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

### 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: Motion Submitting FEMA Approval of Project and Requesting Subject Matter of this Proceeding be Expanded

## MOTION SUBMITTING FEMA APPROVAL OF PROJECT AND REQUESTING SUBJECT MATTER OF THIS PROCEEDING BE EXPANDED

### TO THE PUERTO RICO ENERGY BUREAU:

COME NOW LUMA Energy, LLC<sup>1</sup>, and LUMA Energy ServCo, LLC<sup>2</sup>, (jointly referred to as "LUMA"), through the undersigned legal counsel and respectfully submit the following:

### I. FEMA Approval of Transmission and Distribution Project.

1. On March 26, 2021, this Honorable Puerto Rico Energy Bureau ("Energy Bureau") issued a Resolution and Order in the instant proceeding, ordering, in pertinent part, that the Puerto Rico Electric Power Authority ("PREPA") submit to the Energy Bureau the specific projects to be funded with Federal Emergency Management Agency ("FEMA") funds or any other federal funds at least thirty (30) calendar days prior to submitting these projects to the Puerto Rico Central Office for Recovery, Reconstruction and Resiliency ("COR-3"), FEMA or any other federal agency ("March 26<sup>th</sup> Order"). It also directed PREPA to continue reporting to the Energy Bureau and

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

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

FEMA within the next five years, the progress of all ongoing efforts related to the approval of the submitted projects not yet approved by the Energy Bureau. This Energy Bureau thereafter determined this directive applied to PREPA and LUMA. *See* Resolution and Order of August 20, 2021.

- 2. Meanwhile, on July 2, 2021, the Energy Bureau issued a Resolution and Order granting a request by LUMA to hold a conference on this proceeding. The Energy Bureau convened a Technical Conference on July 12, 2021, to discuss the streamlining in the submittal of Scopes of Work ("SOW") and other information requested for their evaluation.
- 3. During the July 12<sup>th</sup> Conference, LUMA described the process for review, approval, and oversight of activities related to federally funded Transmission and Distribution Projects ("T&D Projects") by the Energy Bureau, COR-3, and FEMA. It proposed establishing a systematic, efficient, and practical approach for all submissions and subsequent review and approval processes. LUMA identified the following four major stages of the process: Project Definition Phase, Approval Phase, Development Phase, and Detailed Engineering and Execution Phase.
- 4. During the Project Definition Phase, LUMA prepares an initial SOW with the basic project information sufficient to meet the COR-3/FEMA requirements for the assignment of a FEMA FAASt number. Next, during the Approval Phase, LUMA submits the initial SOW to the Energy Bureau for approval before submittal to COR-3/FEMA; if the Energy Bureau approves it, LUMA submits the SOW to COR-3/FEMA for FEMA FAASt number assignment. After receiving an assigned FEMA FAASt number, the project enters the Development Phase. The necessary engineering design work is conducted to develop a detailed SOW, further refining the

project's scope, cost, and schedule and providing the requisite guidance to enable procurement activities. This detailed SOW is then submitted to COR-3/FEMA for review and approval so that the project may proceed to the next phase. The last phase is the Detailed Engineering and Execution Phase, in which detailed engineering, permitting, and procurement activities are undertaken, followed by project field execution.

- 5. It must be noted that the scope of a project finally approved by COR-3/FEMA may be different from the scope of the initial SOW for the project in that the approved project may be limited in scope by only addressing part of the initial SOW while other parts of the initial SOW will be addressed in future COR-3/FEMA approvals. For example, an initial SOW may cover an entire program, while the approved project may be for implementing this program in a specific geographic region.
- 6. On August 30, 2021, LUMA filed a *Request for Clarification of a Portion of the Energy Bureau's Resolution and Order entered on August 20, 2021, and Submission of Updated List of Projects and Twenty-Nine Scopes of Work.* Therein, LUMA submitted twenty-nine (29) SOWs for T&D Projects for its review and approval prior to submitting them to COR-3 and FEMA ("August 30<sup>th</sup> Submission"). Among the SOWs submitted to this Energy Bureau was the Distribution Streetlighting T&D Project, which encompassed street lighting projects throughout different municipalities of Puerto Rico.
- 7. On September 22, 2021, the Energy Bureau entered a Resolution and Order in which it determined that the majority of the twenty-nine (29) SOWs for T&D projects submitted by LUMA were necessary to improve the system's reliability ("September 22<sup>nd</sup> Order"). Therefore, it approved the majority of the projects presented in the August 30<sup>th</sup> Submission,

including the Distribution Streetlighting T&D Project SOW. Further, the Energy Bureau ordered LUMA to submit a copy of the approval by COR3 and/or FEMA of the approved projects, which shall contain the costs obligated for each project within ten (10) days of receiving such approval.

8. In compliance with the September 22<sup>nd</sup> Order, LUMA hereby submits copies of the two approvals by FEMA of the Distribution Streetlighting T&D projects for the municipalities of Aguada and Maunabo received on May 5th, 2022.<sup>3</sup> *See* Exhibit 1 to this Motion. The documents state FEMA's approval and include the cost obligated for each project. LUMA would like to acknowledge that the approval for Distribution Streetlighting in Maunabo erroneously includes a completion date of March 21, 2019. LUMA is working to have that updated with COR3 and/or FEMA.

### II. Request for Subject Matter of This Instant Proceeding to Be Expanded.

9. In addition to the above, LUMA would like to bring to the Bureau's attention that this proceeding was initially commenced to evaluate the alignment of the 10-Year Infrastructure Plan with the Approved Integrated Resource Plan ("IRP") and Modified Action Plan. However, its subject matter has been expanded. It now encompasses reviewing any project for which federal funding will be requested from FEMA or another federal agency. For example, the March 26<sup>th</sup> Order requires PREPA [and LUMA] to submit to the Energy Bureau at least thirty (30) calendar days prior to its submittal to COR-3 each new capital investment project. For projects to be funded with FEMA funds and/or other federal funds, PREPA and LUMA have to submit the specific projects to the Energy Bureau at least thirty (30) calendar days prior to its submittal to COR-3,

<sup>&</sup>lt;sup>3</sup> It is important to note that any FEMA approval for a T&D Project is known when FEMA makes the information available via its grants portal. The FEMA approval is made public to anyone with an account to access the grants portal.

FEMA and/or any other federal agency. Therefore, the projects that this Energy Bureau may evaluate are not circumscribed to the 10-Year Infrastructure Plan. Instead, this Energy Bureau may approve projects beyond those described in the 10-Year Infrastructure Plan so long as these projects are aligned with the Approved IRP and Modified Action Plan.

10. In view of the foregoing, LUMA respectfully requests this Energy Bureau that the expanded scope of this proceeding be reflected in the subject of the docket itself. This change will also allow the public and any other interested stakeholders to navigate the Energy Bureau's website more easily to find the Federal Funding docket should they be interested in observing LUMA's or PREPA's federal funding activities.

WHEREFORE, LUMA respectfully requests that the Energy Bureau take notice of the aforementioned, accept the copies of the FEMA approvals attached herein as Exhibit 1, and grant LUMA's request to rename the subject matter of this proceeding reflect that it encompasses the approval of any federally funded project.

### RESPECTFULLY SUBMITTED.

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

In San Juan, Puerto Rico, this 9th day of May 2022.



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

500 Calle de la Tanca, Suite 401 San Juan, PR 00901-1969 Tel. 787-945-9132 Fax 939-697-6102

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

### Exhibit 1

FEMA Approvals

### Department of Homeland Security **Federal Emergency Management Agency**

### **General Info**

**Project Size** 

Project # 542688 PW# 10539 **Project Type** Specialized

**Project Category** F - Utilities **Applicant** PR Electric Power Authority (000-UA2QU-

**Project Title** FAASt Aguada Streetlighting (Distribution) **Event** 4339DR-PR (4339DR)

> **Declaration Date** 9/21/2017 9/20/2027

Activity Incident Start Date 9/17/2017 **Completion Date** 

Incident End Date 11/15/2017 **Process Step** Obligated

### **Damage Description and Dimensions**

Large

The Disaster # 4339DR, which occurred between 09/17/2017 and 11/15/2017, caused:

### Damage #788183; FAASt Aguada Distribution Streetlighting

DDD for this facility codified in the 136271 - MEPA078 Puerto Rico Electrical Power Authority Island Wide FAASt Project.

### **General Facility Information:**

- Facility Type: Power generation, transmission, and distribution facilities
- Facility: Aguada Distribution Streetlighting
- Facility Description: The Aguada municipality has a total of 6155 luminaries of which damage was estimated for 70% of these luminaries. Additional descriptions of typical components of a streetlight system are described below: • Pole – This can be either a standalone structure intended to house a streetlight, or a utility pole shared with other overhead utilities • Arm – A piece of hardware affixed to a pole to which a luminaire is mounted. The arm serves to position the streetlight over the street for optimal lighting • Luminaire/Light Bulb - The light emitting part of a streetlight • Light controller (e.g., photocell) - A hardware device affixed to the luminaire which controls the operating mode • Communication network – A wired or wireless system that allows the smart streetlight to communicate with other devices and the control system • Technology control system – A software platform that allows a remote operator to set the operating parameters for the smart streetlight or manually override the parameter if needed
- Approx. Year Built: 1970
- Location Description: Please refer to "788183-DR4339PR-FEMA Project Scope of Work Aguada.pdf" for more details about all sites location.
- GPS Latitude/Longitude: 18.37811, -67.18428

### **General Damage Information:**

- Date Damaged: 9/20/2017
- Cause of Damage: High winds & wind driven rain, caused by Cat 4 Hurricane Maria

### **Final Scope**

788183 **FAASt Aguada Distribution Streetlighting** 

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Introduction

The purpose of this document is to submit for approval the Detailed Scope of Work (SOW) to COR3 and

FEMA for the Distribution Streetlighting Aguada project (Aguada municipality) under DR-4339-PR Public

Assistance. The document provides a description of the project including scope, schedule, and cost

estimates as well as Environmental & Historical Preservation ("EHP") requirements and proposed 406

hazard mitigation work. LUMA Energy is seeking approval from COR3 and FEMA for project funding to

repair, replace, and upgrade the eligible facilities in the municipality of Aguada.

LUMA submits this Detailed SOW pursuant to the T&D O&M Agreement between Puerto Rico. Puerto Rico Electric Power Authority ("PREPA"), the Puerto Rico Public-Private Partnerships Authority ("P3A") and LUMA Energy, and in accordance with the Consent to Federal Funding Letter issued by PREPA and P3A and provided herein as Appendix E which collectively provides the necessary consent for LUMA Energy, as agent of PREPA, to undertake work in connection with any Federal Funding requests related to the T&D System submitted to FEMA

**Facilities** 

This project is part of the breakdown division for the Distribution Streetlighting Program which will be

impacting each of the municipalities. Characteristics were previously defined to serve the municipality of

Aguada according to the priorities and findings after conducting the assessments.

Physical Address: Aguada, PR

Coordinates: Please refer to Appendix F for Coordinates.

Project Scope of Work

Streetlight Repairs - Proposed 428 Public Assistance Scope of Work:

A. Replacement of lighting components including photocontrols, luminaires, arms and associated hardware.

- B. Replacement of concrete octagonal streetlight poles in the same location.
- C. Replacement of aluminum streetlight poles with or without breakaway base in the same location.
- D. Replacement of concrete base (foundation) for aluminum streetlight poles in the same location.
- Replacement of distribution secondary wood, metal or concrete poles with associated lighting installation of guy wires where necessary in the same location.

F. Construction of trenches for secondary underground circuits for streetlighting in existing trench locations.

components and

G. Replace aerial secondary wiring connections.

Refer to Appendix H for the location of specific scopes of works.

**Project Estimate** 

A. Planning, Permits and Applications (FAASt 335168): \$3,471.85

B. Environmental Management (FAASt 335168): \$160,168.00

C. Project Management (FAASt 335168): \$816,689.69 D. Engineering (FAASt 335168): \$1,817,752.72

E. Construction - Labor & Materials: \$16,333,793.77

F. Construction - Site Management (FAASt 335168): \$490,013.81

G. Construction - Quality Inspections (FAASt 335168): \$816,689.69

H. Contingency \$1,430,700.57

Total \$21,869,280.10

Work To Be Completed (WTBC): \$21,869,280.10

A&E Deduction (Global A&E FAASt 335168): -\$4,104,785.76

Project Total Cost: \$17,764,494.34

Please refer to Appendix G for Cost Estimate Details.

For more information, please refer to: 542648-DR4339PR Aguada Streetlight 50000EN-SOW-0018 Rev1.pdf.

### **Project Notes:**

- 1. All streetlight trench rebuilds will be performed in the same location and with the same dimensions as the existing damaged one.
- 2. No new trenches are considered under the project.
- 3. The trenches are described by LUMA Trench Standard STL-16 (attached in the project), which states that the typical trench width is 1 foot, and the typical trench depth is 3.5 feet. For this project, the typical trench was defined to have an average length of 100 feet and following a straight line between the streetlight poles.

### 406 HMP Scope

Project number: 542688

Damage #788183; FAASt Aguada Distribution Streetlighting

Applicant: PR Electric Power Authority (000-UA2QU-00)

**Location:** Aguada, Puerto Rico

GPS Latitude/Longitude: 18.37811, -67.18428

### **Hazard Mitigation Narrative**

During the incident period from September 17, 2017, to November 15, 2017, the Commonwealth of Puerto Rico experienced hurricane-force winds, heavy rain, flooding and power outage from Hurricane Maria. The incident caused damage to the electrical system, such as the power generation plants, transmission and distribution lines, substations, communication systems, buildings, among other damages to the infrastructures owned, operated, and maintained by the Puerto Rico Electric Power Authority (PREPA).

In the Aguada Municipality, PREPA has a total of 6,655 streetlights luminaries. The Method of Repair (MOR) include the replacement of the damage lighting components including photocells, luminaires, arms, and associated hardware. Also include the replacement of the damage distribution and streetlight poles (wood, concrete, galvanized & aluminum), the replacement of the aerial secondary wiring connections, the construction of new concrete base for the aluminum streetlight poles and new trenches for the streetlighting secondary underground circuits. According to the information provided by the Applicant, due to the high velocity hurricane winds, wind-blown debris, and prolonged heavy rain, were the main cause of the damages of the facilities.

In order to minimize the damages in a future event, the Applicant is proposing as a mitigation measure, increase the strength of the poles, arms, aluminum poles breakaway bases, and foundations (concrete bases) by increasing the wind tolerance of all materials to 160mph. Note: The FEMA Accelerated Award Strategy (FAASt) MOR included the PREPA distribution standards and specifications that were based on a 90mph sustained winds for all materials. Although in PREPA Technical Communication #13-02 (August 22, 2013) a design-criteria of 145mph winds were published, the specifications for streetlighting material were never revised, and in the specification documents, the 90mph winds stayed as the requirement for procurement purposes of all streetlighting materials. The 160mph wind tolerance mitigation measure, will protect and make the affected infrastructure more resistant, stronger, and resilient to similar hazards.

#### Hazard Mitigation Proposal (HMP) Scope of Work:

In order to prevent or reduce future damages from similar events, the applicant proposed the following mitigation measures:

### Mitigation Measures (Replacement)

1. To avoid damage in a future event, the Applicant is proposing as a mitigation measure, increase the strength of the poles, arms, aluminum poles breakaway bases, and foundations (concrete bases) by increasing the wind tolerance of all materials to 160mph. The FAASt MOR used PREPA distribution standards and specifications that were based on a 90mph sustained winds for all materials. Although in PREPA Technical Communication #13-02 (August 22, 2013) a design-criteria of 145mph winds were published, the specifications for streetlighting material were never revised, and in the specification documents, the 90mph winds stayed as the requirement for procurement purposes of all streetlighting materials. The above mitigation measures will protect and make the affected infrastructure more resistant, stronger, and resilient to similar hazards. Refer to Appendix J: Section VI.D.1 of the PAPPG V3.1.

Eligible Cost of PA repair Scope of Work per DI: \$14,852,015.62

Net Cost of 406 HMP per DI: \$602,900.43

Cost of 406 HMP w/factors: \$807,222.04

HMP Cost/ Benefit = (Net Cost of Hazard Mitigation/ Cost for HM Eligible PA Repair SOW) x 100 Ratio of HMP C/B = (\$602,900.43/ \$14,852,015.62) x 100 = 4.06% (< 15% and Appendix J).

- \* See Mitigation Profile Documents Tab for complete version of this HMP and supporting documents.
- \* Due to GM system constraints in the Mitigation Profile Cost Tab, there may be a discrepancy in the total dollar amount of the mitigation proposal (or, the cost effectiveness statement) cited in the Cost Tab of the project(s). Whenever a difference between the Mitigation Cost Tab and the completed HMP cost occurs, the correct dollar amount of the grant proposal will default to the amount of 406 funding cited on the actual HMP document (and the Cost Summary Spreadsheet) uploaded into the Mitigation Profile Documents Tab.
- \* This project Hazard Mitigation costing / soft cost / factor methodologies followed the same procedures provided in the cost estimates of the PA portion of the project.

#### Additional PA Notes:

- 1. All streetlight trench rebuilds will be performed in the same location and with the same dimensions as the existing damaged one.
- 2. No new trenches are considered under the project.
- 3. The trenches are described by LUMA Trench Standard STL-16 (attached in the project), which states that the typical trench width is 1 foot, and the typical trench depth is 3.5 feet. For this project, the typical trench was defined to have an average length of 100 feet and following a straight line between the streetlight poles.

### Cost

Code	Quantity	Unit	Total Cost	Section
3510 (Engineering And Design Services (FAASt Global A&E 335168))	1.00	Lump Sum	(\$4,104,785.76)	Uncompleted
9201 (PAAP Fixed Estimate (No Value - Tracking Purposes Only))	1.00	Lump Sum	\$0.00	Completed
9001 (Contract (FAASt Project 136271))	1.00	Lump Sum	\$21,869,280.10	Uncompleted

 CRC Gross Cost
 \$17,764,494.34

 Total 406 HMP Cost
 \$807,222.04

 Total Insurance Reductions
 \$0.00

 CRC Net Cost
 \$18,571,716.38

 Federal Share (90.00%)
 \$16,714,544.75

 Non-Federal Share (10.00%)
 \$1,857,171.63

### **Award Information**

### **Version Information**

Version	Eligibility	Current	Bundle Number	Project	Cost	Federal Share	Date
#	Status	Location		Amount	Share	Obligated	Obligated
0	Eligible	Awarded	PA-02-PR-4339-PW- 10539(11605)	\$18,571,716.38	90 %	\$16,714,544.74	4/27/2022

### **Drawdown History**

EMMIE Drawdown Status As of Date	Obligation Number	Expenditure Number	Expended Date	Expended Amount		
No Records						

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### **Subgrant Conditions**

- As described in Title 2 Code of Federal Regulations (C.F.R.) § 200.333, financial records, supporting documents, statistical records and all other non-Federal entity records pertinent to a Federal award must be retained for a period of three (3) years from the date of submission of the final expenditure report or, for Federal awards that are renewed quarterly or annually, from the date of the submission of the quarterly or annual financial report, respectively, as reported to the Federal awarding agency or pass-through entity in the case of a subrecipient. Federal awarding agencies and pass-through entities must not impose any other record retention requirements upon non-Federal entities. Exceptions are stated in 2 C.F.R. §200.333(a) (f)(1) and (2). All records relative to this project are subject to examination and audit by the State, FEMA and the Comptroller General of the United States and must reflect work related to disaster-specific costs.
- In the seeking of proposals and letting of contracts for eligible work, the Applicant/Subrecipient must comply with its Local, State (provided that the procurements conform to applicable Federal law) and Federal procurement laws, regulations, and procedures as required by FEMA Policy 2 CFR Part 200, Procurement Standards, §§ 317-326.
- The Recipient must submit its certification of the subrecipient's completion of this project, the final claim for payment, and supporting documentation within 180 days from the date that the applicant completes the scope of work, or the project deadline, whichever occurs first. FEMA reimburses Large Projects (those with costs above the large project threshold) based on the actual eligible final project costs. Therefore, during the final project reconciliation (closeout), the project may be amended to reflect the reconciliation of actual eligible costs.
- When any individual item of equipment purchased with PA funding is no longer needed, or a residual inventory of unused supplies exceeding \$5,000 remains, the subrecipient must follow the disposition requirements in Title 2 Code of Federal Regulations (C.F.R.) § 200.313-314.
- The terms of the FEMA-State Agreement are incorporated by reference into this project under the Public Assistance award and the applicant must comply with all applicable laws, regulations, policy, and guidance. This includes, among others, the Robert T. Stafford Disaster Relief and Emergency Assistance Act; Title 44 of the Code of Federal Regulations; FEMA Policy No. 104-009-2, Public Assistance Program and Policy Guide; and other applicable FEMA policy and guidance.
- The DHS Standard Terms and Conditions in effect as of the declaration date of this emergency declarations or major disaster, as applicable, are incorporated by reference into this project under the Public Assistance grant, which flow down from the Recipient to subrecipients unless a particular term or condition indicates otherwise.
- The Uniform Administrative Requirements, Cost Principles, and Audit Requirements set forth at Title 2 Code of Federal Regulations (C.F.R.) Part 200 apply to this project award under the Public Assistance grant, which flow down from the Recipient to all subrecipients unless a particular section of 2 C.F.R. Part 200, the FEMA-State Agreement, or the terms and conditions of this project award indicate otherwise. See 2 C.F.R. §§ 200.101 and 110.
- The subrecipient must submit a written request through the Recipient to FEMA before it makes a change to the approved scope of work in this project. If the subrecipient commences work associated with a change before FEMA approves the change, it will jeopardize financial assistance for this project. See FEMA Policy No. 104-009-2, Public Assistance Program and Policy Guide.
- The Subrecipient provided the estimate for this PW. FEMA validated the estimate and found it to be reasonable for the work to be performed.
- Pursuant to section 312 of the Stafford Act, 42 U.S.C. 5155, FEMA is prohibited from providing financial assistance to any
  entity that receives assistance from another program, insurance, or any other source for the same work. The subrecipient
  agrees to repay all duplicated assistance to FEMA if they receive assistance for the same work from another Federal
  agency, insurance, or any other source. If an subrecipient receives funding from another federal program for the same
  purpose, it must notify FEMA through the Recipient and return any duplicated funding.

### Insurance

#### **Additional Information**

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#### 4/14/2022

#### **GENERAL INFORMATION**

Event: DR4339-PR

Project: SP 542688

Category of Work: Cat F - Utilities

Applicant: PR Electric Power Authority

Event Type: Hurricane / Hurricane Maria

Cause of Loss: Wind / Wind Driven Rain

Incident Period: 9/17/2017 to 11/15/2017

Total Public Assistance Amount: \$18,571,716.38 (Repairs Amount \$17,764,494.34 + Mitigation Amount \$807,222.04)

### **COMMERCIAL INSURANCE INFORMATION**

Does the applicant have a Commercial Policy that extends coverage for this facility: Yes

Policies Issued by: Willis Towers Watson, Multinational Insurance Company and Mapfre

Policy Numbers: Willis Towers Watson (B0804Q1966F17, B0804Q14312F17, B0804Q19673F17, B0804Q19672F17, B0804Q18529F17, B0804Q14312F17, B0804Q19674F17, B0804Q18411F17, B0804Q14310F17, B0804Q11038F17, B0804Q14507F17, B0804Q14312F17)

Mapfre Praico Insurance Company (1398178000644)

<u>Multinational Insurance Company</u> (88-CP-000307831-2, 88-CP-000318673-0, 88-CP-000318674-0, 88-CP-000318675-0, 88-CP-000318676-0, 88-CP-000318677-0)

Policy Period: From: 5/15/2017 To: 5/15/2018

Policy Limits: \$300,000,000.00

RCV or ACV: Replacement Cost Value

Deductible Amount \$25,000,000.00 each and every occurrence property damage and 30 days each and every occurrence business interruption in respect of Named Windstorm.

Does the Applicant's Commercial Policy extend coverage for the damage described in this project: Yes

The amount of the deductible being funded in this project is \$0.00

The amount of the deductible previously funded in other projects is \$25,000,000.00

Final Insurance Settlement Status: Insurance proceeds for this project are anticipated

The amount of Anticipated Insurance Reduction applied for Project: \$0.00

NUMBER OF DAMAGED LOCATIONS INCLUDED IN THIS PROJECT: (1)

### Damaged Inventory (DI) #788183:

### FAASt Aguada Distribution Streetlighting

Location Description: Aguada, Puerto Rico

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GPS Coordinates: 18.37811, -67.18428

Cause of Loss: Wind / Wind Driven Rain

SOV / Schedule #: N/A

SOV / Schedule Amount: N/A

Applicable Deductible Amount: N/A

Damage Inventory Amount: \$18,571,716.38 (Repairs Amount \$17,764,494.34 + Mitigation Amount \$807,222.04)

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#### Prior Obtain and Maintain Requirement:

No prior insurance requirements were found for this facility.

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### Reduction(s):

No insurance reduction will be applied to this project. An anticipated insurance reduction of \$193,746,436.00 was applied to FAAST project # 136271 for anticipated insurance proceeds for Hurricane Maria losses. For ease of reference, please see table of insurance allocations: "PREPA Allocation Plan – All Disasters" file.

#### Obtain and Maintain Requirement:

No Obtain & Maintain Requirement is being mandated for the FAASt Aguada Distribution Streetlighting because facility does not meet the definition of building, equipment, contents, or vehicle.

#### **Insurance Proceeds Statement:**

FEMA acknowledges that the Applicant is in negotiations with their insurance carrier at the time of the FEMA insurance review and might have received partial settlements. In accordance with 44 CFR §206.250-253, in the absence of an actual settlement, anticipated insurance recoveries will be deducted from this project based on Applicant's insurance policy limits. FEMA subsequently adjusts the eligible costs based on the actual amount of insurance proceeds the Applicant receives after a final settlement.

FEMA's Recovery Policy FP 206-086-1, Public Assistance Policy on Insurance (June 29, 2015), requires applicants to take reasonable efforts to recover insurance proceeds that it is entitled to receive from its insurers. FEMA will consider final insurance settlements that may be less than the insurance policy limits when an applicant demonstrates that it has taken reasonable efforts to recover insurance proceeds that it is entitled on a case-by-case basis.

### **Standard Insurance Comments**

### FEMA Policy 206-086-1

PART 2: Other Insurance-Related Provisions. (Sections 312 and 406(d) of the Stafford Act)

- **A. Duplication of Benefits**. FEMA cannot provide assistance for disaster-related losses that duplicate benefits available to an applicant from another source, including insurance.
- 1. Before FEMA approves assistance for a property, an applicant must provide FEMA with information about any actual or anticipated insurance settlement or recovery it is entitled to for that property.
- 2. FEMA will reduce assistance to an applicant by the amount of its actual or anticipated insurance proceeds.
- 3. Applicants must take reasonable efforts to recover insurance proceeds that they are entitled to receive from their insurer(s).

Jean-Carlo Echevarria, PA Insurance Specialist, CRC Atlantic, Guaynabo, PR

There are no Obtain and Maintain Requirements on **FAASt Aguada Streetlighting (Distribution)**.

### **406 Mitigation**

There is no additional mitigation information on **FAASt Aguada Streetlighting (Distribution)**.

### **Environmental Historical Preservation**

Is this project compliant with EHP laws, regulations, and executive orders?



### **EHP Conditions**

- Any change to the approved scope of work will require re-evaluation for compliance with NEPA and other Laws and Executive Orders.
- This review does not address all federal, state and local requirements. Acceptance of federal funding requires recipient to
  comply with all federal, state and local laws. Failure to obtain all appropriate federal, state and local environmental permits
  and clearances may jeopardize funding.
- If ground disturbing activities occur during construction, applicant will monitor ground disturbance and if any potential
  archaeological resources are discovered, will immediately cease construction in that area and notify the State and FEMA.
- Executive Order 11988 Floodplains Applicant must obtain any required permits from the Planning Board prior to initiating
  work and comply with any conditions of the permit. All coordination (emails, letters, documented phone calls) pertaining to
  these activities and compliance must be provided and maintained in the Applicant's permanent files
- Resource Conservation and Recovery Act, aka Solid Waste Disposal Act (RCRA) 1. The Applicant shall handle, manage, and dispose of all types of hazardous waste in accordance with requirements of local, state, and federal laws, regulations, and ordinances. In addition, the Applicant shall ensure that all debris is separated and disposed of in a manner consistent with the PR DNER guidelines at a permitted site or landfill. The contractor/applicant will be responsible for the proper disposition of construction debris in authorized landfills providing the name, location, coordinates and permits of the facility to the corresponding authorities. 2. Unusable equipment, debris, white goods, scrap metal any other material shall be disposed in approved manner and location. In the event significant items are discovered during the implementation or development of the project the Applicant shall handle, manage and dispose petroleum products, hazardous materials and toxic waste in accordance to the requirements of the local and federal agencies. Noncompliance with these requirements may jeopardize receipt of federal funds.
- Endangered Species Act (ESA) USFWS Required Conservation Measures for Epicrates inornatus: 1. Inform all personnel about the potential presence of the PR boa and the VI boa in areas where the proposed work will be conducted. Photographs of the PR and VI Boa are to be prominently displayed at the site. The recipient must ensure that project personnel is able to correctly identify a PR or VI boa. For information on PR boa, please visit: https://ecos.fws.gov/ecp/species/6628. 2. Prior to any construction activity, including removal of vegetation and earth movement, the boundaries of the project area must be delineated, buffer zones, and areas to be excluded and protected, should be clearly marked in the project plan and in the field to avoid further habitat degradation into forested areas. Once areas are clearly marked, and prior to any construction activity, including site preparation, project personnel able to correctly identify a PR or VI boa must survey the areas to be cleared to ensure that no boas are present within the work area. Vehicle and equipment operation must remain on designated access roads/paths and within rights-of way. 3. If a PR boa is found within any of the working or construction areas, activities should stop in the area where the boa was found. Do not capture the boa. If boas need to be moved out of harm's way, project personnel designated by the recipient shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for safe capture and relocation of the animal (PRDNER phone #s: 787-724-5700, 787-230-5550, 787-771-1124). If immediate relocation is not an option, project-related activities at this area must stop until the boa moves out of harm's way on its own. Activities at other

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work sites, where no boas have been found after surveying the area, may continue. 4. Measures should be taken to avoid and minimize PR boa casualties by heavy machinery or motor vehicles being used on site. Any heavy machinery left on site (staging) or near potential PR boa habitat (within 50 meters of potential boa habitat), needs to be thoroughly inspected each morning before work starts to ensure that no boas have sheltered within engine compartments or other areas of the equipment. If PR boas are found within vehicles or equipment, do not capture the animal and let it move on its own or call PRDNER Rangers for safe capture and relocation of the boa (PRDNER phone #s: 787-724-5700, 787-230-5550, 787-771-1124). If not possible, the animal should be left alone until it leaves the vehicle on its own. 5. PR boas may seek shelter in debris piles. Measures should be taken to avoid and minimize boa casualties associated with sheltering in debris piles as a result of project activities. Debris piles should be placed far away from forested areas. Prior to moving, disposing or shredding, debris piles should be carefully inspected for the presence of boas. If PR boas are, found within debris piles, do not capture the animal and let it move on its own or call PRDNER Rangers for safe capture and relocation of the animal. If debris piles will be left on site, we recommend they be placed in areas that will not be disturbed in the future. 6. For all boa sightings (dead or alive), personnel designated by the recipient must record the time and date of the sighting and the specific location where the boa was found. Data should also include a photo of the animal dead or alive, and site GPS coordinates, and comments on how the animal was detected and its behavior. If the PR boa was accidentally killed as part of the project actions, please include information on what conservation measures had been implemented and what actions will be taken to avoid further killings. All boa sighting reports should be sent to the USFWS Caribbean Ecological Services Field Office, Marelisa Rivera - Deputy Field Supervisor, 787-851-7297 extension 206, 787-510-5207, marelisa rivera@fws.gov.

Endangered Species Act (ESA) - USFWS Required Conservation Measures for Caretta caretta), (Chelonia mydas), (Dermochelys coriacea) and (Eretmochelys imbricata) There is potential for sea turtle nesting activity on all ocean-facing sand beaches in Puerto Rico and the US Virgin Islands, including mixed sand and gravel (shell, coral rubble) beaches. The following measures are applicable to green, loggerhead, leatherback, and hawksbill sea turtles, 10. During nesting season (March1-November 30) a qualified sea turtle monitor shall survey each beach work area for possible sea turtle nests during the morning. Any nests found within the area will be marked or flagged in place. Outside of peak nesting season, beaches where work will occur shall be surveyed at least twice a week. If required, debris removal Construction activities on beaches shall initiate only after the sea turtle monitor has completed surveys that morning and nests are clearly marked. Surveys shall be conducted by sea turtle permit holders or trained personnel following DNER/DPNR protocols (see list of PR sea turtle groups, for USVI contact DPNR). Nests laid adjacent to the work area shall be marked by flagging with a 10-foot square roped off buffer and an unobstructed path seaward from the nest to the water. Surveys will start 45 minutes prior to any construction activity. Sea turtle monitoring groups shall have site specific information for nests in their areas and inform work crews of areas to avoid. This measure will be conducted in accordance with FEMA/USFWS/DNER-approved SOP for employee sea turtle awareness training, project site preparation, and nest season monitoring. 11. During the sea turtle nesting season, repair or replacement of structures shall occur in the same location or footprint of the previously permitted structure. If the current project footprint does not stay within previously permitted structure footprint, then the applicant must consult with USFWS. 12. Relocation of sea turtle nests to accommodate construction is not authorized. 13. All project activity shall be confined to daylight hours and shall not occur prior to 0800 AST or following the completion of all necessary marine turtle surveys and conservation activities. The sea turtle monitor shall be available via phone after the initial inspection for any coordination throughout the workday. This measure will be conducted in accordance with FEMA/USFWS/DNER-approved SOP for employee sea turtle awareness training, project site preparation, and nest season monitoring. 14. Only native plant species are authorized to be planted. Existing native dune vegetation shall be disturbed to the minimum extent necessary. For information on appropriate coastal plants see Fish and Wildlife Service BMP document, Sea Turtle Friendly Vegetation. emoval of standing and live coastal vegetation (e.g. sea grapes, mangroves) that are not a hazard is unauthorized. No sea grass, sea weeds, algae nor beach sand shall be removed during beach debris removal efforts. Any vegetation planting shall be installed by hand labor and tools. Irrigation systems shall not be installed within nesting habitat. Applicant will submit a vegetation plan that confirms compliance with these requirements and submit to USFWS at: caribbean es@fws.gov. If a sea turtle nest is disturbed or uncovered during vegetation planting activity or project excavation, all work shall cease and the sea turtle monitor shall immediately be contacted. If a nest(s) cannot be safely avoided during construction, all activity within the affected project area shall be delayed until complete hatching and emergence of the nest. This measure will be conducted in accordance with FEMA/USFWS/DNER-approved SOP for employee sea turtle awareness training, project site preparation, and nest season monitoring. 15. Placement of fill shall not occur within 10 feet of or in any area seaward of a marked sea turtle nest. Nests shall be marked in place with a roped off 10-foot buffer. Dependent upon the fill volume and slope, distance offset from marked turtle nests may be required to be larger to avoid indirect impacts (e.g., fill slumping) to the nest. If the turtle nest cannot be avoided by this distance due to the scope of the project, all work near the nest must be postponed until completion of the sea turtle nesting season (November 30). This measure will be conducted in accordance with FEMA/USFWS/DNER-approved SOP for employee sea turtle awareness training, project site preparation, and nest season monitoring. 16. All excavations and temporary alteration of beach topography shall be contoured or leveled to the natural beach profile prior to dusk each day. This includes raking of tire ruts, filling pits or holes where debris was removed, etc. Any potential obstructions such as debris piles, equipment, etc. shall also be removed from the beach by the end of each day. Fill must be placed as landward as

- practicable to establish or repair dune features. The existing or pre- disaster beach and dune profile must be considered when determining the appropriate siting of fill to provide reasonable longevity of the project. This measure will be conducted in accordance with FEMA/USFWS/DNER-approved SOP for employee sea turtle awareness training, project site preparation, and nest season monitoring.
- Endangered Species Act (ESA) Continue USFWS Required Conservation Measures for Caretta caretta), (Chelonia mydas), (Dermochelys coriacea) and (Eretmochelys imbricata) 17. No vehicles, equipment, staging or debris should be used, parked or stored landward of the primary dune or in vegetated areas. Staging/parking/storage areas shall be located on paved surfaces as much as possible and outside of vegetated areas. Lightweight, all terrain style vehicles, with tire pressures of 10 psi or less can operate on the beach and are the preferred transportation method. However, use of heavy equipment on the beach can be allowed provided it is taken off the beach by 1600 AST local time every night using an approved and designated beach access. All driving on the beach shall be between the high-water mark and the water's edge. This measure will be conducted in accordance with FEMA/USFWS/DNER-approved SOP for employee sea turtle awareness training, project site preparation, and nest season monitoring. 18. Removal of vegetation, fence installation, construction activities, and light installation shall be limited within 50 meters from the high tide line. This measure will be conducted in accordance with FEMA/USFWS/DNER-approved SOP for employee sea turtle awareness training, project site preparation, and nest season monitoring. 19. No construction involving lights shall be used during the nesting season. For Puerto Rico and the USVI, a lighting plan utilizing sea turtle friendly lights for coastal areas is required where lights will be repaired or newly installed. Lighting plans shall be sent to USFWS at: caribbean es@fws.gov. Once the plan is fully implemented, a lighting inspection shall be conducted by the Applicant to identify and correct any remaining problematic lights. For projects in Puerto Rico the project shall comply with Puerto Rico Law 218 of 2008. Control and Prevention of the Lighting Pollution of Puerto Rico and the PR EQB 2016 Regulation to Control and Prevent Light Contamination. 20. If an unmarked sea turtle crawl is encountered during or prior to project activity, the work crew shall not disturb the integrity of the crawl. Project personnel shall follow the crawl up the beach or into the dune and contact the qualified sea turtle monitor to inform of the location of the crawl. Care shall be taken to avoid walking or driving equipment over or near a crawl so that a potential nest is not damaged. This measure will be conducted in accordance with FEMA/USFWS/DNER-approved SOP for employee sea turtle awareness training, project site preparation, and nest season monitoring. 21. Any collision(s) with and/or injury to any sea turtle in water, occurring during the construction of a project, shall be reported immediately to DNER/DPNR and NMFS's Protected Resources Division (PRD) at (1-727-824-5312) or by email to takereport.nmfsser@noaa.gov and SAJ-RD- Enforcement@usace.army.mil. This measure will be conducted in accordance with FEMA/USFWS/DNER-approved SOP for employee sea turtle awareness training, project site preparation, and nest season monitoring. 22. All sea turtle sightings and incidents involving nesting sea turtles or hatchlings shall be reported to DNER/DPNR and the USFWS: Caribbean Ecological Services Field Office, P.O. Box 491, Boquerón, PR, Marelisa Rivera - Deputy Field Supervisor, 787-851-7297 extension 2016, 787-510-5207, marelisa rivera@fws.gov. This measure will be conducted in accordance with FEMA/USFWS/DNER approved SOP for employee sea turtle awareness training, project site preparation, and nest season monitoring
- Endangered Species Act (ESA) The Applicant must provide documentation at close-out that proves completion of required Conservation Measures

### **EHP Additional Info**

There is no additional environmental historical preservation on **FAASt Aguada Streetlighting (Distribution)**.

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### **Final Reviews**

### **Final Review**

Reviewed By MARTINEZ SANTIAGO, ISRAEL

**Reviewed On** 04/25/2022 2:56 PM AST

**Review Comments** 

FEMA Final completed. Project ready for Recipient Final Review.

### **Recipient Review**

Reviewed By Salgado, Gabriel

Reviewed On 04/25/2022 3:04 PM AST

#### **Review Comments**

Recipient review completed. Next step: Applicant review.

### **Fixed Cost Offer**

As a Public Assistance (PA) Subrecipient PR Electric Power Authority (000-UA2QU-00), in accordance with Section 428 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act, the Applicant agrees to accept a permanent work subaward based on a Fixed Cost Offer in the amount of \$18,571,716.38 for subaward number 10539 under Disaster # 4339. The Applicant accepts responsibility for all costs above the Fixed Cost Offer.

The Applicant understands that by participating in this pilot program they will be reimbursed for allowable costs in accordance with 2 CFR Part 200, and the reimbursement will not exceed the Fixed Cost Offer. The Applicant also understands that by agreeing to this Fixed Cost Offer, they will not receive additional funding related to the facilities or sites included in the subaward. The Applicant also acknowledges that failure to comply with the requirements of applicable laws and regulations governing assistance provided by FEMA and the PA Alternative Procedures Pilot Program Guidance (such as procurement and contracting; environmental and historic preservation compliance; and audit and financial accountability) may lead to loss of federal funding.

### **Project Signatures**

Signed By Nieves, Ezequiel

Signed On 04/26/2022

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### Department of Homeland Security Federal Emergency Management Agency

### **General Info**

Project # 542690 P/W # 10499 Project Type Specialized

Project Category F - Utilities Applicant PR Electric Power Authority (000-UA2QU-

00)

Project Title FAASt [Maunabo Streetlighting]

(Distribution) Event 4339DR-PR (4339DR)

Project Size Large Declaration Date 9/21/2017

Activity 3/21/2019 Incident Start Date 9/17/2017

Completion Date Large Declaration Date 9/17/2017

Incident End Date 11/15/2017

Process Step Obligated

### **Damage Description and Dimensions**

### The Disaster # 4339DR, which occurred between 09/17/2017 and 11/15/2017, caused:

### Damage #788210; FAASt Maunabo Distribution Streetlighting

DDD for this facility codified in the 136271 - MEPA078 Puerto Rico Electrical Power Authority Island Wide FAASt Project.

### **General Facility Information:**

- Facility Type: Power generation, transmission, and distribution facilities
- Facility: Maunabo Distribution Streetlighting
- Facility Description: The Maunabo municipality has a total of 2359 luminaries of which damage was estimated for 70% of these luminaries. Pole This can be either a standalone structure intended to house a streetlight, or a utility pole shared with other overhead utilities Arm A piece of hardware affixed to a pole to which a luminaire is mounted. The arm serves to position the streetlight over the street for optimal lighting Luminaire/Light Bulb The light emitting part of a streetlight Light controller (e.g., photocell) A hardware device affixed to the luminaire which controls the operating mode Communication network A wired or wireless system that allows the smart streetlight to communicate with other devices and the control system Technology control system A software platform that allows a remote operator to set the operating parameters for the smart streetlight or manually override the parameter if needed
- Approx. Year Built: 1970
- Location Description: Please refer to "788210-DR4339PR-FEMA Project Scope of Work -Maunabo.pdf" for more details about all sites location.
- GPS Latitude/Longitude: 18.00620, -65.90352

### **General Damage Information:**

- Date Damaged: 9/20/2017
- Cause of Damage: High winds & wind driven rain, caused by Cat 4 Hurricane Maria

### **Final Scope**

788210 FAASt Maunabo Distribution Streetlighting

#### Introduction

The purpose of this document is to submit for approval the Detailed Scope of Work (SOW) to COR3 and FEMA for the Distribution Streetlighting Maunabo project (Maunabo municipality) under DR-4339-PR Public Assistance. The document provides a description of the project including scope, schedule, and cost estimates as well as Environmental & Historical Preservation ("EHP") requirements and proposed 406 hazard mitigation work. LUMA Energy is seeking approval from COR3 and FEMA for project funding to repair, replace, and upgrade the eligible facilities in the municipality of Maunabo.

LUMA submits this Detailed SOW pursuant to the T&D O&M Agreement between Puerto Rico. Puerto Rico Electric Power Authority ("PREPA"), the Puerto Rico Public-Private Partnerships Authority ("P3A") and LUMA Energy, and in accordance with the Consent to Federal Funding Letter issued by PREPA and P3A and provided herein as Appendix K which collectively provides the necessary consent for LUMA Energy, as agent of PREPA, to undertake work in connection with any Federal Funding requests related to the T&D System submitted to FEMA.

### **Facilities**

This project is part of the breakdown division for the Distribution Streetlighting Program which will be

impacting each of the municipalities. Characteristics were previously defined to serve the municipality of

Maunabo according to the priorities and findings after conducting the assessments.

Physical Address: Maunabo, Puerto Rico

Coordinates: Please refer to Appendix F for Coordinates.

#### **Project Scope of Work**

Streetlight Repairs - Proposed 428 Public Assistance Scope of Work:

A. Replacement of lighting components including photocontrols, luminaires, arms and associated hardware.

- B. Replacement of concrete octagonal streetlight poles in the same location.
- C. Replacement of aluminum streetlight poles with or without breakaway base in the same location.
- D. Replacement of concrete base (foundation) for aluminum streetlight poles in the same location.
- E. Replacement of distribution secondary wood, metal or concrete poles with associated lighting components and installation of guy wires where necessary in the same location.
- F. Construction of trenches for secondary underground circuits for streetlighting in existing trench locations.
- G. Replace aerial secondary wiring connections.

Refer to Appendix H for the location specific scopes of work.

### **Project Cost Estimate**

Streetlight Repairs - Proposed 428 Public Assistance Cost Estimate:

#### **Project Cost Estimate**

Streetlight Repairs - Proposed 428 Public Assistance Cost Estimate:

A. Planning, Permits and Applications (FAASt 335168): \$3,490

B. Environmental Management (FAASt 335168): \$157,743

C. Project Management (FAASt 335168): \$284,708

D. Engineering (FAASt 335168): \$628,965

E. Construction - Labor & Materials: \$5,694,155

F. Construction - Site Management (FAASt 335168): \$170,825

G. Construction - Quality Inspections (FAASt 335168): \$284,708

F. Contingency: \$505,722

Total \$7,730,315.56

Work to be Completed (WTBC): \$7,730,315.56

A&E Deduction (Global A&E FAASt 335168): -\$1,530,438.49

Project Total: \$6,199,877.07

Please refer to PDMG provided: 542690 DR4339PR Appendix G - Cost Estimate Maunabo Municipality.xlsx

For more information, please refer to: Detailed SOW-Distribution Streetlighting-Maunabo-VO-1.pdf, 542690 DR4339PR 50000-EN-SOW-0015\_Rev1.pdf

#### **Project Notes:**

- 1. All streetlight trench rebuilds will be performed in the same location and with the same dimensions as the existing damaged one.
- 2. No new trenches are considered under the project.
- 3. The trenches are described by LUMA Trench Standard STL-16 (attached in the project), which states that the typical trench width is 1 foot, and the typical trench depth is 3.5 feet. For this project, the typical trench was defined to have an average length of 100 feet and following a straight line between the streetlight poles.

### 406 HMP Scope

Project number: 542690

Damage #788210; FAASt Maunabo Distribution Streetlighting

Applicant: PR Electric Power Authority (000-UA2QU-00)

Location: Maunabo, Puerto Rico

GPS Latitude/Longitude: 18.00620, -65.90352

### **Hazard Mitigation Narrative**

During the incident period from September 17, 2017, to November 15, 2017, the Commonwealth of Puerto Rico experienced hurricane-force winds, heavy rain, flooding and power outage from Hurricane Maria. The incident caused damage to the electrical system, such as the power generation plants, transmission and distribution lines, substations, communication systems, buildings, among other damages to the infrastructures owned, operated, and maintained by the Puerto Rico Electric Power Authority (PREPA).

In the Maunabo Municipality, PREPA has a total of 2,428 streetlights luminaries. The Method of Repair (MOR) include the replacement of the damage lighting components including photocells, luminaires, arms, and associated hardware. Also include the replacement of the damage distribution and streetlight poles (wood, concrete, galvanized & aluminum), the replacement of the aerial secondary wiring connections, the construction of new concrete base for the aluminum streetlight poles and new trenches for the streetlighting secondary underground circuits. According to the information provided by the Applicant, due to the high velocity hurricane winds, wind-blown debris, and prolonged heavy rain, were the main cause of the damages of the facilities.

In order to minimize the damages in a future event, the Applicant is proposing as a mitigation measure, increase the strength of the poles, arms, aluminum poles breakaway bases, and foundations (concrete bases) by increasing the wind tolerance of all materials to 160mph. Note: The FEMA Accelerated Award Strategy (FAASt) MOR included the PREPA distribution standards and specifications that were based on a 90mph sustained winds for all materials. Although in PREPA Technical Communication #13-02 (August 22, 2013) a design-criteria of 145mph winds were published, the specifications for streetlighting material were never revised, and in the specification documents, the 90mph winds stayed as the requirement for procurement purposes of all streetlighting materials. The 160mph wind tolerance mitigation measure, will protect and make the affected infrastructure more resistant, stronger, and resilient to similar hazards.

### Hazard Mitigation Proposal (HMP) Scope of Work:

In order to prevent or reduce future damages from similar events, the applicant proposed the following mitigation measures:

Mitigation Measures (Replacement)

1. To avoid damage in a future event, the Applicant is proposing as a mitigation measure, increase the strength of the poles, arms, aluminum poles breakaway bases, and foundations (concrete bases) by increasing the wind tolerance of all materials to 160mph. The FAASt MOR used PREPA distribution standards and specifications that were based on a 90mph sustained winds for all materials. Although in PREPA Technical Communication #13-02 (August 22, 2013) a design-criteria of 145mph winds were published, the specifications for streetlighting material were never revised, and in the specification documents, the 90mph winds stayed as the requirement for procurement purposes of all streetlighting materials. The above mitigation measures will protect and make the affected infrastructure more resistant, stronger, and resilient to similar hazards. Refer to Appendix J: Section VI.D.1 of the PAPPG V3.1.

Eligible Cost of PA repair Scope of Work per DI: \$4,904,774.62

Net Cost of 406 HMP per DI: \$179,642.41

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Cost of 406 HMP w/factors: \$243,880.33

HMP Cost/ Benefit = (Net Cost of Hazard Mitigation/ Cost for HM Eligible PA Repair SOW) x 100 Ratio of HMP C/B = (\$179,642.41/\$4,904,774.62) x 100 = 3.66% (< 15% and Appendix J).

- \* See Mitigation Profile Documents Tab for complete version of this HMP and supporting documents.
- \* Due to GM system constraints in the Mitigation Profile Cost Tab, there may be a discrepancy in the total dollar amount of the mitigation proposal (or, the cost effectiveness statement) cited in the Cost Tab of the project(s). Whenever a difference between the Mitigation Cost Tab and the completed HMP cost occurs, the correct dollar amount of the grant proposal will default to the amount of 406 funding cited on the actual HMP document (and the Cost Summary Spreadsheet) uploaded into the Mitigation Profile Documents Tab.
- \* This project Hazard Mitigation costing / soft cost / factor methodologies followed the same procedures provided in the cost estimates of the PA portion of the project.

#### Additional PA Notes:

- 1. All streetlight trench rebuilds will be performed in the same location and with the same dimensions as the existing damaged one.
- 2. No new trenches are considered under the project.
- 3. The trenches are described by LUMA Trench Standard STL-16 (attached in the project), which states that the typical trench width is 1 foot, and the typical trench depth is 3.5 feet. For this project, the typical trench was defined to have an average length of 100 feet and following a straight line between the streetlight poles.

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### Cost

Code	Quantity	Unit	Total Cost	Section
3510 (Engineering And Design Services (FAASt Global A&E 335168))	1.00	Lump Sum	(\$1,530,438.49)	Uncompleted
9201 (PAAP Fixed Estimate (No Value - Tracking Purposes Only))	1.00	Lump Sum	\$0.00	Completed
9001 (Contract (FAASt Project 136271))	1.00	Lump Sum	\$7,730,315.56	Uncompleted

CRC Gross Cost	\$6,199,877.07
Total 406 HMP Cost	\$243,880.33
Total Insurance Reductions	\$0.00
CRC Net Cost	\$6,443,757.40
CRC Net Cost Federal Share (90.00%)	\$6,443,757.40 \$5,799,381.66

### **Award Information**

### **Version Information**

Version	Eligibility	Current	Bundle Number	Project	Cost	Federal Share	Date
#	Status	Location		Amount	Share	Obligated	Obligated
0	Eligible	Awarded	PA-02-PR-4339-PW- 10499(11675)	\$6,443,757.40	90 %	\$5,799,381.66	5/4/2022

### **Drawdown History**

EMMIE Drawdown Status As of Date	Obligation Number	Expenditure Number	Expended Date	Expended Amount		
No Records						

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### **Subgrant Conditions**

- As described in Title 2 Code of Federal Regulations (C.F.R.) § 200.333, financial records, supporting documents, statistical records and all other non-Federal entity records pertinent to a Federal award must be retained for a period of three (3) years from the date of submission of the final expenditure report or, for Federal awards that are renewed quarterly or annually, from the date of the submission of the quarterly or annual financial report, respectively, as reported to the Federal awarding agency or pass-through entity in the case of a subrecipient. Federal awarding agencies and pass-through entities must not impose any other record retention requirements upon non-Federal entities. Exceptions are stated in 2 C.F.R. §200.333(a) (f)(1) and (2). All records relative to this project are subject to examination and audit by the State, FEMA and the Comptroller General of the United States and must reflect work related to disaster-specific costs.
- In the seeking of proposals and letting of contracts for eligible work, the Applicant/Subrecipient must comply with its Local, State (provided that the procurements conform to applicable Federal law) and Federal procurement laws, regulations, and procedures as required by FEMA Policy 2 CFR Part 200, Procurement Standards, §§ 317-326.
- The Recipient must submit its certification of the subrecipient's completion of this project, the final claim for payment, and supporting documentation within 180 days from the date that the applicant completes the scope of work, or the project deadline, whichever occurs first. FEMA reimburses Large Projects (those with costs above the large project threshold) based on the actual eligible final project costs. Therefore, during the final project reconciliation (closeout), the project may be amended to reflect the reconciliation of actual eligible costs.
- When any individual item of equipment purchased with PA funding is no longer needed, or a residual inventory of unused supplies exceeding \$5,000 remains, the subrecipient must follow the disposition requirements in Title 2 Code of Federal Regulations (C.F.R.) § 200.313-314.
- The terms of the FEMA-State Agreement are incorporated by reference into this project under the Public Assistance award and the applicant must comply with all applicable laws, regulations, policy, and guidance. This includes, among others, the Robert T. Stafford Disaster Relief and Emergency Assistance Act; Title 44 of the Code of Federal Regulations; FEMA Policy No. 104-009-2, Public Assistance Program and Policy Guide; and other applicable FEMA policy and guidance.
- The DHS Standard Terms and Conditions in effect as of the declaration date of this emergency declarations or major disaster, as applicable, are incorporated by reference into this project under the Public Assistance grant, which flow down from the Recipient to subrecipients unless a particular term or condition indicates otherwise.
- The Uniform Administrative Requirements, Cost Principles, and Audit Requirements set forth at Title 2 Code of Federal Regulations (C.F.R.) Part 200 apply to this project award under the Public Assistance grant, which flow down from the Recipient to all subrecipients unless a particular section of 2 C.F.R. Part 200, the FEMA-State Agreement, or the terms and conditions of this project award indicate otherwise. See 2 C.F.R. §§ 200.101 and 110.
- The subrecipient must submit a written request through the Recipient to FEMA before it makes a change to the approved scope of work in this project. If the subrecipient commences work associated with a change before FEMA approves the change, it will jeopardize financial assistance for this project. See FEMA Policy No. 104-009-2, Public Assistance Program and Policy Guide.
- The Subrecipient provided the estimate for this PW. FEMA validated the estimate and found it to be reasonable for the work to be performed.
- Pursuant to section 312 of the Stafford Act, 42 U.S.C. 5155, FEMA is prohibited from providing financial assistance to any
  entity that receives assistance from another program, insurance, or any other source for the same work. The subrecipient
  agrees to repay all duplicated assistance to FEMA if they receive assistance for the same work from another Federal
  agency, insurance, or any other source. If an subrecipient receives funding from another federal program for the same
  purpose, it must notify FEMA through the Recipient and return any duplicated funding.

### Insurance

#### **Additional Information**

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### **GENERAL INFORMATION**

Event: DR4339-PR

Project: SP 542690

Category of Work: Cat F - Utilities

Applicant: PR Electric Power Authority

Event Type: Hurricane / Hurricane Maria

Cause of Loss: Wind / Wind Driven Rain

Incident Period: 9/17/2017 to 11/15/2017

Total Public Assistance Amount: \$6,443,757.40 (Repairs Amount \$6,199,877.07 + Mitigation Amount \$243,880.33)

### **COMMERCIAL INSURANCE INFORMATION**

Does the applicant have a Commercial Policy that extends coverage for this facility: Yes

Policies Issued by: Willis Towers Watson, Multinational Insurance Company and Mapfre

Policy Numbers: Willis Towers Watson (B0804Q1966F17, B0804Q14312F17, B0804Q19673F17, B0804Q19672F17, B0804Q18529F17, B0804Q14312F17, B0804Q19674F17, B0804Q18411F17, B0804Q14310F17, B0804Q11038F17, B0804Q14507F17, B0804Q14312F17)

Mapfre Praico Insurance Company (1398178000644)

<u>Multinational Insurance Company</u> (88-CP-000307831-2, 88-CP-000318673-0, 88-CP-000318674-0, 88-CP-000318675-0, 88-CP-000318676-0, 88-CP-000318677-0)

Policy Period: From: 5/15/2017 To: 5/15/2018

Policy Limits: \$300,000,000.00

RCV or ACV: Replacement Cost Value

Deductible Amount \$25,000,000.00 each and every occurrence property damage and 30 days each and every occurrence business interruption in respect of Named Windstorm.

Does the Applicant's Commercial Policy extend coverage for the damage described in this project: Yes

The amount of the deductible being funded in this project is \$0.00

The amount of the deductible previously funded in other projects is \$25,000,000.00

Final Insurance Settlement Status: Insurance proceeds for this project are anticipated

The amount of Anticipated Insurance Reduction applied for Project: \$0.00

NUMBER OF DAMAGED LOCATIONS INCLUDED IN THIS PROJECT: (1)

### Damaged Inventory (DI) #788210:

### **FAASt Maunabo Distribution Streat lighting**

Location Description: Maunabo, Puerto Rico

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GPS Coordinates: 18.00620, -65.90352

Cause of Loss: Wind / Wind Driven Rain

SOV / Schedule #: N/A

SOV / Schedule Amount: N/A

Applicable Deductible Amount: N/A

Damage Inventory Amount: \$6,443,757.40 (Repairs Amount \$6,199,877.07 + Mitigation Amount \$243,880.33)

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#### Prior Obtain and Maintain Requirement:

No prior insurance requirements were found for this facility.

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### Reduction(s):

No insurance reduction will be applied to this project. An anticipated insurance reduction of \$193,746,436.00 was applied to FAAST project # 136271 for anticipated insurance proceeds for Hurricane Maria losses. For ease of reference, please see table of insurance allocations: "PREPA Allocation Plan – All Disasters" file.

### Obtain and Maintain Requirement:

No Obtain & Maintain Requirement is being mandated for the FAASt Maunabo Distribution Streat lighting because facility does not meet the definition of building, equipment, contents, or vehicle.

#### **Insurance Proceeds Statement:**

FEMA acknowledges that the Applicant is in negotiations with their insurance carrier at the time of the FEMA insurance review and might have received partial settlements. In accordance with 44 CFR §206.250-253, in the absence of an actual settlement, anticipated insurance recoveries will be deducted from this project based on Applicant's insurance policy limits. FEMA subsequently adjusts the eligible costs based on the actual amount of insurance proceeds the Applicant receives after a final settlement.

FEMA's Recovery Policy FP 206-086-1, Public Assistance Policy on Insurance (June 29, 2015), requires applicants to take reasonable efforts to recover insurance proceeds that it is entitled to receive from its insurers. FEMA will consider final insurance settlements that may be less than the insurance policy limits when an applicant demonstrates that it has taken reasonable efforts to recover insurance proceeds that it is entitled on a case-by-case basis.

### Standard Insurance Comments

### FEMA Policy 206-086-1

PART 2: Other Insurance-Related Provisions. (Sections 312 and 406(d) of the Stafford Act)

- **A. Duplication of Benefits**. FEMA cannot provide assistance for disaster-related losses that duplicate benefits available to an applicant from another source, including insurance.
- 1. Before FEMA approves assistance for a property, an applicant must provide FEMA with information about any actual or anticipated insurance settlement or recovery it is entitled to for that property.
- 2. FEMA will reduce assistance to an applicant by the amount of its actual or anticipated insurance proceeds.
- 3. Applicants must take reasonable efforts to recover insurance proceeds that they are entitled to receive from their insurer(s).

Jean-Carlo Echevarria, PA Insurance Specialist, CRC Atlantic, Guaynabo, PR

There are no Obtain and Maintain Requirements on **FAASt** [Maunabo Streetlighting] (Distribution).

### **406 Mitigation**

There is no additional mitigation information on **FAASt** [Maunabo Streetlighting] (Distribution).

### **Environmental Historical Preservation**

Is this project compliant with EHP laws, regulations, and executive orders?



### **EHP Conditions**

- Any change to the approved scope of work will require re-evaluation for compliance with NEPA and other Laws and Executive Orders.
- This review does not address all federal, state and local requirements. Acceptance of federal funding requires recipient to
  comply with all federal, state and local laws. Failure to obtain all appropriate federal, state and local environmental permits
  and clearances may jeopardize funding.
- If ground disturbing activities occur during construction, applicant will monitor ground disturbance and if any potential
  archaeological resources are discovered, will immediately cease construction in that area and notify the State and FEMA.
- Executive Order 11988 Floodplains Applicant must obtain any required permits from the Planning Board prior to initiating
  work and comply with any conditions of the permit. All coordination (emails, letters, documented phone calls) pertaining to
  these activities and compliance must be provided and maintained in the Applicant's permanent files.
- Endangered Species Act (ESA) The Applicant must provide documentation at close-out that proves completion of required Conservation Measures.
- Endangered Species Act (ESA) Birds The below conservation measures apply to the following species:, Puerto Rican broad-winged hawk and Puerto Rican sharp-shinned hawk 8. During breeding seasons (see below), nest surveys shall be conducted if a project occurs in a species' range. Nest searches must be conducted by qualified personnel with the appropriate DNER permits prior to start of work. If nesting activity is detected, all construction activities or human disturbance must be avoided within a 200-meter buffer to the closest nest. This avoidance strategy must be kept until fledglings successfully leave the nest permanently. Outside the nesting season, if a nest is encountered, work shall not interfere with the species until they have left the site. If nesting activity is detected, all construction activities or human disturbance must be avoided within a 200-meter buffer to the closest nest. This avoidance strategy must be kept until juvenile birds fledge the nest and are permanently gone. Nesting season: Puerto Rican broad-winged hawk (Buteo platypterus): December-June and Puerto Rican sharp-shinned hawk (Accipiter striatus venator): December-June. For all nest sightings, the Applicant must record the time and date of the sighting and the specific location where it was found. Data should also include a photo of the nest and eggs, relocation site GPS coordinates, and the time and date of the relocation. All sightings and incidental lethal take reports should be sent to the USFWS Caribbean Ecological Services Field Office, Marelisa Rivera Deputy Field Supervisor, 787-851-7297 extension 206, 787-510-5207, marelisa\_rivera@fws.gov.
- Endangered Species Act (ESA)- Conditions for the Puerto Rican Boa 1 Inform all personnel about the potential presence of the PR boa and the VI boa in areas where the proposed work will be conducted. Photographs of the PR and VI Boa are to be prominently displayed at the site. The recipient must ensure that project personnel is able to correctly identify a PR or VI boa. For information on PR boa, please visit: https://ecos.fws.gov/ecp/species/6628. 2. Prior to any construction activity, including removal of vegetation and earth movement, the boundaries of the project area must be delineated, buffer zones, and areas to be excluded and protected, should be clearly marked in the project plan and in the field to avoid further habitat degradation into forested areas. Once areas are clearly marked, and prior to any construction activity, including site preparation, project personnel able to correctly identify a PR or VI boa must survey the areas to be cleared to ensure that no boas are present within the work area. Vehicle and equipment operation must remain on designated access roads/paths

and within rights-of way. 3. If a PR boa is found within any of the working or construction areas, activities should stop in the area where the boa was found. Do not capture the boa. If boas need to be moved out of harm's way, project personnel designated by the recipient shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for safe capture and relocation of the animal (PRDNER phone #s: 787-724-5700, 787-230-5550, 787-771-1124). If immediate relocation is not an option, project-related activities at this area must stop until the boa moves out of harm's way on its own. Activities at other work sites, where no boas have been found after surveying the area, may continue. 4. Measures should be taken to avoid and minimize PR boa casualties by heavy machinery or motor vehicles being used on site. Any heavy machinery left on site (staging) or near potential PR boa habitat (within 50 meters of potential boa habitat), needs to be thoroughly inspected each morning before work starts to ensure that no boas have sheltered within engine compartments or other areas of the equipment. If PR boas are found within vehicles or equipment, do not capture the animal and let it move on its own or call PRDNER Rangers for safe capture and relocation of the boa (PRDNER phone #s: 787-724-5700, 787-230-5550, 787-771-1124). If not possible, the animal should be left alone until it leaves the vehicle on its own. 5. PR boas may seek shelter in debris piles. Measures should be taken to avoid and minimize boa casualties associated with sheltering in debris piles as a result of project activities. Debris piles should be placed far away from forested areas. Prior to moving, disposing or shredding, debris piles should be carefully inspected for the presence of boas. If PR boas are, found within debris piles, do not capture the animal and let it move on its own or call PRDNER Rangers for safe capture and relocation of the animal. If debris piles will be left on site, we recommend they be placed in areas that will not be disturbed in the future. 6. For all boa sightings (dead or alive), personnel designated by the recipient must record the time and date of the sighting and the specific location where the boa was found. Data should also include a photo of the animal dead or alive, and site GPS coordinates, and comments on how the animal was detected and its behavior. If the PR boa was accidentally killed as part of the project actions, please include information on what conservation measures had been implemented and what actions will be taken to avoid further killings. All boa-sighting reports should be sent to the USFWS Caribbean Ecological Services Field Office, Marelisa Rivera - Deputy Field Supervisor, 787-851-7297 extension 206, 787-510-5207, marelisa\_rivera@fws.gov.

Endangered Species Act (ESA) - Conservation measures for Sea Turtles USFWS Required Conservation Measures for Caretta caretta), (Chelonia mydas), (Dermochelys coriacea) and (Eretmochelys imbricata). There is potential for sea turtle nesting activity on all ocean-facing sand beaches in Puerto Rico and the US Virgin Islands, including mixed sand and gravel (shell, coral rubble) beaches. The following measures are applicable to green, loggerhead, leatherback, and hawksbill sea turtles. 10. During nesting season (March 1-November 30) a qualified sea turtle monitor shall survey each beach work area for possible sea turtle nests during the morning. Any nests found within the area will be marked or flagged in place. Outside of peak nesting season, beaches where work will occur shall be surveyed at least twice a week. If required, debris removal Construction activities on beaches shall initiate only after the sea turtle monitor has completed surveys that morning and nests are clearly marked. Surveys shall be conducted by sea turtle permit holders or trained personnel following DNER/DPNR protocols (see list of PR sea turtle groups, for USVI contact DPNR). Nests laid adjacent to the work area shall be marked by flagging with a 10-foot square roped off buffer and an unobstructed path seaward from the nest to the water. Surveys will start 45 minutes prior to any construction activity. Sea turtle monitoring groups shall have site specific information for nests in their areas and inform work crews of areas to avoid. This measure will be conducted in accordance with FEMA/USFWS/DNER-approved SOP for employee sea turtle awareness training, project site preparation, and nest season monitoring. 11. During the sea turtle nesting season, repair or replacement of structures shall occur in the same location or footprint of the previously permitted structure. If the current project footprint does not stay within previously permitted structure footprint, then the applicant must consult with USFWS. 12. Relocation of sea turtle nests to accommodate construction is not authorized. 13. All project activity shall be confined to daylight hours and shall not occur prior to 0800 AST or following the completion of all necessary marine turtle surveys and conservation activities. The sea turtle monitor shall be available via phone after the initial inspection for any coordination throughout the workday. This measure will be conducted in accordance with FEMA/USFWS/DNER-approved SOP for employee sea turtle awareness training, project site preparation, and nest season monitoring. 14. Only native plant species are authorized to be planted. Existing native dune vegetation shall be disturbed to the minimum extent necessary. For information on appropriate coastal plants see Fish and Wildlife Service BMP document, Sea Turtle Friendly Vegetation. Removal of standing and live coastal vegetation (e.g. sea grapes, mangroves) that are not a hazard is unauthorized. No sea grass, sea weeds, algae nor beach sand shall be removed during beach debris removal efforts. Any vegetation planting shall be installed by hand labor and tools. Irrigation systems shall not be installed within nesting habitat. Applicant will submit a vegetation plan that confirms compliance with these requirements and submit to USFWS at: caribbean\_es@fws.gov. If a sea turtle nest is disturbed or uncovered during vegetation planting activity or project excavation, all work shall cease, and the sea turtle monitor shall immediately be contacted. If a nest(s) cannot be safely avoided during construction, all activity within the affected project area shall be delayed until complete hatching and emergence of the nest. This measure will be conducted in accordance with FEMA/USFWS/DNER-approved SOP for employee sea turtle awareness training, project site preparation, and nest season monitoring. 15. Placement of fill shall not occur within 10 feet of or in any area seaward of a marked sea turtle nest. Nests shall be marked in place with a roped off 10-foot buffer. Dependent upon the fill volume and slope, distance offset from marked turtle nests may be required to be larger to avoid indirect impacts (e.g., fill slumping) to the nest. If the turtle nest cannot be avoided by this distance due to the scope of the project, all work near the nest must be postponed until

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completion of the sea turtle nesting season (November 30). This measure will be conducted in accordance with FEMA/USFWS/DNER-approved SOP for employee sea turtle awareness training, project site preparation, and nest season monitoring. 16. All excavations and temporary alteration of beach topography shall be contoured or leveled to the natural beach profile prior to dusk each day. This includes raking of tire ruts, filling pits or holes where debris was removed. etc. Any potential obstructions such as debris piles, equipment, etc. shall also be removed from the beach by the end of each day. Fill must be placed as landward as practicable to establish or repair dune features. The existing or pre-disaster beach and dune profile must be considered when determining the appropriate siting of fill to provide reasonable longevity of the project. This measure will be conducted in accordance with FEMA/USFWS/DNER-approved SOP for employee sea turtle awareness training, project site preparation, and nest season monitoring. 17. No vehicles, equipment, staging or debris should be used, parked or stored landward of the primary dune or in vegetated areas. Staging/parking/storage areas shall be located on paved surfaces as much as possible and outside of vegetated areas. Lightweight, all terrain style vehicles, with tire pressures of 10 psi or less can operate on the beach and are the preferred transportation method. However, use of heavy equipment on the beach can be allowed provided it is taken off the beach by 1600 AST local time every night using an approved and designated beach access. All driving on the beach shall be between the high-water mark and the water's edge. This measure will be conducted in accordance with FEMA/USFWS/DNER-approved SOP for employee sea turtle awareness training, project site preparation, and nest season monitoring. 18. Removal of vegetation, fence installation, construction activities, and light installation shall be limited within 50 meters from the high tide line. This measure will be conducted in accordance with FEMA/USFWS/DNER-approved SOP for employee sea turtle awareness training, project site preparation, and nest season monitoring, 19. No construction involving lights shall be used during the nesting season. For Puerto Rico and the USVI, a lighting plan utilizing sea turtle friendly lights for coastal areas is required where lights will be repaired or newly installed. Lighting plans shall be sent to USFWS at: caribbean es@fws.gov. Once the plan is fully implemented, a lighting inspection shall be conducted by the Applicant to identify and correct any remaining problematic lights. For projects in Puerto Rico the project shall comply with Puerto Rico Law 218 of 2008, Control and Prevention of the Lighting Pollution of Puerto Rico and the PR EQB 2016 Regulation to Control and Prevent Light Contamination. 20. If an unmarked sea turtle crawl is encountered during or prior to project activity, the work crew shall not disturb the integrity of the crawl. Project personnel shall follow the crawl up the beach or into the dune and contact the qualified sea turtle monitor to inform of the location of the crawl. Care shall be taken to avoid walking or driving equipment over or near a crawl so that a potential nest is not damaged. This measure will be conducted in accordance with FEMA/USFWS/DNER-approved SOP for employee sea turtle awareness training, project site preparation, and nest season monitoring, 21. Any collision(s) with and/or injury to any sea turtle in water, occurring during the construction of a project, shall be reported immediately to DNER/DPNR and NMFS's Protected Resources Division (PRD) at (1-727-824-5312) or by email to takereport.nmfsser@noaa.gov and SAJ-RD- Enforcement@usace.army.mil. This measure will be conducted in accordance with FEMA/USFWS/DNER-approved SOP for employee sea turtle awareness training, project site preparation, and nest season monitoring. 22. All sea turtle sightings and incidents involving nesting sea turtles or hatchlings shall be reported to DNER/DPNR and the USFWS: Caribbean Ecological Services Field Office, P.O. Box 491, Boquerón, PR, Marelisa Rivera - Deputy Field Supervisor, 787-851-7297 extension 2016, 787-510-5207, marelisa\_rivera@fws.gov. This measure will be conducted in accordance with FEMA/USFWS/DNER approved SOP for employee sea turtle awareness training, project site preparation, and nest season monitoring.

- Endangered Species Act (ESA)- Conservation measures for Coquí Guajón (Puerto Rican Rock Frog) a. Inform all project personnel about the potential presence of the coquí guajón in areas where the proposed work will be conducted. A preconstruction meeting shall be conducted to inform all project personnel about the requirement of avoiding harm to the species. An educational poster or sign with photos or illustrations of the species should be displayed at the project site. b. Project boundaries, buffer zones and areas to be excluded or protected shall be clearly marked in the project plans and in the field, prior to any construction activity, including removal of vegetation and earth movement. c. Erosion and Sedimentation Control Best Management Practices (BMP's) shall be included in the project scope of work when working within or adjacent to the coqui guajón habitat (e.g. rivers, streams, drainages, ravines, big boulder areas) to avoid or minimize erosion and sedimentation. Sediment runoff from the project can adversely affect the species and its habitat by filling the caves and crevices were the species occurs and uses to lay its eggs. As water is a very important component of the species' habitat, any stream, creek, or similar body of water with the habitat characteristics indicated above may harbor the species, hence it shall be protected to the maximum extent possible. d. All project associated with streams, rivers, bridges, culverts, etc., shall follow the Post-Disaster Guidance for Repair, Replacement, and Clean-up Projects in Streams and Waterways of Puerto Rico from Hurricane María. The guide is available at: i. https://www.fws.gov/southeast/pdf/guidelines/post-disaster-guidance-for-projects-in-streams-and-waterways-of-puertorico.pdf
- Resource Conservation and Recovery Act, aka Solid Waste Disposal Act (RCRA) 1. The Applicant shall handle, manage, and dispose of all types of hazardous waste in accordance with requirements of local, state, and federal laws, regulations, and ordinances. In addition, the Applicant shall ensure that all debris is separated and disposed of in a manner consistent with the PR DNER guidelines at a permitted site or landfill. The contractor/applicant will be responsible for the proper disposition of construction debris in authorized landfills providing the name, location, coordinates and permits of the facility to the corresponding authorities. 2. Unusable equipment, debris, white goods, scrap metal any other material shall be

disposed in approved manner and location. In the event significant items are discovered during the implementation or development of the project the Applicant shall handle, manage and dispose petroleum products, hazardous materials and toxic waste in accordance to the requirements of the local and federal agencies. Noncompliance with these requirements may jeopardize receipt of federal funds.

#### **EHP Additional Info**

There is no additional environmental historical preservation on **FAASt [Maunabo Streetlighting] (Distribution)**.

### **Final Reviews**

### **Final Review**

Reviewed By MARTINEZ SANTIAGO, ISRAEL

Reviewed On 05/02/2022 3:39 PM AST

#### **Review Comments**

FEMA Final Review completed. Project is ready for Recipient review.

### **Recipient Review**

Reviewed By Salgado, Gabriel

Reviewed On 05/02/2022 3:46 PM AST

### **Review Comments**

Recipient review completed. Next step: Pending Applicant review.

### **Fixed Cost Offer**

As a Public Assistance (PA) Subrecipient PR Electric Power Authority (000-UA2QU-00), in accordance with Section 428 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act, the Applicant agrees to accept a permanent work subaward based on a Fixed Cost Offer in the amount of \$6,443,757.40 for subaward number 10499 under Disaster # 4339. The Applicant accepts responsibility for all costs above the Fixed Cost Offer.

The Applicant understands that by participating in this pilot program they will be reimbursed for allowable costs in accordance with 2 CFR Part 200, and the reimbursement will not exceed the Fixed Cost Offer. The Applicant also understands that by agreeing to this Fixed Cost Offer, they will not receive additional funding related to the facilities or sites included in the subaward. The Applicant also acknowledges that failure to comply with the requirements of applicable laws and regulations governing assistance provided by FEMA and the PA Alternative Procedures Pilot Program Guidance (such as procurement and contracting; environmental and historic preservation compliance; and audit and financial accountability) may lead to loss of federal funding.

### **Project Signatures**

Signed By Nieves, Ezequiel

Signed On 05/04/2022

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