Regular (Q2) Meeting Minutes (DR-4673-FL)
Collier County Local Mitigation Strategy (LMS) Working Group
Conference Rooms A/B, South Regional Library
8065 Lely Cultural Pkwy, Naples, FL
34113
0930hrs, April 21, 2023

1. Approval of
    a. 24 March 2023 Special Meeting Minutes – **Approved**

2. **Project(s) for Review:**
    a. Riverbend MHP Sewer Reconstruction Mitigation Project – **Approved | No Sponsor Identified**
        - POC: Phil Lutzi | pjlutzi@hotmail.com | (607) 257-0777

    b. Port of the Isles (PIO) Community Improvement District (CID) – **LMSWG reviewed and approved CONTINGENT on POI CID adopting 2020 LMS via resolution, along with FEMA approval**
        - Backup Water Storage -
        - WWTP Water Filter
        - 6 x Mobile Generators for Lift Station Power Backup – **Recommended that non-SFHA location be established for mobile generators to be stored when not in use**
        - Road Elevation/Waterline Hardening/Well Head Elevation
        - POC: Dan Truckey | dtruckey@poicid.com | (920) 737-1345

    c. Naples Community Hospital (NCH) – **Projects approved**
        - Downtown (Baker) Window -Wind Retrofit
        - Downtown & North Naples Flood Mitigation (Combined)
        - POC: Jennifer Smith | Jennifer.Smith@nchmd.org | 239-624-1528

    d. Lee County Electric Cooperative (LCEC) – **3 of 6 approved. See notes below.**
        - **Fred Smith/Bostic-CMI projects (4 total) all combined as of 05/19/2023**
            - Fred Smith/Bostic-City of Marco Island (CMI) Substation (Combined)
            - Fred Smith-CMI-Circuit Breakers (Combined)
        - ~~Everglades City – Saferoom –~~ **Determined not feasible after meeting due to preliminary Collier RiskMAP product indicating area being within LiMWA Coastal A Zone**
        - Belle Meade – Saferoom – **Re-evaluating to address LMSWG concerns regarding associated on-site equipment during an event**
        - ~~Pad Mount/Underground Utility – CMI – **LMSWG requested more information –**~~ **Project not approved and not moving forward with Collier LMSWG as of 05/19/2023**
        - Carnestown/CMI Looping Transmission System-19 miles
        - POC: Karen Vivian | Karen.Vivian@lcec.net | 239-656-2236

    e. South Florida Water Management District (SFWMD) – **Project approved after verification that tower would have a supporting onsite stationary generator that would be built to compliance. Approved CONTINGENT upon FEMA approval of SFWMD Resolution adopting 2020 LMS.**

- Big Cypress Basin Microwave Tower
- POC: Carolina Maran | Email: cmaran@sfwmd.gov | 561-682-6868

3. Quorum for meeting (In-Person):

4. Membership

   a. Storm Gewirtz – Project Manager III (Licensed) – Stormwater Management – TMSD (Collier BCC) - **Approved**
   b. Robert (Bob) Dorta – Floodplain Coordinator – City of Naples – **Approved**
   c. Karen Vivian – Supervisor, Financial Planning & Analysis – LCEC – **Approved**
   d. Carolina Maran – Chief Resiliency Officer – SFWMD - **Approved**

5. Grant Opportunities –

   a. HMGP-
      - Hurricane IAN (DR-4673-FL)
        - HMGP Timeline attached
        - NOFA Open: February 24, 2023
        - NOFA Close: May 31, 2023
        - $36,063,710
        - Jurisdictions need to consider 404-Mitigation and 406-Public Assistance Consultants
          - For 404-Mitigation, homeowners must be sponsored by a local government entity
          - **County Virtual Workshop – March 25, 2023 – 9:00am – 12:00pm**
      - BRIC/FMA
        - Next cycle – September 2023 (estimated)

      - FDEM Grant Contact Information
        - FDEM HMGP POC: Jared Jaworski (Jared.Jaworski@em.myflorida.com | 850-544-8372)
        - FDEM is requiring 100% digital submission for grant submissions
        - FDEM Portal
          - Register at www.fdemportal.com/grants
          - Sub-applicants must request access prior to the application deadline to avoid late submissions.
   b. Hurricane Loss Mitigation Program Retrofit Grant (HLMP)
      - 215.559, F.S. Hurricane Loss Mitigation Program
        - Sunset repealed to 2032
        - https://www.floridadisaster.org/dem/mitigation/hurricane-loss-mitigation-program/

        - FDEM HLMP Program Manager
          - Grant Goodwin
            - 850-815-4516
            - Grant.Goodwin@em.myflorida.com
      - Gulf Coast State College Mobile Home Tie Down Program
        - https://www.floridadisaster.org/dem/mitigation/hurricane-loss-

mitigation-program/
- Contact Gulf Coast State College at 850-872-3807

6. LMS Update
   a. LMS update was approved by FEMA on May 7, 2020. The LMS expires on April 13, 2025.
   b. **Next 5-Year Update Cycle Begins Soon with expiration letters being sent out from FDEM in six-month cycle (18, 12, 6 months prior)**
   c. Kick-off meetings (18-24 months prior to expiration)
   d. Updated Florida Review Tool and LMS Crosswalk
   e. FL-391 "LMS Update Manual Training" will be offered in the near future

7. Other News –
   a. Collier County's Comprehensive Emergency Management Plan (CEMP) –
      - Approved by the Florida Division of Emergency Management (FDEM) on 02/28/2021
      - Approved by BCC at the 04/13/2021 Regular Meeting.
   b. Flood News
   c. Wildfire News
   d. Other News
      - 2022 LMS Annual Recertification approved 01/31/2023
      - Safeguarding Tomorrow through Ongoing Risk Mitigation (STORM) Revolving Loan Fund
        - https://www.floridadisaster.org/dem/mitigation/safeguarding-tomorrow-through-ongoing-risk-mitigation-storm-revolving-loan-fund/
      - **NEW FEMA HMA Guidance released on 03/23/2023**
        - https://www.fema.gov/grants/mitigation/hazard-mitigation-assistance-guidance

8. Next regular meeting: **21 July 2023**, 0930hrs, location **South Regional Library**.
   a. Meeting adjourned at **11:45AM**

ATTACHMENT(S)

1) PROJECT WORKSHEET FOR REVIEW: Riverbend MHP Sewer Reconstruction Mitigation Project

2) PROJECT WORKSHEETS FOR REVIEW: Port of the Isles (PIO) Community Improvement District (CID)
   a) Backup Water Storage
   b) WWTP Water Filter
   c) 6 x Mobile Generators for Lift Station Power Backup
   d) Road Elevation/Waterline Hardening/Well Head Elevation

3) PROJECT WORKSHEETS FOR REVIEW: Naples Community Hospital (NCH)
   a) Downtown (Baker) Window -Wind Retrofit
   b) Downtown & North Naples Flood Mitigation (Combined)

4) PROJECT WORKSHEETS FOR REVIEW: Lee County Electric Cooperative (LCEC)
   a) Fred Smith/Bostic-City of Marco Island (CMI) Substation (Combined)/ Fred Smith-CMI-Circuit Breakers (Combined) – **Projects (2 + 2) combined by LCEC, but same end cost as of 05/19/2023**
   ~~b) Everglades City – Saferoom –~~ **Not approved and LCEC will not proceed as of 05/19/2023**
   c) Belle Meade – Saferoom – **Future meeting per LMSWG RFI**
   ~~d) Pad Mount/Underground Utility – CMI – Future meeting per LMSWG RFI~~ **Not approved and LCEC will not proceed as of 05/19/2023**
   e) Carnestown/CMI Looping Transmission System-19 miles – **LCEC agreed to have listed last for Collier's Hurricane Ian HMGP PPL ranking due to high cost. Potentially will move to Tier two (2) funding in the future.**

5) PROJECT WORKSHEETS FOR REVIEW South Florida Water Management District (SFWMD) - Big Cypress Basin Microwave Tower

6) March 24, 2023, Collier LMSWG Special Meeting Minutes

7) **SEPARATE ATTACHMENT** – SFWMD Resolution 2023-0409 – Collier LMS Adoption – 04/13/2023

PART I

Project Title:	**Riverbend of Naples Sewer Reconstruction for Flood Mitigation**
Project Location:	777 Walkerbilt Road Naples FL 34110

TYPE PROJECT ("X" appropriate box, or explain)

Acquisition	Elevation	Relocation	Reconstruction	Essential Facility Retrofit	Non-Residential Retrofit	New Construction	Special Considerations or Impact Statement, if any: Storm surge from Hurricane Ian inundated the community with over 8 feet of water. New design for sewer system replacement is required to mitigate for future storm surge events.
			X				

What Goal or Objective does this address (See Sec. 3.0, LMS)?	Objective 1.2.1
What hazard(s) does this project or initiative correct/mitigate?	Flood, Tropical Cyclone, Sea Level Rise
Who (what community) benefits from this project or initiative?	Riverbend of Naples Cooperative
Does this project or initiative address mitigation on NEW infrastructure or buildings?	NO
Does this project or initiative address mitigation on EXISTING infrastructure or buildings?	YES
Project or Initiative Description:	Replace current gravity sewer system with a low-pressure sewer system capable of withstanding a 500-year return surge event. The new system will: 1) mitigate (eliminate) infiltration; 2) Protect community health (reduce sanitary sewer overflows to surrounding environment, maximize protection against system failure, provide resilient power system, provide additional capacity); 3) mitigate for future repetitive loss to existing gravity system; 4) facilitates rebuilding process as the new system will be located outside of the structure footprints.
Applicant and Responsible Agency:	**Riverbend of Naples**

Agency Contact Information		
NAME	E-Mail	PHONE
Phil Lutzi	pjlutzi@hotmail.com	(607) 257-0777

Potential Funding Source(s)	Grants and matching funds	**Estimated Cost**	**$950,000**

Suitability			**Score**	**For LMS WG only**
1	Appropriateness of the Measure	**5- High:** Reduces vulnerability and is consistent with Local Mitigation goals and plans for future growth. **3- Medium:** Needed but isn't tied to an identified vulnerability. **1- Low:** Inconsistent with LMS goal or plans.	5	
2	Community Acceptance	**5- High:** Endorsed by most communities. **3- Medium:** Endorsed by most; may create burdens. **1- Low:** Not likely to be endorsed by the communities.	5	
3	Environmental Impact	**5- Positive** effect on the environment. **3- No effect** **1- Adverse** effect on the environment.	5	
4	Legislation	**5- High:** Consistent with the existing laws and regulations. **3- Medium:** New legislation or policy change. **1- Low:** Conflicts with existing laws and regulations.	5	
5	Consistent with Existing Plans and Priorities.	**5- High:** Consistent with existing plans. **3- Medium:** Somewhat consistent. **1- Low:** Conflicts with existing plans and policies.	**5**	

Risk			Score	For LMS WG only
1	Scope of Benefits	**5- High:** Benefits all municipalities and unincorporated area directly or indirectly **3- Medium:** Benefits half or more, but **not all** the municipalities and/or the unincorporated areas. **1-Low:** Benefits less than half of the municipalities and/or the unincorporated area.	1	
2	Potential to protect human lives	**5- High:** More than 1,000 lives **3- Medium:** Up to 1,000 lives **0- Low:** No lifesaving potential.	3	
3	Importance of Benefits	**5- High:** Need for essential services. **3- Medium:** Need for other services. **1- Low:** No significant implications.	1	
4	Inconvenience of Problem Correction	**5- None:** Causes no problems. **3- Moderate:** Causes few problems. **1- Significant:** Causes much inconvenience (i.e. traffic jams, loss of power, delays).	5	
5	Economic Loss (Effect of implementing the project on local economy)	**5- Minimal:** Economic loss has little effect during the project. **3- Moderate:** Economic loss (minimal disruption). **1- Significant:** Economic loss (businesses closed; jobs affected).	**5**	
6	Number of People to directly Benefit	**5- High**: More than 20,000 **3- Medium:** 4,000 –20,000 **1- Lower:** Fewer than 4,000	1	

Cost			Score	For LMS WG only
1	Initial Cost	**5- Low:** $0 to $250,000 **3- Moderate:** $251,000 to $1 million **1- High:** More than $1 million	3	
2	Maintenance /Operating Costs	**5- Lower costs:** Less than 5% per annum of the initial cost. **3- Moderate:** 5%-10% per annum of the initial cost. **1- High:** More than 10% per annum of the initial cost.	5	
3	Environmental Cost Impact	**5- Positive** effect on the environment. **3- No effect** **1- Adverse** effect on the environment.	5	
4	Financing Availability	**5- Good:** Readily available with grants and/or matching funds **3- Moderate:** Limited matching funds available **1- Poor:** No funding sources or matching funds identified	5	
5	Repetitive FLOOD damages corrected (applies ONLY to NFIP-insured structure(s) w/two paid flood losses).	**5- High:** Corrects repetitive loss/severe repetitive loss **3- Medium:** Possible repetitive loss mitigation, but not documented. **1- Low:** Improves NFIP flood insured. **0-** Not a NFIP insured structure.	**0**	

PART I I

Benefit Cost Analysis – QUICK WORKSHEET

ESTIMATED PROJECT COST: $950,000

How many people directly are affected by this project? 80

low pressure sewer project costs

description	qty	UNIT	UNIT COST	COST
mobilitation	1	unit	$ 20,000.00	$ 20,000
HDPE Piping	2200	lf	$ 50.00	$ 110,000
grinder pump & panel	40	each	$ 12,000.00	$ 480,000
road repair	1	unit	$ 100,000.00	$ 100,000
decommission existing system	1	unit	$ 21,000.00	$ 20,769
				$ 730,769
contingency	15%			$ 109,615
Design + permitting	15%			$ 109,615
			Estimated cost	$ 950,000

ESTIMATED POTENTIAL DAMAGE AND LOSS COSTS:
Some possible costs are:

* Real Property Losses based on hazard mitigated: $ 5,000,000
** Furnishing/Equipment Losses: $ 800,000
** Alternate facility costs: _____
** Contract/rental costs: _____
** Other associated costs (list):
_____ _____
_____ _____
_____ _____

Total Cost for Future Damages & Associated Expenses: **$5,800,000** (NOTE: This figure should be detailed above.)

Statement to support above costs/losses: This sewer replacement project will mitigate the potential for damage to the existing clay sewer lines from forces created by a storm surge which could render the system inoperable. This would make the community uninhabitable making the 40 homes worthless (40 * 125K = $5,000,000)

DAMAGE & LOSS COSTS, divided by PROJECT COST = QUICK BCA RATIO

DAMAGE COSTS: ($5,800,000)
divided by = BCA 6.1
MITIGATION PROJECT $: ($ 950,000)

PART I

Project Title:	**Port of The Islands Water Storage Redundancy Project**
Project Location:	25005 Peacock Lane Naples, Florida 34114

TYPE PROJECT ("X" appropriate box, or explain)

Acquisition	Elevation	Relocation	Reconstruction	Essential Facility Retrofit	Non-Residential Retrofit	New Construction	Special Considerations or Impact Statement, if any:
						x	To eliminate the potential loss of water service to over 3,500 residents during hurricane events, an additional water storage tank at Port of The Islands Community Improvement District Water Plant will be furnished and installed.

What Goal or Objective does this address (See Sec. 3.0, LMS)?	Objective 1.1: Maximize the protection of the public's health, safety and welfare from natural, manmade and technological disasters. • Hazard Mitigated: All Hazards Objective 1.2: Reduce the potential loss of personal and public property caused by natural, manmade and technological disasters. • Hazard Mitigated: All Hazards
What hazard(s) does this project or initiative correct/mitigate?	Flood, Wind, Hurricane
Who (what community) benefits from this project or initiative?	3500 POI CID persons
Does this project or initiative address mitigation on NEW infrastructure or buildings?	No
Does this project or initiative address mitigation on EXISTING infrastructure or buildings?	Yes
Project or Initiative Description:	Provide backup water storage for POICID Water Plant.
Applicant and Responsible Agency:	**Port of The Islands Community Improvement District**

Agency Contact Information

NAME	E-Mail	PHONE
Dan Truckey	dtruckey@poicid.com	920-737-1345

Potential Funding Source(s)	FEMA 404 HMGP	**Estimated Cost**	**$1,000,000.00**

Suitability			Score	For LMS WG only
1	Appropriateness of the Measure	**5- High:** Reduces vulnerability and is consistent with Local Mitigation goals and plans for future growth. **3- Medium:** Needed but isn't tied to an identified vulnerability. **1- Low:** Inconsistent with LMS goal or plans.	5	
2	Community Acceptance	**5- High:** Endorsed by most communities. **3- Medium:** Endorsed by most; may create burdens. **1- Low:** Not likely to be endorsed by the communities.	5	
3	Environmental Impact	**5- Positive** effect on the environment. **3- No effect** **1- Adverse** effect on the environment.	3	
4	Legislation	**5- High:** Consistent with the existing laws and regulations. **3- Medium:** New legislation or policy change. **1- Low:** Conflicts with existing laws and regulations.	5	
5	Consistent with Existing Plans and Priorities.	**5- High:** Consistent with existing plans. **3- Medium:** Somewhat consistent. **1- Low:** Conflicts with existing plans and policies.	**5**	

Risk			Score	For LMS WG only
1	Scope of Benefits	**5- High:** Benefits all municipalities and unincorporated area directly or indirectly **3- Medium:** Benefits half or more, but **not all** the municipalities and/or the unincorporated areas. **1-Low:** Benefits less than half of the municipalities and/or the unincorporated area.	3	
2	Potential to protect human lives	**5- High:** More than 1,000 lives **3- Medium:** Up to 1,000 lives **0- Low:** No lifesaving potential.	5	
3	Importance of Benefits	**5- High:** Need for essential services. **3- Medium:** Need for other services. **1- Low:** No significant implications.	5	
4	Inconvenience of Problem Correction	**5- None:** Causes no problems. **3- Moderate:** Causes few problems. **1- Significant:** Causes much inconvenience (i.e. traffic jams, loss of power, delays).	5	
5	Economic Loss (Effect of implementing the project on local economy)	**5- Minimal:** Economic loss has little effect during the project. **3- Moderate:** Economic loss (minimal disruption). **1- Significant:** Economic loss (businesses closed; jobs affected).	**5**	
6	Number of People to directly Benefit	**5- High**: More than 20,000 **3- Medium:** 4,000 –20,000 **1- Lower:** Fewer than 4,000	1	

Cost			Score	For LMS WG only
1	Initial Cost	**5- Low:** $0 to $250,000 **3- Moderate:** $251,000 to $1 million **1- High:** More than $1 million	3	
2	Maintenance /Operating Costs	**5- Lower costs:** Less than 5% per annum of the initial cost. **3- Moderate:** 5%-10% per annum of the initial cost. **1- High:** More than 10% per annum of the initial cost.	5	
3	Environmental Cost Impact	**5- Positive** effect on the environment. **3- No effect** **1- Adverse** effect on the environment.	3	
4	Financing Availability	**5- Good:** Readily available with grants and/or matching funds **3- Moderate:** Limited matching funds available **1- Poor:** No funding sources or matching funds identified	5	
5	Repetitive FLOOD damages corrected (applies ONLY to NFIP-insured structure(s) w/two paid flood losses).	**5- High:** Corrects repetitive loss/severe repetitive loss **3- Medium:** Possible repetitive loss mitigation, but not documented. **1- Low:** Improves NFIP flood insured. **0-** Not a NFIP insured structure.	**0**	

PART I I
Benefit Cost Analysis – QUICK WORKSHEET

ESTIMATED PROJECT COST: $1,000,000

How many people directly are affected by this project? 3,500

ESTIMATED POTENTIAL DAMAGE AND LOSS COSTS:

Some possible costs are:

* Real Property Losses based on hazard mitigated: _____
** Furnishing/Equipment Losses: _____
** Alternate facility costs: _____
** Contract/rental costs: _____
** Other associated costs (list):
Loss of water utility service $93/day x 3500 — 5 days a year historically
_____ $1,627,500 x 5 years
_____ _____

Total Cost for Future Damages & Associated Expenses: **$8,137,500** (NOTE: This figure should be detailed above.)

Statement to support above costs/losses:

Historically the CID has lost access to Water line and well field 5 days per year during high water events.

DAMAGE & LOSS COSTS, divided by PROJECT COST = QUICK BCA RATIO

DAMAGE COSTS: (**$8,137,500**)
divided by = BCA 8.1375
MITIGATION PROJECT $: ($1,000,000.00)

PART I

Project Title:	**Port of the Islands WWTP - Nuove Energie Filter**
Project Location:	25005 Peacock Lane Naples, Florida 34114

TYPE PROJECT ("X" appropriate box, or explain)

Acquisition	Elevation	Relocation	Reconstruction	Essential Facility Retrofit	Non-Residential Retrofit	New Construction	Special Considerations or Impact Statement, if any:
						x	To eliminate the potential loss of water service to over 3,500 residents during flooding and high wind events, new water filters will be provided.

What Goal or Objective does this address (See Sec. 3.0, LMS)?	Objective 1.1: Maximize the protection of the public's health, safety and welfare from natural, manmade and technological disasters. • Hazard Mitigated: All Hazards Objective 1.2: Reduce the potential loss of personal and public property caused by natural, manmade and technological disasters. • Hazard Mitigated: All Hazards
What hazard(s) does this project or initiative correct/mitigate?	Flood, Wind, Hurricane
Who (what community) benefits from this project or initiative?	3500 POI CID persons
Does this project or initiative address mitigation on NEW infrastructure or buildings?	No
Does this project or initiative address mitigation on EXISTING infrastructure or buildings?	Yes
Project or Initiative Description:	Port of the Islands WWTP - Nuove Energie Filter
Applicant and Responsible Agency:	**Port of The Islands Community Improvement District**

Agency Contact Information

NAME	E-Mail	PHONE
Dan Truckey	dtruckey@poicid.com	920-737-1345

Potential Funding Source(s)	FEMA 404 HMGP	**Estimated Cost**	**$250,000**

Suitability			**Score**	**For LMS WG only**
1	Appropriateness of the Measure	**5- High:** Reduces vulnerability and is consistent with Local Mitigation goals and plans for future growth. **3- Medium:** Needed but isn't tied to an identified vulnerability. **1- Low:** Inconsistent with LMS goal or plans.	5	
2	Community Acceptance	**5- High:** Endorsed by most communities. **3- Medium:** Endorsed by most; may create burdens. **1- Low:** Not likely to be endorsed by the communities.	5	
3	Environmental Impact	**5- Positive** effect on the environment. **3- No effect** **1- Adverse** effect on the environment.	3	
4	Legislation	**5- High:** Consistent with the existing laws and regulations. **3- Medium:** New legislation or policy change. **1- Low:** Conflicts with existing laws and regulations.	5	
5	Consistent with Existing Plans and Priorities.	**5- High:** Consistent with existing plans. **3- Medium:** Somewhat consistent. **1- Low:** Conflicts with existing plans and policies.	**5**	

Risk			Score	For LMS WG only
1	Scope of Benefits	**5- High:** Benefits all municipalities and unincorporated area directly or indirectly **3- Medium:** Benefits half or more, but **not all** the municipalities and/or the unincorporated areas. **1-Low:** Benefits less than half of the municipalities and/or the unincorporated area.	3	
2	Potential to protect human lives	**5- High:** More than 1,000 lives **3- Medium:** Up to 1,000 lives **0- Low:** No lifesaving potential.	5	
3	Importance of Benefits	**5- High:** Need for essential services. **3- Medium:** Need for other services. **1- Low:** No significant implications.	5	
4	Inconvenience of Problem Correction	**5- None:** Causes no problems. **3- Moderate:** Causes few problems. **1- Significant:** Causes much inconvenience (i.e. traffic jams, loss of power, delays).	5	
5	Economic Loss (Effect of implementing the project on local economy)	**5- Minimal:** Economic loss has little effect during the project. **3- Moderate:** Economic loss (minimal disruption). **1- Significant:** Economic loss (businesses closed; jobs affected).	**5**	
6	Number of People to directly Benefit	**5- High**: More than 20,000 **3- Medium:** 4,000 –20,000 **1- Lower:** Fewer than 4,000	1	

Cost			Score	For LMS WG only
1	Initial Cost	**5- Low:** $0 to $250,000 **3- Moderate:** $251,000 to $1 million **1- High:** More than $1 million	5	
2	Maintenance /Operating Costs	**5- Lower costs:** Less than 5% per annum of the initial cost. **3- Moderate:** 5%-10% per annum of the initial cost. **1- High:** More than 10% per annum of the initial cost.	5	
3	Environmental Cost Impact	**5- Positive** effect on the environment. **3- No effect** **1- Adverse** effect on the environment.	3	
4	Financing Availability	**5- Good:** Readily available with grants and/or matching funds **3- Moderate:** Limited matching funds available **1- Poor:** No funding sources or matching funds identified	5	
5	Repetitive FLOOD damages corrected (applies ONLY to NFIP-insured structure(s) w/two paid flood losses).	**5- High:** Corrects repetitive loss/severe repetitive loss **3- Medium:** Possible repetitive loss mitigation, but not documented. **1- Low:** Improves NFIP flood insured. **0-** Not a NFIP insured structure.	**0**	

PART I I
Benefit Cost Analysis – QUICK WORKSHEET

ESTIMATED PROJECT COST: $250,000

How many people directly are affected by this project? 3,500

ESTIMATED POTENTIAL DAMAGE AND LOSS COSTS:

Some possible costs are:

* Real Property Losses based on hazard mitigated: _____
** Furnishing/Equipment Losses: _____
** Alternate facility costs: _____
** Contract/rental costs: _____
** Other associated costs (list):
Loss of wastewater utility service
_____ _____

Total Cost for Future Damages & Associated Expenses: **$1,000,000** (NOTE: This figure should be detailed above.)

Statement to support above costs/losses:

DAMAGE & LOSS COSTS, divided by PROJECT COST = QUICK BCA RATIO

DAMAGE COSTS: (**$1,000,000.00**)
divided by = BCA 4
MITIGATION PROJECT $: ($250,000)

PART I

Project Title:	**Port of The Islands Mobile Generators**
Project Location:	25005 Peacock Lane Naples, Florida 34114

TYPE PROJECT ("X" appropriate box, or explain)

Acquisition	Elevation	Relocation	Reconstruction	Essential Facility Retrofit	Non-Residential Retrofit	New Construction	Special Considerations or Impact Statement, if any:
						x	To eliminate the potential loss of sewer service to over 3,500 residents during flooding and high wind events, mobile generators will be provided for backup power at multiple lift stations.

What Goal or Objective does this address (See Sec. 3.0, LMS)?	Objective 1.1: Maximize the protection of the public's health, safety and welfare from natural, manmade and technological disasters. • Hazard Mitigated: All Hazards Objective 1.2: Reduce the potential loss of personal and public property caused by natural, manmade and technological disasters. • Hazard Mitigated: All Hazards
What hazard(s) does this project or initiative correct/mitigate?	Flood, Wind, Hurricane
Who (what community) benefits from this project or initiative?	3500 POI CID persons
Does this project or initiative address mitigation on NEW infrastructure or buildings?	No
Does this project or initiative address mitigation on EXISTING infrastructure or buildings?	Yes
Project or Initiative Description:	Mobile generators for 6 pump stations
Applicant and Responsible Agency:	**Port of The Islands Community Improvement District**

Agency Contact Information		
NAME	E-Mail	PHONE
Dan Truckey	dtruckey@poicid.com	920-737-1345

Potential Funding Source(s)	FEMA 404 HMGP	**Estimated Cost**	**$250,000**

Suitability			**Score**	**For LMS WG only**
1	Appropriateness of the Measure	**5- High:** Reduces vulnerability and is consistent with Local Mitigation goals and plans for future growth. **3- Medium:** Needed but isn't tied to an identified vulnerability. **1- Low:** Inconsistent with LMS goal or plans.	5	
2	Community Acceptance	**5- High:** Endorsed by most communities. **3- Medium:** Endorsed by most; may create burdens. **1- Low:** Not likely to be endorsed by the communities.	5	
3	Environmental Impact	**5- Positive** effect on the environment. **3- No effect** **1- Adverse** effect on the environment.	5	
4	Legislation	**5- High:** Consistent with the existing laws and regulations. **3- Medium:** New legislation or policy change. **1- Low:** Conflicts with existing laws and regulations.	5	
5	Consistent with Existing Plans and Priorities.	**5- High:** Consistent with existing plans. **3- Medium:** Somewhat consistent. **1- Low:** Conflicts with existing plans and policies.	**5**	

Risk			Score	For LMS WG only
1	Scope of Benefits	**5- High:** Benefits all municipalities and unincorporated area directly or indirectly **3- Medium:** Benefits half or more, but **not all** the municipalities and/or the unincorporated areas. **1-Low:** Benefits less than half of the municipalities and/or the unincorporated area.	5	
2	Potential to protect human lives	**5- High:** More than 1,000 lives **3- Medium:** Up to 1,000 lives **0- Low:** No lifesaving potential.	5	
3	Importance of Benefits	**5- High:** Need for essential services. **3- Medium:** Need for other services. **1- Low:** No significant implications.	5	
4	Inconvenience of Problem Correction	**5- None:** Causes no problems. **3- Moderate:** Causes few problems. **1- Significant:** Causes much inconvenience (i.e. traffic jams, loss of power, delays).	5	
5	Economic Loss (Effect of implementing the project on local economy)	**5- Minimal:** Economic loss has little effect during the project. **3- Moderate:** Economic loss (minimal disruption). **1- Significant:** Economic loss (businesses closed; jobs affected).	**5**	
6	Number of People to directly Benefit	**5- High**: More than 20,000 **3- Medium:** 4,000 –20,000 **1- Lower:** Fewer than 4,000	3	

Cost			Score	For LMS WG only
1	Initial Cost	**5- Low:** $0 to $250,000 **3- Moderate:** $251,000 to $1 million **1- High:** More than $1 million	5	
2	Maintenance /Operating Costs	**5- Lower costs:** Less than 5% per annum of the initial cost. **3- Moderate:** 5%-10% per annum of the initial cost. **1- High:** More than 10% per annum of the initial cost.	5	
3	Environmental Cost Impact	**5- Positive** effect on the environment. **3- No effect** **1- Adverse** effect on the environment.	5	
4	Financing Availability	**5- Good:** Readily available with grants and/or matching funds **3- Moderate:** Limited matching funds available **1- Poor:** No funding sources or matching funds identified	5	
5	Repetitive FLOOD damages corrected (applies ONLY to NFIP-insured structure(s) w/two paid flood losses).	**5- High:** Corrects repetitive loss/severe repetitive loss **3- Medium:** Possible repetitive loss mitigation, but not documented. **1- Low:** Improves NFIP flood insured. **0-** Not a NFIP insured structure.	**0**	

PART I I
Benefit Cost Analysis – QUICK WORKSHEET

ESTIMATED PROJECT COST: $250,000

How many people directly are affected by this project? 3,500

ESTIMATED POTENTIAL DAMAGE AND LOSS COSTS:

Some possible costs are:

* Real Property Losses based on hazard mitigated: _____
** Furnishing/Equipment Losses: _____
** Alternate facility costs: _____
** Contract/rental costs: _____
** Other associated costs (list):
Loss of wastewater utility service
_____ _____

Total Cost for Future Damages & Associated Expenses: **$1,000,000** (NOTE: This figure should be detailed above.)

Statement to support above costs/losses:

DAMAGE & LOSS COSTS, divided by PROJECT COST = QUICK BCA RATIO

DAMAGE COSTS: (**$1,000,000.00**)
divided by = BCA 4
MITIGATION PROJECT $: ($250,000)

PART I

Project Title:	**Port of the Islands Water Utility Hardening/Elevation Project**
Project Location:	25005 Peacock Lane Naples, Florida 34114

TYPE PROJECT ("X" appropriate box, or explain)

Acquisition	Elevation	Relocation	Reconstruction	Essential Facility Retrofit	Non-Residential Retrofit	New Construction	Special Considerations or Impact Statement, if any:
	x						To eliminate the potential loss of water service to over 3,500 residents during flooding events, the roadway and main water line leading to Port of The Islands Community Improvement District Wellfield needs to be elevated and hardened. This section of road is approximately 1.9mi in length and approximately 12 feet wide. The 6 inch water main also runs the length of the road from the wellfield to the water plant. This part of the roadway needs to be raised to the FEMA 500 year base flood elevation in order for the road to be passable for the next heavy rain event. The roadway would be raised through the use of compacted select fill. Hydraulic analysis would be required during preliminary engineering phase to refine the drainage culvert requirement. To minimize any erosion to the roadway in the event of any overtopping to the roadway, the roadway surface would be constructed of concrete pavement. For the length and wide of the impacted roadway 4 inch of stone base and 8 inches of concrete pavement. In addition to engineering services, geotechnical analysis will be required to establish select fill compaction, site settlement concerns and roadway base requirements. Surveying would be required to establish existing site contours to establish exact fill requirements and final road surface elevations.

What Goal or Objective does this address (See Sec. 3.0, LMS)?	Objective 3.1: Encourage designing and installing wind and/or water proofing components and target hardening for all designated proposed government owned critical facilities. • Hazard Mitigated: Flood, Tropical Cyclone
What hazard(s) does this project or initiative correct/mitigate?	Flood, Wind, Hurricane
Who (what community) benefits from this project or initiative?	3500 POI CID persons
Does this project or initiative address mitigation on NEW infrastructure or buildings?	No
Does this project or initiative address mitigation on EXISTING infrastructure or buildings?	Yes
Project or Initiative Description:	Elevate 1.9 MI road, harden 6IN water main, elevate 3 well heads and electrical out of flood plain.
Applicant and Responsible Agency:	**Port of The Islands Community Improvement District**

Agency Contact Information		
NAME	E-Mail	PHONE
Dan Truckey	dtruckey@poicid.com	920-737-1345

Potential Funding Source(s)	FEMA 404 HMGP	**Estimated Cost**	**$3,000,000.00**

Suitability			**Score**	**For LMS WG only**
1	Appropriateness of the Measure	**5- High:** Reduces vulnerability and is consistent with Local Mitigation goals and plans for future growth. **3- Medium:** Needed but isn't tied to an identified vulnerability.	5	

		1- Low: Inconsistent with LMS goal or plans.		
2	Community Acceptance	**5- High:** Endorsed by most communities. **3- Medium:** Endorsed by most; may create burdens. **1- Low:** Not likely to be endorsed by the communities.	5	
3	Environmental Impact	**5- Positive** effect on the environment. **3- No effect** **1- Adverse** effect on the environment.	5	
4	Legislation	**5- High:** Consistent with the existing laws and regulations. **3- Medium:** New legislation or policy change. **1- Low:** Conflicts with existing laws and regulations.	5	
5	Consistent with Existing Plans and Priorities.	**5- High:** Consistent with existing plans. **3- Medium:** Somewhat consistent. **1- Low:** Conflicts with existing plans and policies.	**5**	

Risk			Score	For LMS WG only
1	Scope of Benefits	**5- High:** Benefits all municipalities and unincorporated area directly or indirectly **3- Medium:** Benefits half or more, but **not all** the municipalities and/or the unincorporated areas. **1-Low:** Benefits less than half of the municipalities and/or the unincorporated area.	5	
2	Potential to protect human lives	**5- High:** More than 1,000 lives **3- Medium:** Up to 1,000 lives **0- Low:** No lifesaving potential.	5	
3	Importance of Benefits	**5- High:** Need for essential services. **3- Medium:** Need for other services. **1- Low:** No significant implications.	5	
4	Inconvenience of Problem Correction	**5- None:** Causes no problems. **3- Moderate:** Causes few problems. **1- Significant:** Causes much inconvenience (i.e. traffic jams, loss of power, delays).	3	
5	Economic Loss (Effect of implementing the project on local economy)	**5- Minimal:** Economic loss has little effect during the project. **3- Moderate:** Economic loss (minimal disruption). **1- Significant:** Economic loss (businesses closed; jobs affected).	**3**	
6	Number of People to directly Benefit	**5- High**: More than 20,000 **3- Medium:** 4,000 –20,000 **1- Lower:** Fewer than 4,000	3	

Cost			Score	For LMS WG only
1	Initial Cost	**5- Low:** $0 to $250,000 **3- Moderate:** $251,000 to $1 million **1- High:** More than $1 million	1	
2	Maintenance /Operating Costs	**5- Lower costs:** Less than 5% per annum of the initial cost. **3- Moderate:** 5%-10% per annum of the initial cost. **1- High:** More than 10% per annum of the initial cost.	5	
3	Environmental Cost Impact	**5- Positive** effect on the environment. **3- No effect** **1- Adverse** effect on the environment.	5	
4	Financing Availability	**5- Good:** Readily available with grants and/or matching funds **3- Moderate:** Limited matching funds available **1- Poor:** No funding sources or matching funds identified	5	
5	Repetitive FLOOD damages corrected (applies ONLY to NFIP-insured structure(s) w/two paid flood losses).	**5- High:** Corrects repetitive loss/severe repetitive loss **3- Medium:** Possible repetitive loss mitigation, but not documented. **1- Low:** Improves NFIP flood insured. **0-** Not a NFIP insured structure.	**0**	

PART I I
Benefit Cost Analysis – QUICK WORKSHEET

ESTIMATED PROJECT COST: $3,000,000

How many people directly are affected by this project? 3,500

ESTIMATED POTENTIAL DAMAGE AND LOSS COSTS:

Some possible costs are:

* Real Property Losses based on hazard mitigated: _____
** Furnishing/Equipment Losses: _____
** Alternate facility costs: _____
** Contract/rental costs: _____
** Other associated costs (list):
Loss of water utility service $93/day x 3500 — 5 days a year historically
_____ $1,627,500 x 5 years
_____ _____

Total Cost for Future Damages & Associated Expenses: **$8,137,500** (NOTE: This figure should be detailed above.)

Statement to support above costs/losses:

Historically the CID has lost access to Water line and well field 5 days per year during high water events

DAMAGE & LOSS COSTS, divided by PROJECT COST = QUICK BCA RATIO

DAMAGE COSTS: (**$8,137,500**)
divided by
MITIGATION PROJECT $: ($3,000,000.00) = BCA 2.7125

PART I

Project Title:	**NCH Downtown Entry Windows Replacement**
Project Location:	NCH Downtown Hospital – 350 7th st N, Naples, FL 34102

TYPE PROJECT ("X" appropriate box, or explain)

Acquisition	Elevation	Relocation	Reconstruction	Essential Facility Retrofit	Non-Residential Retrofit	New Construction	Special Considerations or Impact Statement, if any:
				X			All-hazards: Windows would increase facility hardening for security purposes. Windows on first level would increase resistance to forceable entry and glass breakage.

What Goal or Objective does this address (See Sec. 3.0, LMS)?	G3-O 3.1, G3-O3.3, G1-O1.1
What hazard(s) does this project or initiative correct/mitigate?	Flood and Tropical Cyclone
Who (what community) benefits from this project or initiative?	Collier County Population and visitors
Does this project or initiative address mitigation on NEW infrastructure or buildings?	No
Does this project or initiative address mitigation on EXISTING infrastructure or buildings?	Yes
Project or Initiative Description:	The acquisition and installation of Level E hurricane impact rated windows throughout the facility. (Approx 300 windows in total)
Applicant and Responsible Agency:	**NCH Healthcare System**

Agency Contact Information

NAME Jennifer Smith	E-Mail Jennifer.smith@nchmd.org	PHONE 239-624-1528

Potential Funding Source(s)	Hurricane Ian HMGP	**Estimated Cost**	**$3,600,000.00**

Suitability			**Score**	**For LMS WG only**
1	Appropriateness of the Measure	**5- High:** Reduces vulnerability and is consistent with Local Mitigation goals and plans for future growth. **3- Medium:** Needed but isn't tied to an identified vulnerability. **1- Low:** Inconsistent with LMS goal or plans.	**5**	
2	Community Acceptance	**5- High:** Endorsed by most communities. **3- Medium:** Endorsed by most; may create burdens. **1- Low:** Not likely to be endorsed by the communities.	**5**	
3	Environmental Impact	**5- Positive** effect on the environment. **3- No effect** **1- Adverse** effect on the environment.	**3**	
4	Legislation	**5- High:** Consistent with the existing laws and regulations. **3- Medium:** New legislation or policy change. **1- Low:** Conflicts with existing laws and regulations.	**5**	
5	Consistent with Existing Plans and Priorities.	**5- High:** Consistent with existing plans. **3- Medium:** Somewhat consistent. **1- Low:** Conflicts with existing plans and policies.	**5**	

Risk			Score	For LMS WG only
1	Scope of Benefits	**5- High:** Benefits all municipalities and unincorporated area directly or indirectly **3- Medium:** Benefits half or more, but **not all** the municipalities and/or the unincorporated areas. **1-Low:** Benefits less than half of the municipalities and/or the unincorporated area.	**5**	
2	Potential to protect human lives	**5- High:** More than 1,000 lives **3- Medium:** Up to 1,000 lives **0- Low:** No lifesaving potential.	**5**	
3	Importance of Benefits	**5- High:** Need for essential services. **3- Medium:** Need for other services. **1- Low:** No significant implications.	**5**	
4	Inconvenience of Problem Correction	**5- None:** Causes no problems. **3- Moderate:** Causes few problems. **1- Significant:** Causes much inconvenience (i.e., traffic jams, loss of power, delays).	**3**	
5	Economic Loss (Effect of implementing the project on local economy)	**5- Minimal:** Economic loss has little effect during the project. **3- Moderate:** Economic loss (minimal disruption). **1- Significant:** Economic loss (businesses closed; jobs affected).	**5**	
6	Number of People to directly Benefit.	**5- High**: More than 20,000 **3- Medium:** 4,000 –20,000 **1- Lower:** Fewer than 4,000	**5**	

Cost			Score	For LMS WG only
1	Initial Cost	**5- Low:** $0 to $250,000 **3- Moderate:** $251,000 to $1 million **1- High:** More than $1 million	**1**	
2	Maintenance /Operating Costs	**5- Lower costs:** Less than 5% per annum of the initial cost. **3- Moderate:** 5%-10% per annum of the initial cost. **1- High:** More than 10% per annum of the initial cost.	**5**	
3	Environmental Cost Impact	**5- Positive** effect on the environment. **3- No effect** **1- Adverse** effect on the environment.	**3**	
4	Financing Availability	**5- Good:** Readily available with grants and/or matching funds **3- Moderate:** Limited matching funds available **1- Poor:** No funding sources or matching funds identified	**5**	
5	Repetitive FLOOD damages corrected (applies ONLY to NFIP-insured structure(s) w/two paid flood losses).	**5- High:** Corrects repetitive loss/severe repetitive loss **3- Medium:** Possible repetitive loss mitigation, but not documented. **1- Low:** Improves NFIP flood insurance. **0-** Not a NFIP insured structure.	**1**	

PART I I
Benefit Cost Analysis – QUICK WORKSHEET

ESTIMATED PROJECT COST: ___$3,600,000.00_____

How many people directly are affected by this project? *Approx 5,000 NCH Employees, plus Collier County as a whole since NCH is a non-profit healthcare system servicing all of Collier and surrounding counties. (Collier County census 2020 – 375,752 not including seasonal influx).*

ESTIMATED POTENTIAL DAMAGE AND LOSS COSTS:

Some possible costs are:

* Real Property Losses based on hazard mitigated: $ 292M
** Furnishing/Equipment Losses: $ 10M
** Alternate facility costs: $ 10M
** Contract/rental costs: $ 10M
** Other associated costs (list):

_____
_____
_____

Total Cost for Future Damages & Associated Expenses: $322M
(NOTE: This figure should be detailed above.)

Statement to support above costs/losses:

Hurricane Irma estimated damage costs - $100,166 with additional damage due to historical storms. Hurricane Ian same estimates were $270,000. The above cost estimates are specific to the DNH campus only.
** Furnishings – loss of single floor would have cascaded effect on entire facility. Water inundation would result in complete loss of sub floors below breach. This would be a loss of technology equipment, furniture and support supplies**
** Alternate facility costs would be to recreate off site inpatient beds, and all other critical operational areas of the hospital**
** Rentals – mobile radiology, lab services equipment trailers, medical equipment**

DAMAGE & LOSS COSTS, divided by PROJECT COST = QUICK BCA RATIO

DAMAGE COSTS: ($322,000,000.00)
divided by = BCA 89.4
MITIGATION PROJECT $: ($3,600,000.00)

PART I

Project Title:	**NCH DNH/NN (Downtown) Flood Mitigation**
Project Location:	350 7th St N, Naples, FL 34102/11190 Heath Park BLVD, 34110

TYPE PROJECT ("X" appropriate box, or explain)

Acquisition	Elevation	Relocation	Reconstruction	Essential Facility Retrofit	Non-Residential Retrofit	New Construction	**Special Considerations or Impact Statement, if any:** NCH has historically experienced localized flooding as a result of severe storms both inside and out of hurricane season. This flooding has resulted in interior water intrusion. To better protect the campus to deter operational impacts, NHC is looking to install flood mitigation fencing at critical areas on the DNH and NNH campus. This would be a combination of manually installed and automatic activation flood barriers.
				X			

What Goal or Objective does this address (See Sec. 3.0, LMS)?	Objective 1.1, 1.2, 3.1
What hazard(s) does this project or initiative correct/mitigate?	Flood Mitigation
Who (what community) benefits from this project or initiative?	Collier County as a whole – NCH patients are throughout all of Collier County and the surrounding jurisdictions.
Does this project or initiative address mitigation on NEW infrastructure or buildings?	No
Does this project or initiative address mitigation on EXISTING infrastructure or buildings?	Yes
Project or Initiative Description:	The acquisition and installation of flood mitigation fencing (Dry flood proofing). To be installed in strategically identified/vulnerable points of entry. This would be a combination of manually installed and automatic activation flood barriers.
Applicant and Responsible Agency:	**NCH Healthcare System**

Agency Contact Information

NAME: Jennifer M. Smith	E-Mail: Jennifer.Smith@nchmd.org	PHONE: 239-624-1528

Potential Funding Source(s)	Hurricane Ian HMGP	**Estimated Cost**	**$800,000 (Previous $100K)**

Suitability			**Score**	**For LMS WG only**
1	Appropriateness of the Measure	**5- High:** Reduces vulnerability and is consistent with Local Mitigation goals and plans for future growth. **3- Medium:** Needed but isn't tied to an identified vulnerability. **1- Low:** Inconsistent with LMS goal or plans.	5	
2	Community Acceptance	**5- High:** Endorsed by most communities. **3- Medium:** Endorsed by most; may create burdens. **1- Low:** Not likely to be endorsed by the communities.	3	
3	Environmental Impact	**5- Positive** effect on the environment. **3- No effect** **1- Adverse** effect on the environment.	3	
4	Legislation	**5- High:** Consistent with the existing laws and regulations. **3- Medium:** New legislation or policy change. **1- Low:** Conflicts with existing laws and regulations.	5	
5	Consistent with Existing Plans and Priorities.	**5- High:** Consistent with existing plans. **3- Medium:** Somewhat consistent. **1- Low:** Conflicts with existing plans and policies.	3	

Risk			Score	For LMS WG only
1	Scope of Benefits	**5- High:** Benefits all municipalities and unincorporated area directly or indirectly **3- Medium:** Benefits half or more, but **not all** the municipalities and/or the unincorporated areas. **1-Low:** Benefits less than half of the municipalities and/or the unincorporated area.	5	
2	Potential to protect human lives	**5- High:** More than 1,000 lives **3- Medium:** Up to 1,000 lives **0- Low:** No lifesaving potential.	5	
3	Importance of Benefits	**5- High:** Need for essential services. **3- Medium:** Need for other services. **1- Low:** No significant implications.	5	
4	Inconvenience of Problem Correction	**5- None:** Causes no problems. **3- Moderate:** Causes few problems. **1- Significant:** Causes much inconvenience (i.e., traffic jams, loss of power, delays).	5	
5	Economic Loss (Effect of implementing the project on local economy)	**5- Minimal:** Economic loss has little effect during the project. **3- Moderate:** Economic loss (minimal disruption). **1- Significant:** Economic loss (businesses closed; jobs affected).	5	
6	Number of People to directly Benefit.	**5- High**: More than 20,000 **3- Medium:** 4,000 –20,000 **1- Lower:** Fewer than 4,000	5	

Cost			Score	For LMS WG only
1	Initial Cost	**5- Low:** $0 to $250,000 **3- Moderate:** $251,000 to $1 million **1- High:** More than $1 million	3	
2	Maintenance /Operating Costs	**5- Lower costs:** Less than 5% per annum of the initial cost. **3- Moderate:** 5%-10% per annum of the initial cost. **1- High:** More than 10% per annum of the initial cost.	5	
3	Environmental Cost Impact	**5- Positive** effect on the environment. **3- No effect** **1- Adverse** effect on the environment.	3	
4	Financing Availability	**5- Good:** Readily available with grants and/or matching funds **3- Moderate:** Limited matching funds available **1- Poor:** No funding sources or matching funds identified	5	
5	Repetitive FLOOD damages corrected (applies ONLY to NFIP-insured structure(s) w/two paid flood losses).	**5- High:** Corrects repetitive loss/severe repetitive loss **3- Medium:** Possible repetitive loss mitigation, but not documented. **1- Low:** Improves NFIP flood insurance. **0-** Not a NFIP insured structure.	1	

PART I I
Benefit Cost Analysis – QUICK WORKSHEET

ESTIMATED PROJECT COST: $800,000

How many people directly are affected by this project? 4,500 NCH employees, plus Collier County as a whole since NCH is a not-for-profit healthcare system. (Collier Census 2020 – 375,752)

ESTIMATED POTENTIAL DAMAGE AND LOSS COSTS:

Some possible costs are:

* Real Property Losses based on hazard mitigated:		$23.2M
** Furnishing/Equipment Losses:		$10M
** Alternate facility costs:		$2M
** Contract/rental costs:	$2M	
** Other associated costs (list):		

DNH - $ 15M (5% of total value - $292M)
NNH - $ 8.2 M (7% of total value -$138M)

Total Cost for Future Damages & Associated Expenses: **$37.2 M** (NOTE: This figure should be detailed above.)

Statement to support above costs/losses:

Hurricane Irma estimated flood damage costs - $100,166 with additional flood damage due to historical storms. Hurricane Ian damage estimates were $270,000.

** Majority of critical equipment is located on the first floor of the hospital – Operating rooms, Radiology, Laboratory, ED, central supply, and dialysis. **
** Alternate facility costs would be to recreate off site lab and radiology services**
** Rentals – mobile radiology and lab services equipment trailers**

DAMAGE & LOSS COSTS, divided by PROJECT COST = QUICK BCA RATIO

DAMAGE COSTS: ($ 37.2 M)
divided by
MITIGATION PROJECT $: ($ 800,000)

= BCA 46.5

PART I

Project Title:	**Fred Smith and Bostic Substations Equipment Elevation**
Project Location:	[FS] Lily Court, Marco Island, FL 34145 and [BS] 965 N. Barfield Dr. Marco Island, FL 34145

TYPE PROJECT ("X" appropriate box, or explain)

Acquisition	Elevation	Relocation	Reconstruction	Essential Facility Retrofit	Non-Residential Retrofit	New Construction	Special Considerations or Impact Statement, if any:
				X			Fred Smith and Bostic Substations support Marco Island. Their primary function is to provide a place to decrease and regulate voltage – step down transmission voltage to a useable distribution voltage. This project would mitigate damage due to storm surge that delays restoration.

What Goal or Objective does this address (See Sec. 3.0, LMS)?	Goal 3, Objective 3.1
What hazard(s) does this project or initiative correct/mitigate?	Flood, Tropical Cyclone
Who (what community) benefits from this project or initiative?	Marco Island
Does this project or initiative address mitigation on NEW infrastructure or buildings?	No
Does this project or initiative address mitigation on EXISTING infrastructure or buildings?	Yes
Project or Initiative Description:	Raise the elevation of equipment controls at the Fred Smith and Bostic Substations on Marco Island. The elevation will achieve success by ensuring that the utilities will be elevated to the minimum height of Base Flood Elevation (BFE) plus one foot. Reducing the risk of loss of building and its services.
Applicant and Responsible Agency:	**Lee County Electric Cooperative, Inc.**

Agency Contact Information		
NAME	E-Mail	PHONE
Karen Vivian	Karen.vivian@lcec.net	239-656-2236

Potential Funding Source(s)	LCEC Funds	**Estimated Cost**	**2,000,000.00**

Suitability			**Score**	**For LMS WG only**
1	Appropriateness of the Measure	**5- High:** Reduces vulnerability and is consistent with Local Mitigation goals and plans for future growth. **3- Medium:** Needed but isn't tied to an identified vulnerability. **1- Low:** Inconsistent with LMS goal or plans.	5	
2	Community Acceptance	**5- High:** Endorsed by most communities. **3- Medium:** Endorsed by most; may create burdens. **1- Low:** Not likely to be endorsed by the communities.	5	
3	Environmental Impact	**5- Positive** effect on the environment. **3- No effect** **1- Adverse** effect on the environment.	3	
4	Legislation	**5- High:** Consistent with the existing laws and regulations. **3- Medium:** New legislation or policy change. **1- Low:** Conflicts with existing laws and regulations.	5	
5	Consistent with Existing Plans and Priorities.	**5- High:** Consistent with existing plans. **3- Medium:** Somewhat consistent. **1- Low:** Conflicts with existing plans and policies.	**5**	

Risk			Score	For LMS WG only
1	Scope of Benefits	**5- High:** Benefits all municipalities and unincorporated area directly or indirectly **3- Medium:** Benefits half or more, but **not all** the municipalities and/or the unincorporated areas. **1-Low:** Benefits less than half of the municipalities and/or the unincorporated area.	3	
2	Potential to protect human lives	**5- High:** More than 1,000 lives **3- Medium:** Up to 1,000 lives **0- Low:** No lifesaving potential.	5	
3	Importance of Benefits	**5- High:** Need for essential services. **3- Medium:** Need for other services. **1- Low:** No significant implications.	5	
4	Inconvenience of Problem Correction	**5- None:** Causes no problems. **3- Moderate:** Causes few problems. **1- Significant:** Causes much inconvenience (i.e. traffic jams, loss of power, delays).	5	
5	Economic Loss (Effect of implementing the project on local economy)	**5- Minimal:** Economic loss has little effect during the project. **3- Moderate:** Economic loss (minimal disruption). **1- Significant:** Economic loss (businesses closed; jobs affected).	**5**	
6	Number of People to directly Benefit	**5- High**: More than 20,000 **3- Medium:** 4,000 –20,000 **1- Lower:** Fewer than 4,000	5	

Cost			Score	For LMS WG only
1	Initial Cost	**5- Low:** $0 to $250,000 **3- Moderate:** $251,000 to $1 million **1- High:** More than $1 million	1	
2	Maintenance /Operating Costs	**5- Lower costs:** Less than 5% per annum of the initial cost. **3- Moderate:** 5%-10% per annum of the initial cost. **1- High:** More than 10% per annum of the initial cost.	5	
3	Environmental Cost Impact	**5- Positive** effect on the environment. **3- No effect** **1- Adverse** effect on the environment.	3	
4	Financing Availability	**5- Good:** Readily available with grants and/or matching funds **3- Moderate:** Limited matching funds available **1- Poor:** No funding sources or matching funds identified	5	
5	Repetitive FLOOD damages corrected (applies ONLY to NFIP-insured structure(s) w/two paid flood losses).	**5- High:** Corrects repetitive loss/severe repetitive loss **3- Medium:** Possible repetitive loss mitigation, but not documented. **1- Low:** Improves NFIP flood insured. **0-** Not a NFIP insured structure.	**0**	

PART I I
Benefit Cost Analysis – QUICK WORKSHEET

ESTIMATED PROJECT COST: 2,000,000.00

How many people directly are affected by this project? 19,804 Meters [49,510 persons]

ESTIMATED POTENTIAL DAMAGE AND LOSS COSTS:

Some possible costs are:

* Real Property Losses based on hazard mitigated:	
** Furnishing/Equipment Losses:	$2,000,000.00
** Alternate facility costs:	
** Contract/rental costs:	
** Other associated costs (list):	
Loss of Function [Elec Utility]	$4,505,410.00

Total Cost for Future Damages & Associated Expenses: Minimum of $6,505,410.00 (NOTE: This figure should be detailed above.)

Statement to support above costs/losses: Substation provides electric service to approximately 19,804 meters, or roughly 49,510 individuals. Economic studies suggest that the value of electricity per day is roughly $182/per person. Elevating the circuit breakers is estimated to prevent the loss of the cost of the circuit breakers ($2,000,000.00), as well as to help prevent or reduce the duration of power outages following a flooding event. If half of the service population has their outage duration reduced by one (1) day [24,755 persons x $182/day x $1 day], the project is cost effective.

DAMAGE & LOSS COSTS, divided by PROJECT COST = QUICK BCA RATIO

DAMAGE COSTS: ($6,505,410)
divided by
MITIGATION PROJECT $: (2,000,000) = BCA 3.25

PART I

Project Title:	**Fred Smith and Bostic Substations Utilities Elevation**
Project Location:	[FS] Lily Court, Marco Island, FL 34145 and [BS] 965 N. Barfield Dr. Marco Island, FL 34145

TYPE PROJECT ("X" appropriate box, or explain)

Acquisition	Elevation	Relocation	Reconstruction	Essential Facility Retrofit	Non-Residential Retrofit	New Construction	Special Considerations or Impact Statement, if any:
				X			Fred Smith and Bostic Substation support Marco Island. Their primary function is to provide a place to decrease and regulate voltage – step down transmission voltage to a useable distribution voltage. This project would mitigate damage due to storm surge that delays restoration.

What Goal or Objective does this address (See Sec. 3.0, LMS)?	Goal 3, Objective 3.1
What hazard(s) does this project or initiative correct/mitigate?	Flood, Tropical Cyclone
Who (what community) benefits from this project or initiative?	Marco Island
Does this project or initiative address mitigation on NEW infrastructure or buildings?	No
Does this project or initiative address mitigation on EXISTING infrastructure or buildings?	Yes
Project or Initiative Description:	Raise the elevation of the electrical controls at the Fred Smith substation. The elevation will achieve success by ensuring that the electrical controls will be elevated to the minimum height of Base Flood Elevation (BFE) plus one foot. Reducing the risk of loss of building and its services.
Applicant and Responsible Agency:	**Lee County Electric Cooperative, Inc.**

Agency Contact Information

NAME	E-Mail	PHONE
Karen Vivian	Karen.vivian@lcec.net	239-656-2236

Potential Funding Source(s)	LCEC Funds	**Estimated Cost**	**4,000,000.00**

Suitability			**Score**	**For LMS WG only**
1	Appropriateness of the Measure	**5- High:** Reduces vulnerability and is consistent with Local Mitigation goals and plans for future growth. **3- Medium:** Needed but isn't tied to an identified vulnerability. **1- Low:** Inconsistent with LMS goal or plans.	5	
2	Community Acceptance	**5- High:** Endorsed by most communities. **3- Medium:** Endorsed by most; may create burdens. **1- Low:** Not likely to be endorsed by the communities.	5	
3	Environmental Impact	**5- Positive** effect on the environment. **3- No effect** **1- Adverse** effect on the environment.	3	
4	Legislation	**5- High:** Consistent with the existing laws and regulations. **3- Medium:** New legislation or policy change. **1- Low:** Conflicts with existing laws and regulations.	5	
5	Consistent with Existing Plans and Priorities.	**5- High:** Consistent with existing plans. **3- Medium:** Somewhat consistent. **1- Low:** Conflicts with existing plans and policies.	**5**	

Risk			Score	For LMS WG only
1	Scope of Benefits	**5- High:** Benefits all municipalities and unincorporated area directly or indirectly **3- Medium:** Benefits half or more, but **not all** the municipalities and/or the unincorporated areas. **1-Low:** Benefits less than half of the municipalities and/or the unincorporated area.	3	
2	Potential to protect human lives	**5- High:** More than 1,000 lives **3- Medium:** Up to 1,000 lives **0- Low:** No lifesaving potential.	5	
3	Importance of Benefits	**5- High:** Need for essential services. **3- Medium:** Need for other services. **1- Low:** No significant implications.	5	
4	Inconvenience of Problem Correction	**5- None:** Causes no problems. **3- Moderate:** Causes few problems. **1- Significant:** Causes much inconvenience (i.e. traffic jams, loss of power, delays).	5	
5	Economic Loss (Effect of implementing the project on local economy)	**5- Minimal:** Economic loss has little effect during the project. **3- Moderate:** Economic loss (minimal disruption). **1- Significant:** Economic loss (businesses closed; jobs affected).	**5**	
6	Number of People to directly Benefit	**5- High**: More than 20,000 **3- Medium:** 4,000 –20,000 **1- Lower:** Fewer than 4,000	5	

Cost			Score	For LMS WG only
1	Initial Cost	**5- Low:** $0 to $250,000 **3- Moderate:** $251,000 to $1 million **1- High:** More than $1 million	1	
2	Maintenance /Operating Costs	**5- Lower costs:** Less than 5% per annum of the initial cost. **3- Moderate:** 5%-10% per annum of the initial cost. **1- High:** More than 10% per annum of the initial cost.	5	
3	Environmental Cost Impact	**5- Positive** effect on the environment. **3- No effect** **1- Adverse** effect on the environment.	3	
4	Financing Availability	**5- Good:** Readily available with grants and/or matching funds **3- Moderate:** Limited matching funds available **1- Poor:** No funding sources or matching funds identified	5	
5	Repetitive FLOOD damages corrected (applies ONLY to NFIP-insured structure(s) w/two paid flood losses).	**5- High:** Corrects repetitive loss/severe repetitive loss **3- Medium:** Possible repetitive loss mitigation, but not documented. **1- Low:** Improves NFIP flood insured. **0-** Not a NFIP insured structure.	**0**	

PART I I
Benefit Cost Analysis – QUICK WORKSHEET

ESTIMATED PROJECT COST: ___$4,000,000.00_____

How many people directly are affected by this project? 19,804 Meters [49,510 Individuals]

ESTIMATED POTENTIAL DAMAGE AND LOSS COSTS:

Some possible costs are:

* Real Property Losses based on hazard mitigated:	_____
** Furnishing/Equipment Losses:	$4,000,000.00_
** Alternate facility costs:	_____
** Contract/rental costs:	_____
** Other associated costs (list):	
Loss of Function [Elec Utility]____	$4,505,410.00_
_____	_____
_____	_____

Total Cost for Future Damages & Associated Expenses: $8,505,410.00 (NOTE: This figure should be detailed above.)

Statement to support above costs/losses: Substation provides electric service to approximately 19,804 meters, or roughly 49,510 individuals. Economic studies suggest that the value of electricity per day is roughly $182/per person. Elevating the electrical controls is estimated to prevent the loss of the cost of the electrical controls ($4,000,000.00), as well as to help prevent or reduce the duration of power outages following a flooding event. If half of the service population has their outage duration reduced by one (1) day [24,755 persons x $182/day x $1 day], the project is cost effective.

DAMAGE & LOSS COSTS, divided by PROJECT COST = QUICK BCA RATIO

DAMAGE COSTS: ($8,505,410.00)
_____divided by_____ = BCA 2.13
MITIGATION PROJECT $: ($4,000,000.00)

PART I

Project Title:	**Belle Meade – LCEC Service Center/ Emergency Operations Safe Room**
Project Location:	Approximately 5875 Collier Blvd Napes, FL 34114

TYPE PROJECT ("X" appropriate box, or explain)

Acquisition	Elevation	Relocation	Reconstruction	Essential Facility Retrofit	Non-Residential Retrofit	New Construction	Special Considerations or Impact Statement, if any:
				X		**X**	FEMA Saferoom's primary focus are to protect first responders, those that must remain behind during a high wind event. Another direct benefit of first responders surviving the "storm" is that they can immediately, and effectively, begin responding to disaster response and recovery needs. The sooner that a community can progress from the response to the recovery phase of a disaster, the sooner normalcy can return to private citizens and commercial interests. To that end, an improved ability to respond and recover from a disaster event will benefit the economic interest of customers of LCEC within the affected area.

What Goal or Objective does this address (See Sec. 3.0, LMS)?	Goal 3, Objective 3.4
What hazard(s) does this project or initiative correct/mitigate?	Tropical Cyclone
Who (what community) benefits from this project or initiative?	LCEC Essential Staff Supporting South Naples Infrastructure.
Does this project or initiative address mitigation on NEW infrastructure or buildings?	Yes
Does this project or initiative address mitigation on EXISTING infrastructure or buildings?	No
Project or Initiative Description:	The saferoom would be located the Belle Meade Service Center. The saferoom will be designed to FEMA P-361 Standards, and will represent a dual-purpose saferoom to address hurricanes/tropical systems. FEMA Saferooms primary focus are to protect first responders that must stay behind during a high-wind event.
Applicant and Responsible Agency:	**Lee County Electric Cooperative, Inc.**

Agency Contact Information

NAME	E-Mail	PHONE
Karen Vivian	Karen.vivian@lcec.net	239-656-2236

Potential Funding Source(s)	LCEC Funds	**Estimated Cost**	**7,000,000.00**

Suitability			**Score**	**For LMS WG only**
1	Appropriateness of the Measure	**5- High:** Reduces vulnerability and is consistent with Local Mitigation goals and plans for future growth. **3- Medium:** Needed but isn't tied to an identified vulnerability. **1- Low:** Inconsistent with LMS goal or plans.	5	
2	Community Acceptance	**5- High:** Endorsed by most communities. **3- Medium:** Endorsed by most; may create burdens. **1- Low:** Not likely to be endorsed by the communities.	5	
3	Environmental Impact	**5- Positive** effect on the environment. **3- No effect** **1- Adverse** effect on the environment.	3	
4	Legislation	**5- High:** Consistent with the existing laws and regulations. **3- Medium:** New legislation or policy change. **1- Low:** Conflicts with existing laws and regulations.	5	
5	Consistent with Existing Plans and Priorities.	**5- High:** Consistent with existing plans. **3- Medium:** Somewhat consistent. **1- Low:** Conflicts with existing plans and policies.	**5**	

Risk			**Score**	**For LMS WG only**
1	Scope of Benefits	**5- High:** Benefits all municipalities and unincorporated area directly or indirectly **3- Medium:** Benefits half or more, but **not all** the municipalities and/or the unincorporated areas. **1-Low:** Benefits less than half of the municipalities and/or the	5	

		unincorporated area.		
2	Potential to protect human lives	**5- High:** More than 1,000 lives **3- Medium:** Up to 1,000 lives **0- Low:** No lifesaving potential.	3	
3	Importance of Benefits	**5- High:** Need for essential services. **3- Medium:** Need for other services. **1- Low:** No significant implications.	5	
4	Inconvenience of Problem Correction	**5- None:** Causes no problems. **3- Moderate:** Causes few problems. **1- Significant:** Causes much inconvenience (i.e. traffic jams, loss of power, delays).	5	
5	Economic Loss (Effect of implementing the project on local economy)	**5- Minimal:** Economic loss has little effect during the project. **3- Moderate:** Economic loss (minimal disruption). **1- Significant:** Economic loss (businesses closed; jobs affected).	**5**	
6	Number of People to directly Benefit	**5- High**: More than 20,000 **3- Medium:** 4,000 –20,000 **1- Lower:** Fewer than 4,000	5	

Cost			**Score**	**For LMS WG only**
1	Initial Cost	**5- Low:** $0 to $250,000 **3- Moderate:** $251,000 to $1 million **1- High:** More than $1 million	1	
2	Maintenance /Operating Costs	**5- Lower costs:** Less than 5% per annum of the initial cost. **3- Moderate:** 5%-10% per annum of the initial cost. **1- High:** More than 10% per annum of the initial cost.	5	
3	Environmental Cost Impact	**5- Positive** effect on the environment. **3- No effect** **1- Adverse** effect on the environment.	3	
4	Financing Availability	**5- Good:** Readily available with grants and/or matching funds **3- Moderate:** Limited matching funds available **1- Poor:** No funding sources or matching funds identified	5	
5	Repetitive FLOOD damages corrected (applies ONLY to NFIP-insured structure(s) w/two paid flood losses).	**5- High:** Corrects repetitive loss/severe repetitive loss **3- Medium:** Possible repetitive loss mitigation, but not documented. **1- Low:** Improves NFIP flood insured. **0-** Not a NFIP insured structure.	**1**	

PART I I
Benefit Cost Analysis – QUICK WORKSHEET

ESTIMATED PROJECT COST: ___S7,000,000.00_____

How many people directly are affected by this project? 40 Safe Room Occupants_____

ESTIMATED POTENTIAL DAMAGE AND LOSS COSTS:

Some possible costs are:

* Real Property Losses based on hazard mitigated:	_____
** Furnishing/Equipment Losses:	_____
** Alternate facility costs:	_____
** Contract/rental costs:	_____
** Other associated costs (list):	
Injury and Loss of Life	$10,000,000.00
_____	_____
_____	_____

Total Cost for Future Damages & Associated Expenses: $10,000,000.00 (NOTE: This figure should be detailed above.)

Statement to support above costs/losses: Purpose of project is to protect LCEC Restoration Staff
And other safe room occupants in the event of a hurricane so that they can survive the storm and be prepared to restore power. Studies suggest that the statistical value of a human life [government terms] is approximately $10,000,000. If this safe room saves even one (1) occupant's life that would otherwise have been at risk, the project is cost-effective.

DAMAGE & LOSS COSTS, divided by PROJECT COST = QUICK BCA RATIO

DAMAGE COSTS: ($10,000,000.00)
_____divided by_____ = BCA 1.42
MITIGATION PROJECT $:(7,000,000.00)

PART I

Project Title:	**Carnestown/Marco Island Looping of Transmission System**
Project Location:	All Jurisdictions Receiving Power from Transmission Line of Carnestown to Marco Island, FL.

TYPE PROJECT ("X" appropriate box, or explain)

Acquisition	Elevation	Relocation	Reconstruction	Essential Facility Retrofit	Non-Residential Retrofit	New Construction	Special Considerations or Impact Statement, if any: Reducing the risk of loss of power for consumers by creating a loop in the transmission line that will allow for faster restoration of power in current system by creating a second line for transmission service to feed through.
				X		**X**	

What Goal or Objective does this address (See Sec. 3.0, LMS)?	Goal 3, Objective 3.1
What hazard(s) does this project or initiative correct/mitigate?	Flood, Tropical Cyclone.
Who (what community) benefits from this project or initiative?	Marco Island, Everglades City Chokoloskee, Immokalee and Ave Maria.
Does this project or initiative address mitigation on NEW infrastructure or buildings?	No
Does this project or initiative address mitigation on EXISTING infrastructure or buildings?	Yes
Project or Initiative Description:	This project will add approximately 19 miles of new transmission lines and associated substation equipment to provide a loop feed from the east system to the south system that would improve reliability and restoration efforts to the community.
Applicant and Responsible Agency:	**Lee County Electric Cooperative, Inc.**

Agency Contact Information

NAME	E-Mail	PHONE
Karen Vivian	Karen.vivian@lcec.net	239-656-2236

Potential Funding Source(s)	LCEC Funds	**Estimated Cost**	**27,000,000.00**

Suitability			**Score**	**For LMS WG only**
1	Appropriateness of the Measure	**5- High:** Reduces vulnerability and is consistent with Local Mitigation goals and plans for future growth. **3- Medium:** Needed but isn't tied to an identified vulnerability. **1- Low:** Inconsistent with LMS goal or plans.	5	
2	Community Acceptance	**5- High:** Endorsed by most communities. **3- Medium:** Endorsed by most; may create burdens. **1- Low:** Not likely to be endorsed by the communities.	5	
3	Environmental Impact	**5- Positive** effect on the environment. **3- No effect** **1- Adverse** effect on the environment.	3	
4	Legislation	**5- High:** Consistent with the existing laws and regulations. **3- Medium:** New legislation or policy change. **1- Low:** Conflicts with existing laws and regulations.	5	
5	Consistent with Existing Plans and Priorities.	**5- High:** Consistent with existing plans. **3- Medium:** Somewhat consistent. **1- Low:** Conflicts with existing plans and policies.	**5**	

Risk			**Score**	**For LMS WG only**
1	Scope of Benefits	**5- High:** Benefits all municipalities and unincorporated area directly or indirectly **3- Medium:** Benefits half or more, but **not all** the municipalities and/or the unincorporated areas. **1-Low:** Benefits less than half of the municipalities and/or the unincorporated area.	3	
2	Potential to protect human lives	**5- High:** More than 1,000 lives	5	

		3- Medium: Up to 1,000 lives **0- Low:** No lifesaving potential.		
3	Importance of Benefits	**5- High:** Need for essential services. **3- Medium:** Need for other services. **1- Low:** No significant implications.	3	
4	Inconvenience of Problem Correction	**5- None:** Causes no problems. **3- Moderate:** Causes few problems. **1- Significant:** Causes much inconvenience (i.e. traffic jams, loss of power, delays).	5	
5	Economic Loss (Effect of implementing the project on local economy)	**5- Minimal:** Economic loss has little effect during the project. **3- Moderate:** Economic loss (minimal disruption). **1- Significant:** Economic loss (businesses closed; jobs affected).	**5**	
6	Number of People to directly Benefit	**5- High**: More than 20,000 **3- Medium:** 4,000 –20,000 **1- Lower:** Fewer than 4,000	5	

Cost			**Score**	**For LMS WG only**
1	Initial Cost	**5- Low:** $0 to $250,000 **3- Moderate:** $251,000 to $1 million **1- High:** More than $1 million	1	
2	Maintenance /Operating Costs	**5- Lower costs:** Less than 5% per annum of the initial cost. **3- Moderate:** 5%-10% per annum of the initial cost. **1- High:** More than 10% per annum of the initial cost.	5	
3	Environmental Cost Impact	**5- Positive** effect on the environment. **3- No effect** **1- Adverse** effect on the environment.	3	
4	Financing Availability	**5- Good:** Readily available with grants and/or matching funds **3- Moderate:** Limited matching funds available **1- Poor:** No funding sources or matching funds identified	5	
5	Repetitive FLOOD damages corrected (applies ONLY to NFIP-insured structure(s) w/two paid flood losses).	**5- High:** Corrects repetitive loss/severe repetitive loss **3- Medium:** Possible repetitive loss mitigation, but not documented. **1- Low:** Improves NFIP flood insured. **0-** Not a NFIP insured structure.	**0**	

PART I I
Benefit Cost Analysis – QUICK WORKSHEET

ESTIMATED PROJECT COST: ___27,000,000.00_____

How many people directly are affected by this project? _____34,129 Meters [85,322 Individuals]

ESTIMATED POTENTIAL DAMAGE AND LOSS COSTS:

Some possible costs are:

* Real Property Losses based on hazard mitigated:	_____
** Furnishing/Equipment Losses:	_____
** Alternate facility costs:	_____
** Contract/rental costs:	_____
** Other associated costs (list):	
Loss of Function [Elec Utility]____	$31,057,572.00
_____	_____
_____	_____

Total Cost for Future Damages & Associated Expenses: $31,057,572.00 (NOTE: This figure should be detailed above.)

Statement to support above costs/losses: Economic studies suggest that the value of electricity per day is approximately $182 per person. This project provides a transmission loop that benefits at least 85,322 people. Looping of transmission lines drastically improves the speed at which power can be restored along the service area by creating a path for electricity around the damaged location. Assuming this project reduces outage time by two (2) days [182/per day x 2 days x 85,323 persons], it is cost-effective.

DAMAGE & LOSS COSTS, divided by PROJECT COST = QUICK BCA RATIO

DAMAGE COSTS: ($31,057,572.00)
_____divided by_____ = BCA 1.15
MITIGATION PROJECT $:(27,000,000.00)

PART I

Project Title:	**Big Cypress Basin Microwave Tower**
Project Location:	Immokalee, FL in Collier County near Lake Trafford

TYPE PROJECT ("X" appropriate box, or explain)

Acquisition	Elevation	Relocation	Reconstruction	Essential Facility Retrofit	Non-Residential Retrofit	New Construction	Special Considerations or Impact Statement, if any:
						x	

What Goal or Objective does this address (See Sec. 3.0, LMS)?	Goal 6
What hazard(s) does this project or initiative correct/mitigate?	Operation of flood control system during storms
Who (what community) benefits from this project or initiative?	Collier County
Does this project or initiative address mitigation on NEW infrastructure or buildings?	yes
Does this project or initiative address mitigation on EXISTING infrastructure or buildings?	yes
Current Flood Zone/Base Flood Elevation (BFE)	
Preliminary Flood Zone/BFE	
Project or Initiative Description:	A new Microwave Tower and Electronic Equipment Shelter will be located in Immokalee, Collier County near Lake Trafford. This new tower is required to complete communications for flood control operations for the western spur and bring reliability and resiliency to the Big Cypress Basin (BCB) area. This important project will help make flood control efforts in the Big Cypress Basin more resilient during storms and hurricanes. Currently our communications are through cell phone towers which go offline during storm events, leaving our system without communications and operations.
Applicant and Responsible Agency:	**South Florida Water Management District**

Agency Contact Information

NAME	E-Mail	PHONE
Carolina Maran	cmaran@sfwmd.gov	561-682-6868

Potential Funding Source(s)	SFWMD Big Cypress Basin Ad-Valorum Fund	**Estimated Cost**	**$7,400,000**

Suitability			**Score**	**For LMS WG only**
1	Appropriateness of the Measure	**5- High:** Reduces vulnerability and is consistent with Local Mitigation goals and plans for future growth. **3- Medium:** Needed but isn't tied to an identified vulnerability. **1- Low:** Inconsistent with LMS goal or plans.	5	
2	Community Acceptance	**5- High:** Endorsed by most communities. **3- Medium:** Endorsed by most; may create burdens. **1- Low:** Not likely to be endorsed by the communities.	5	
3	Environmental Impact	**5- Positive** effect on the environment. **3- No effect** **1- Adverse** effect on the environment.	5	
4	Legislation	**5- High:** Consistent with the existing laws and regulations. **3- Medium:** New legislation or policy change. **1- Low:** Conflicts with existing laws and regulations.	5	
5	Consistent with Existing Plans and Priorities.	**5- High:** Consistent with existing plans. **3- Medium:** Somewhat consistent. **1- Low:** Conflicts with existing plans and policies.	**5**	

Risk			Score	For LMS WG only
1	Scope of Benefits	**5- High:** Benefits all municipalities and unincorporated area directly or indirectly **3- Medium:** Benefits half or more, but **not all** the municipalities and/or the unincorporated areas. **1-Low:** Benefits less than half of the municipalities and/or the unincorporated area.	5	
2	Potential to protect human lives	**5- High:** More than 1,000 lives **3- Medium:** Up to 1,000 lives **0- Low:** No lifesaving potential.	5	
3	Importance of Benefits	**5- High:** Need for essential services. **3- Medium:** Need for other services. **1- Low:** No significant implications.	5	
4	Inconvenience of Problem Correction	**5- None:** Causes no problems. **3- Moderate:** Causes few problems. **1- Significant:** Causes much inconvenience (i.e. traffic jams, loss of power, delays).	5	
5	Economic Loss (Effect of implementing the project on local economy)	**5- Minimal:** Economic loss has little effect during the project. **3- Moderate:** Economic loss (minimal disruption). **1- Significant:** Economic loss (businesses closed; jobs affected).	**5**	
6	Number of People to directly Benefit	**5- High**: More than 20,000 **3- Medium:** 4,000 –20,000 **1- Lower:** Fewer than 4,000	5	

Cost			Score	For LMS WG only
1	Initial Cost	**5- Low:** $0 to $250,000 **3- Moderate:** $251,000 to $1 million **1- High:** More than $1 million	1	
2	Maintenance /Operating Costs	**5- Lower costs:** Less than 5% per annum of the initial cost. **3- Moderate:** 5%-10% per annum of the initial cost. **1- High:** More than 10% per annum of the initial cost.	5	
3	Environmental Cost Impact	**5- Positive** effect on the environment. **3- No effect** **1- Adverse** effect on the environment.	5	
4	Financing Availability	**5- Good:** Readily available with grants and/or matching funds **3- Moderate:** Limited matching funds available **1- Poor:** No funding sources or matching funds identified	5	
5	Repetitive FLOOD damages corrected (applies ONLY to NFIP-insured structure(s) w/two paid flood losses).	**5- High:** Corrects repetitive loss/severe repetitive loss **3- Medium:** Possible repetitive loss mitigation, but not documented. **1- Low:** Improves NFIP flood insured. **0-** Not a NFIP insured structure.	**0**	

PART I I
Benefit Cost Analysis – QUICK WORKSHEET

ESTIMATED PROJECT COST: _____$7,400,000_____

How many people directly are affected by this project? ____approx. 250,000____

ESTIMATED POTENTIAL DAMAGE AND LOSS COSTS:

Total Assessed Value of all Properties within Collier County*	$ 122.5 billon
50% of properties within tower service area	$ 61.2 billion
2% damage reduction in service area during 25 yr return event**	$ 1.2 billion

** Estimated from collierclerk.com*
*** 2% reduction based on SFWMD damage assessment tool for Palm Beach county*

Total Cost for Future Damages & Associated Expenses: _____**$1,200,000,000**_____ (NOTE: This figure should be detailed above.)

Due to the large service area of the communication tower and number of customers and level of work for a full BCA analysis, an initial generalized service area approach was used to determine potential benefits of a fully operational flood control system even during extreme events.

DAMAGE & LOSS COSTS, divided by PROJECT COST = QUICK BCA RATIO

DAMAGE COSTS: (_____$1,200,000,000_____)
_____divided by_____ = BCA _____162_____
MITIGATION PROJECT $: (____$7,400,000_____)

Special Meeting Minutes (DR-4673-FL)
Collier County Local Mitigation Strategy (LMS) Working Group
Conference Rooms A/B, South Regional Library
8065 Lely Cultural Pkwy, Naples, FL
34113
0930hrs, March 24, 2023

9. Approval of
    a. 20 January 2023 Regular Meeting Minutes – **Approved**

10. **Project(s) for Review:**
    a. Greater Naples Fire Rescue District (GNFRD) – **Approved with corrections to potential loss values**
        - Stations 20, 22, 23, 71, 72, 73, & 90
            - Station 20 – 4798 Davis BLVD, 34104
            - Station 22 – 4375 Bayshore DR, 34112
            - Station 23 – 6055 Collier BLVD, 34114
            - Station 71 – 100 13th ST SW, 34117
            - Station 72 – 3820 Beck BLVD, 34114
            - Station 73 – 14565 Collier BLVD, 34119
            - Station 90 – 175 Capri BLVD, 34113
        - Wind Mitigation Projects (Combined)
        - POC: Alan McLaughlin | Email: Amclaughlin@gnfire.org | 239-961-2549
    b. Naples Community Hospital (NCH) – **Approved as combined project**
        - NCH Downtown - 350 7th ST N, 34102
        - NCH North Naples Campus - 11190 Health Park BLVD, 34110
        - Wind Mitigation Projects
        - POC: Jennifer Smith | Email: Jennifer.Smith@nchmd.org | 239-624-1528
        - **NOTE: If possible, address impact window installs via this grant opportunity.**

11. Quorum for meeting (In-Person):

12. Membership – No new membership inquires

13. Grant Opportunities –

    a. HMGP-
        - Hurricane IAN (DR-4673-FL)
            - HMGP Timeline attached
            - Tentative NOFA Open: Week of January 30, 2023
            - Tentative NOFA Close: Week of May 1, 2023
            - Unknown County Allocation Estimate currently
            - Jurisdictions need to consider 404-Mitigation and 406-Public Assistance Consultants
                - For 404-Mitigation, homeowners must be sponsored by a local government entity
            - **State Webinar scheduled for March 28, 2023 – 1:00pm – 4:00pm**
            - **County Virtual Workshop – March 25, 2023 – 9:00am – 12:00pm**

- BRIC/FMA
    - Next cycle – September 2023 (estimated)

- FDEM Grant Contact Information
    - FDEM HMGP POC: Jared Jaworski (Jared.Jaworski@em.myflorida.com | 850-544-8372)
    - FDEM is requiring 100% digital submission for grant submissions
    - FDEM Portal
        - Register at www.fdemportal.com/grants
        - Sub-applicants must request access prior to the application deadline to avoid late submissions.

b. Hurricane Loss Mitigation Program Retrofit Grant (HLMP)
- 215.559, F.S. Hurricane Loss Mitigation Program
    - Sunset repealed to 2032
    - https://www.floridadisaster.org/dem/mitigation/hurricane-loss-mitigation-program/

    - FDEM HLMP Program Manager
        - Grant Goodwin
            - 850-815-4516
            - Grant.Goodwin@em.myflorida.com
- Gulf Coast State College Mobile Home Tie Down Program
    - https://www.floridadisaster.org/dem/mitigation/hurricane-loss-mitigation-program/
    - Contact Gulf Coast State College at 850-872-3807

14. LMS Update
    a. LMS update was approved by FEMA on May 7, 2020. The LMS expires on April 13, 2025.
    b. **Next 5-Year Update Cycle Begins Soon with expiration letters being sent out from FDEM in six-month cycle (18, 12, 6 months prior)**
    c. Kick-off meetings (18-24 months prior to expiration)
    d. Updated Florida Review Tool and LMS Crosswalk
    e. FL-391 “LMS Update Manual Training” will be offered in the near future

15. Other News –
    a. Collier County's Comprehensive Emergency Management Plan (CEMP) –
        - Approved by the Florida Division of Emergency Management (FDEM) on 02/28/2021
        - Approved by BCC at the 04/13/2021 Regular Meeting.
    b. Flood News
    c. Wildfire News
    d. Other News
        - 2022 LMS Annual Recertification approved 01/31/2023
        - Safeguarding Tomorrow through Ongoing Risk Mitigation (STORM) Revolving Loan Fund
            - https://www.floridadisaster.org/dem/mitigation/safeguarding-tomorrow-through-ongoing-risk-mitigation-storm-revolving-loan-fund/
        - **NEW FEMA HMA Guidance released on 03/23/2023**
            - https://www.fema.gov/grants/mitigation/hazard-mitigation-assistance-guidance
        - **South Florida Water Management District (SFWMD) planning on adopting the Collier County 2020 LMS on 04/13/2023, with future project submittals at next meeting (04/21/2023)**

16. Next regular meeting: **21 April 2023**, 0930hrs, location **South Regional Library**.
    a. Meeting adjourned at 10:57 am

ATTACHMENT(S)

8) PROJECT WORKSHEET FOR REVIEW: GNFRD Project Scoresheet (Combined) - REMOVED

9) PROJECT WORKSHEET FOR REVIEW: NCH Downtown Project Scoresheet - REMOVED

10) PROJECT WORKSHEET FOR REVIEW: NCH North Naples Project Scoresheet - REMOVED

11) January 20, 2023, Collier LMSWG Regular Meeting Minutes - REMOVED