed)	<u>MSPW</u>	<u>\$818,662</u>
<u>334488</u>	<u>Caguas Group 4</u>	Feb-22 (Completed)	May-22 (Started)	<u>MCW</u>	<u>\$165,208</u>
<u>334527</u>	<u>Caguas Group 8</u>	Feb-22 (Completed)	Sep-22 (Completed)	<u>MSPW</u>	<u>\$117,387</u>
<u>673839</u>	<u>Bayamon Group 2</u>	May-22 (Completed)	Apr-23 (Completed)	<u>MSPW</u>	<u>\$36,451</u>
<u>674092</u>	<u>Caguas Group 5</u>	Jun-22 (Completed)	Jun-23 (Started)	<u>MSPW</u>	<u>\$614,309</u>
<u>674098</u>	<u>Caguas Group 7</u>	Jun-22 (Completed)	Feb-23 (Completed)	<u>MCW</u>	<u>\$124,271</u>
<u>673847</u>	<u>Carolina Group 2</u>	Jun-22 (Completed)	Mar-22 (Started)	<u>MSPW</u>	<u>\$277,756</u>

Distribution – Pole Replacement (continued)

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self- Performed Work	Obligated \$
<u>673848</u>	<u>Carolina Group 3</u>	Jun-22 (Completed)	Apr-22 (Started)	<u>MSPW</u>	<u>\$62,627</u>
<u>673774</u>	<u>Mayaguez Group 1</u>	Jun-22 (Completed)	Apr-22 (Started)	<u>MSPW</u>	<u>\$2,040,782</u>
<u>673795</u>	<u>Mayaguez Group 4</u>	Jun-22 (Completed)	Jun-23 (Started)	<u>MSPW</u>	<u>\$2,072,233</u>
<u>673818</u>	<u>San Juan Group 1</u>	Jun-22 (Completed)	Aug-22 (Started)	<u>MCW</u>	<u>\$914,461</u>
<u>673838</u>	<u>San Juan Group 2</u>	Jun-22 (Completed)	May-23 (Started)	<u>MCW</u>	<u>\$412,638</u>
<u>673771</u>	<u>Arecibo Group 1</u>	Jul-22 (Completed)	Nov-2022 (Started)	<u>MSPW</u>	<u>\$2,737,411</u>
<u>673836</u>	<u>Bayamon Group 1</u>	Jul-22 (Completed)	Jun-22 (Started)	<u>MCW</u>	<u>\$6,651,051</u>
<u>673843</u>	<u>Bayamon Group 3</u>	Jul-22 (Completed)	Feb-23 (Started)	<u>MCW</u>	<u>\$1,307,651</u>
<u>674072</u>	<u>Caguas Group 1</u>	Jul-22 (Completed)	Nov-22 (Started)	<u>MCW</u>	<u>\$1,282,680</u>
<u>674083</u>	<u>Caguas Group 2</u>	Jul-22 (Completed)	Nov-22 (Started)	<u>MCW</u>	<u>\$2,446,183</u>

Distribution – Pole Replacement (continued)

<u>FEMA Project #</u>	<u>Project Name</u>	<u>DSOW Submission Estimate</u>	<u>Construction Start Date*</u>	<u>Self-Performed Work</u>	<u>Obligated \$</u>
<u>674088</u>	<u>Caguas Group 3</u>	<u>Jul-22 (Completed)</u>	<u>May-22 (Started)</u>	<u>MCW</u>	<u>\$1,969,392</u>
<u>674096</u>	<u>Caguas Group 6</u>	<u>Jul-22 (Completed)</u>	<u>Feb-23 (Started)</u>	<u>CW/SPW</u>	<u>\$2,424,985</u>
<u>673772</u>	<u>Mayaguez Group 2</u>	<u>Jul-22 (Completed)</u>	<u>Mar-23 (Started)</u>	<u>MSPW</u>	<u>\$4,759,357</u>
<u>673775</u>	<u>Mayaguez Group 3</u>	<u>Jul-22 (Completed)</u>	<u>Jan-22 (Started)</u>	<u>MSPW</u>	<u>\$5,124,519</u>
673844	San Juan Group 3	<u>Jul-22 (Completed)</u>	<u>May-23 (Started)</u>	<u>MCW</u>	\$1,600,866
<u>678985</u>	<u>Bayamon Group 4</u>	<u>Aug-22 (Completed)</u>	<u>Mar-23 (Started)</u>	<u>MCW</u>	<u>\$474,861</u>
<u>679025</u>	<u>San Juan Group 4</u>	<u>Aug-22 (Completed)</u>	<u>Oct-23</u>	<u>MSPW</u>	<u>\$345,514</u>
<u>679033</u>	<u>Caguas Group 9</u>	<u>Aug-22 (Completed)</u>	<u>Apr-23 (Started)</u>	<u>MCW</u>	<u>\$1,049,570</u>
<u>679127</u>	<u>Arecibo Group 3</u>	<u>Aug-22 (Completed)</u>	<u>May-23 (Started)</u>	<u>MSPW</u>	<u>\$250,503</u>
<u>679149</u>	<u>Mayaguez Group 5</u>	<u>Aug-22 (Completed)</u>	<u>Aug-23 (Started)</u>	<u>MSPW</u>	<u>\$182,378</u>

Distribution – Pole Replacement (continued)

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
<u>679457</u>	<u>Ponce Group 3</u>	Aug-22 (Completed)	<u>Jun-23</u> (Started)	<u>MCW</u>	<u>\$861,874</u>
<u>678988</u>	<u>Bayamon Group 5</u>	Sept-22 (Completed)	Mar-23 (Started)	<u>MCW</u>	<u>\$1,293,228</u>
<u>679133</u>	<u>Arecibo Group 4</u>	Sept-22 (Completed)	<u>Oct-23</u>	<u>MSPW</u>	<u>\$25,440</u>
<u>679026</u>	<u>San Juan Group 5</u>	Sept-22 (Completed)	May-23 (Started)	<u>MSPW</u>	<u>\$683,747</u>
<u>679134</u>	<u>Caguas Group 10</u>	Sept-22 (Completed)	May-23 (Started)	<u>MCW</u>	<u>\$650,281</u>
<u>679153</u>	<u>Mayaguez Group 6</u>	Sept-22 (Completed)	May-23 (Started)	<u>MSPW</u>	<u>\$246,252</u>
<u>679458</u>	<u>Ponce Group 4</u>	Sept-22 (Completed)	<u>Jul-23</u> (Started)	<u>MCW</u>	<u>\$689,340</u>
<u>685477</u>	<u>Arecibo Group 6</u>	Nov-22 (Completed)	<u>Jun-23</u> (Started)	<u>MCW</u>	<u>\$480,605</u>
<u>682910</u>	<u>Bayamon Group 7</u>	Nov-22 (Completed)	Apr-23 (Started)	<u>MCW</u>	<u>\$722,052</u>
<u>682890</u>	<u>Caguas Group 12</u>	Nov-22 (Completed)	May-23 (Started)	<u>MCW</u>	<u>\$710,654</u>

Distribution – Pole Replacement (continued)

<u>FEMA Project #</u>	<u>Project Name</u>	<u>DSOW Submission Estimate</u>	<u>Construction Start Date*</u>	<u>Self-Performed Work</u>	<u>Obligated \$</u>
<u>685370</u>	<u>Mayaguez Group 8</u>	Nov-22 (Completed)	<u>Aug-23</u> (Started)	<u>MSPW</u>	<u>\$96,936</u>
<u>685263</u>	<u>Ponce Group 6</u>	Nov-22 (Completed)	<u>Jul-23</u> (Started)	<u>MCW</u>	<u>\$775,663</u>
<u>682865</u>	<u>San Juan Group 7</u>	Nov-22 (Completed)	<u>Aug-23</u> (Started)	<u>MCW</u>	<u>\$105,208</u>
<u>682135</u>	<u>Bayamon Group 8</u>	Nov-22 (Completed)	Feb-23 (Started)	<u>MCW</u>	<u>\$803,639</u>
<u>682324</u>	<u>Caguas Group 13</u>	Nov-22 (Completed)	<u>Apr-23</u> (Started)	<u>CW/SPW</u>	<u>\$819,846</u>
<u>682870</u>	<u>San Juan Group 6</u>	Nov-22 (Completed)	<u>Aug-23</u> (Started)	<u>MCW</u>	<u>\$120,130</u>
<u>682882</u>	<u>Caguas Group 11</u>	Nov-22 (Completed)	<u>Jan-23</u> (Started)	<u>MCW</u>	<u>\$763,393</u>
<u>682898</u>	<u>Bayamon Group 6</u>	Nov-22 (Completed)	Feb-23 (Started)	<u>MCW</u>	<u>\$864,311</u>
685943	Ponce Group 5	Nov-22 (Completed)	<u>Jul-23</u> (Started)	<u>MCW</u>	<u>\$368,007</u>
<u>686453</u>	<u>Mayaguez Group 7</u>	<u>Nov-22</u> (Completed)	<u>May-23</u> (Started)	<u>MSPW</u>	<u>\$29,638</u>

Distribution – Pole Replacement (continued)

<u>FEMA Project #</u>	<u>Project Name</u>	<u>DSOW Submission Estimate</u>	<u>Construction Start Date*</u>	<u>Self-Performed Work</u>	<u>Obligated \$</u>
<u>686471</u>	<u>Arecibo Group 5</u>	<u>Nov-22 (Completed)</u>	<u>Jun-23 (Started)</u>	<u>MCW</u>	<u>\$368,833</u>
<u>682178</u>	<u>Arecibo Group 7</u>	<u>Dec-22 (Completed)</u>	<u>Jul-23 (Started)</u>	<u>MSPW</u>	<u>\$303,240</u>
<u>682210</u>	<u>Mayaguez Group 9</u>	<u>Dec-22 (Completed)</u>	<u>May-23 (Started)</u>	<u>MSPW</u>	<u>\$278,096</u>
<u>686480</u>	<u>Ponce Group 7</u>	<u>Dec-22 (Completed)</u>	<u>May-23 (Started)</u>	<u>MSPW</u>	<u>\$733,415</u>
<u>682028</u>	<u>San Juan Group 8</u>	<u>Dec-22 (Completed)</u>	<u>Aug-23 (started)</u>	<u>MCW</u>	<u>\$620,946</u>
<u>682172</u>	<u>Arecibo Group 8</u>	<u>Dec-22 (Completed)</u>	<u>Jan-23 (Started)</u>	<u>MSPW</u>	<u>\$307,002</u>
<u>682136</u>	<u>Bayamon Group 9</u>	<u>Dec-22 (Completed)</u>	<u>Apr-23 (Started)</u>	<u>MCW</u>	<u>\$655,864</u>
<u>682373</u>	<u>Caquas Group 14</u>	<u>Dec-22 (Completed)</u>	<u>Jun-23 (Started)</u>	<u>MCW</u>	<u>\$90,344</u>
<u>682180</u>	<u>Mayaguez Group 10</u>	<u>Dec-22 (Completed)</u>	<u>Jan-23 (Started)</u>	<u>MSPW</u>	<u>\$62,816</u>
<u>682228</u>	<u>Ponce Group 8</u>	<u>Dec-22 (Completed)</u>	<u>May-23 (Started)</u>	<u>MSPW</u>	<u>\$1,103,445</u>

Distribution – Pole Replacement (continued)

<u>FEMA Project #</u>	<u>Project Name</u>	<u>DSOW Submission Estimate</u>	<u>Construction Start Date*</u>	<u>Self-Performed Work</u>	<u>Obligated \$</u>
<u>682031</u>	<u>San Juan Group 9</u>	<u>Dec-22 (Completed)</u>	<u>Sept-23</u>	<u>MCW</u>	<u>\$719,242</u>
<u>688627</u>	<u>Arecibo Group 9</u>	<u>Dec-22 (Completed)</u>	<u>May-23 (Started)</u>	<u>MSPW</u>	<u>\$434,881</u>
<u>688096</u>	<u>Caguas Group 15</u>	<u>Dec-22 (Completed)</u>	<u>Sept-23</u>	<u>MCW</u>	<u>\$31,408</u>
<u>688472</u>	<u>Mayaguez Group 11</u>	<u>Dec-22 (Completed)</u>	<u>Apr-23 (Started)</u>	<u>MSPW</u>	<u>\$209,817</u>
<u>688774</u>	<u>Ponce Group 9</u>	<u>Dec-22 (Completed)</u>	<u>May-23 (Started)</u>	<u>MSPW</u>	<u>\$628,534</u>
<u>691246</u>	<u>San Juan Group 10</u>	<u>Dec-22 (Completed)</u>	<u>Aug-23 (Started)</u>	<u>MCW</u>	<u>\$286,704</u>
<u>688109</u>	<u>San Juan Group 11</u>	<u>Dec-22 (Completed)</u>	<u>Aug-23 (Started)</u>	<u>MCW</u>	<u>\$650,873</u>
<u>688198</u>	<u>Arecibo Group 10</u>	<u>Dec-22 (Completed)</u>	<u>Sept-23</u>	<u>MSPW</u>	<u>\$88,915</u>
<u>688625</u>	<u>Ponce Group 10</u>	<u>Dec-22 (Completed)</u>	<u>Apr-23 (Started)</u>	<u>MSPW</u>	<u>\$1,040,648</u>
688629	Mayaguez Group 13	<u>Dec-22 (Completed)</u>	<u>May-23 (Started)</u>	<u>MSPW</u>	\$155,663

Distribution – Pole Replacement (continued)

<u>FEMA Project #</u>	<u>Project Name</u>	<u>DSOW Submission Estimate</u>	<u>Construction Start Date*</u>	<u>Self-Performed Work</u>	<u>Obligated \$</u>
<u>688630</u>	<u>Mayaguez Group 12</u>	<u>Dec-22 (Completed)</u>	<u>Sep-23</u>	<u>MSPW</u>	<u>\$61,046</u>
<u>689071</u>	<u>Arecibo Group 11</u>	<u>Dec-22 (Completed)</u>	<u>Jul-23 (Started)</u>	<u>MSPW</u>	<u>\$88,915</u>
<u>701679</u>	<u>San Juan Group 12</u>	<u>Dec-22 (Completed)</u>	<u>Oct-23</u>	<u>MCW</u>	<u>\$93,187</u>
<u>701545</u>	<u>Ponce Group 11</u>	<u>Dec-22 (Completed)</u>	<u>May-23 (Started)</u>	<u>MSPW</u>	<u>\$711,427</u>
<u>701555</u>	<u>Ponce Group 13</u>	<u>Jan-23 (Completed)</u>	<u>Jun-23 (Started)</u>	<u>MSPW</u>	<u>\$753,962</u>
<u>701552</u>	<u>Ponce Group 12</u>	<u>Jan-23 (Completed)</u>	<u>Apr-23 (Started)</u>	<u>MSPW</u>	<u>\$274,832</u>
<u>701495</u>	<u>Mayaguez Group 14</u>	<u>Jan-23 (Completed)</u>	<u>Apr-23 (Started)</u>	<u>MCW</u>	<u>\$29,638</u>
<u>701504</u>	<u>Arecibo Group 12</u>	<u>Jan-23 (Completed)</u>	<u>Jun-23 (Started)</u>	<u>MSPW</u>	<u>\$217,475</u>
<u>704916</u>	<u>Arecibo Group 13-16</u>	<u>Mar-23 (Completed)</u>	<u>May-23 (Started)</u>	<u>MSPW</u>	<u>\$353,725</u>
<u>704750</u>	<u>Bayamon Group 10</u>	<u>Mar-23 (Completed)</u>	<u>Jul-23 (Started)</u>	<u>MCW</u>	<u>\$671,139</u>

Distribution – Pole Replacement (continued)

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
<u>704751</u>	<u>Bayamon Group 11</u>	Mar-23 (Completed)	<u>Jul-23</u> (Started)	MCW	<u>\$501,335</u>
<u>704755</u>	<u>Bayamon Groups 12-14</u>	Mar-23 (Completed)	Oct-23	MCW	<u>\$607,843</u>
<u>704844</u>	<u>Caguas Groups 16-20</u>	Mar-23 (Completed)	<u>Jun-23</u> (Started)	MSPW	<u>\$471,788</u>
<u>705527</u>	<u>San Juan Groups 17-21</u>	Mar-23 (Completed)	Oct-23	MCW	<u>\$893,001</u>
<u>705503</u>	<u>Mayaguez Groups 15-19</u>	Apr-23 (Completed)	Oct-23	MSPW	Pending obligation
<u>705584</u>	<u>Ponce Groups 14-15</u>	Apr-23 (Completed)	Nov-23	MCW	<u>\$2,127,676</u>
<u>704933</u>	<u>San Juan Groups 13-16</u>	Apr-23 (Completed)	Oct-23	MCW	<u>\$1,657,406</u>
<u>708579</u>	<u>Ponce Groups 16-19</u>	Apr-23 (Completed)	Nov-23	MCW	Pending obligation
<u>710094</u>	<u>Bayamon Group 1 (Phase II)</u>	Aug-23 (Completed)	Nov-23	MCW	Pending obligation
<u>710110</u>	<u>Bayamon Group 2 (Phase II)</u>	Aug-23 (Completed)	Nov-23	MCW	Pending obligation

Distribution – Pole Replacement (continued)

<u>FEMA Project #</u>	<u>Project Name</u>	<u>DSOW Submission Estimate</u>	<u>Construction Start Date*</u>	<u>Self-Performed Work</u>	<u>Obligated \$</u>
<u>710099</u>	<u>Arecibo Group 1 (Phase II)</u>	<u>Sep-23</u>	<u>Dec-23</u>	<u>MCW</u>	<u>TBD</u>
<u>711888</u>	<u>Caguas Group 1 (Phase II)</u>	<u>Sep-23</u>	<u>Dec-23</u>	<u>MCW</u>	<u>TBD</u>
<u>711856</u>	<u>Bayamon Group 3 (Phase II)</u>	<u>Oct-23</u>	<u>Jan-24</u>	<u>MCW</u>	<u>TBD</u>
<u>712968</u>	<u>Arecibo Group 2 (Phase II)</u>	<u>Oct-23</u>	<u>Jan-24</u>	<u>MCW</u>	<u>TBD</u>
<u>TBD</u>	<u>Carolina Group 1 (Phase II)</u>	<u>Nov-23</u>	<u>Feb-24</u>	<u>MCW</u>	<u>TBD</u>
<u>TBD</u>	<u>Caguas Group 2 (Phase II)</u>	<u>Nov-23</u>	<u>Feb-24</u>	<u>MCW</u>	<u>TBD</u>
<u>TBD</u>	<u>Mayaguez Group 1 (Phase II)</u>	<u>Nov-23</u>	<u>Feb-24</u>	<u>MCW</u>	<u>TBD</u>
<u>TBD</u>	<u>San Juan Group 2 (Phase II)</u>	<u>Dec-23</u>	<u>Mar-24</u>	<u>MCW</u>	<u>TBD</u>
<u>TBD</u>	<u>Ponce Group 1 (Phase II)</u>	<u>Dec-23</u>	<u>Mar-24</u>	<u>MCW</u>	<u>TBD</u>
<u>TBD</u>	<u>San Juan Group 1 (Phase II)</u>	<u>Dec-23</u>	<u>Mar-24</u>	<u>MCW</u>	<u>TBD</u>

Distribution – Streetlighting

*Construction start dates assume timely FEMA obligation of the relevant DSOWs and approval of the underlying contracts by the Financial Oversight and Management Board and P3A, if required. LUMA will be ready to proceed with construction or as soon thereafter as necessary supplies are available.

<u>FEMA Project #</u>	<u>Project Name</u>	<u>DSOW Submission Estimate</u>	<u>Construction Start Estimate*</u>	<u>Self-Performed Work</u>	<u>Obligated \$</u>
<u>542690</u>	<u>Maunabo Streetlighting</u>	<u>Feb-22 (Completed)</u>	<u>Jun-22 (Started)</u>	<u>MCW</u>	<u>\$7,974,197</u>
<u>542756</u>	<u>Guánica Streetlighting</u>	<u>Mar-22 (Completed)</u>	<u>Aug-22 (Started)</u>	<u>MCW</u>	<u>\$12,295,431</u>
<u>542687</u>	<u>Lajas Streetlighting</u>	<u>Mar-22 (Completed)</u>	<u>Jul-22 (Started)</u>	<u>MCW</u>	<u>\$13,217,521</u>
<u>542688</u>	<u>Aguada Streetlighting</u>	<u>Mar-22 (Completed)</u>	<u>Jun-22 (Started)</u>	<u>MCW</u>	<u>\$22,676,501</u>
<u>542517</u>	<u>Luquillo Streetlighting</u>	<u>Mar-22 (Completed)</u>	<u>Jun-22 (Started)</u>	<u>MCW</u>	<u>\$707,494</u>
<u>660437</u>	<u>Manati Streetlight</u>	<u>Jul-22 (Completed)</u>	<u>Nov-22 (Started)</u>	<u>MCW</u>	<u>\$34,458,465</u>
<u>659715</u>	<u>Aibonito Streetlighting</u>	<u>Jul-22 (Completed)</u>	<u>Nov-22 (Started)</u>	<u>MCW</u>	<u>\$9,134,158</u>
<u>659623</u>	<u>Cataño Streetlighting</u>	<u>Jul-22 (Completed)</u>	<u>Nov-22 (Started)</u>	<u>MCW</u>	<u>\$21,136,810</u>
<u>660239</u>	<u>Villalba Streetlighting</u>	<u>Jul-22 (Completed)</u>	<u>Oct-22 (Started)</u>	<u>MCW</u>	<u>\$13,503,120</u>
<u>660227</u>	<u>Hatillo Streetlighting</u>	<u>Aug-22 (Completed)</u>	<u>Nov-22 (Started)</u>	<u>MCW</u>	<u>\$24,652,343</u>
<u>659625</u>	<u>Dorado Streetlighting</u>	<u>Aug-22 (Completed)</u>	<u>Nov-22 (Started)</u>	<u>MCW</u>	<u>\$29,087,211</u>
<u>673504</u>	<u>Gurabo Streetlighting</u>	<u>Feb-23 (Completed)</u>	<u>Mar-23 (Started)</u>	<u>MCW</u>	<u>\$23,785,969</u>

Distribution – Streetlighting (continued)

<u>FEMA Project #</u>	<u>Project Name</u>	<u>DSOW Submission Estimate</u>	<u>Construction Start Estimate*</u>	<u>Self-Performed Work</u>	<u>Obligated \$</u>
<u>698424</u>	<u>Florida Streetlighting</u>	<u>Mar-23 (Completed)</u>	<u>Apr-23 (Started)</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>691702</u>	<u>Trujillo Alto Streetlighting</u>	<u>Mar-23 (Completed)</u>	<u>Apr-23 (Started)</u>	<u>MCW</u>	<u>\$29,676,415</u>
<u>690545</u>	<u>Aguadilla Streetlighting</u>	<u>Mar-23 (Completed)</u>	<u>May-23 (Started)</u>	<u>MCW</u>	<u>\$24,113,826</u>
<u>679039</u>	<u>Caguas Streetlighting</u>	<u>Mar-23 (Completed)</u>	<u>May-23 (Started)</u>	<u>MCW</u>	<u>\$84,121,466</u>
<u>659968</u>	<u>San Germán Streetlighting</u>	<u>Mar-23 (Completed)</u>	<u>May-23 (Started)</u>	<u>MCW</u>	<u>\$39,502,133</u>
<u>698439</u>	<u>Las Marías Streetlighting</u>	<u>Jun-23 (Completed)</u>	<u>May-23 (Started)</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>698458</u>	<u>Guaynabo Streetlighting</u>	<u>Jun-23 (Completed)</u>	<u>Jun-23 (Started)</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>698427</u>	<u>Maricao Streetlighting</u>	<u>Jun-23 (Completed)</u>	<u>Jun-23 (Started)</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>678795</u>	<u>Arecibo Streetlighting</u>	<u>Jun-23 (Completed)</u>	<u>Jun-23 (Started)</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>678793</u>	<u>Mayagüez Streetlighting</u>	<u>Jun-23 (Completed)</u>	<u>Jun-23 (Started)</u>	<u>MCW</u>	<u>Pending obligation</u>

Distribution – Streetlighting (continued)

<u>FEMA Project #</u>	<u>Project Name</u>	<u>DSOW Submission Estimate</u>	<u>Construction Start Estimate*</u>	<u>Self-Performed Work</u>	<u>Obligated \$</u>
<u>671400</u>	<u>Barceloneta Streetlighting</u>	<u>Jun-23 (Completed)</u>	<u>Jun-23 (Started)</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>666894</u>	<u>San Juan Streetlighting</u>	<u>Jun-23 (Completed)</u>	<u>Jun-23 (Started)</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>671502</u>	<u>Yabucoa Streetlighting</u>	<u>Jun-23 (Completed)</u>	<u>Jul-23 (Started)</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>698432</u>	<u>Hormigueros Streetlighting</u>	<u>Jun-23 (Completed)</u>	<u>Aug-23 (Started)</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>678789</u>	<u>Carolina Streetlighting</u>	<u>Jun-23 (Completed)</u>	<u>Aug-23 (Started)</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>690721</u>	<u>Guayama Streetlighting</u>	<u>Jun-23 (Completed)</u>	<u>Oct-23</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>678794</u>	<u>Ponce Streetlighting</u>	<u>Jun-23 (Completed)</u>	<u>Oct-23</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>671396</u>	<u>Utua Streetlighting</u>	<u>Jun-23 (Completed)</u>	<u>Oct-23</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>704679</u>	<u>Coamo Streetlighting</u>	<u>Jun-23 (Completed)</u>	<u>Aug-23</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>693788</u>	<u>Toa Alta Streetlighting</u>	<u>Aug-23 (Completed)</u>	<u>Sep-23 (Started)</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>698570</u>	<u>Corozal Streetlighting</u>	<u>Aug-23 (Completed)</u>	<u>Sep-23 (Started)</u>	<u>MCW</u>	<u>Pending obligation</u>

Distribution – Streetlighting (continued)

<u>FEMA Project #</u>	<u>Project Name</u>	<u>DSOW Submission Estimate</u>	<u>Construction Start Estimate*</u>	<u>Self-Performed Work</u>	<u>Obligated \$</u>
<u>690483</u>	<u>Cayey Streetlighting</u>	<u>Aug-23 (Completed)</u>	<u>Sep-23 (Started)</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>679780</u>	<u>Bayamon Streetlighting</u>	<u>Aug-23 (Completed)</u>	<u>Dec-23</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>699814</u>	<u>Juana Diaz Streetlighting</u>	<u>Sep-23</u>	<u>Dec-23</u>	<u>MCW</u>	<u>TBD</u>
<u>686482</u>	<u>Isabela Streetlighting</u>	<u>Sep-23</u>	<u>Nov-23</u>	<u>MCW</u>	<u>TBD</u>
<u>701473</u>	<u>Canovanas Streetlighting</u>	<u>Sep-23</u>	<u>Dec-23</u>	<u>MCW</u>	<u>TBD</u>
<u>698522</u>	<u>Vieques Streetlighting</u>	<u>Sep-23</u>	<u>Feb-24</u>	<u>MCW</u>	<u>TBD</u>
<u>690480</u>	<u>Humacao Streetlighting</u>	<u>Sept-23</u>	<u>Feb-24</u>	<u>MCW</u>	<u>TBD</u>
<u>693615</u>	<u>Rio Grande Streetlighting</u>	<u>Sept-23</u>	<u>Nov-23</u>	<u>MCW</u>	<u>TBD</u>
<u>703535</u>	<u>Toa Baja Streetlighting</u>	<u>Oct-23</u>	<u>Jan-24</u>	<u>MCW</u>	<u>TBD</u>

Distribution – Streetlighting (continued)

<u>FEMA Project #</u>	<u>Project Name</u>	<u>DSOW Submission Estimate</u>	<u>Construction Start Estimate*</u>	<u>Self-Performed Work</u>	<u>Obligated \$</u>
<u>693543</u>	<u>Juncos Streetlighting</u>	<u>Oct-23</u>	<u>Mar-24</u>	<u>MCW</u>	<u>TBD</u>
<u>704744</u>	<u>San Sebastian Streetlighting</u>	<u>Oct-23</u>	<u>Feb-24</u>	<u>MCW</u>	<u>TBD</u>
<u>704931</u>	<u>Camuy Streetlighting</u>	<u>Oct-23</u>	<u>Feb-24</u>	<u>MCW</u>	<u>TBD</u>
<u>714641</u>	<u>Rincón Streetlighting</u>	<u>Oct-23</u>	<u>May-24</u>	<u>MCW</u>	<u>TBD</u>
<u>704757</u>	<u>Santa Isabel Streetlighting</u>	<u>Oct-23</u>	<u>May-24</u>	<u>MCW</u>	<u>TBD</u>
<u>698579</u>	<u>Orocovis Streetlighting</u>	<u>Nov-23</u>	<u>Jun-24</u>	<u>MCW</u>	<u>TBD</u>
<u>704938</u>	<u>Las Piedras Streetlighting</u>	<u>Nov-23</u>	<u>May-24</u>	<u>MCW</u>	<u>TBD</u>
<u>713795</u>	<u>Lares Streetlighting</u>	<u>Nov-23</u>	<u>Jun-24</u>	<u>MCW</u>	<u>TBD</u>
<u>704929</u>	<u>San Lorenzo Streetlighting</u>	<u>Nov-23</u>	<u>Mar-24</u>	<u>MCW</u>	<u>TBD</u>

Distribution – Streetlighting (continued)

<u>FEMA Project #</u>	<u>Project Name</u>	<u>DSOW Submission Estimate</u>	<u>Construction Start Estimate*</u>	<u>Self-Performed Work</u>	<u>Obligated \$</u>
<u>698511</u>	<u>Culebra Streetlighting</u>	<u>Nov-23</u>	<u>May-24</u>	<u>MCW</u>	<u>TBD</u>
<u>709631</u>	<u>Morovis Streetlighting</u>	<u>Nov-23</u>	<u>May-24</u>	<u>MCW</u>	<u>TBD</u>
<u>704943</u>	<u>Naranjito Streetlighting</u>	<u>Dec-23</u>	<u>May-24</u>	<u>MCW</u>	<u>TBD</u>
<u>697183</u>	<u>Vega Baja Streetlighting</u>	<u>Dec-23</u>	<u>Mar-24</u>	<u>MCW</u>	<u>TBD</u>
<u>704849</u>	<u>Naguabo Streetlighting</u>	<u>Dec-23</u>	<u>Jul-24</u>	<u>MCW</u>	<u>TBD</u>
<u>724703</u>	<u>Arroyo Streetlighting</u>	<u>Dec-23</u>	<u>Jun-24</u>	<u>MCW</u>	<u>TBD</u>
<u>704868</u>	<u>Ceiba Streetlighting</u>	<u>Dec-23</u>	<u>May-24</u>	<u>MCW</u>	<u>TBD</u>

IT & Telecom

*Construction start dates assume timely FEMA obligation of the relevant DSOWs and approval of the underlying contracts by the Financial Oversight and Management Board and P3A, if required. LUMA will be ready to proceed with construction or as soon thereafter as necessary supplies are available.

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Estimate*	Self-Performed Work	Obligated \$
551925	<u>SCADA Remote Access and RTU Replacements (Group 1)</u>	Jul-22 (Completed)	<u>Dec-23</u>	MCW	<u>Pending obligation</u>
657300	<u>Energy Management System (Phase I)</u>	Aug-22 (Completed)	Aug-23 (Started)	CW/SPW	\$44,047,335
675345	IT OT Technology Systems Repairs	Mar-23 (Completed)	<u>Jan-24</u>	MCW	<u>Pending obligation</u>
668665	<u>Cybersecurity Program Implementation</u>	June 23 (Completed)	<u>Jan-24</u>	MCW	TBD
714654	<u>Advanced Metering Infrastructure (AMI)</u>	Jul-23 (Completed)	<u>Apr-24</u>	MCW	<u>Pending obligation</u>
551963	<u>Transport Network</u>	Jul-23 (Completed)	<u>Sep-24</u>	MCW	<u>Pending obligation</u>
662238	<u>Microwave PTP Backbone</u>	Jul-23 (Completed)	<u>Apr-24</u>	MCW	<u>Pending obligation</u>
551926	<u>SCADA Remote Access and RTU Replacements (Group 2)</u>	Sep-23	<u>Apr-24</u>	MSPW	TBD
673292	<u>Telecom Infrastructure Cerro Puntas</u>	Sep-23	<u>Jan-24</u>	MCW	TBD
551927	<u>SCADA Remote Access and RTU Replacements (Group 3)</u>	Oct-23	<u>Jul-24</u>	MSPW	TBD
675406	<u>LMR 2-Way Radio</u>	Oct-23	<u>May-24</u>	MCW	TBD
682331	<u>RTU & Telecom Replacement - Mayaguez</u>	Nov-23	<u>Jan-24</u>	MCW	TBD

Buildings and Systems

*Construction start dates assume timely FEMA obligation of the relevant DSOWs and approval of the underlying contracts by the Financial Oversight and Management Board and P3A, if required. LUMA will be ready to proceed with construction or as soon thereafter as necessary supplies are available.

<u>FEMA Project #</u>	<u>Project Name</u>	<u>DSOW Submission Estimate</u>	<u>Construction Start Date*</u>	<u>Self-Performed Work</u>	<u>Obligated \$</u>
<u>679006</u>	<u>Test and Technology Laboratory (Equipment)</u>	<u>Nov-22 (Completed)</u>	<u>Apr-24</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>657300</u>	<u>Energy Management System (Phase II Primary Control Center - PCC)</u>	<u>Jun-23 (Submitted)</u>	<u>Dec-24</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>169576</u>	<u>Arecibo Regional Office Building</u>	<u>Nov-23</u>	<u>Mar-25</u>	<u>MCW</u>	<u>TBD</u>
<u>169798</u>	<u>Arecibo Electric Service Center</u>	<u>Nov-23</u>	<u>Mar-25</u>	<u>MCW</u>	<u>TBD</u>
<u>551247</u>	<u>Palo Seco South Building Repairs</u>	<u>Nov-23</u>	<u>May-25</u>	<u>MCW</u>	<u>TBD</u>

Vegetation

*Construction start dates assume timely FEMA obligation of the relevant DSOWs and approval of the underlying contracts by the Financial Oversight and Management Board and P3A, if required. LUMA will be ready to proceed with construction or as soon thereafter as necessary supplies are available.

<u>FEMA Project #</u>	<u>Project Name</u>	<u>DSOW Submission Estimate</u>	<u>Construction Start Date*</u>	<u>Self-Performed Work</u>	<u>Obligated \$</u>
<u>723883</u>	<u>Islandwide Vegetation Clearing: Region 1 San Juan Distribution – Group A</u>	<u>Jun-23 (initial submission)</u> <u>Jul-23 (revised submission)</u>	<u>Dec-23</u>	<u>MCW</u>	<u>Pending Obligation</u>
<u>727691</u>	<u>Islandwide Vegetation Clearing: Region 1 San Juan Transmission/Distribution – 38 kV and below – Group B</u>	<u>Jul-23 (Submitted)</u>	<u>Jun-24</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>727608</u>	<u>Islandwide Vegetation Clearing: Region 1 San Juan Transmission – 115 kV</u>	<u>Jul-23 (Submitted)</u>	<u>Jun-25</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>728827</u>	<u>Islandwide Vegetation Clearing: Region 2 Arecibo Distribution – Group A</u>	<u>Jul-23 (Submitted)</u>	<u>Mar-24</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>727540</u>	<u>Islandwide Vegetation Clearing: Region 2 Arecibo Transmission/Distribution – 38 kV and below – Group B</u>	<u>Jul-23 (Submitted)</u>	<u>Jun-24</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>727659</u>	<u>Islandwide Vegetation Clearing: Region 2 Arecibo Transmission – 115 kV</u>	<u>Jul-23 (Submitted)</u>	<u>Jun-25</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>727522</u>	<u>Islandwide Vegetation Clearing: Region 3 Bayamon Distribution – Group A</u>	<u>Jul-23 (Submitted)</u>	<u>Mar-24</u>	<u>MCW</u>	<u>Pending obligation</u>

<u>FEMA Project #</u>	<u>Project Name</u>	<u>DSOW Submission Estimate</u>	<u>Construction Start Date*</u>	<u>Self-Performed Work</u>	<u>Obligated \$</u>
<u>727572</u>	<u>Islandwide Vegetation Clearing: Region 3 Bayamon Transmission/Distribution – 38 kV and below – Group B</u>	<u>Jul-23 (Submitted)</u>	<u>Jun-24</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>727558</u>	<u>Islandwide Vegetation Clearing: Region 3 Bayamon Transmission – 115 kV</u>	<u>Jul-23 (Submitted)</u>	<u>Jun-25</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>727692</u>	<u>Islandwide Vegetation Clearing: Region 4 Caguas Distribution – Group A</u>	<u>Jul-23 (Submitted)</u>	<u>Mar-24</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>727694</u>	<u>Island Wide Vegetation Clearing: Region 4 Caguas Transmission/Distribution – 38 kV and below – Group B</u>	<u>Jul-23 (Submitted)</u>	<u>Jun-24</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>727606</u>	<u>Islandwide Vegetation Clearing: Region 4 Caguas Transmission – 115 kV</u>	<u>Jul-23 (Submitted)</u>	<u>Jun-25</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>728832</u>	<u>Islandwide Vegetation Clearing: Region 5 Mayaguez Distribution – Group A</u>	<u>Jul-23 (Submitted)</u>	<u>Mar-24</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>727562</u>	<u>Islandwide Vegetation Clearing: Region 5 Mayaguez Transmission/Distribution – 38 kV and below – Group B</u>	<u>Jul-23 (Submitted)</u>	<u>Jun-24</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>727657</u>	<u>Islandwide Vegetation Clearing: Region 5 Mayaguez Transmission – 115 kV</u>	<u>Jul-23 (Submitted)</u>	<u>Jun-25</u>	<u>MCW</u>	<u>Pending obligation</u>

<u>FEMA Project #</u>	<u>Project Name</u>	<u>DSOW Submission Estimate</u>	<u>Construction Start Date*</u>	<u>Self-Performed Work</u>	<u>Obligated \$</u>
<u>727531</u>	<u>Islandwide Vegetation Clearing: Region 6 Ponce Distribution – Group A</u>	<u>Jul-23 (Submitted)</u>	<u>Mar-24</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>727530</u>	<u>Islandwide Vegetation Clearing: Region 6 Ponce Transmission/Distribution – 38 kV and below – Group B</u>	<u>Jul-23 (Submitted)</u>	<u>Jun-24</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>727529</u>	<u>Islandwide Vegetation Clearing: Region 6 Ponce Transmission – 115 kV</u>	<u>Jul-23 (Submitted)</u>	<u>Jun-25</u>	<u>MCW</u>	<u>Pending obligation</u>
<u>TBD</u>	<u>Islandwide Vegetation Clearing: 230 kV Transmission</u>	<u>Sep-23</u>	<u>Jul-26</u>	<u>MCW</u>	<u>TBD</u>
<u>TBD</u>	<u>Islandwide Vegetation Clearing: Region 1 San Juan Substations & Telecommunications Sites</u>	<u>Sep-23</u>	<u>Aug-26</u>	<u>MCW</u>	<u>TBD</u>
<u>TBD</u>	<u>Islandwide Vegetation Clearing: Region 2 Arecibo Substations & Telecommunications Sites</u>	<u>Sep-23</u>	<u>Aug-26</u>	<u>MCW</u>	<u>TBD</u>
<u>TBD</u>	<u>Islandwide Vegetation Clearing: Region 3 Bayamon Substations & Telecommunications Sites</u>	<u>Sep-23</u>	<u>Aug-26</u>	<u>MCW</u>	<u>TBD</u>
<u>TBD</u>	<u>Islandwide Vegetation Clearing: Region 4 Caguas Substations & Telecommunications Sites</u>	<u>Sep-23</u>	<u>Aug-26</u>	<u>MCW</u>	<u>TBD</u>

FEMA Project #	Project Name	DSOW Submission Estimate	Construction Start Date*	Self-Performed Work	Obligated \$
TBD	<u>Islandwide Vegetation Clearing: Region 5 Mayaguez Substations & Telecommunications Sites</u>	<u>Sep-23</u>	<u>Aug-26</u>	MCW	<u>TBD</u>
<u>TBD</u>	<u>Islandwide Vegetation Clearing: Region 6 Ponce Substations & Telecommunications Sites</u>	<u>Sep-23</u>	<u>Aug-26</u>	MCW	<u>TBD</u>

IV. Self-Performing Work

LUMA will continue to execute self-performing work in the following categories:

- Pole/conductor replacements
- Structure replacements
- Hardware/insulator replacements
- Streetlights
- Substation, feeder, and line minor repairs
- Communication network and grid automation
- Equipment replacements
- Civil and low-voltage work to support projects

We will continue to refine this section in collaboration with P3A as we move forward.