

Damage description and dimensions

East Region

Bid Package E1-3

Department of Homeland Security Federal Emergency Management Agency

General Info

Project #	101909 P/W # 7768	Project Type	Specialized
Project Category	E - Buildings and Equipment	Applicant	PR INDUSTRIAL DEVELOPMENT COMPANY (000-UEQ77-00)
Project Title	L-140-1 Cataño Ward - Humacao	Event	4339DR-PR (4339DR)
Project Size	Large	Declaration Date	9/21/2017
Activity Completion Date	9/20/2022	Incident Start Date	9/17/2017
Process Step	Obligated	Incident End Date	11/15/2017

Damage Description and Dimensions

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

Damage #219083; S082906600

General Facility Information:

- **Facility Type:** Building
- **Building Type:** Warehouse
- **Facility:** PRIDCO Building ID - S-0829-0-66-00
- **Facility Description:** Industrial building used (leased) for manufacturing and commercial activities. One-story building, with main structure components (beams, columns ground slabs and foundation) comprised of reinforced concrete and concrete masonry Units (CMU). Roof structure composed of precast concrete beams with precast concrete roof deck planks (PORETE) with built-up roofing material. The building was constructed in 1966 and has approximate roof dimensions of 90FT x 123FT; [31FT x 11FT] (restroom unit roofs) for an approximate total roof area of 11,411SF.
- **Year Built:** 1966
- **Location Description:** Carr. PR-3 Km. 85.6 Bo. Catano, Humacao, PR
- **GPS Latitude/Longitude:** 18.13848, -65.82601
- **Number of Stories:** 1

General Damage Information:

- **Date Damaged:** 9/20/2017
- **Cause of Damage:** high winds, wind driven rain and wind blown debris

Building Damage:

1.0 Roof:

- Building Exterior, 11,411 SF of Waterproofing Membrane, 2-Ply Styrene butadienne Styrene (SBS) Modified Bituminous composite reinforced roofing system, damaged by high winds, wind driven rain & wind blown debris. , 0% work completed.
- Building Exterior, Aluminum Flashing, 479 LF, 8 inch Cross section length, Ga. 0.032, damaged by high winds. , 0% work completed.
- Building Exterior, 2 each of Exhaust fan, Aluminum roof fan extractor cap w/ gravity self-acting back draft damper face-flush install, 36in Fan Size, 1-HP Motor, 115/230V,

damaged by high winds , 0% work completed.

- Building Interior, 11,411 SF of Ceiling Paint , primer and 2 coats latex paint, damaged by wind driven rain. , 0% work completed.

2.0 Wall:

- Building Exterior, 7,910 SF of Exterior Paint , primer and 2 coats latex paint, damaged by high winds & wind driven rain , 0% work completed.
- Building Exterior, 2 each of Window Security Bars, 9 FT wide x 6 FT high, wrought iron bars , 24 vertical bars, 8 horizontal bars, bent and damaged by wind blown debris impact. SEE IMG_0567, 0% work completed.
- Building Interior, 6 each of Aluminum Jalousie Window, 3 FT wide x 6 FT high, Miami Type, Ga 0.062, heavy duty hardware, damaged by high winds, 0% work completed.
- Building Interior, 2 each of Single Wood Door, 3 FT wide x 7 FT high, Solid Core, mahogany, 1-3/4" Thick, damaged by wind driven rain , 0% work completed.
- Building Interior, 1 each of Single Wood Door, 2.5 FT wide x 7 FT high, Solid Core, mahogany, 1-3/4" Thick, damaged by wind driven rain, 0% work completed.
- Building Interior, 7,135 SF of Interior Paint , primer and 2 coats latex paint, damaged by wind driven rain. , 0% work completed.
- Building Interior, 1 each of Aluminum Jalousie Window, 3 FT wide x 3.33 FT high, Miami Type, Ga 0.062, heavy duty hardware, damaged by high winds, 0% work completed.

3.0 Site:

- Exterior Site, Chain Link Fence , 130 LF long x 6 FT high, Ga. No. 9, Post - 2.5 inch diam galv., 3-strands Barbed Wire (4-point), damaged by high winds. SEE IMG_0547 & IMG_0551., 0% work completed.

Damage #219084; S083406700

General Facility Information:

- **Facility Type:** Building
- **Building Type:** Warehouse
- **Facility:** PRIDCO Building ID - S-0834-0-67-00
- **Facility Description:** Industrial building used (leased) for manufacturing and commercial activities. One-story building, with main structure components (beams, columns ground slabs and foundation) comprised of reinforced concrete and concrete masonry Units (CMU). Roof structure composed of precast concrete beams with precast concrete roof deck planks (PORETE) with built-up roofing material. The building was constructed in 1967 and has approximate roof dimensions of 90FT x 125FT; 11FT x 31FT (restroom unit roofs) for an approximate total roof area of 11,591SF.
- **Year Built:** 1967
- **Location Description:** PR #3 Km. 85.6 Humacao PR 00661
- **GPS Latitude/Longitude:** 18.13916, -65.82562
- **Number of Stories:** 1

General Damage Information:

- **Date Damaged:** 9/20/2017
- **Cause of Damage:** Wind Driven Rain, High Winds & Wind Blown Debris

Building Damage:

1.0 Roof:

- Building Exterior, 1 each of Ventilator (1 missing bolt + dent cover), 34 IN, High Winds , High Driven Rain & Wind Blown Debris. , 0% work completed.
- Building Exterior, Aluminum Flashing (Damage), 36 IN x 40 IN, Ga. 0.032, High Driven Winds, High Winds & Wind Blown Debris. , 0% work completed.
- Building Exterior, Roof Downspout, 10 FT long x 4 IN in diameter, metal, damaged by high winds, 0% work completed.

2.0 Wall:

- Building Exterior, 7,971 SF of Exterior Paint, primer and 2 coats latex paint, damaged by high winds and wind driven rain, 0% work completed.
- Building Interior, 1 each of Jalousie Aluminum Window, 36 IN x 40 IN , High Winds & High Driven Rain., 0% work completed.

Damage #219099; T070806500

General Facility Information:

- **Facility Type:** Building
- **Building Type:** Warehouse
- **Facility:** PRIDCO BUILDING ID - T-0708-0-65-00
- **Facility Description:** Industrial building used (leased) for manufacturing and commercial activities. One-story building, with main structure components (beams, columns ground slabs and foundation) comprised of reinforced concrete and concrete masonry Units (CMU). Roof structure composed of precast concrete beams with precast concrete roof deck planks (PORETE) with built-up roofing material. The building was constructed in 1965 and has approximate roof dimensions of 95FT x 130FT; 12FT x 32FT (restroom unit roofs) for an approximate total roof area of 12,734SF.
- **Year Built:** 1965
- **Location Description:** Humacao, PR
- **GPS Latitude/Longitude:** 18.13942, -65.82645
- **Number of Stories:** 1

General Damage Information:

- **Date Damaged:** 9/20/2017
- **Cause of Damage:** High winds, wind driven rain and wind blown debris.

Building Damage:

1.0 Roof:

- Building Exterior, 12,734 SF of Waterproofing Membrane, 2-Ply Styrene butadienne Styrene (SBS) Modified Bituminous composite reinforced roofing system damaged by high winds and wind driven rain , 0% work completed.
- Building Exterior, Aluminum Flashing, 546 LF long, Ga. 0.032, 1.5 FT cross-section length, damaged by high winds, 0% work completed.
- Building Exterior, 2 each of Exhaust Fans (Complete Units), 5 FT long x 5 FT wide, Aluminum roof fan extractor cap w/ gravity self-acting back draft damper face-flush install, 36in Fan Size, 1-HP Motor, 115/230V damaged by high winds and wind driven rain, 0% work completed.
- Building Interior, 12,734 SF of Ceiling Paint, primer and 2 coats latex paint damaged by wind driven rain, 0% work completed.

2.0 Wall:

- Building Exterior, 3 each of Aluminum jalousie window, 2 FT wide x 4 FT high, Miami Type, ga 0.062, heavy duty hardware, damaged by high winds, 0% work completed.
- Building Exterior, 1 each of Aluminum jalousie window, 3 FT wide x 6 FT high, Miami Type, ga 0.062, heavy duty hardware, damaged by high winds, 0% work completed.
- Building Exterior, 8,340 SF of Exterior Paint, primer and 2 coats latex paint damaged by high winds and wind driven rain , 0% work completed.
- Building Interior, 4 each of Wood Door at Bathrooms, 3 FT wide x 7 FT high, Solid Core, mahogany, 1-3/4" thick,damaged by wind driven rain., 0% work completed.
- Building Interior, 7,116 SF of Interior Paint, primer and 2 coats latex paint, damaged by wind driven rain., 0% work completed.

3.0 Site:

- Exterior Site, Chain link fence, 145 LF long x 6 FT high, Ga. No. 9, Post - 2-½" inch diam galv., 3-strands Barbed Wire (4-point), damaged by high winds, 0% work completed.

Final Scope

219083 **S082906600**

Work to be Completed

The applicant will utilize contracts for repairs to the building, to restore facilities back to pre-disaster condition within the existing footprint.

1.0 Roof:

- A. Remove and replace 11,411 SF of Waterproofing Membrane, 2-Ply Styrene butadienne Styrene (SBS) Modified Bituminous
- B. Remove and replace with in kind material, design, color, hardware and workmanship Aluminum Flashing, 479 LF, 8-inch Cross section length, Ga. 0.032
- C. Remove and Replace 2 each of Exhaust fan, Aluminum roof fan extractor cap w/ gravity self-acting back draft damper face-flush install, 36in Fan Size, 1-HP Motor, 115/230V
- D. Prep and paint with in kind material, design, color, hardware and workmanship 11,411 SF of Ceiling

2.0 Wall:

- A. Prep and paint with in kind material, design, color, hardware and workmanship 7,910 SF of Exterior Surfaces
- B. Remove and replace with in kind material, design, color, hardware and workmanship 2 each of Window Security Bars, 9 FT wide x 6 FT high
- C. Remove and replace with in kind material, design, color, hardware and workmanship 6 each of Aluminum Jalousie Window, 3 FT wide x 6 FT high, Miami Type, Ga 0.062
- D. Remove and replace with in kind material, design, color, hardware and workmanship 2 each of Single Wood Door, 3 FT wide x 7 FT high, Solid Core, mahogany, 1-3/4" Thick
- E. Remove and replace with in kind material, design, color, hardware and workmanship 1 each of Single Wood Door, 2.5 FT wide x 7 FT high, Solid Core, mahogany, 1-3/4" Thick
- F. Prep and paint with in kind material, design, color, hardware and workmanship 7,135 SF of Interior Surfaces
- G. Remove and replace within kind material, design, color, hardware and workmanship 1 each of Aluminum Jalousie Window, 3 FT wide x 3.33 FT high, Miami Type, Ga 0.062

3.0 Site:

- A. Remove and replace with in kind material, design, color, hardware and workmanship 130 LF long of 6 FT high, Chain Link Fence, Ga. No. 9, Post - 2.5 inch diam galv., 3-strands Barbed Wire

Work to be Completed Total:

Cost Estimating Format Total:

Cost Estimating Format (CEF) Project Total:

Scope Notes:

1. All site estimates for work to be completed were generated using RS means Software Data/Year 2020 Quarter 4 – PUERTO RICO / URBAN (PRU) and Future Price Factors for Zone 1-Urban. See document labeled *SP101909-DR4339PR-CEFDI219083.xlsx*.

Project Notes:

1. GPS coordinates have been checked for accuracy.
2. For work to be completed, the applicant is required to obtain any necessary Federal, State, and Local permits (including environmental), prior to the start of construction.
3. Please look for Maintenance Records in applicant's section. See document labeled: *DR4339PR-PRIDCO Property Maintenance Procedures (English Version).pdf*
4. All procurement documents attached have been reviewed and will be in accordance with state and federal requirements. See attached documents labeled: *DR4339PR-Procurement Policy (Spanish Version) PRIDCO.pdf*
5. To qualify as in-kind repair/replacement, work must be done in-kind to match all physical and visual aspects, including design, color, texture, hardware, profile, and workmanship to preserve the historic character of the building. Replacements shall not be performed until all efforts have been made to repair the existing features to original condition. In the event that replacement is necessary, and the features are irreparable, only in-kind materials and procedures shall be used. Should the Applicant decide not to repair/replace in-kind, then a revised scope of work must be submitted for review. FEMA recommends that repairs be completed in accordance with the Secretary of the Interior's Standards for the Treatment of Historic Properties – Restoration of Rehabilitation Standards” -<https://www.nps.gov/tps/standards/four-treatments/treatment-rehabilitation.html>
6. PUBLIC ASSISTANCE ALTERNATIVE PROCEDURES DR-4339: This Project/PW/Project is a PA Alternative Procedures Project and funding is capped based on the fixed-cost estimate agreements for each project. The fixed-cost estimate agreements for each project can be found as attachments in GM/EMMIE. In accordance with the Public Assistance Alternative Procedures (Section 428) Guide for Permanent Work, FEMA-4339-DR-PR, funding can be shared across all of a Subrecipient's PA Alternative Procedures projects. The cumulative amount of all fixed cost estimates prepared for one Subrecipient represents a total consolidated subaward (total amount for use across all of a Subrecipient's damaged facilities). A Subrecipient may have one GM Project/PW/Project or multiple GM Projects/PW/Projects. If a Subrecipient has multiple GM Projects/PW/Projects, once the work has been completed on an individual GM Project/PW/Project or when a Subrecipient determines that there will be a cost underrun for an individual GM Project/PW/Project, a Subrecipient may request to move funding from one GM Project/PW/Project to another.
7. Cost share for this version is 90%. All work and costs in this project fall between September 20, 2017 and September 20, 2022.

406 HMP Scope

1) Eligible Damages to be Mitigated:

(a) S082906600 at Lat/Long 18.13848, -65.82601.

DI 219083

1.0 Roof:

1.1 Building Exterior, 11,411 SF of Waterproofing Membrane, 2-Ply Styrene butadienne Styrene (SBS) Modified Bituminous composite reinforced roofing system, damaged by high winds, wind driven rain & wind blown debris. , 0% work completed.

1.2 Building Exterior, 2 each of Exhaust fan, Aluminum roof fan extractor cap w/ gravity self-acting back draft damper face-flush install, 36in Fan Size, 1-HP Motor, 115/230V, damaged by high winds , 0% work completed.

2.0 Site:

2.1 Exterior Site, Chain Link Fence , 130 LF long x 6 FT high, Ga. No. 9, Post - 2.5 inch diam galv., 3-strands Barbed Wire (4-point), damaged by high winds. SEE IMG_0547 & IMG_0551., 0% work completed.

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

(a) S082906600.

DI 219083

Proposed Mitigation for Item a-1.1 (11,411 S.F. Roof Waterproofing Membrane):

1. Add sbs air barrier layer to 11,411 S.F. of Roof

Proposed Mitigation for Item a-1.2 (2/EA Exhaust Fans):

1. When replacing the exhaust fans, add an anchoring system for each unit that will resist expected wind pressure during a similar event to prevent them from being overturned and damaged

Proposed Mitigation for Item a-2.1 (6 ft high 130 ft long Chain Link Fence):

1. Recommend the use galvanized steel pipes 3 IN in diameter Schedule 40. 153 L.F. for 6 ft high fence (17 poles of 9 ft each).

V) Hazard Mitigation Proposal (HMP) Cost:

TO BE PROVIDED BY COST-ESTIMATING GROUP FOR DR-4339-PR

DI 219083

Total Cost for Pre-disaster (PA) Repair/Replacement SOW for Eligible Damages to be Mitigated =

Total Cost of Hazard Mitigation Proposal Scope of Work =

-

Net Cost of Hazard Mitigation = (PA SOW Cost - HMP SOW Cost)

Hazard Mitigation Total CEF:

Total Mitigation Costs: (Net Cost + CEF) =

V) Cost Effectiveness Calculation:

HMP Cost/ Benefit = (Net Cost of Hazard Mitigation/ Cost for HM Eligible PA Repair SOW) x 100

Ratio of HMP C/B = 31.78 % < 100% and Appendix J.

In accordance with FEMA Public Assistance Program and Policy Guide (PAPPG) V3.1 April 2018, Chapter 2.VII. Section C cost effectiveness is achieved when" the mitigation measure is specifically listed in Appendix J: Cost-Effective Hazard Mitigation Measures, AND the cost of the mitigation measure does not exceed 100 percent of the eligible repair cost (prior to any insurance reductions) of the facility or facilities for which the mitigation measure applies." The Hazard Mitigation Proposed cost estimate is listed in the Appendix J and within 100% of the eligible repair and restoration costs and meets cost effective requirements.

219084 S083406700

Work to be Completed

The applicant will utilize contracts for repairs to the building, to restore facilities back to pre-disaster condition within the existing footprint.

1.0 Roof:

- A. Remove and replace 1 each of Ventilator (1 missing bolt + dent cover), 34 IN
- B. Remove and replace with in kind material, design, color, hardware and workmanship 36 IN x 40 IN Aluminum Flashing, Ga. 0.032
- C. Remove and replace with in kind material, design, color, hardware and workmanship 10 FT long of Roof Downspout, 4 IN in diameter, metal

2.0 Wall:

- A. Prep and paint with in kind material, design, color, hardware and workmanship 7,971 SF of Exterior Paint, primer and 2

coats latex paint, damaged by high winds and wind driven rain, 0% work completed.

B. Remove and replace with in kind material, design, color, hardware and workmanship 1 each of Jalousie Aluminum Window, 36 IN x 40 IN

Work to be Completed Total:

Scope Notes:

1. All site estimates for work to be completed were generated using RS means Software Data/Year 2020 Quarter 4 – PUERTO RICO / URBAN (PRU) and Future Price Factors for Zone 1-Urban. See document labeled *SP101909-DR4339PR-Cost Estimate.xlsx*.

406 HMP Scope

I) Eligible Damages to be Mitigated:

(b) S083406700 at Lat/Long 18.13916, -65.82562.

DI 219084

1.0 Roof:

1.1 Building Exterior, 1 each of Ventilator (1 missing bolt + dent cover), 34 IN, High Winds , High Driven Rain & Wind Blown Debris. , 0% work completed.

1.2 Building Exterior, Roof Downspout, 10 FT long x 4 IN in diameter, metal, damaged by high winds, 0% work completed.

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

(b) S083406700.

DI 219084

Proposed Mitigation for Item b-1.1 (1/EA Exhaust Fans):

1. When replacing the exhaust fans, add an anchoring system for each unit that will resist expected wind pressure during a similar event to prevent them from being overturned and damaged

Proposed Mitigation for Item b-1.2 (10 ft Down Spouts):

1. When replacing the downspouts, add a downspout band every 5 feet. Total of 1 extra downspout bands.

¶) Hazard Mitigation Proposal (HMP) Cost:

TO BE PROVIDED BY COST-ESTIMATING GROUP FOR DR-4339-PR

DI 219084

Total Cost for Pre-disaster (PA) Repair/Replacement SOW for Eligible Damages to be Mitigated =

Total Cost of Hazard Mitigation Proposal Scope of Work =

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Net Cost of Hazard Mitigation = (PA SOW Cost - HMP SOW Cost)

Hazard Mitigation Total Soft Costs:

Total Mitigation Costs: (Net Cost + Soft Costs) =

¶) Cost Effectiveness Calculation:

HMP Cost/ Benefit = (Net Cost of Hazard Mitigation/ Cost for HM Eligible PA Repair SOW) x 100

Ratio of HMP C/B = 37.75 % < 100% and Appendix J.

In accordance with FEMA Public Assistance Program and Policy Guide (PAPPG) V3.1 April 2018, Chapter 2.VII. Section C cost effectiveness is achieved when" the mitigation measure is specifically listed in Appendix J: Cost-Effective Hazard Mitigation Measures, AND the cost of the mitigation measure does not exceed 100 percent of the eligible repair cost (prior to any insurance reductions) of the facility or facilities for which the mitigation measure applies." The Hazard Mitigation Proposed cost estimate is listed in the Appendix J and within 100% of the eligible repair and restoration costs and meets cost effective requirements.

219099 **T070806500**

Work to be Completed

The applicant will utilize contracts for repairs to the building, to restore facilities back to pre-disaster condition within the existing footprint.

1.0 Roof:

- A. Remove and replace 12,734 SF of Waterproofing Membrane, 2-Ply Styrene butadienne Styrene (SBS) Modified Bituminous
- B. Remove and replace with in kind material, design, color, hardware and workmanship 546 LF long of Aluminum Flashing, Ga. 0.032, 1.5 FT
- C. Remove and replace 2 each of Exhaust Fans (Complete Units), 5 FT long x 5 FT wide, Aluminum roof fan extractor cap w/ gravity self-acting back draft damper face-flush install, 36in Fan Size, 1-HP Motor, 115/230V

D. Prep and paint with in kind material, design, color, hardware and workmanship 12,734 SF of Ceiling Surfaces

2.0 Wall:

- A. Remove and replace with in kind material, design, color, hardware and workmanship 3 each of Aluminum jalousie window, 2 FT wide x 4 FT high, Miami Type, ga 0.062
- B. Remove and replace with in kind material, design, color, hardware and workmanship 1 each of Aluminum jalousie window, 3 FT wide x 6 FT high, Miami Type, ga 0.062
- C. Prep and paint with in kind material, design, color, hardware and workmanship 8,340 SF of Exterior Surfaces
- D. Remove and replace with in kind material, design, color, hardware and workmanship 4 each of Wood Door at Bathrooms, 3 FT wide x 7 FT high, Solid Core, mahogany, 1-3/4" thick
- E. Prep and paint with in kind material, design, color, hardware and workmanship 7,116 SF of Interior Surfaces

3.0 Site:

- A. Remove and replace with in kind material, design, color, hardware and workmanship 145 LF long of 6 FT high Chain link fence, Ga. No. 9, Post - 2-1/2" inch diam galv., 3-strands Barbed Wire

Work to be Completed Total:

Cost Estimating Format Total:

Scope Notes:

- 1. All site estimates for work to be completed were generated using RS means Software Data/Year 2020 Quarter 4 – PUERTO RICO / URBAN (PRU) and Future Price Factors for Zone 1-Urban. See document labeled *SP101909-DR4339PR-CEFDI219099.xlsx*.

406 HMP Scope

I) Eligible Damages to be Mitigated:

(c) T070806500 at Lat/Long 18.13942, -65.82645.

DI 219099

1. Roof:

- 1.1. Building Exterior, 12,734 SF of Waterproofing Membrane, 2-Ply Styrene butadienne Styrene (SBS) Modified Bituminous composite reinforced roofing system damaged by high winds and wind driven rain , 0% work completed.

1.2. Building Exterior, 2 each of Exhaust Fans (Complete Units), 5 FT long x 5 FT wide, Aluminum roof fan extractor cap w/ gravity self-acting back draft damper face-flush install, 36in Fan Size, 1-HP Motor, 115/230V damaged by high winds and wind driven rain, 0% work completed.

2. Site:

2.1. Exterior Site, Chain link fence, 145 LF long x 6 FT high, Ga. No. 9, Post - 2-½" inch diam galv., 3-strands Barbed Wire (4-point), damaged by high winds, 0% work completed.

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

(c) T070806500.

DI 219099

Proposed Mitigation for Item c-1.1 (12,734 S.F. Roof Waterproofing Membrane):

1. Add sbs air barrier layer to 12,734 S.F. of Roof

Proposed Mitigation for Item c-1.2 (2/EA Exhaust Fans):

1. When replacing the exhaust fans, add an anchoring system for each unit that will resist expected wind pressure during a similar event to prevent them from being overturned and damaged

Proposed Mitigation for Item c-2.1 (6 ft high 145 ft long Chain Link Fence):

1. Recommend the use galvanized steel pipes 3 IN in diameter Schedule 40. 171 L.F. for 6 ft high fence (19 poles of 9 ft each).

¶) Hazard Mitigation Proposal (HMP) Cost:

TO BE PROVIDED BY COST-ESTIMATING GROUP FOR DR-4339-PR

DI 219099

Total Cost for Pre-disaster (PA) Repair/Replacement SOW for Eligible Damages to be Mitigated =

Total Cost of Hazard Mitigation Proposal Scope of Work =

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Net Cost of Hazard Mitigation = (PA SOW Cost - HMP SOW Cost)

Hazard Mitigation Total CEF:

Total Mitigation Costs: (Net Cost + CEF) =

¶) Cost Effectiveness Calculation:

HMP Cost/ Benefit = (Net Cost of Hazard Mitigation/ Cost for HM Eligible PA Repair SOW) x 100

Ratio of HMP C/B = 30.93 % < 100% and Appendix J.

In accordance with FEMA Public Assistance Program and Policy Guide (PAPPG) V3.1 April 2018, Chapter 2.VII. Section C cost effectiveness is achieved when "the mitigation measure is specifically listed in Appendix J: Cost-Effective Hazard Mitigation Measures, AND the cost of the mitigation measure does not exceed 100 percent of the eligible repair cost (prior to any insurance reductions) of the facility or facilities for which the mitigation measure applies." The Hazard Mitigation Proposed cost estimate is listed in the Appendix J and within 100% of the eligible repair and restoration costs and meets cost effective requirements.

FOR INTERNAL USE ONLY

Cost

Code	Quantity	Unit	Total Cost	Section
9201 (PAAP Fixed Estimate (No Value - Tracking Purposes Only))	1.00	Lump Sum		Completed
9000 (CEF Cost Estimate - Inspection Services)	1.00	Lump Sum		Uncompleted
9000 (CEF Cost Estimate - Resident Engineer)	1.00	Lump Sum		Uncompleted
9000 (CEF Cost Estimate)	1.00	Lump Sum		Uncompleted
9201 (PAAP Fixed Estimate (No Value - Tracking Purposes Only))	1.00	Lump Sum		Completed
9001 (Contract)	1.00	Lump Sum		Uncompleted
9201 (PAAP Fixed Estimate (No Value - Tracking Purposes Only))	1.00	Lump Sum		Completed
9000 (CEF Cost Estimate - Inspection Services)	1.00	Lump Sum		Uncompleted
9000 (CEF Cost Estimate - Resident Engineer)	1.00	Lump Sum		Uncompleted
9000 (CEF Cost Estimate)	1.00	Lump Sum		Uncompleted

CRC Gross Cost
 Total 406 HMP Cost
 Total Insurance Reductions

CRC Net Cost
 Federal Share (90.00%)
 Non-Federal Share (10.00%)

Award Information

Version Information

Version #	Eligibility Status	Current Location	Bundle Number	Project Amount	Cost Share	Federal Share Obligated	Date Obligated
0	Eligible	Awarded	PA-02-PR-4339-PW-07768(8747)		90 %		5/18/2021

Drawdown History

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

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.
- Additional subawards can be included in this consolidation during the 12 months following the date of declaration. Subrecipient agrees to fund any overrun associated with completion of the work.
- 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.
- 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

11/19/2020

GENERAL INFORMATION

Event: 4339DR-PR

Project: ST 101909

Category of Work: Cat E - Buildings & Equipment

Applicant: PR Industrial Development Company

Event Type: Hurricane

Cause of Loss: Wind / Wind Driven Rain

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

Total Public Assistance Amount: Repair Amount + HMP Amount)

COMMERCIAL INSURANCE INFORMATION

Does the Applicant have a Commercial Policy: Yes

Policy Issued by: 88-CP-000313485-0

Policy Number: Multinational Insurance Company

Policy Period: From: 3/16/2017 To: 3/16/2018

Policy Valuation: Blanket Policy

Policy Limits:

RCV or ACV: Replacement Cost Value

Deductible Type: Per Occurrence: 5%

Does the Applicant's Commercial Policy extend coverage for the damage described in this project: No

NUMBER OF DAMAGED INVENTORIES INCLUDED IN THIS PROJECT: (3)

Damaged Inventory (DI) #219083:

S082906600

Number of damaged locations included in this DI:(1)

Location Description: Carr. PR-3 Km. 85.6 Bo. Catano, Humacao, PR

GPS Location: 18.13848, -65.82601

Cause of Loss: Wind / Wind Driven Rain

SOV / Schedule #: NA

SOV / Schedule Amount: NA

Applicable Deductible Amount: NA

Damage Inventory Amount: Repair Amount + HMP Amount)

Prior Obtain and Maintain Requirement:

No prior insurance requirements were found for this facility.

Reduction(s):

No Reduction is being made to this facility. Location is not on the SOV. Unscheduled location coverage has been exhausted.

Obtain and Maintain Requirement:

An Obtain & Maintain Requirement is being required for Building, for the peril of Wind (all wind associated losses including "wind driven rain" for **S082906600** in the amount of Repair Amount - Uninsurable Repair Costs + HMP Amount) Please see "SP 101909 - DR4339PR - Insurance CEF - DI 219083".

Damaged Inventory (DI) #219084:

S083406700

Number of damaged locations included in this DI: (1)

Location Description: PR #3 Km. 85.6 Humacao PR 00661

GPS Location: 18.13916, -65.82562

Cause of Loss: Wind / Wind Driven Rain

SOV / Schedule #: NA

SOV / Schedule Amount: NA

Applicable Deductible Amount: NA

Damage Inventory Amount: Repair Amount + HMP Amount)

Prior Obtain and Maintain Requirement:

No prior insurance requirements were found for this facility.

Reduction(s):

No Reduction is being made to this facility. Location is not on the SOV. Unscheduled location coverage has been exhausted.

Obtain and Maintain Requirement:

An Obtain & Maintain Requirement is being required for Building, for the peril of Wind (all wind associated losses including "wind driven rain" for **S083406700** in the amount of Repair Amount + HMP Amount)

Damaged Inventory (DI) #219099:

T070806500

Number of damaged locations included in this DI: (1)

Location Description: Humacao, PR

GPS Location: 18.13942, -65.82645

Cause of Loss: Wind / Wind Driven Rain

SOV / Schedule #: NA

SOV / Schedule Amount: NA

Applicable Deductible Amount: NA

Damage Inventory Amount: (Repair Amount + HMP Amount)

Prior Obtain and Maintain Requirement:

No prior insurance requirements were found for this facility.

Reduction(s):

No Reduction is being made to this facility. Location is not on the SOV. Unscheduled location coverage has been exhausted.

Obtain and Maintain Requirement:

An Obtain & Maintain Requirement is being required for Building, for the peril of Wind (all wind associated losses including "wind driven rain" for **T070806500** the amount of Repair Amount –Uninsurable Repair Costs + HMP Amount). Refer to “*SP 101909 - DR4339PR - Insurance CEF - DI219099*”.

Anticipated 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 to 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).

FEMA Policy 206-086-1

H. Subsequent Assistance. When a facility that received assistance is damaged by the same hazard in a subsequent disaster:

1. If the applicant failed to maintain the required insurance from the previous disaster, then the facility is not eligible for assistance in any subsequent disaster.
2. Upon proof that the applicant maintained its required insurance, FEMA will reduce assistance in the subsequent disaster by the amount of insurance required in the previous disaster regardless of:
 - a. The amount of any deductible or self-insured retention the applicant assumed N/A.

Obtain and Maintain Requirements:

44 CFR § 206.253 Insurance requirements for facilities damaged by disasters other than flood.

(a) Prior to approval of a Federal grant for the restoration of a facility and its contents which were damaged by a disaster other than flood, the recipient shall notify the Regional Administrator of any entitlement to insurance settlement or recovery for such facility and its contents. The Regional Administrator shall reduce the eligible costs by the actual amount of insurance proceeds relating to the eligible costs.

(b)

(1) Assistance under section 406 of the Stafford Act will be approved only on the condition that the recipient obtain and maintain such types and amounts of insurance as are reasonable and necessary to protect against future loss to such property from the types of hazard which caused the major disaster. The extent of insurance to be required will be based on the eligible damage that was incurred to the damaged facility as a result of the major disaster. The Regional Administrator shall not require greater types and extent of insurance than are certified as reasonable by the State Insurance Commissioner.

(2) Due to the high cost of insurance, some applicants may request to insure the damaged facilities under a blanket insurance policy covering all their facilities, an insurance pool arrangement, or some combination of these options. Such an arrangement may be accepted for other than flood damages. However, if the same facility is damaged in a similar future disaster, eligible costs will be reduced by the amount of eligible damage sustained on the previous disaster.

(c) The Regional Administrator shall notify the recipient of the type and amount of insurance required. The recipient may request that the State Insurance Commissioner review the type and extent of insurance required to protect against future loss to a disaster-damaged facility, the Regional Administrator shall not require greater types and extent of insurance than are certified as reasonable by the State Insurance Commissioner.

(d) The requirements of section 311 of the Stafford Act are waived when eligible costs for an insurable facility do not exceed. The Regional Administrator may establish a higher waiver amount based on hazard mitigation initiatives which reduce the risk of future damages by a disaster similar to the one which resulted in the major disaster declaration which is the basis for the application for disaster assistance.

(e) The recipient shall provide assurances that the required insurance coverage will be maintained for the anticipated life of the restorative work or the insured facility, whichever is the lesser.

(f) No assistance shall be provided under section 406 of the Stafford Act for any facility for which assistance was provided as a result of a previous major disaster unless all insurance required by FEMA as a condition of the previous assistance has been obtained and maintained.

Final Obtain and Maintain requirement amount will be determined during the closeout process after the final actual eligible costs to repair or replace the insurable facility have been determined.

FEMA Policy 206-086-1

F. Timeframes for Obtaining Insurance. FEMA will only approve assistance under the condition that an applicant obtains and maintains the required insurance.

The applicant must document its commitment to comply with the insurance requirement with proof of insurance.

If an applicant cannot insure a facility prior to grant approval (for example, if a building is being reconstructed), the applicant may provide a letter of commitment stating that they agree to the insurance requirement and will obtain the types and extent of insurance required, followed at a later date by proof of insurance once it is obtained. In these cases, the applicant should insure the property:

- a. When the applicant resumes use of or legal responsibility for the property (for example, per terms of construction contract or at beneficial use of the property); or
- b. When the scope of work is complete.

FEMA and the recipient will verify proof of insurance prior to grant closeout to ensure the applicant has complied with the insurance requirement.

An applicant should notify FEMA—in writing through the recipient—of changes to their insurance which impact their ability to satisfy the insurance requirement after it provides proof of insurance to FEMA. This includes changes related to self-insurance. If an applicant fails to do this, FEMA may de-obligate assistance and not provide assistance in a future disaster.

Christopher Troupe, PA Insurance Specialist (CTR), CRC West

O&M Requirements

Insured Peril	Item Type	Description	Required Coverage Amount
Wind	Building	An Obtain & Maintain Requirement is being required for Building, for the peril of Wind (all wind associated losses including "wind driven rain" for S082906600 in the amount of Repair Amount - Uninsurable Repair Costs + HMP Amount) Please see "SP 101909 - DR4339PR -InsuranceCEF - DI 219083".	
Wind	Building	An Obtain & Maintain Requirement is being required for Building, for the peril of Wind (all wind associated losses including "wind driven rain" for S083406700 in the amount of Repair Amount + HMP Amount)	
Wind	Building	An Obtain & Maintain Requirement is being required for Building, for the peril of Wind (all wind associated losses including "wind driven rain" for T070806500 the amount of Repair Amount -Uninsurable Repair Costs + HMP Amount). Refer to "SP 101909 - DR4339PR - InsuranceCEF - DI 219099".	

406 Mitigation

There is no additional mitigation information on **L-140-1 Cataño Ward - Humacao**.

Environmental Historical Preservation

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

Yes

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.
- Resource Conservation and Recovery Act, aka Solid Waste Disposal Act (RCRA) Conditions: 1. The Applicant shall handle, manage, and dispose of all solid and 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 JCA/EQB guidelines at a permitted site or landfill. 2. For asbestos containing material and lead base paint the Applicant shall handle, manage, and dispose of all solid and 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 DNER/EQB guidelines at a permitted site or landfill or provide evidence of the close out permit from DNER/EQB for activities of remediation, abatement or removal of those materials. 3. 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) Conditions for Epicrates Inornatus (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 #: 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 #: 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. For Virgin Islands Boas in St. Thomas and Steven's Cay US Virgin Islands (VI boas have not been reported on St. Croix or St. John): 7. Follow the same guidance above but contact the VI Division of Fish and Wildlife (VIDFW), for technical assistance (340-775-6762) and capture of any VI boas. For information on USVI boa, please visit: <https://ecos.fws.gov/ecp/species/3247> b. The VIDFW has developed site-specific VI boa protocol; Applicants will be responsible for executing conservation measures recommended by VIDFW. Final project report to be submitted to USFWS. The Applicant must provide documentation at close-out that proves the completion of required Conservation Measures.

EHP Additional Info

There is no additional environmental historical preservation on **L-140-1 Cataño Ward - Humacao**.

Final Reviews

Final Review

Reviewed By COLON, JAVIER

Reviewed On 12/14/2020 7:33 AM AST

Review Comments

To the best of my knowledge, this project is ready to continue the review process

Recipient Review

Reviewed By Rivera, Pablo

Reviewed On 03/18/2021 11:11 AM AST

Review Comments

Recipient review limited to; spot-checking the DDD, SOW, HMP, costs and factors, codes/standards; review for post-award or closeout challenges; review of concerns communicated by the Subrecipient. The Subrecipient is responsible to fully review the project to ensure all aspects of project formulation are accurate and properly captured, including but not limited to: DDD; SOW necessary for repair/replacement of the disaster-caused damages; proper application of codes and standards including the consensus-based codes and standards, if applicable; 406 mitigation and BCA; cost estimate, or actual costs for work completed, necessary to complete the eligible scope of work, including all necessary costs such as engineering design services when appropriate; 50% repair versus replacement calculation including necessary back up documentation; insurance reductions based on actual or anticipated insurance proceeds; insurance obtain and maintain requirements; EHP reviews and conditions.

Fixed Cost Offer

As a Public Assistance (PA) Subrecipient PR INDUSTRIAL DEVELOPMENT COMPANY (000-UEQ77-00), 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 for subaward number 7768 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 Muriante, Jamille

Signed On 04/30/2021

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