ENCL 4

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

REPLY TO
ATTENTION OF

CESAD-RBT 15 March 2012

MEMORANDUM FOR COMMANDER, MOBILE DISTRICT (CESAM-PM-CM/ JOHN F. CRANE)

SUBJECT: Approval of the Review Plan for the Triple Barrel Dredge Material Management Area Project, Pascagoula, Jackson County, Mississippi

1. References:

a. Memorandum, CESAM-PM-CM, 9 March 2012, Subject: Approval of Review Plan for Triple Barrel Dredge Material Management Area, Pascagoula, 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 this dike raising submitted by reference 1.a has been reviewed by this office. The enclosed Review Plan is approved in accordance with reference 1.c above.

3. We concur 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 the failure of the dikes involved in this project does not 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.

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

FOR THE COMMANDER:

Encl

CHRISTOPHER T. SMITH, P.E.
Chief, Business Technical Division

ENCL 4

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

REPLY TO
ATTENTION OF

CESAM-PM-CM

9 March 2012

MEMORANDUM FOR COMMANDER, SOUTH ATLANTIC DIVISION
CESAD-RBT (CHRIS SMITH & JAMES TRUELOVE)

SUBJECT: Approval of Review Plan for Triple Barrel Dredged Material Management Area Pascagoula, 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 Review Plan. The Review Plan complies with applicable policy, provides District Quality 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 approved Review Plan to its website and provide a link to the CESAD for its use.

FOR THE COMMANDER:

Gary W. Whigham

GARY W. WHIGHAM
Acting Chief, Engineering Division

ENCLS

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REVIEW PLAN

Triple Barrel Dredged Material Management Area

Pascagoula, Jackson County, Mississippi

Mobile District

March 2012

US Army Corps of Engineers®
Mobile District

REVIEW PLAN

Triple Barrel Dredged Material Management Area

Pascagoula, Jackson County, Mississippi

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REVIEW PLAN

Triple Barrel Dredged Material Management Area

Pascagoula, Jackson County, Mississippi

1. PURPOSE

The purpose of this Review Plan (RP) is to describe the technical review process for the Triple Barrel Dredged Material Management Area (DMMA) at Pascagoula, Jackson County, Mississippi. Like the Project Management Plan (PMP), the RP is a living document and may require updating as the project progresses.

2. DESCRIPTION OF PROJECT

This project involves expanding the upland disposal capacity of the Triple Barrel DMMA. The existing dike will be raised to a maximum design elevation of 35 feet National Geodetic Vertical Datum (NGVD). The source of the material will be from approved offsite areas. The material currently in the Triple Barrel DMMA is not suitable to raise the dike due to low shear strength and low liquid limits. The elevation of the existing dike is approximately 27 feet NGVD with side slopes ranging from 1V:2H to 1V:3H. The project site is generally located at the Pascagoula River Harbor 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).

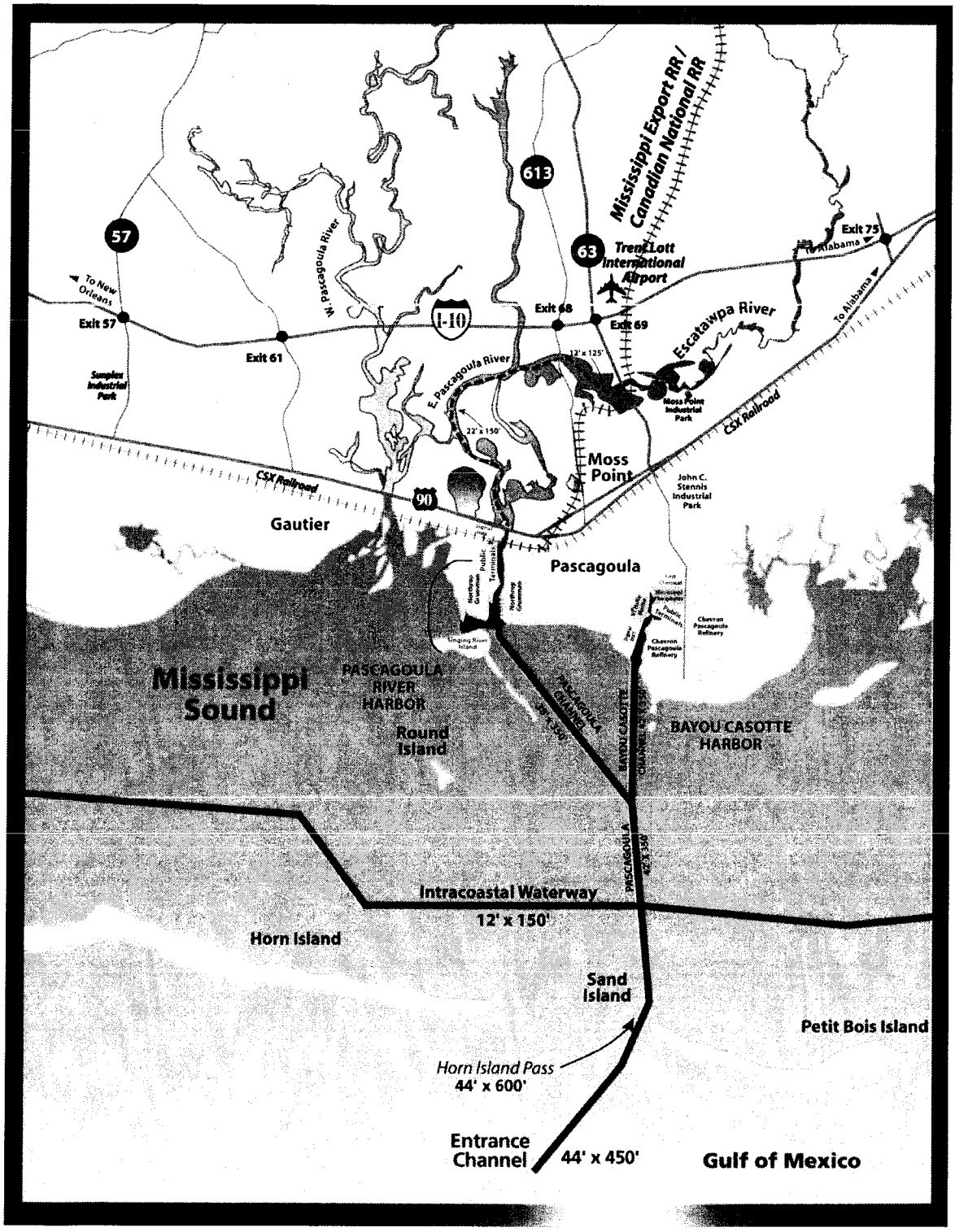

Figure 1 – Vicinity Map

4. BACKGROUND

The U.S. Army Corps of Engineers (Corps), Mobile District, and the Jackson County Port Authority, the Non-Federal Sponsor for the Pascagoula Harbor Navigation Project, developed the 2003 Pascagoula Harbor Dredged Material Management Plan (DMMP) to address the long-term placement of maintenance material dredged from a portion of Upper Pascagoula Sound Channel and the Pascagoula Harbor. The plan was developed over a three-year period with the involvement of the Special Management Area Task Force, which consisted of both public and private entities.

The Corps, South Atlantic Division conditionally approved the Pascagoula Harbor DMMP on 1 August 2003. This approval was subject to outstanding Section 7 Endangered Species Act (ESA) consultation regarding the federally protected Gulf sturgeon and its newly designated critical habitat. Over the course of nearly five years, the proposed action was extensively coordinated with the National Marine Fisheries Service (NMFS) and the U.S. Fish and Wildlife Service (USFWS). During the course of consultation, reasonable and prudent measures to reduce the likelihood of destruction or adverse modifications to designated critical habitat were incorporated into the recommended plan.

The recommended plan incorporated NMFS and USFWS reasonable and prudent measures consisting of the following:

- Raising the existing dikes at the Triple Barrel DMMA from the present elevation of approximately 27 feet to a design elevation of 35 feet;
- Constructing a 425-acre confined open water DMMA to the east and south of Singing River Island, including the creation of 150 acres of wetlands;
- Utilizing existing open water DMMA's located adjacent to and west of the Upper and Lower Pascagoula Channels, including a revised open water site; and
- Utilizing maintenance dredged material for beneficial use.

Construction costs for the considered General Navigation Features would typically be cost shared at 75 percent Federal and 25 percent non-Federal. Following Hurricane Katrina, which made landfall on 29 August 2005, Congress passed Public Law 109-148, dated 30 December 2005, which provided supplemental appropriations to address impacts/damages from hurricanes in the Gulf of Mexico. Public Law 109-148 authorized Flood Control and Coastal Emergencies (FC&CE) funds to be used to accelerate completion of unconstructed portions of authorized projects in the State of Mississippi, along the Mississippi Gulf Coast, at full Federal expense. The project information report (PIR) dated May 2011 has been approved. The project for this review plan includes only raising the existing dikes at the Triple Barrel DMMA.

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 in this paragraph as 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. Comments will be limited to those that are required to ensure adequacy of the products.

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. DQC will be managed by Mobile District in accordance with ER 1110-1-12, Engineering & Design Quality Management, and EC-1165-2-209, Civil Works Review Policy. 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 ATR's, 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. 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

The Finding of No Significant Impact (FONSI) and Section 404(b)1 Evaluation have been signed. 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	Completion Date
100% Unreviewed P&S and DDR	DQC	27 Jul 2011
Final P&S and DDR	ATR	ongoing

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 SAD Commander is responsible for approving this Review Plan, including by delegation within SAD. The Commander's approval reflects vertical 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 require updating as the project progresses. Changes in the RP should be approved by following the process used for initially approving the RP. In all cases, SAD will review decisions on the level of review and any changes made in updates to the project. The latest version of the RP, along with the SAD Commander's approval memorandum, will be posted on Mobile District's webpage. The latest RP will also be provided to SAD.

15. 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-GG	Project Engineer (PAE)/Geotechnical	Josh Blevins	(251) 694-3625
CESAM-EN-DA	Structural	Brent McGuire	(954) 690-2701
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-GG	Geotechnical	George Poiroux	(251) 694-4082
CESAM-EN-DA	Structural	Mike Thompson	(251) 690-2623
CESAM-PD-EC	Environmental	Lekesha Reynolds	(251) 690-3260
CESAM-OP-M	Operations	Carl Dyess	(251) 690-3319
CESAM-OP	Operations	Nate Lovelace	(251) 694-3713
CESAM-OP-T	Operations	Duane Poiroux	(251) 694-3720
CESAM-OP-GW	Operations	Steve Reid	(251) 957-6019

ATR Team Members

Office	Discipline	Name	Phone Number
CECO-C-RAO	ATR Lead	Greg Baer	(404) 562-5105
CESWG-EC-ES	Geotechnical	Gary Chow	(409) 766-3030
CESWG-EC-ES	Structural	Abdurashid Sheikh-Ali	(409) 766-3149
CESAW-TS-PE	Environmental	Jeff Richter	(910) 251-4636
CESAS-OP-N	Operations	Roger Lafond	(912) 652-5326

ATTACHMENT 2 – FREQUENTLY USED 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