

# Vicksburg District Levee Safety Program

November 2021



US Army Corps  
of Engineers®



# LEVEE SAFETY PROGRAM



- Levee Safety EC 1165-2-218
- Major Program Adjustments
- Implementation Schedule
- FY22 Formal Inspections
- Pipe Videos
- Construction Update
- Questions



# LEVEE SAFETY PROGRAM



## Levee Safety EC

### EC 1165-2-218: USACE Levee Safety Program

Located at the USACE  
Publications website:


<https://www.publications.usace.army.mil/USACE-Publications/Engineer-Circulars/>

	DEPARTMENT OF THE ARMY U.S. Army Corps of Engineers 441 G Street, NW Washington, DC 20314-1000	EC 1165-2-218
CECW-CE		
Circular No. 1165-2-218		22 April 2021
	EXPIRES 31 MARCH 2023 Engineering and Design USACE LEVEE SAFETY PROGRAM	

- Purpose.** This document establishes the policies for implementing the U.S. Army Corps of Engineers (USACE) Levee Safety Program, and describes USACE activities, roles, and responsibilities for federally authorized levees. This document also describes activities that sponsors are required to conduct or participate in consistent with their project agreements.
- Applicability.** This Engineer Circular mainly applies to federally authorized levees, but other USACE programs and authorities may reference or use USACE Levee Safety Program procedures to meet the technical aspects of their program.
- Distribution Statement.** Approved for public release. Distribution is unlimited.
- References.** List of references included in Appendix A.
- Records Management (Recordkeeping) Requirements.** Records management requirements for all record numbers, associated forms and reports required by this regulation are included in the Army's Records Retention Schedule - Army. Detailed information for all record numbers, forms, and reports associated with this regulation are located in the Army's Records Retention Schedule - Army at <https://www.arims.army.mil/arims/default.aspx>.

FOR THE DIRECTOR:

8 Appendixes

  
 Alvin B. Lee  
 Director of Civil Works

EC 1165-2-218 • 22 April 2021



# LEVEE SAFETY PROGRAM



## MAJOR PROGRAM ADJUSTMENTS

### Formal Inspections

- Performed at a minimum of every 5 years (Higher frequency based on risk)
- Replaces Routine and Periodic Inspections
- More in depth than a Routine Inspection without the heavy reporting requirements of a Periodic Inspection

### Site Visits and Special Inspections as needed

- Site visits opportunity to engage sponsors and view levee systems between Formal Inspections
- Special Inspections are unscheduled inspections in response to events such as floods, earthquakes, sponsor OMRR&R activities, etc.

No more Segment and System Ratings – Only individual inspection items to be rated.

Program Management Plans and 10-year Outlook

Levee Risk Management Summaries





# LEVEE SAFETY PROGRAM



## IMPLEMENTATION SCHEDULE

Program Activity	Requirement
Inspections and site visits	<ul style="list-style-type: none"><li>• Establish frequency and schedule for formal inspections &amp; site visits by <b>2023</b></li><li>• Perform at least one formal inspection on every levee by <b>2028</b></li><li>• Develop a levee risk management summary for all portfolio levees by <b>2028</b></li></ul>
Risk assessments	<ul style="list-style-type: none"><li>• Establish a schedule for updating all risk assessments by <b>2023</b></li><li>• Update risk assessment for every levee by <b>2034</b></li></ul>
OMRR&R	<ul style="list-style-type: none"><li>• Develop a levee risk management summary for all levees by <b>2028</b></li></ul>
Sharing levee information	<ul style="list-style-type: none"><li>• Work with levee sponsors to agree on an approach for sharing levee information and document the agreed upon strategy by <b>2023</b></li><li>• Develop a levee system summary for all levees by <b>2028</b></li></ul>
Inventory of levees	<ul style="list-style-type: none"><li>• All mandatory fields for all levees should be populated by <b>2028</b></li></ul>
Program management	<ul style="list-style-type: none"><li>• Develop/update district PgMP by <b>2023</b></li><li>• Review and update PgMPs on an <b>annual basis</b></li></ul>



# LEVEE SAFETY PROGRAM



## FY22 FORMAL INSPECTIONS

- **Red Chute Levee**
- **Caddo North Levee**
- **West Agurs Levee**
- **Caddo South Levee**
- **Natchitoches Levee**
- **Campti-Clarence Levee**

\*Not Funded in FY22  
President's Budget

## FY22 SITE VISITS

**6 ICW LA**



# LEVEE SAFETY PROGRAM



## PIPE VIDEOS

### **Conduits, Pipes, and Culverts Associated with Dams and Levee Systems, EM 1110-2-2902, 31 December 2020**

#### Inspection Requirements.

##### 6.6.1. Walk-through Requirements.

6.6.1.1. Inspectors must be trained and certified by the \*NASSCO PACP, or an organization with equivalent standards.

##### 6.6.2. Remote Requirements.

6.6.2.1. The individual performing the inspection to provide their qualifications. Individuals operating the remote inspection equipment must be certified by the NASSCO PACP, or an organization with equivalent standards..

\*National Association of Sewer Service Companies' (NASSCO) Pipeline Assessment Certification Program (PACP),



# LEVEE SAFETY PROGRAM



## LEVEE RISK MANAGEMENT SUMMARIES

### Levee risk management summary (LRMS):

- The LRMS will be used by USACE and sponsors to track risk, recommendations, and actions taken
- A LRMS will be completed for each levee *segment*, but includes discussion of the overall *system* risk
- LRMS template along with further guidance and a sample LRMS will be provided in the next few months

**Levee Risk Management Summary** Date: dd/mm/yyyy

**Purpose:**  
The intent of the Levee Risk Management Summary is to summarize the best available information related to risk assessments, levee inspections, past performance, and recent risk management activities to aid in the generation of an up-to-date set of prioritized risk-informed recommendations for the levee system.

U.S. Army Corps of Engineers

For multi-segment systems, levee system information is important to consider in risk management and risk communication decisions as well as information associated with the specific levee segment. Levee segment information included herein is focused on the segment for which this summary is intended (as noted below).

Levee System (Name, NLD ID):  
Levee Segment (Name, NLD ID):

Note: A  in any table below indicates that the corresponding information pertains to the levee segment.

Levee Segment Information for This System	
<input type="checkbox"/>	Levee Segment Name
<input type="checkbox"/>	

Comprehensive Recommended Actions - Prioritized Risk (Levee System)				
Tracking No.	Priority Category	Due Date	Responsible Party	
<input type="checkbox"/>				
<input type="checkbox"/>				

Recommend Update to the Risk Assessment: YES  NO

Levee System Risk			
Risk Assessment Type:	Classification:	Date:	

Levee System Risk Characterization:

Factors Driving the Risk:

<input type="checkbox"/>	
<input type="checkbox"/>	

Recent Levee Inspection Summary		
Levee Inspection Type:	Date:	

Critical Inspection Items Rated Unacceptable and Description of Observations:

Levee Risk Management Summary  
(incl. Levee System and Levee Segment Name) Page 1 of 3





# LEVEE SAFETY PROGRAM



## EMERGENCY ACTION PLANS (EAP)

INUNDATION MAPS AND EMERGENCY ACTION PLANS AND INCIDENT MANAGEMENT FOR DAMS AND LEVEE SYSTEMS

EC 1110-2-6075, 1 October 2020

1. An EAP is a formal document that identifies potential emergency conditions
2. Specifies pre-planned actions to be followed to reduce consequences of the emergency
3. An EAP is prepared by the owner/operator of a levee stressing actions to take to moderate or alleviate the emergency
4. The EAP contains procedures to assist the project owner/operator in issuing early warnings
5. EAP for a levee must be closely coordinated with state and local EM authorities
6. Project sponsors are encouraged to codevelop with local EM



# LEVEE SAFETY PROGRAM



Construction update



# QUESTIONS

## US Army Corps of Engineers Vicksburg District

CONTACT US: (601) 631-5000

[vicksburgdistrict@usace.army.mil](mailto:vicksburgdistrict@usace.army.mil)

Web: [mvk.usace.army.mil](http://mvk.usace.army.mil)

@VicksburgUSACE

