



DEPARTMENT OF THE ARMY
MISSISSIPPI VALLEY DIVISION, CORPS OF ENGINEERS
P.O. BOX 80
VICKSBURG, MISSISSIPPI 39181-0080

REPLY TO
ATTENTION OF:

CEMVD-PD-N

5 Apr 2011

MEMORANDUM FOR Commander, New Orleans District

SUBJECT: Review Plan - Grand Isle, Louisiana and Vicinity (Larose to Vicinity of Golden Meadow) Hurricane Protection Project, Plans and Specifications

1. References:

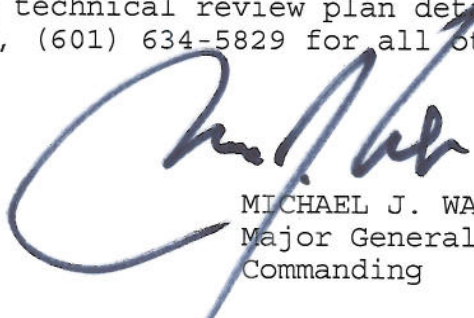
- a. EC 1165-2-209, Civil Works Review Policy, 31 Jan 2010.
- b. Email, CEMVN-ED-F, 10 November 2010, subject: Larose to Golden Meadow Review Plan (encl 1).
- c. Memorandum, CEMVD-RB-T, 21 March 2011, SAB (encl 2).

2. I approve subject Review Plan (RP) as enclosed and concur with CEMVD-RB-T that an independent external peer review of this project is not required since it is covered in the Task Force Hope Review Plan - Implementation of Section 2035 of WRDA 2007 for the Greater New Orleans Hurricane and Storm Damage Risk Reduction System approved by HQUSACE 22 October 2008. The proposed RP was coordinated with the Institute for Water Resources Risk Management Center. The RP is in accordance with EC 1165-2-209 and complies with all requirements for the implementation phase of the project. Non-substantive changes to this RP do not require further approval.

3. The District should post the RP to its web site and provide a link to the RMC for their use.

4. The MVD points of contact are: Mr. Allen Perry, CEMVD-RB-T, (601) 634-5883 for technical review plan details and Mr. Stephen Stuart, CEMVD-PD-N, (601) 634-5829 for all other matters.

2 Encl


MICHAEL J. WALSH
Major General, USA
Commanding

CF:

CEIWR-RMC (Empson)
CEMVN-ED-F (Thomas)
CECW-MVD

-----Original Message-----

From: Thomas, Shauniqua L MVN
Sent: Wednesday, November 10, 2010 3:30 PM
To: Arthur, Yolanda MVD
Cc: Martin, August W MVN
Subject: Larose to Golden Meadow Review Plan

Ms. Arthur,

Attached is the Review Plan for Larose to Golden Meadow Plans and Specifications. Please note an IEPR Type II will not be required for the LOOP T-Wall and Gate P&S and the Intracoastal Floodwall P&S. This decision was based on the guidance provided in EC 1165-2-209, Appendix G, Type II - IEPR, Safety Assurance Review (SAR) and along with the information provided in the review plan developed by Task Force Hope (TFH) for, Implementation of Section 2035 of WRDA 2007 for the Greater New Orleans (GNO) Hurricane and Storm Damage Risk Reduction System (HSDRRS).

Also, listed below are the disciplines needed for the ATR teams:

LOOP T-Wall and Gate:
ATR Lead
Geotechnical Engineer
Civil Engineer

Intracoastal Floodwall:
ATR Lead
Geotechnical Engineer
Structural Engineer

Please let me know if you have any other questions.

Thanks.

Shauniqua Thomas
Engineering Control Branch
New Orleans District
Phone (504) 862-1335
shauniqua.l.thomas@usace.army.mil



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ATTENTION OF:

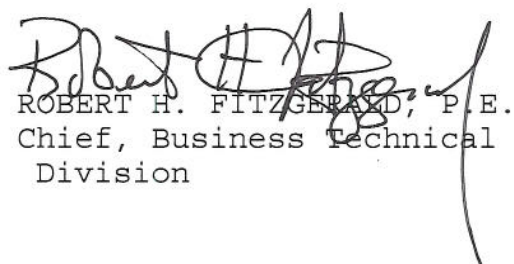
CEMVD-RB-T

21 March 2011

MEMORANDUM FOR CEMVD-PD-N (Rayford Wilbanks)

SUBJECT: Review Plan - Grand Isle, Louisiana and Vicinity
(Larose to Vicinity of Golden Meadow) Hurricane Protection
Project, Plans and Specifications

1. Reference the Task Force Hope (TFH) Review Plan
- Implementation of Section 2035 of WRDA 2007 for the greater New
Orleans HSDRRS, approved by HQUSACE 22 October 2008.
2. This office recommends MVD approval of the subject Review
Plan. The Review Plan has been reviewed by the Risk Management
Center. This office coordinated Agency Technical Review with
CESWD to fully comply with EC 1165-2-209. Per the requirements
of the referenced TFH Review Plan, IEPR is not required for this
project.
3. The CEMVD-RB-T POC for the Review Plan is Allen Perry, ext.
45883.


ROBERT H. FITZGERALD, P.E.
Chief, Business Technical
Division

ENCL 2.

REVIEW PLAN

**Grand Isle, Louisiana and Vicinity (Larose to Vicinity of Golden Meadow)
Hurricane Protection Project**

Plans and Specifications

New Orleans District

MSC Approval Date: 5 April 2011
Last Revision Date: 3 February 2011



**US Army Corps
of Engineers ®**

REVIEW PLAN

**Grand Isle, Louisiana and Vicinity (Larose to Vicinity of Golden Meadow) Hurricane
Protection Project
Lafourche Parish, LA
Implementation Document Type: Plans and Specifications**

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1. PURPOSE AND REQUIREMENTS

Purpose. This Review Plan defines the scope and level of peer review for the Grand Isle, Louisiana and Vicinity (Larose to Vicinity of Golden Meadow) Hurricane Protection Project (LGM project).

a. References

- (1) ER 1110-2-1150, Engineering and Design for Civil Works Projects, 31 August 1999.
- (2) ER 1110-1-12, Quality Management, 21 July 2006.
- (3) EM 385-1-1 Safety and Health Requirements Manual, ENG Form 5044-R, September 2008.
- (4) EM 1110-2-2000 Standard Practice for Concrete for Civil Works Structures Change 2, March 2001.
- (5) EM 1110-2-2102 Water stops and Other Joint Materials, September 1995.
- (6) EM 1110-2-1913 Design & Construction of Levees, April 2000.
- (7) EC 1165-2-209 Water Resources Policies and Authorities – Civil Works Review Policy, 31 January 2010.
- (8) EC 110-2-6067, Engineering and Design USACE Process for the National Flood Insurance Program (NFIP) Levee System Evaluation, 30 July 2009.
- (9) USACE MFR: Subject: Hurricane Protection System Seepage Design Criteria and Retention Slope Stability Criteria, 16 January 2009.
- (10) CEMVN MFR: Subject: Engineering Division Quality Management Policy Letter #3 – Implementation of “After Action Review” and “Lessons Learned” Action Plan for the Hurricane and Storm Damage Risk Reduction System (HSDRRS) Projects, 20 March 2009

b. Requirements. This review plan was developed in accordance with EC 1165-2-209, which establishes an accountable, comprehensive, life-cycle review strategy for Civil Works products by providing a seamless process for review of all Civil Works projects from initial planning through design, construction, and operation, maintenance, repair, replacement and rehabilitation (OMRR&R). The EC outlines four general levels of review: District Quality Control/Quality Assurance (DQC), Agency Technical Review (ATR), Independent External Peer Review (IEPR) and Policy and Legal Compliance Review. The Guidance for policy and legal compliance reviews that is addressed in Appendix H, ER 1105-2-100 is not applicable since this is not a decision document. The legal review for implementation documents is addressed during the Biddability, Constructability, Operability, and Environmental (BCOE) review.

- (1) District Quality Control/Quality Assurance. All work products (including supporting data, analyses, environmental compliance documents, etc.) shall undergo DQC. The DQC is an internal review process of basic science and engineering work products focused on fulfilling the project quality requirements defined in the Project Management Plan (PMP). The New Orleans District (CEMVN) will manage the DQC. Documentation of the DQC activities is required and will be in accordance with the Quality Manual of CEMVN and the Mississippi Valley Division (CEMVD).
- (2) Agency Technical Review. The ATR is mandatory for all implementation documents and decision documents (including supporting data, analyses, environmental compliance documents, etc.). The objective of an ATR is to ensure consistency with established criteria, guidance, procedures and policy. The ATR will assess whether the analyses presented are technically correct and comply with published US Army Corps of Engineers (USACE) guidance, and that the document explains the analyses and results in a reasonably clear manner for the public and decision makers. The ATR is managed within USACE by a designated Risk Management Organization (RMO) and is conducted by a qualified team from

outside the home district that is not involved in the day-to-day production of the project/product. The ATR team will be comprised of senior USACE personnel and may be supplemented by outside experts as appropriate. To assure independence, the leader of the ATR team shall be from outside the CEMVD.

- (3) Independent External Peer Review. An IEPR Type II will not be required for the LOOP T-Wall and Gate P&S and the Intracoastal Floodwall P&S. This decision was based on the guidance provided in EC 1165-2-209, Appendix E, *Type II – IEPR, Safety Assurance Review (SAR)* and along with the information provided in the review plan developed by Task Force Hope(TFH) for, *Implementation of Section 2035 of WRDA 2007 for the Greater New Orleans (GNO) Hurricane and Storm Damage Risk Reduction System (HSDRRS)*. There are no unique design techniques that are being used for either design.

2. REVIEW MANAGEMENT ORGANIZATION COORDINATION

The RMO is the Risk Management Center (RMC) and is responsible for managing the overall peer review and ATR efforts described in this Review Plan.

The RMO will coordinate with the Directory of Expertise (DX) to conduct ATR of cost estimates, construction schedules and contingencies.

3. PLANS AND SPECIFICATIONS INFORMATION

- a. Implementation Document.** The P&S for the LOOP Gate and T-wall and GIWW Intracoastal Floodwall project features will be developed using reprogrammed Supplemental Construction funds provided in Public Law 109-148, Emergency Supplemental Appropriations Act for Defense, Hurricanes in the Gulf of Mexico, and Pandemic Influenza Act, 2006, to rehabilitate and repair Corps projects related to consequences of hurricanes in the Gulf of Mexico and Atlantic Ocean in 2005, to the Larose to Golden Meadow, Louisiana project. The reprogrammed funds were surplus funds. These funds were appropriated for any necessary repairs and restore the level of risk reduction to the current authorized level and provide scour protection for the GIWW Intracoastal Waterway floodwall, Leon Theriot Lock, and Texaco Dock floodwall.
- b. Project Description.** The levee system serves as a hurricane storm damage risk reduction system and is approximately 48.3 miles in length of which approximately 11,000 feet consists of floodwalls and floodgates that ring a 17-mile reach of Bayou Lafourche, see Figure 1 for Study Map. Navigation on Bayou Lafourche is maintained by two navigable floodgates at Larose and Golden Meadow that are closed to prevent tidal flooding from an approaching storm or front. Construction of the Project was initiated in 1972 and was considered 95 percent complete in 2005 when Hurricane Katrina made landfall in southeast Louisiana. Due to the soil foundation conditions, the Project's levees required three separate lifts to achieve the authorized elevation. Only one reach (Section C-North) still has not been completed with all of the authorized lifts. However, due to subsidence and a datum adjustment, the Project's earthen levees were about 12-36 inches deficient in elevation and the structures were at or up to 3.5 feet deficient in elevation in 2006. Thus, the majority of the Project's elevations are less than authorized. The Project features are also not in compliance with the Hurricane and Storm Damage Reduction System (HSDRS) Design Guidelines established after Hurricane Katrina.

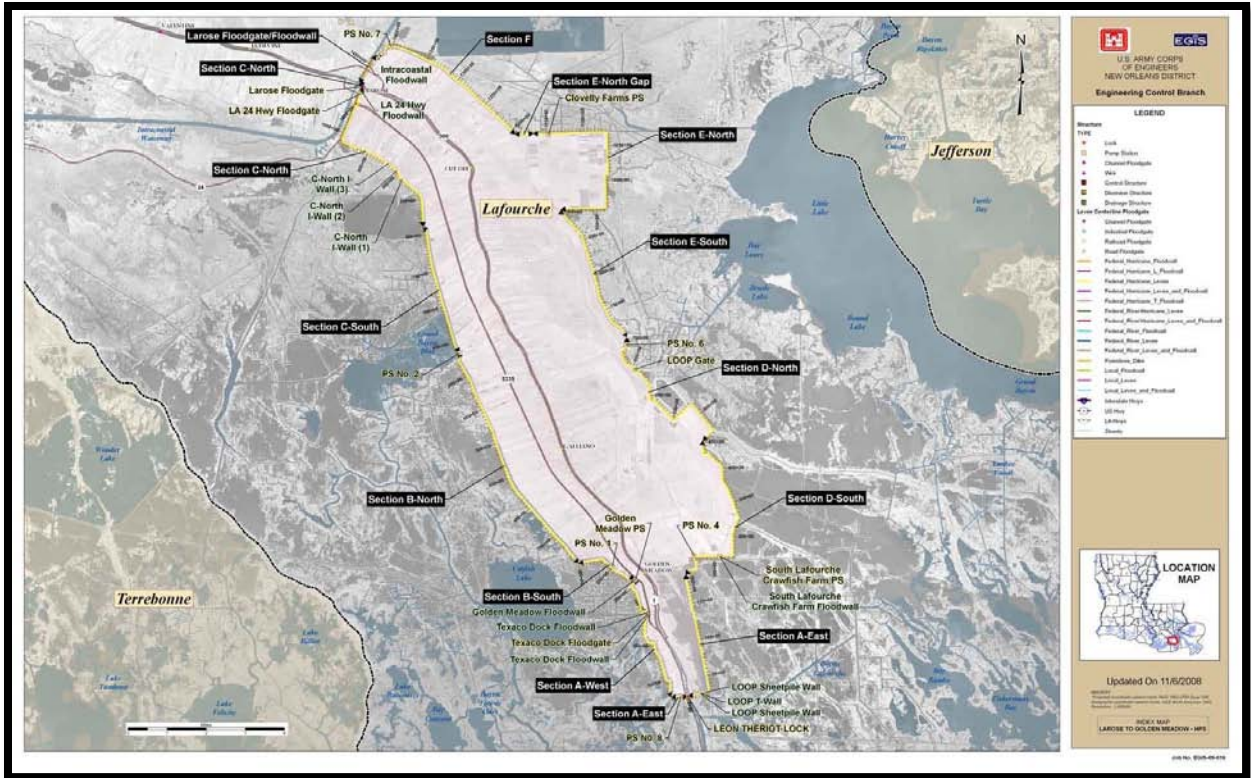


Figure 1: Study Map

The existing hurricane risk reduction ring levee encompasses approximately 63 square miles of Lafourche Parish and runs from Larose to Golden Meadow. The levee runs generally 1.4 miles away from Bayou Lafourche on the west bank while on the east bank the levee runs anywhere from 0.5 to 3.4 miles away from the bayou. Much of the levee system was constructed on land where the natural ground elevations were around 0 feet mean sea level.

Normally the Larose and Leon Theriot floodgates remain open for navigation but are closed, as necessary, to prevent tidal flooding from Bayou Lafourche. In order to prevent overtopping of the banks of Bayou Lafourche and flooding in the lower area of the Project, the Leon Theriot Floodgate was designed to be closed when the outside stage reaches +3.0 feet mean sea level.

The LOOP T-Wall and Gate will consist of demolishing the existing LOOP Gate and flanking floodwalls and constructing an earthen levee and ramp to authorized height and allow traffic to the LOOP facility to flow unhindered during hurricane events. The project site is located in Lafourche Parish, Louisiana, east of the town of Galliano within the D-North Levee Reach of the LGM ring levee system. The work generally involves removal of the existing Loop gate, sheetpile, I-Walls, manhole, inlet, culverts and existing access road, and phased construction for access during construction of an earthen levee and permanent elevated asphalt ramp. The project cost for LOOP T-Wall and Gate is \$1,000,000.

The Intracoastal Floodwall will consist of constructing a sheetpile wall with a rip-rap barge impact barrier that will be constructed to the authorized project grade of 10.5 feet NAVD88 (2004.65). Construction will include installing approximately 1,600 feet of sheet pile wall approximately 10 feet floodside of the existing concrete I-wall. Additionally, the project will include filling the gap between the new sheet-pile wall and existing concrete I-wall with sand fill and a concrete cap. The

project cost for Intracoastal Floodwall is \$7,000,000.

c. Factors Affecting the Scope and Level of Review. This project has significant interagency interest. If this project is not elevated it could result in significant delays to commercial navigation moving through Bayou Lafourche. With the development and continued growth of Port Fourchon at the mouth of Bayou Lafourche, the increase in offshore oil and gas activity, and the commercial fishing industry would feel the greatest impacts. In general, there are three major employment sectors in South Lafourche, Louisiana: (1) service; (2) government; and (3) trade industry. The area's major assets are the storage and distribution center for the Louisiana Offshore Oil Port, LLC. (LOOP) facility located near Galliano, and Port Fourchon, south of Golden Meadow. The offshore port facility is located in the Gulf of Mexico, eighteen miles south of Port Fourchon, in 110 feet of water. The LOOP is the only port in the U.S. capable of offloading deep draft tankers. The onshore oil storage facility, twenty-five miles inland, near Galliano, is connected to the offshore port complex by a 48-inch diameter pipeline, providing interim storage for crude oil before it is delivered via connecting pipelines to refineries on the Gulf Coast and in the Midwest. The LOOP handles 13 percent of the nation's foreign oil, about 1.2 million barrels a day, and connects by pipeline to 50 percent of the U.S. refining capability. The facility's pumps, meters to measure the crude oil receipts and deliveries, the above ground tanks, and the control center are vulnerable to hurricane and storm damage. Hurricane Katrina closed the distribution center for four days. Although the control center and generators are elevated to reduce the risk from flooding, major flooding would disrupt the workforce. Port Fourchon, in lower Lafourche Parish, was developed to support the offshore oil and gas industry. It has historically been a land base for offshore oil support services as well as a land base for LOOP. The overwhelming majority (over 95 percent) of tonnage handled at the Port is oil and gas related. Every item needed to support the oil and gas industry is handled as cargo. Approximately 30 percent of total tonnage travels to and from the port by inland barge before being transferred to or from an offshore supply vessel. The remainder travels by truck and relies on the only highway in and out of the area, Louisiana Highway 1, which traverses the entire length of the Project area. Port Fourchon services 90 percent of deepwater structures in the Gulf of Mexico.

d. In-Kind Contributions. N/A

4. DISTRICT QUALITY CONTROL

a. Documentation of DQC. DrChecks will be used to document all DQC comments, responses and associated resolutions accomplished throughout the review process.

b. Products to Undergo DQC. The products that will be reviewed through the DQC are the replacement of the LOOP T-Wall and Gate with a ramp P&S and Intracoastal Floodwall P&S.

5. AGENCY TECHNICAL REVIEW

a. Products to Undergo ATR. The products that will be reviewed through the ATR are the replacement of the LOOP T-Wall and Gate with a ramp P&S and Gate P&S and Intracoastal Floodwall P&S.

b. Required ATR Team Expertise. The expertise represented on the ATR team reflects the significant disciplines involved in the work effort and mirror the expertise on the PDT. The RMC, in cooperation of the PDT and vertical team, will determine the final make-up of the ATR team. Based on the disciplines indicated below, the study will require a minimum of ten reviewers.

LOOP T-Wall and Gate ATR Team

ATR Team Members/Disciplines	Expertise Required
ATR Lead	The ATR lead is a senior professional with extensive experience in preparing Civil Works implementation documents and conducting an ATR. The lead has the necessary skills and experience to lead a virtual team through the ATR process.
Geotechnical Engineering	Team member has a thorough understanding of soils and soils analysis. <i>*The scope of this project is small and localized that a geologist is not needed on this team.*</i>
Civil Engineering	Team member has experience in utility relocations, internal drainage construction, projects engineering, cost, and operations.
Environmental	Team member has experience in wetland impacts, aesthetics, and compliance.

Intracoastal Floodwall ATR Team

ATR Team Members/Disciplines	Expertise Required
ATR Lead	The ATR lead is a senior professional with extensive experience in preparing Civil Works implementation documents and conducting ATR. The lead has the necessary skills and experience to lead a virtual team through the ATR process.
Geotechnical Engineering	Team member has a thorough understanding of soils and soils analysis.
Structural Engineering	Team member has expertise in water control structures.
Civil Engineering	Team member has experience in utility relocations, internal drainage construction, projects engineering, cost, and operations.
Environmental	Team member has experience in wetland impacts, aesthetics, and compliance.

- c. Documentation of ATR.** DrChecks review software will be used to document all ATR comments, responses and associated resolutions accomplished throughout the review process. Comments will be limited to those that are required to ensure adequacy of the product. The four key parts of a quality review comment will normally include:
- (1) The review concern – identify the product’s information deficiency or incorrect application of policy, guidance or procedures;
 - (2) The basis for the concern – cite the appropriate law, policy, guidance or procedure that has not be properly followed;
 - (3) The significance of the concern – indicate the importance of the concern with regard to its potential impact on the plan selection, recommended plan components, efficiency (cost), effectiveness (function/outputs), implementation responsibilities, safety, Federal interest or public acceptability; and
 - (4) The probable specific action needed to resolve the concern – identify the action(s) that the reporting officers must take to resolve the concern.

In some situations, especially addressing incomplete or unclear information, comments may seek clarification in order to then assess whether further specific concerns may exist.

The ATR documentation in DrChecks will include the text of each ATR concern, the PDT response, a brief summary of the pertinent points in any discussion, including any vertical team coordination (the vertical team includes the district, RMO, MSC and HQUSACE), and the agreed upon resolution. If an ATR concern cannot be satisfactorily resolved between the ATR team and the PDT, it will be elevated to the vertical team for further resolution in accordance with the policy issue resolution process described in either ER 1110-1-12 or ER 1105-2-100, Appendix H, as appropriate. Unresolved concerns can be closed in DrChecks with a notation that the concern has been elevated to the vertical team for resolution. If necessary, an ATR comment resolution meeting will be held to resolve any outstanding comments.

At the conclusion of each ATR effort, the ATR team will prepare a Review Report summarizing the review. Review Reports will be considered an integral part of the ATR documentation and shall:

- Identify the document(s) reviewed and the purpose of the review;
- Disclose the names of the reviewers, their organizational affiliations and include a short paragraph on both the credentials and relevant experiences of each reviewer;
- Include the charge to the reviewers;
- Describe the nature of their review and their findings and conclusions;
- Identify and summarize each unresolved issue (if any); and
- Include a verbatim copy of each reviewer's comments (either with or without specific attributions), or represent the views of the group as a whole, including any disparate and dissenting views.

The ATR may be certified when all ATR concerns are either resolved or referred to the vertical team for resolution and the ATR documentation is complete. The ATR Lead will prepare a Statement of Technical Review certifying that the issues raised by the ATR team have been resolved (or elevated to the vertical team). A Statement of Technical Review will be completed, based on work reviewed to date. A sample Statement of Technical Review is included in Attachment 2.

6. REVIEW SCHEDULES AND COSTS

ATR

Documents for Review:

95% P&S

Design Documentation Report

Environmental Assessment

Date of Availability for Review:

LOOP T-Wall and Gate: 07 July 2010

Intracoastal Floodwall: 13 September 2010

LOOP T-Wall and Gate Environmental Assessment: 23 December 2010

Intracoastal Floodwall Environmental Assessment: 26 May 2011

ATR Costs: \$100,000

7. REVIEW PLAN POINTS OF CONTACT

Public questions and/or comments on this review plan should be directed to the following points of contact:

Home District (CEMVN)

Joey Wagner, Senior Project Manager, 504-862-1501

Maude Johnson, Project Manager, 504-862-1907

Shauniqua Thomas, Project Engineer, 504-862-1335

CEMVD

New Orleans District Support Team, Deputy Chief, 601-634-5928

Stephen Stuart, New Orleans District Support Team, 601-634-5829

RMC POC

William B. Empson, Risk Program Manager, 913-787-5356

8. ATTACHMENTS

The Project Delivery Team Roster, Sample Statement of Technical Review for Implementation Documents, Review Plan Revisions, and Acronyms and Abbreviations are listed as Attachments 1 thru 4.

ATTACHMENT 1: PROJECT DELIVERY TEAM ROSTER

Division	Org Code	Office	Role	Team Member	Phone Number
Programs and Project Management	B2H4940	CEMVN-PM-O	Sr Project Manager	Joey Wagner	504-862-1501
	B2H4940	CEMVN-PM-O	Project Manager	Maude Johnson	504-862-1907
	B2H4950	CEMVN-PM-O	Project Manager	Bill Foret	504-862-2735
	Contracted	CEMVN-PM	Scheduling	Gene Yenari	504-862-2834
	B2H4940	CEMVN-PM-O	Program Analyst	Dorothy Guidry	504-862-1012
	B2H4940	CEMVN-PM-O	Program Analyst	Connie Carr	504-862-1609
Planning	B2K2122	CEMVN-PDE-FR	Economist	Allan Hebert	504-862-1916
	B2K2132	CEMVN-PDR-RS	Biologist	Clay Carithers	504-862-1967
	B2K2133	CEMVN-PDR-RP	HTRW	Christopher Brown	504-862-2508
	B2K2131	CEMVN-PDR-RN	Cultural/Archaeologist	Jerica Richardson	504-862-2038
	B2K2131	CEMVN-PDR-RN	Recreation/Aesthetics	Kelly McCaffrey	504-862-2552
	B2K2131	CEMVN-PDR-RN	Recreation/Aesthetics	Debra Wright	504-862-1732
Engineering	B2L0700	CEMVN-ED-E	Project Engineer	Shauniqua Thomas	504-862-1335
	Contracted	CEMVN-ED-E	Quality Management	Mickey LaMarca	504-862-2725
	B2L0200	CEMVN-ED-HW	H&H Engineer	Whitney Hickerson	504-862-2607
	B2L0300	CEMVN-ED-FS	Geotech Engineer	Shung Chiu	504-862-1032
	B2L0300	CEMVN-ED-FS	Geotech Engineer	Daniel Haggerty	504-862-2403
	B2L0300	CEMVN-ED-FS	Geotech Engineer	Leeland Richard	504-862-2397
	B2L0400	CEMVN-ED-L	Levee Engineer	Samuel Kearns	504-862-2718
	B2L0400	CEMVN-ED-L	Levee Engineer	Jean Vossen	504-862-2404
	B2L0900	CEMVN-ED-T	Structures Br Chief	Darryl Bonura	504-862-2653
	B2L0900	CEMVN-ED-TF	Structural Engineer	Charles Brandstetter	504-862-2501
	B2L0900	CEMVN-ED-T	Structural Engineer	Allen Wilson	504-862-1247
	B2L0900	CEMVN-ED-T	Mechanical Engineer	Rachel Maltzahn	504-862-1895
	B2L0900	CEMVN-ED-T	Electrical Engineer	Jabeen Pasha	504-862-1145
	B2L0500	CEMVN-ED-S	Relocations Specialist	Veneta Mays	504-862-2475
	B2L0500	CEMVN-ED-S	Cost Engineer	John Petitbon	504-862-2732
Real Estate	B2N0100	CEMVN-RE-L	Real Estate Specialist	Stephen Bougon	504-862-1563
	B2N0200	CEMVN-RE-E	Real Estate Appraiser	Erin Clark	504-862-2183
	B2N0100	CEMVN-RE-L	Real Estate Specialist	Todd Klock	504-862-1920
Construction	B2M1500	CEMVN-CD-A	Construction Br Chief	Candida Wagner	504-862-1101
	B2M1500	CEMVN-CD-A	Construction Manager	Ricardo Flores	504-862-1043
	B2M1500	CEMVN-CD-A	Construction Manager	George Popovich	504-862-2907
	B2M1500	CEMVN-CD-A	Construction Manager	Mark Hintz	504-862-2323
	B2M1400	CEMVN-CD-LA	Project Engineer	Larry Hayes	504-862-3022

	B2M1400	CEMVN-CD-LA	Inspector	Joseph Chaisson	337-291-3030
Legal		CEMVN-OC	Lawyer	Mary Kinsey	504-862-2828
		CEMVN-OC	Lawyer	Lisa Evans	504-862-1793
		CEMVN-OC	Lawyer	Marco Rosamano	504-862-2877
Contracting	B2P0500	CEMVN-CT	Contracting Officer	Charley Zammit	504-862-1164
	B2P0500	CEMVN-CT	Contracting Officer	Sheila Enclade	504-862-1514
	B2P0500	CEMVN-CT	Contracting Officer	Frederick Pitts	504-862-1819

ATTACHMENT 2: SAMPLE STATEMENT OF TECHNICAL REVIEW FOR DECISION DOCUMENTS

COMPLETION OF AGENCY TECHNICAL REVIEW

The Agency Technical Review (ATR) has been completed for the LOOP T-Wall and Gate P&S for Grand Isle, Louisiana and Vicinity (Larose to Vicinity of Golden Meadow) Hurricane Protection Project. The ATR was conducted as defined in the project’s Review Plan to comply with the requirements of EC 1165-2-209. During the ATR, compliance with established policy principles and procedures, utilizing justified and valid assumptions, was verified. This included review of: assumptions, methods, procedures, and material used in analyses, alternatives evaluated, the appropriateness of data used and level obtained, and reasonableness of the results, including whether the product meets the customer’s needs consistent with law and existing US Army Corps of Engineers policy. The ATR also assessed the District Quality Control (DQC) documentation and made the determination that the DQC activities employed appear to be appropriate and effective. All comments resulting from the ATR have been resolved and the comments have been closed in DrCheckssm.

SIGNATURE

Name
ATR Team Leader
Office Symbol/Company

Date

SIGNATURE

Name
Project Manager
Office Symbol

Date

SIGNATURE

Name
Architect Engineer Project Manager¹
Company, location

Date

SIGNATURE

Name
Review Management Office Representative
Office Symbol

Date

CERTIFICATION OF AGENCY TECHNICAL REVIEW

Significant concerns and the explanation of the resolution are as follows: Describe the major technical concerns and their resolution.

As noted above, all concerns resulting from the ATR of the project have been fully resolved.

SIGNATURE

Name
Chief, Engineering Division
Office Symbol

Date

SIGNATURE

Name
Chief, Planning Division
Office Symbol

Date

¹ Only needed if some portion of the ATR was contracted

ATTACHMENT 2: SAMPLE STATEMENT OF TECHNICAL REVIEW FOR DECISION DOCUMENTS

COMPLETION OF AGENCY TECHNICAL REVIEW

The Agency Technical Review (ATR) has been completed for the Intracoastal Floodwall P&S for Grand Isle, Louisiana and Vicinity (Larose to Vicinity of Golden Meadow) Hurricane Protection Project. The ATR was conducted as defined in the project’s Review Plan to comply with the requirements of EC 1165-2-209. During the ATR, compliance with established policy principles and procedures, utilizing justified and valid assumptions, was verified. This included review of: assumptions, methods, procedures, and material used in analyses, alternatives evaluated, the appropriateness of data used and level obtained, and reasonableness of the results, including whether the product meets the customer’s needs consistent with law and existing US Army Corps of Engineers policy. The ATR also assessed the District Quality Control (DQC) documentation and made the determination that the DQC activities employed appear to be appropriate and effective. All comments resulting from the ATR have been resolved and the comments have been closed in DrCheckssm.

SIGNATURE

Name
ATR Team Leader
Office Symbol/Company

Date

SIGNATURE

Name
Project Manager
Office Symbol

Date

SIGNATURE

Name
Architect Engineer Project Manager¹
Company, location

Date

SIGNATURE

Name
Review Management Office Representative
Office Symbol

Date

CERTIFICATION OF AGENCY TECHNICAL REVIEW

Significant concerns and the explanation of the resolution are as follows: *Describe the major technical concerns and their resolution.*

As noted above, all concerns resulting from the ATR of the project have been fully resolved.

SIGNATURE

Name
Chief, Engineering Division
Office Symbol

Date

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Chief, Planning Division
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¹ Only needed if some portion of the ATR was contracted

ATTACHMENT 3: REVIEW PLAN REVISIONS

Revision Date	Description of Change	Page / Paragraph Number

ATTACHMENT 4: ACRONYMS AND ABBREVIATIONS

<u>Term</u>	<u>Definition</u>	<u>Term</u>	<u>Definition</u>
AFB	Alternative Formulation Briefing	NED	National Economic Development
ASA(CW)	Assistant Secretary of the Army for Civil Works	NER	National Ecosystem Restoration
ATR	Agency Technical Review	NEPA	National Environmental Policy Act
CSDR	Coastal Storm Damage Reduction	O&M	Operation and maintenance
DPR	Detailed Project Report	OMB	Office and Management and Budget
DQC	District Quality Control/Quality Assurance	OMRR&R	Operation, Maintenance, Repair, Replacement and Rehabilitation
DX	Directory of Expertise	OEO	Outside Eligible Organization
EA	Environmental Assessment	OSE	Other Social Effects
EC	Engineer Circular	PCX	Planning Center of Expertise
EIS	Environmental Impact Statement	PDT	Project Delivery Team
EO	Executive Order	PAC	Post Authorization Change
ER	Ecosystem Restoration	PMP	Project Management Plan
FDR	Flood Damage Reduction	PL	Public Law
FEMA	Federal Emergency Management Agency	QMP	Quality Management Plan
FRM	Flood Risk Management	QA	Quality Assurance
FSM	Feasibility Scoping Meeting	QC	Quality Control
GRR	General Reevaluation Report	RED	Regional Economic Development
HSDRRS	Hurricane Storm Damage Risk Reduction	RMC	Risk Management Center
HQSACE	Headquarters, U.S. Army Corps of Engineers	RMO	Review Management Organization
IEPR	Independent External Peer Review	RTS	Regional Technical Specialist
ITR	Independent Technical Review	SAR	Safety Assurance Review
LGM	Larose to Golden Meadow	SEISSAR	Supplemental Environmental Impact Statement Safety Assurance Review
LRR	Limited Reevaluation Report	USACE	U.S. Army Corps of Engineers
MSC	Major Subordinate Command	WRDAUSACE	Water Resources Development Act U.S. Army Corps of Engineers
		WRDA	Water Resources Development Act