Date: 06/30/2020

Rebuild Florida CDBG - Mitigation
Critical Facilities Hardening Program Application

Official Project Title

Lee County Wellfield Generators (LeeCounty_CFHP_5)

Applicant Information

Official Applicant Entity Name:	Lee County			FEIN #:	59-6000702
Primary Project Contact Name:	Joan LaGuardia			DUNS #:	013461611
Title:	Performance Analyst		E-mail:	jlaguardia@leegov.com	
Mailing Address:	P.O. Box 398			Phone Number:	239-839-6038
City:	Fort Myers	State:	FL	Zip Code:	33902-0398

Please list co-applicant entities if any:	Contact Person:	E-mail Address:

Project Description

Write an overview/summary, not to exceed 2,500 words, of the project being proposed. 1) State the project purpose and include a description of the critical facility to be hardened. 2) Specify the risk(s) that will be mitigated by completion of this project. 3) Describe how the work will be completed and the team that will be responsible. 4) Explain the method used to determine project funding requirements. 5) Describe anticipated outcomes. 6) Describe how the facility will be maintained after it is hardened.

Insert Attachment:		Please title doc: EntityNamePD_CFHP

Community Value

Describe, in 1,500 words or less, the critical facility's value to the community in normal circumstances and in times of natural disasters. Which of the seven community lifelines will be served by completion of this project? How does this project enhance community resilience? Does the facility have any cultural or historical significance? Attach a maximum of ten photographs that provide both interior and exterior views.

Insert Attachment:		Please title zip folder: EntityNameCV_CFHP

Capacity Plan		
Provide a strategic plan overview of 1,500 words or less that addresses goals, stakeholders, the work plan, (major tasks and deliverables), resources (staffing and budget) and monitoring/quality controls. Identify the staff members who will be responsible and/or positions that will be filled for CFHP project management and maintenance. Provide a short profile on each person on your current staff who perform project-related tasks and a position description for any new hires who will be assigned to project responsibilities. Have any project contractors been identified? If so, briefly describe your selection process.		
Insert Attachment:		Please title doc: EntityNameCP_CFHP

Implementation Plan		
Prepare a chronological timeline for the entire life of the project that organizes work into logical, manageable tasks and deliverables. The Implementation Plan Template has been provided in Appendix D of the CFHP Guidelines.		
Insert Attachment:		Please rename template: EntityNameIP_CFHP

Budget			
Include your project budget using the Budget Template found in Appendix E in the CFHP Guidelines. Ensure your budget is reasonable, appropriate and accurate. Are the budgeted items consistent with the project description and tasks? Does the amount requested fall within the CFHP applicant's allowable minimum ($50,000) and maximum ($15,000,000)? Ensure there is no duplication of benefits.			
Insert Attachment:		Please rename template: EntityNameBudget_CFHP	
Is there any duplication of benefits?		Yes: ☐	No: ☑
All funds identified for use on your project must be fully disclosed and detailed to ensure budget accuracy and no duplication of benefits.			
Do you anticipate receiving any funds for this project that will not be supplied by the CDBG-MIT program? If yes, detail the anticipated or committed funds in the Leveraged Dollars section.		Yes: ☐	No: ☑

Leveraged Dollars

If your project involves the qualified use of matching or leveraged funds or services in any capacity, (see Part 4.6 in the CFHP Guidelines) then describe the specifics of leveraged fund/service usage. Answer: 1) Are there local or other funds available to address the proposed project in whole or in part? If yes, report all sources of funding and the amount available. 2) Disclose sources and uses of non CDBG-MIT funds. 3) What other federal, state and/ or local entities have you contacted concerning funding for the proposed project and what were the results? Put "N/A" if this section is not applicable to your project.

1. There are no funds currently available to address the proposed project in whole or in part.
2. There are no more County funds currently available to finish hardening tasks.
3. No other entities have been contacted for funding.

County Selection

Select each county that your project benefits. DEO will use this information to assess MID, social vulnerability, rural and fiscally-constrained areas. Only counties eligible for CDBG-MIT funds are listed below.

☐ Alachua	☐ Flagler	☐ Levy	☐ Polk
☐ Baker	☐ Gilchrist	☐ Manatee	☐ Putnam
☐ Bradford	☐ Glades	☐ Marion	☐ Sarasota
☐ Brevard	☐ Hardee	☐ Martin	☐ Seminole
☐ Broward	☐ Hendry	☐ Miami-Dade	☐ St. Johns
☐ Charlotte	☐ Hernando	☐ Monroe	☐ St. Lucie
☐ Citrus	☐ Highlands	☐ Nassau	☐ Sumter
☐ Clay	☐ Hillsborough	☐ Okeechobee	☐ Suwannee
☐ Collier	☐ Indian River	☐ Orange	☐ Taylor
☐ Columbia	☐ Lafayette	☐ Osceola	☐ Union
☐ DeSoto	☐ Lake	☐ Palm Beach	☐ Volusia
☐ Dixie	☐ Lee	☐ Pasco	☐ Wakulla
☐ Duval	☐ Leon	☐ Pinellas	

Overall LMI Benefit
Identify and list the Census Tract number followed by all LMI Block Groups your project benefits. Example: Tract: 200, Block group: 2, 3; Tract: 2902, Block group: 1, 3, 4, 5, etc.
Tract: 000301, Block group: 3, 4; Tract: 000302, Block group: 1, 2, 3, 4; Tract: 000401, Block group: 1, 2, 3; Tract: 000502, Block group: 1, 2, 3, 4; Tract: 000503, Block group: 1, 2, 3; Tract: 000504, Block group: 1 2, 3; Tract: 000600, Block group: 1, 3, 4; Tract: 000700, Block group: 1, 2, 3; Tract: 001000, Block group: 4; Tract: 001101, Block group: 1, 2, 3, 4; Tract: 001102, Block group: 2, 3; Tract: 001201, Block group: 1, 2; Tract: 001300, Block group: 1, 2; Tract: 001401, Block group: 1, 3, 4, 6; Tract: 001502, Block group: 1, 2, 3, 4, 5; Tract: 001602, Block group: 2; Tract: 001703, Block group: 1; Tract: 001801, Block group: 2; Tract: 001906, Block group: 3; Tract: 001910, Block group: 1; Tract: 001913, Block group: 2; Tract: 001914, Block group: 3; Tract: 010102, Block group: 4, 5; Tract: 010103, Block group: 2, 4, 6; Tract: 010201, Block group: 1, 2, 4; Tract: 010203, Block group: 1, 4; Tract: 010204, Block group: 3, 4; Tract: 010302, Block group: 1, 2, 3; Tract: 010306, Block group: 3; Tract: 010307, Block group: 1, 3; Tract: 010405, Block group: 2; Tract: 010412, Block group: 1; Tract: 010502, Block group: 3, 4; Tract: 010602, Block group: 3; Tract: 010701, Block group: 3; Tract: 010702, Block group: 3; Tract: 010801, Block group: 3; Tract: 010802, Block group: 1, 2, 3, 4; Tract: 020101, Block group: 3; Tract: 020201, Block group: 2; Tract: 020300, Block group: 1, 2, 3, 4; Tract: 020501, Block group: 1; Tract: 020502, Block group: 1, 3; Tract: 020600, Block group: 1, 4, 5; Tract: 020700, Block group: 1; Tract: 020800, Block group: 1, 2, 3, 4, 5, 6;

Special Designations		
Does your project benefit an Area of Critical State Concern according to Florida Statutes 380.05?	Yes: ☐	No: ☑
What is the area of critical state concern?	Select Option	

Compliance		
According to 84 FR 45838 August 30, 2019 Section V.A.(18), “The State shall make reviews and audits, including on-site reviews of any subrecipients, designated public agencies, and local governments, as may be necessary or appropriate to meet the requirements of section 104(e)(2) of the HCDA, as amended, as modified by this notice. In the case of noncompliance with these requirements, the State shall take such actions as may be appropriate to prevent a continuance of the deficiency, mitigate any adverse effects or consequences, and prevent a recurrence. The State shall establish remedies for noncompliance by any designated subrecipients, public agencies, or local governments.”		
Can you certify to comply with state and federal register regulations as outlined in 84 FR 45838?	Yes: ☑	No: ☐

Maintenance Agreement		
According to 84 FR 45838 August 30, 2019 Section V.A.2.a(10), “Each grantee must plan for the long-term operation and maintenance of infrastructure and public facility projects funded with CDBG-MIT funds. The grantee must describe in its action plan how it will fund long-term operation and maintenance for CDBG-MIT projects. Additionally, the grantee must describe any State or local resources that have been identified for the operation and maintenance costs of projects assisted with CDBG-MIT funds.” As such, Federal Register expectations on maintenance for CDBG-MIT projects are expected to be maintained by each entity who proposes a CFHP project.		
Can you certify that your entity will comply with state and subrecipient monitoring and maintenance requirements as outlined by 84 FR 45838?	Yes: ☑	No: ☐

Sign and Date

As the primary entity contact for this project, I certify that staff, contractors, vendors and community partners of our mitigation initiative:

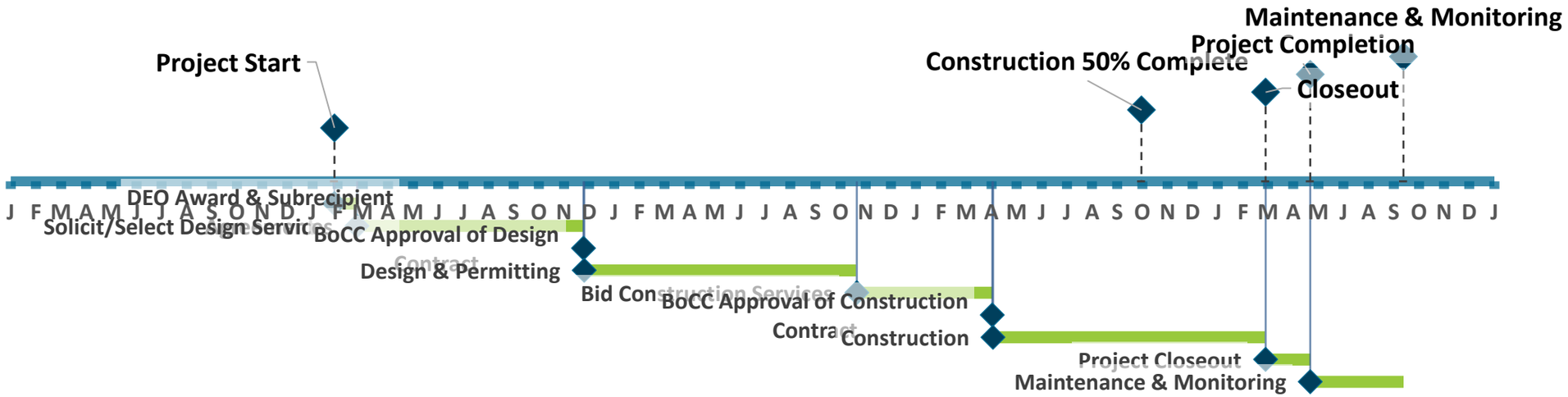
A. Will comply with all HUD and Florida requirements in the administration of the proposed CDBG-MIT funded activities;
B. Will work in a cooperative manner to execute the Subrecipient Agreement that provides the pathway for successful CDBG-MIT program(s) and/or project(s) and;
C. Certify that all information submitted in this Application is true and accurate

Signature: _____ Date: _____

Print button will only print application and not attached documents. Submit button will deliver application to email to the cdbg-mit@deo.myflorida.com. Please attach all relevant documents to this email.

Print Application Submit Application

Drinking Water Storm Proofing Implementation Plan Timeline



LEE COUNTY UTILITIES GENERATOR UPGRADES PROJECT DESCRIPTION (LeeCountyPD_CFHP_5)

1. (A.) PROJECT PURPOSE

Lee County proposes to install an emergency power generator system at five well sites that serve the critical Green Meadows Water Treatment Plant. This facility and its wells process 14 million gallons of drinking water daily. Green Meadows provides water to south Lee County neighborhoods and businesses, Southwest Florida International Airport, Florida Gulf Coast University, Golisano Children's Hospital, Health Park Hospital, Gulf Coast Hospital, and the Town of Fort Myers Beach. Service to the international airport and the university in particular make this a critical, high-impact project.

To serve southern Lee County, Green Meadows receives water from well sites within a remote woodland area. This wellfield is a critical facility with large industrial electrical equipment that is susceptible to power outages during natural disasters, including floods, storms, and fires. During seasonal thunderstorms, frequently falling tree branches damage overhead power lines and disrupt electrical power to the wells. This limits drinking water production multiple times per year and is dependent on the frequency and severity of storms.

Considering underground aquifer characteristics and facility expansion from population projections, five specific well sites have been identified to benefit the local residents from a quantifiable resilience improvement project. Well Sites 6, 7, 10, 12 and 13 each have one source of power, which are overhead electrical lines that are vulnerable to the elements. Providing emergency power generators as a redundant electrical source will ensure each wellsite is always available and online.

With CDBG-MIT funding, Lee County will install an emergency power generator system at all five of these well sites. Electrical work will be performed by local contractors together with County utilities personnel. The funding requested would be used to fully fund the project. The emergency power generation would safeguard drinking water production during seasonal weather storms and severe hurricanes.

Shortly before Hurricane Irma, Lee County Utilities – a County-owned enterprise operation funded by rate payers – invested $75.4 million in an update and expansion plan that provided a weather-hardened, secure facility. The capital improvement reduced treatment costs per thousand gallons by 60% and delivered approximately $11 million in savings from facility and process updates. These included implementation of state-of-the-art ion exchange and reverse osmosis systems.

While the plant itself is powered by a 1.5 megawatt emergency power generator, Lee County's intention to provide generators for the well sites has been delayed by Hurricane Irma and flooding in 2017. Associated costs to all departments and the strain on County reserves have made it difficult to find fiscal resources to address back-up power for the well fields that draw water for the plant from three different aquifers.

In addition, the County already has invested in surface water controls to mitigate potential flooding and roadway accessibility of the wellfield's property limits. Locating grant funds to address the unmet mitigation measures for redundant electrical sources to well fields is a targeted strategic element of Lee County's resiliency planning.

Assuring power back up for the Green Meadows wellfields also protects an important regional resource. Green Meadows can be pressed into emergency production to compensate for damage or power interruptions at other facilities.

HUD and Florida DEO acknowledged Hurricane Irma's impact on Lee County, which they designated as most-impacted (MID).

Lee County estimates this project will cost $2,367,922.26. The bulk of the spending is for acquisition of the five generators and fuel tanks -- $860,720 -- and for electrical labor -- $200.000. This expense will offset the costs incurred when the plant loses power.

In June 2018, FEMA's Federal Insurance and Mitigation Administration reported that every dollar invested to harden facilities will return $5 in future cost savings.

1. (B.) DESCRIPTION OF THE CRITICAL FACILITY

The Green Meadows Water Treatment Plant is a 21.6 acre facility on a campus in south Lee County that includes the treatment plant, water storage tanks, retention lakes and ample parking that can be used as a staging area for water supplies in a state of emergency. As part of its ongoing maintenance and mitigation efforts, Lee County is demolishing structures on the campus to make more room available for staging.

Note that this critical facility is the supplier of water for other critical facilities including Southwest Florida International Airport; two of Lee County's general population shelters – Alico Arena and South Fort Myers High School, and three major hospitals – Gulf Coast Hospital, Health Park Hospital and Golisano Children's Hospital, as well as other medical facilities and food and water providers.

Green Meadows is located at 13001 Alico Road, Fort Myers FL 33913. The wellfields are indicated on a map included in the Community Value images and can be found at:

Well	Easting	Northing
GMS-06	753,824.49	791,919.34
GMS-07	756,342.29	791,962.26
GMS-10	764,371.05	791,993.10
GMS-12	769,686.91	791,903.24
GMS-13	772,323.38	791,938.12

For security purposes, detailed information about the wellfields will not be shared here. The wellfield includes 10 well sites, each with multiple wells, extending along a line for five miles from the plant with well sites spaced every half mile.

The plant and all wellfield operations are located in the FEMA X Zone, outside the Special Flood Hazard Area.

2. RISK MITIGATION

Wellfield generators are a strategic element of Lee County's continuing implementation of resiliency measures to mitigate future risk of storm and other hazard damage. Addressing this urgent need for unmet mitigation measures for redundant well site electrical sources complements Lee County's previous efforts to harden the Green Meadows plant, install the permanent back-up generator there and upgrade surface water controls for the wellfields and their access roads.

Loss of power to the wellfields could potentially interrupt the supply of drinking water for approximately 21,562 residential and 4,268 commercial accounts in unincorporated Lee County, the Town of Fort Myers Beach and Florida Gulf Coast University.

Lee County must ensure continuing and safe water for one if the Green Meadows most critical customers – the Southwest Florida International Airport (RSW). In states of emergency, the airport is a critical link for the delivery of critical resources, including first responders, food, water and medical supplies. The airport must be available as a staging area, and its supply of potable water is vital. The airport's ability to accommodate travelers inbound, outbound and stranded at the airport during emergency declarations requires a functioning water supply.

The university's Alico Arena is an important shelter site for not only Lee County by also for all of Southwest, South and Southeast Lee County and the Keys. The arena has been used to shelter as many as 1,500 people during a hurricane. It was used as a host shelter for non-county residents for hurricanes Matthew in 2016 and Jeanne in 2004.

The Green Meadows operation also provides the water supply for the South Fort Myers High School which becomes a shelter for evacuees during emergency declarations.

For Lee County's low- and moderate-income residents, an affordable water supply is crucial. LMI populations are more likely to be economically impacted by the need to purchase water if tap service is not available. In Lee County – a HUD-designated MID community – 276,873 people, nearly 42% of the population, qualify for HUD's LMI category.

3. WORK COMPLETION AND MANAGEMENT TEAM

Grant-supported work to complete the hardening will be overseen by the Lee County Utilities Department which will appoint a Project Manager to work with an Emergency Power Generation Team. Lee County Procurement will select a Design Professional and General Contractor through established Lee County Competitive Negotiation protocols and in compliance with all federal guidelines outlined in the Federal Register Notice 84 FR 45838 and Florida DEO requirements.

When final design has been completed, the Design Professional will provide an Opinion of Probable Cost which will be the basis of review for the establishment of the construction bid from the selected General Contractor. The General Contractor will be selected by a competitive bid process.

4. DETERMINATION OF PROJECT FUNDING REQUIREMENTS

The estimate of funds required for this proposal were drawn from similar recent projects and supplier information.

5. ANTICIPATED OUTCOMES

This proposal to install an emergency power generator system at five well sites that serve the critical Green Meadows Water Treatment Plant will:

- Protect the safe and continuous processing of 14 million gallons of drinking water daily for residential and commercial uses in Lee County;
- Provide additional back-up in the event of disaster damage to other regional wellfields or water plants;
- Protect the water supply for other critical facilities, including Southwest Florida International Airport, Florida Gulf Coast University, Alico Arena and South Fort Myers High School general population shelters and other key providers of emergency services during disasters.

6. MAINTENANCE

Because the Lee County Utilities wells provide critical, daily service to Lee communities, the County will continue maintaining the improvements as part of their normal maintenance program. The emergency power generation system would be maintained through the existing Lee County Utilities Generator Group.

Rebuild Florida Critical Facility Hardening Program Project Budget Template Instructions

This template is customizable to fit the budget proposal for your project. Feel free to edit left-hand segments and add notes when needed.

If a section does not have enough cells for the category that you are working on, you can add cells by highlighting a complete row and right-clicking. A dialogue box will appear that permits you to add a row of cells. Click “Insert” and then select either “Insert Above” or “Insert Below”, depending on where you would like the new row to be placed. The new row will appear above or below the row you highlighted.

Enter project name, primary contact name and phone number and the official applicant entity name.

1. On the left-hand side of the template there is a list of major project items numbered 1 to 3. Beneath each major project are related sub-groups. You may edit each of these areas to fit your proposed budget plan. For example, if you do not have Mechanical Hardening, you may delete that numbered row and the related subgroups.
2. List anticipated and committed sources of other project funding sources in the “Sources of Other Funds” category. These funds are non-CDBG-MIT funds. Include entities you have contacted, even if a funding commitment has not yet been made. Disclose the amount you requested or expect to receive. If you need to add rows in this section, follow the directions for adding rows outlined above.
3. You can use the right-side Notes column to elaborate on budgeted items as needed.

FL CDBG Mitigation

Rebuild Florida Critical Facilities Hardening Program Project Budget (Template)

Project Name:	Lee County Wellfield Generator	Primary Contact Name and Phone Number:	Joan LaGuardia (239) 839-6038	Official Applicant Entity Name:	Lee County Board of County Commissioners

Project		**Budget**			**Notes**
Description	CDBG-MIT Amount	Other non CDBG-MIT Funds	Source of Funds*	Total Funds (CDBG-MIT and Other)	
1. Critical Facilities Hardening					There are 5 different wellsites (Wellsites-6, 7, 10, 12, and 13)
Genset 275kW w/belly tank/enclsure	$ 860,720.00			$ 860,720.00	Equipment cost with 6% sales tax.
Automatic Transfer Switch 400A	$ 53,000.00			$ 53,000.00	Equipment cost with 6% sales tax.
Electrical Labor	$ 200,000.00			$ 200,000.00	
Fence	$ 55,000.00			$ 55,000.00	Include demo of existing disparate fences around each well, and bring a new fence around the well site, genset, and electrical rack with ATS.
Systems Integration	$ 25,000.00			$ 25,000.00	To display the signals from the genset and ATS in the GM WTP SCADA system.
Update Arc-Flash Study	$ 25,000.00			$ 25,000.00	Tie new fence, genset, and ATS into existing lightining protection system to protect well site from lighting.
Lightning Protection	$ 15,000.00			$ 15,000.00	Assuming only one well site can be convertered over at a time, so only one generator installed at a time.

Crane Rental	$ 5,000.00			$ 5,000.00	
Concrete Slab, Labor and Materials	$ 5,250.00			$ 5,250.00	7 CY per well site.
Wet Proofing					
Dry Proofing					
Anchoring Roof Mounted Heating					
Retrofitting Building Exteriors					
Storm Proofing Windows					
Removal and Repair Obstructions					
2. Mechanical Hardening					
Ventilation/Air Conditioning Units					
Generator Unit Installation/Repair					
Water Pump Installation/Repair					

3. Other					
Shelters					
Contingency	$ 223,268.25			$ 223,268.25	(15%)
Administration					
General Contractor Fee	$ 62,198.50			$ 62,198.50	(5%) Typically in the 8-10% range, but due to the simplicity of the project reduced to 5%.
General Contractor Gen. Conditions	$ 37,319.10			$ 37,319.10	(3%) The General Contractor will have minimal site presence it will most likely be the electrical contractor.
Performance & Payment Bond	$ 18,659.55			$ 18,659.55	(1.5%) Assumption is at this threshold, the Procurement Department will require a General Contractor to hold the construction contract with the County, though it's an electrical project.
Escalation from $2020 to $2023	$ 126,307.82			$ 126,307.82	(3%) Construction cost escalated
Mobilization, Demobilization	$ 148,845.50			$ 148,845.50	(10%)
Estimated Engineering Design/Permit Services	$ 223,268.25			$ 223,268.25	(12%)
Estimated Engineering Const. Services (CEI)	$ 279,085.31			$ 279,085.31	(15%)
Surveying	$ 4,000.00			$ 4,000.00	

LDO and COM Permits	$ 1,000.00			$ 1,000.00	
Planning					
Totals:	**$ 2,367,922.26**			**$ 2,367,922.26**	

*** All funds identified for use on your project must be fully disclosed and detailed to ensure budget accuracy and no duplication of benefits. Show the sources and amounts of other funds needed to complete the project below, including local funds and grants from other agencies. Any anticipated or committed funds must also be included.**

Source of Other Funds	Amount
1. N/A	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	
11.	
12.	

Lee County Wellfield Generators Capacity Plan (LeeCountyCP_CFHP_5)

The over-arching goal of the capacity analysis for installing backup generators at five wellfields servicing the Green Meadows Water Treatment Plant is to protect the continuous, critical supply of water for south Lee County residents and businesses, including the Southwest Florida International Airport, Alico Arena – which provides 1,500 shelter spaces and has been used as a host shelter for other counties – and other commercial customers who ensure FEMA's seven critical lifelines. A related goal is protection of the human and environmental benefits resulting from power generation and reduction in landfilling.

Completion goal for the project itself is two years. Lee County's work plan, included as an attachment to this proposal, helps ensure that Lee County will meet its goal of delivering an efficient and compliant project on time. Lee County has established a Mitigation Grant Working Group, which meets regularly during this application process and will continue to meet until grant closeout. Departments represented on the working group include County Administration, Procurement, County Attorney, and departments of Facilities and Construction Management, Emergency Management and Public Safety, Human and Veteran Services, Solid Waste, Utilities and Transportation.

Stakeholders benefitting from this proposal include all households, businesses and providers of critical lifelines. Particular stakeholders include the LMI population of Lee County, who would be most impacted by the need to purchase water if it is not available from the tap.

Stakeholders with responsibility to the work plan primarily are Lee County Administration and Lee County Utilities. The work plan for this project, which is detailed in an attachment, will be coordinated by the Lee County Project Manager. Under the compliance direction of Lee County Procurement, they will oversee selection of the General Contractor. All contractors will be hired through a process that meets requirements of Lee County Competitive Negotiation protocols, the Federal Register Notice 84 FR 45838, and Florida DEO requirements.

A Project Manager will oversee implementation of the project and coordinate with all involved parties for project completion and maintenance. The Emergency Power Generation Team works with the Project Manager and is comprised of county utilities generator, electrical systems, and operations staff. Due to the nature of this project and the cross-department impact, the Emergency Generation Team will consist of members from all three departments.

Local contractors, consultants and inspectors work with the Project Manager and Emergency Generation Team to ensure proper construction and maintenance of the emergency power generation equipment. Grant managers will be brought in to work within the Emergency Generation Team to ensure procurement follows Federal Register and grantor requirements, ensures schedules and budget requirements are maintained, assists with procurement and closeout of all contracts and grants.

- Project Manager: responsible for master planning and prioritizing of projects. Signs contracts and manages Emergency Generation Team. Evaluates existing condition of current area to determine best construction solution.
- Procurement Department: responsible for soliciting professional design services and hard bid for construction services.
- Board of County Commissioners: government officials with final decision making and contract signature authority.

- Emergency Generation Team:
    - Engineering Operations Manager: manages capital improvement projects, department staff, projects, and vendors
    - Generator Department Superintendent: support the project manager and fulfill project requirements as it pertains to emergency generation system
    - Electrical Systems Manager: support the project manager and fulfill project requirements as it pertains to the existing electrical systems the emergency generation system will be connected to
    - Lead Operator: support the project manager by working with construction staff to accommodate shutdowns while keeping the water treatment plant in operational during construction
- Engineering Consultant: provides engineering services for the project
- General Contractor: installs and provides construction services
- Construction Inspector: ensures construction adheres to engineering, budget, safety and outcomes
- Grant Manager: ensures procurement is in compliance with Federal Register and grantor requirements, ensures schedules and budget requirements are maintained, assists with procurement and closeout of all contracts and grants.

The Emergency Generation Team will undertake the following tasks. The responsible party for implementation is identified in parenthesis.

(1) Execute grant award (Grant Manager and Project Manager)

(2) Solicit professional design services (Project Manager and Procurement Department)

(3) Select professional design firm (Project Manager and Emergency Generation Team)

(4) Award the contract for design (Board of County Commissioners)

(5) Design and permit project (Engineering Consultants)

(6) Solicit hard bids for construction services (Project Manager and Procurement Department)

(7) Award the contract for the construction. (Board of County Commissioners)

(8) Construct project (General Contractor)

(9) Inspect construction (Construction Inspector)

(10) Monitor compliance with CDBG-MIT (Grant Manager and Project Manager)

The Emergency Generation Team currently has two PE's, one Master Electrician, one Class A Operator and over 100 years of electrical and project management experience. Current staff will manage the implementation of the project tasks and compliance with CDBG-MIT requirements. At this time, the Emergency Generation Team is already formed. Consultants will be secured for design through a competitive qualifications process. Contractors will be secured for construction work through a competitive bid procurement process using a Request for Proposals (RFP) in accordance with 84 FR

45838. This process will include all required federal and state requirements for construction contracts that include but are not limited to Davis Bacon and Section 3.

LEE COUNTY WELLFIELD GENERATORS COMMUNITY VALUE
(Lee CountyCV_CFHP_2)

In normal operation, the Green Meadows Water Treatment Plant provides 14 million gallons of drinking water per day for southern Lee County residential and commercial users. Its lifeline is a series of underground water wells distributed over a multi-acre wellfield in a remote woodland area. This wellfield is a critical facility with large industrial electrical equipment that is susceptible to power outages during natural disasters, including floods, storms, and fires.

Considering underground aquifer characteristics and facility expansion from population projections, five specific well sites have been identified to benefit the local residents from a quantifiable resilience improvement project. Providing emergency power generators as a redundant electrical source will ensure each well site is always available and online.

During natural disasters, like Hurricane Irma and Hurricane Charley, the Water Treatment Plant is an emergency shelter for the rotating staff that maintain the plant and the wellfield in operation 24 hours a day. This facility also reports to the local Emergency Operations center during hurricanes and other crisis scenarios. This makes the facility increasingly vital during emergencies and natural disasters.

Community resilience is enhanced by this project by ensuring that the five wellfields have a redundant electrical system at all times. This will provide a reliable source of water for the Green Meadows Water Treatment Plant. Heavy flooding, severe storms, tropical cyclones, and wildfires are the most significant risks to the critical facility.

According to the U.S. Department of Housing and Urban Development (HUD), Lee County is a HUD-designated Most Impacted and Distressed (MID) area and this project will be benefiting the low- and moderate-income (LMI) population. In Lee County, 42% of the population is qualified LMI to HUD standards. Of Lee's 517 Census block groups, 32% are designated LMI.

Of FEMA's seven (7) critical community lifelines, the proposed wellfield generators affect three:

- FOOD, WATER AND SHELTER: Wellfield generators ensure the direct, critical supply of water for residential and commercial use. In turn, commercial users – food warehouses, grocery stores, restaurants, and even Alico Arena, which provides 1,500 emergency shelter spaces during disasters – rely on water supply from Green Meadows wellfields to provide food, water and shelter.
- SAFETY and SECURITY: The efficient and clean production of drinking water is a critical assurance of health and safety during a disaster declaration. Continuous operation of these wellfields allows commerce to resume and households to return to normal. Interruptions in drinking water processing create health and safety dangers as well as economic interruption.
- HEALTH and MEDICAL: Although the wellfields do not provide a direct medical service, they do provide a critical service to medical providers. Hospitals, clinics, doctor's offices and other medical facilities rely on water to serve community needs.

This proposal is consistent with Florida's 2018 Enhanced State Hazard Mitigation Plan (ESHMP) goals:

- Goal 1: Implement an effective comprehensive statewide hazard mitigation plan;
- Goal 2: Support local and regional mitigation strategies;
- Goal 3: Increase public and private sector awareness and support for hazard mitigation in Florida; and
- Goal 4: Support mitigation initiatives and policies that protect the state's cultural, economic, and natural resources.

It is consistent with Lee County's Comprehensive Emergency Management Plan and Local Mitigation Strategy, which requires approval of the county's six municipalities. It is important to note that the Green Meadows plant and its well fields are located outside the FEMA-designated Special Flood Hazard Area. Please see the attached map to locate the well sites in Lee County, along with other critical facilities which are being proposed for hardening as part of Lee County's regional resiliency planning.