



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
SOUTH ATLANTIC DIVISION
60 FORSYTH STREET SW, ROOM 10M15
ATLANTA, GA 30303-8801

CESAD-RBT

1 4 DEC 2012

MEMORANDUM FOR COMMANDER, Mobile District (CESAM-PM-CM/DOUGLAS C. OTTO/JOHN F. CRANE)

SUBJECT: Approval of the Review Plan for the Pascagoula Harbor Bar Channel Widening Project, Jackson County, Mississippi

1. References:

a. Memorandum, CESAM-PM-CM, 10 December 2012, Subject: Approval of the Review Plan for the Pascagoula Harbor Bar Channel Widening Project, Jackson County, Mississippi (Enclosure).

b. EC 1165-2-209, Civil Works Review Policy, 31 January 2010.

2. The Review Plan for the Plans and Specifications and Design Documentation Report for Pascagoula Harbor Bar Channel Widening Project submitted by reference 1.a has been reviewed by this office. As a result of this review, minor changes were coordinated with your staff. The enclosed Review Plan with the coordinated changes incorporated is hereby approved in accordance with references 1.b above.

3. The South Atlantic Division concurs with the conclusion of the District Chief of Engineering that Type II Independent External Peer Review (Type II IEPR) is not required for this Project. The primary basis for the concurrence that a Type II IEPR is not required is the determination that failure or losses of this navigation project does not have potential hazards that pose a significant threat to human life. Non-substantive changes to this Review Plan do not require further approval.

4. The District should take steps to post the Review Plan to its web site and provide a link to CESAD-RBT. Before posting to the web site, the names of Corps/Army employees should be removed. Subsequent significant changes to this Review Plan, should they become necessary, will require new written approval from this office.

5. The SAD point of contact is Mr. James Truelove, CESAD-RBT, 404-562-5121.

Encl

DONALD E. JACKSON, JR.
COL, EN
Commanding



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
MOBILE DISTRICT, CORPS OF ENGINEERS
P.O. BOX 2288
MOBILE, AL 36628-0001

CESAM-PM-CM

10 December 2012

MEMORANDUM FOR COMMANDER, US Army Engineer Division, South Atlantic
CESAD-RBT (CHRIS SMITH&JAMES TRULOVE)

SUBJECT: Approval of Review Plan for the Pascagoula Harbor Bar Channel Widening Project,
Jackson County, Mississippi.

1. References:

- a. E.C. 1165-2-209, Civil Works Review Policy, 31 January 2010
- b. WRDA 2007 H.R. 1495 Public Law 110-114, 08 November 2007

2. I hereby request approval of the enclosed Review Plan and concurrence with the conclusion that Independent External Peer Review (IEPR) is not required. The appropriate level of review determinations are based on the EC 1165-2-209 Risk Informed Decision Process as presented in the Control and Agency Technical Review, and has been coordinated with CESAD. It is my understanding that non-substantive changes to this Review Plan, should they become necessary, are authorized by CESAD.

3. The District will post the CESAD approval Review Plan to its website and provide a link to the CESAD for its use.

4. Should you have any questions please contact John Crane at 251-690-3257.

FOR THE COMMANDER:

Encls


Douglas C. Otto Jr., P.E.
Chief of Engineering Division

REVIEW PLAN

Pascagoula Harbor Navigation
Pascagoula, Jackson County, Mississippi

Mobile District

DECEMBER 2012

THE INFORMATION CONTAINED IN THIS REVIEW PLAN IS DISTRIBUTED SOLELY FOR THE PURPOSE OF PREDISSEMINATION PEER REVIEW UNDER APPLICABLE INFORMATION QUALITY GUIDELINES. IT HAS NOT BEEN FORMALLY DISSEMINATED BY THE U.S. ARMY CORPS OF ENGINEERS, MOBILE DISTRICT. IT DOES NOT REPRESENT AND SHOULD NOT BE CONSTRUED TO REPRESENT ANY AGENCY DETERMINATION OR POLICY.



**US Army Corps
of Engineers®
Mobile District**

REVIEW PLAN

Pascagoula Harbor Navigation Pascagoula, Jackson County, Mississippi

TABLE OF CONTENTS

<u>ITEM</u>	<u>PAGE NUMBER</u>
1. PURPOSE.....	1
2. DESCRIPTION OF PROJECT	1
3. DESCRIPTION OF WORK FOR REVIEW.....	1
4. BACKGROUND	3
5. PROJECT DELIVERY TEAM	4
6. LEVELS OF REVIEW	4
7. DISTRICT QUALITY CONTROL REVIEW	4
8. AGENCY TECHNICAL REVIEW.....	4
9. INDEPENDENT EXTERNAL PEER REVIEW	5
10. REVIEW MANAGEMENT ORGANIZATION.....	6
11. POLICY AND LEGAL COMPLIANCE	6
12. REVIEW SCHEDULE AND COSTS	6
13. PUBLIC PARTICIPATION	7
14. MAJOR SUBORDINATE COMMAND (MSC) APPROVAL	7

REVIEW PLAN

Pascagoula Harbor Navigation
Pascagoula, Jackson County, Mississippi

TABLE OF CONTENTS (CONTINUED)

LIST OF FIGURES

<u>FIGURE NO.</u>	<u>DESCRIPTION</u>	<u>PAGE NUMBER</u>
1	Vicinity Map	2

LIST OF ATTACHMENTS

ATTACHMENT 1	Team Roster
ATTACHMENT 2	Acronyms and Abbreviations

REVIEW PLAN

Pascagoula Harbor Navigation Pascagoula, Jackson County, Mississippi

1. PURPOSE

The purpose of this Review Plan (RP) is to describe the technical review process for the Pascagoula Harbor Navigation at Pascagoula, Jackson County, Mississippi. As the Project Management Plan (PMP), the RP is a living document and may change as the project progresses.

2. DESCRIPTION OF PROJECT

The project consists of widening the entrance or bar channel segment of the Pascagoula Harbor navigation channel from the existing width of 450 feet to the Federally authorized channel width of 550 feet. New work and maintenance material to be removed by a hopper dredge will be disposed in the Pascagoula Ocean Dredged Material Disposal Site. The project site is generally located at the Pascagoula Harbor entrance channel area (See Figure 1).

3. DESCRIPTION OF WORK FOR REVIEW

This project is in the implementation phase. Products to be reviewed will include Plans and Specifications (P&S) and a Design Documentation Report (DDR). Required reviews will include District Quality Control (DQC) and Agency Technical Review (ATR).

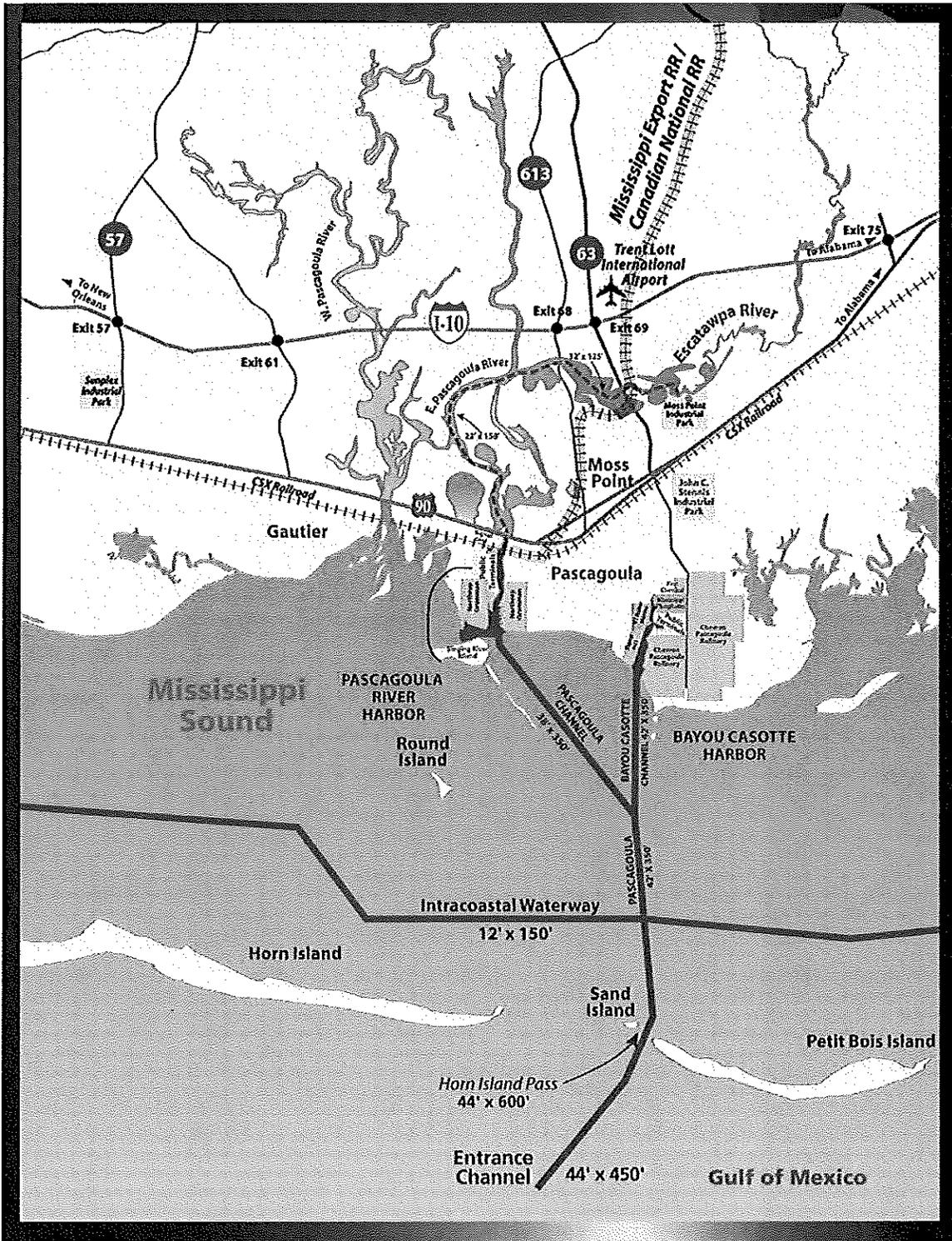


Figure 1 – Vicinity Map

4. BACKGROUND

As a result of Hurricane Katrina's landfall on 29 August 2005, Congress passed Public Law (P.L.) 109-148, dated December 2005, providing supplemental appropriations to address hurricanes in the Gulf of Mexico. Public Law 109-148 authorized Flood Control and Coastal Emergencies (FCCE) funds to be used to complete previously unconstructed portions of authorized projects in the State of Mississippi along the Mississippi Gulf Coast at full Federal expense.

The supplemental bill directs the U.S. Army Corps of Engineers (Corps) to improve the Pascagoula Harbor to the 'authorized dimensions', as stated in Public Law 99-662, dated November 1986, which authorized the modification of the existing Mississippi Sound Ship Channel to 42 x 350 feet and the Pascagoula Harbor Bar Channel to 44 x 550 feet. All of the authorized improvements are constructed with the exception of the Pascagoula River Leg Deepening of the Mississippi Sound Channel from 38 to 42 feet and the widening of the Pascagoula Bar Channel from 450 feet to 550 feet. At the request of the non-Federal Sponsor, Jackson County Port Authority, the deepening of the Mississippi Sound Channel from 38 feet to 42 feet will not be constructed at this time. The project information report was approved on 27 October 2011. The project scope of this review plan is limited to only widening of the bar channel.

5. PROJECT DELIVERY TEAM

The Project Delivery Team (PDT) is comprised of those individuals involved directly in the development of the implementation documents. The individual contact information and disciplines of the Mobile District PDT are included in Attachment 1 of this document.

6. LEVELS OF REVIEW

This RP describes the levels of review and the anticipated review process for the various documents to be produced. This RP is a component of the PMP. The levels of review included in this RP are DQC and ATR. Type II IEPR is not required and the justification is discussed in the risk informed process in Section 9 below. DrChecks review software will be used to document all comments, responses, and associated resolutions accomplished throughout the review process.

7. DISTRICT QUALITY CONTROL REVIEW

All documents to be produced will undergo DQC review. This is the review of basic science and engineering work products focused on fulfilling the project quality requirements defined in the PMP. Major Subordinate Command (MSC) and District quality management plans address the conduct and documentation of this fundamental level of review. DQC will be managed by Mobile District in accordance with ER 1110-1-12, Engineering & Design Quality Management, EC-1165-2-209 and the District Quality Management Plan. The DQC will include quality checks and reviews, supervisory reviews, PDT reviews, and Biddability, Constructability, Operability and Environmental (BCOE) reviews required by ER 1110-1-12. The implementation documents to be reviewed are P&S and the DDR. The PDT is responsible to assure the overall integrity of the documents produced. The DQC review will be completed prior to submitting documents for ATR. The individual contact information and disciplines of the DQC review team are included in Attachment 1 of this document.

8. AGENCY TECHNICAL REVIEW

All documents produced as part of this effort will undergo ATR 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 Corps guidance, that design plans and specifications and supporting analysis are clear, constructible, environmentally sustainable, operable and maintainable.

The ATR team will consist of the individuals that represent the significant disciplines involved in the accomplishment of the work. ATR will be managed within the Corps and conducted by senior Corps personnel outside of the Mobile District that are not involved in the day-to-day production of the project. DrChecks review software will be used to document all ATR comments, responses and associated resolutions accomplished throughout the review process. The documents to be reviewed are P&S and the DDR. The PDT will evaluate comments in

DrChecks and revise materials as necessary. The ATR leader will be from outside the MSC, and must complete a statement of technical review for all final products and final documents. By signing the ATR certification, the district leadership certifies policy compliance of the document and also that the DQC activities were sufficient and documented. The individual contact information and disciplines of the ATR team are included in Attachment 1 of this document.

Disciplines Required for Review. At a minimum, the following disciplines should be represented on the ATR team:

Discipline	Required Expertise
ATR Lead	Team member should have minimum expertise such as having led prior ATRs, etc. The ATR lead may also have been a senior ATR reviewer on a similar type project within the past 5 years. ATR Team Lead can also serve as one of the review disciplines in addition to team leader duties.
Geotechnical Engineer	Team member should have a minimum of 5 years experience to include geotechnical evaluation of earthen dike disposal areas.
Structural Engineer	Team member should have a minimum of 5 years experience in structural design associated with earthen dike disposal areas.
Environmental Engineer/Protection Specialist	Team member(s) should have a minimum of 5 years experience in environmental evaluation and compliance requirements.
Civil Engineer (Operations)	Team member should have a minimum of 5 years experience with administration of contracts for civil works project construction.

9. INDEPENDENT EXTERNAL PEER REVIEW

Independent External Peer Review (IEPR) is the most independent level of review, and is applied in cases that meet certain criteria where the risk and magnitude of the proposed project are such that a critical examination by a qualified team outside of the Corps is warranted. There are variations in the scope and procedures for IEPR, depending on the phase and purposes of the project under review. For clarity, IEPR is divided into two types. A Type I IEPR is generally for decision documents developed during the feasibility phase, and a Type II IEPR is generally conducted when needed during the design and implementation phase. Because this project is: 1) in the implementation phase; and, 2) this project does not contain any of the mandatory triggers contained in EC 1165-2-209, a Type I IEPR is not required. EC 1165-2-209 indicates that a Type II IEPR Safety Assurance Review (SAR) shall be conducted on design and construction activities for hurricane and storm risk management and flood risk management projects, as well as other projects where potential hazards pose a significant threat to human life. This applies to

new projects and to the major repair, rehabilitation, replacement, or modification of existing facilities.

The District Chief of Engineering, as the Engineer-In-Responsible-Charge, does not recommend a Type II IEPR Safety Assurance Review for this project. The project purpose is not hurricane and storm risk management or flood risk management, and the project does not have potential hazards that pose a significant threat to human life. Innovative materials or novel engineering methods will not be used. Redundancy, resiliency, or robustness is not required for design. Also, the project has no unique construction sequencing, or a reduced or overlapping design construction schedule. Therefore, a Type II IEPR of implementation documents will not be undertaken. If the project scope is changed, this determination will be reevaluated.

10. REVIEW MANAGEMENT ORGANIZATION

The responsibilities of the Review Management Organization (RMO) are to assign the ATR team, to ensure that the ATR lead is outside the home Major Subordinate Command (MSC), and to manage the ATR and develop and prepare a “charge” to the ATR team. The RMO for this project is the South Atlantic Division (SAD) as the MSC for this region. Mobile District will assist SAD with management of the ATR and development of the “charge”.

11. POLICY AND LEGAL COMPLIANCE

A Final Supplemental Environmental Impact Statement (FSEIS) has been completed. Water Quality Certification (WQC) and Coastal Zone Consistency (CZC) have been issued by the State of Mississippi. USFWS Section 7 Concurrence and Historical Preservation Clearance have also been obtained.

All contract documents and supporting environmental documents will be reviewed by the Mobile District Office of Counsel prior to final contract award.

12. REVIEW SCHEDULE AND COSTS

The costs for DQC review and ATR are estimated to be approximately \$10,000 and \$20,000 respectively. The documents to be reviewed and scheduled dates for reviews are as follows:

Milestone	Review	Schedule Dates
100% Unreviewed P&S and DDR	DQC	31 January 2013
Final P&S and DDR	ATR	28 February 2013

13. PUBLIC PARTICIPATION

The RP will be made accessible to the public through the Mobile District website link <http://www.sam.usace.army.mil/>. Public review of the RP can begin as soon as it is approved by the Division Commander and posted by the Mobile District. Comments made by the public will be available to the review team.

14. MAJOR SUBORDINATE COMMAND (MSC) APPROVAL

The MSC is responsible for approving the RP as prepared by the Mobile District. Approval is provided by the MSC Commander. The Commander's approval should reflect team input as to the appropriate scope and level of review for the implementation documents. Like the PMP, the RP is a living document and may change as the project progresses. Changes in the RP should be approved by following the process used for initially approving the RP. In all cases the MSC will review decisions on the level of review and any changes made in updates to the project.

REFERENCES

EC 1165-2-209, Civil Works Review Policy, 31 Jan 2010

WRDA 2007 H. R. 1495 Public Law 110-114, 8 Nov 2007

ER 1110-1-12, Engineering and Design Quality Management, 21 Jul 2006

ER 1110-2-1150, Engineering and Design for Civil Works Projects, 31 Aug 1999

ATTACHMENT 1 – TEAM ROSTER

Product Delivery Team Members

Office	Discipline	Name	Phone Number
CESAM-PM-CM	Project Manager	John Crane	(251) 690-3257
CESAM-EN-HH	Project Engineer (PAE)	J. Greg Miller	(251) 690-3115
CESAJ-CD-WM	Hydraulics	Elizabeth Godsey	(954) 436-9517
CESAM-EN-GG	Geotechnical	Josh Blevins	(251) 694-3625
CESAM-EN-E	Cost	Joe Ellsworth	(251) 690-2628
CESAM-PD-EC	Environmental	Linda Brown	(251) 694-3786
CESAM-OP-TN	Operations	Kelly McElhenney	(251) 694-3722
Jackson County Port Authority	Sponsor	Allen Moeller	(228) 762-4041

DQC Review Team Members

Office	Discipline	Name	Phone Number
CESAM-EN-HH	Hydraulics	TBD	TBD
CESAM-EN-GG	Geotechnical	TBD	TBD
CESAM-PD-EC	Environmental	TBD	TBD
CESAM-OP-M	Operations	Carl Dyess	(251) 690-3319
CESAM-OP-GW	Operations	Steve Reid	(251) 957-6019

ATR Team Members

Office	Discipline	Name	Phone Number
CE	ATR Lead	TBD	TBD
CE	Hydraulics	TBD	TBD
CE	Geotechnical	TBD	TBD
CE	Environmental	TBD	TBD
CE	Operations	TBD	TBD

ATTACHMENT 2 - ACRONYMS AND ABBREVIATIONS

Term	Definition
ATR	Agency Technical Review
BCOE	Biddability, Constructability, Operability and Environmental Review
CORPS	U.S. Army Corps of Engineers
DQC	District Quality Control
DQC/QA	District Quality Control/Quality Assurance
EA	Environmental Assessment
EC	Engineer Circular
EIS	Environmental Impact Statement
ER	Engineer Regulation
HQUSACE	Headquarters, U.S. Army Corps of Engineers
IEPR	Independent External Peer Review
ITR	Independent Technical Review
MSC	Major Subordinate Command
NEPA	National Environmental Policy Act
OMB	Office and Management and Budget
PDT	Project Delivery Team
PMP	Project Management Plan
QA	Quality Assurance
QC	Quality Control
RMO	Review Management Organization
RP	Review Plan
SAR	Safety Assurance Review
TR	Technical Review
WRDA	Water Resources Development Act