



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

15 March 2012

MEMORANDUM FOR COMMANDER, MOBILE DISTRICT (CESAM-EN-HH/
GARY W. WHIGHAM)

SUBJECT: Approval of the Review Plan for Mississippi Coastal Improvements Program (MsCIP)
West Ship Island North Shore Planting, West Ship Island, Mississippi

1. References:

a. Memorandum, CESAM-EN-HH, 20 January 2012, Subject: Review Plan - Mississippi Coastal Improvements Program (MsCIP) West ship Island North Shore Planting, West Ship Island, 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 sand fencing and planting effort submitted by reference 1.a has been reviewed by this office. Some minor edits to the Review Plan were coordinated with Justine McDonald of your organization. The enclosed Review Plan, with the coordinated edits incorporated, is approved in accordance with reference 1.b 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 fencing and planting effort. The primary basis for the concurrence that a Type II IEPR is not required is the determination that the failure of the fencing and planting involved in this effort 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



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

REPLY TO
ATTENTION OF

CESAM-EN-HH

20 January 2012

MEMORANDUM FOR CDR, SOUTH ATLANTIC DIVISION ATTN: CESAD-RBT
(MR. CHRISTOPHER SMITH)

SUBJECT: Review Plan – Mississippi Coastal Improvements Program (MsCIP) West Ship
Island North Shore Planting, West Ship Island, Mississippi.

1. A copy of the subject report is enclosed for review and approval.
2. The Review Plan (RP) was prepared in accordance with EC-1165-2-209 and has been by approved by the SAM Chief of Engineering.
3. If you have any questions, please call Thomas Smith, Project Manager, at (251) 690-3270 or Justin McDonald, Lead MsCIP Project Engineer, at (251) 690-3146.

FOR THE COMMANDER:

A handwritten signature in black ink, appearing to read "Gary W. Whigham".

GARY W. WHIGHAM
Acting Chief, Engineering Division

Encl

REVIEW PLAN

MISSISSIPPI COASTAL IMPROVEMENTS PROGRAM (MsCIP) – WEST SHIP ISLAND NORTH SHORE PLANTING

WEST SHIP ISLAND, MS

Mobile District

January 2012

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

REVIEW PLAN

MISSISSIPPI COASTAL IMPROVEMENTS PROGRAM (MSCIP) – WEST SHIP ISLAND NORTH SHORE PLANTING WEST SHIP ISLAND, MS

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MISSISSIPPI COASTAL IMPROVEMENTS PROGRAM (MSCIP) – WEST SHIP ISLAND NORTH SHORE PLANTING WEST SHIP ISLAND, MS

1. PURPOSE AND NEED

This Review Plan defines the scope and level of review activities for West Ship Island North Shore Planting project. Review activities consist of District Quality Control (DQC) and Agency Technical Review (ATR). The project is in the Pre-Construction, Engineering and Design (PED) Phase. The related documents are Implementation Documents that consist of Plans and Specifications (P&S) and a Design Documentation Report (DDR). Upon approval, this review plan will be included into the Project Management Plan as an appendix to the Quality Management Plan. The Review Management Organization is the South Atlantic Division.

2. DESCRIPTION OF PROJECT

The U.S. Army Corps of Engineers (USACE), Mobile District, is currently constructing the West Ship Island North Shore Restoration project at West Ship Island, Mississippi. The project is part of the Mississippi Coastal Improvements Program (MsCIP) and consists of the placement of approximately 560,000 cubic yards of sand along approximately 10,000 feet of the northern shoreline of West Ship Island. Construction of this project began in August and is anticipated to be completed in February. Sand for the restoration project is being dredged from an approximately 300 ft x 2,900 ft borrow area in the old Gulfport Navigation Channel, just west of the island.

Once the shoreline restoration project is complete, the USACE Mobile District plans to execute the West Ship Island North Shore Planting project. This project consists of the installation of approximately 12,800 feet of sand fencing and the planting of approximately 370,000 herbs, grasses, and shrubs along the newly restored northern shoreline of West Ship Island. The USACE Mobile District worked very closely with the representatives of the National Park Service Gulf Islands National Seashore to develop this plan which will help initiate dune creation and promote stabilization of the newly restored northern shoreline of West Ship Island.

The West Ship Island North Shore Planting project is located at West Ship Island, approximately 15 miles southeast of Gulfport, MS. The scope of the project is to install sand fencing and plant beach/dune vegetation along approximately 10,000 ft of the newly restored northern shoreline. The limits of the project area are shown in Figure 1.

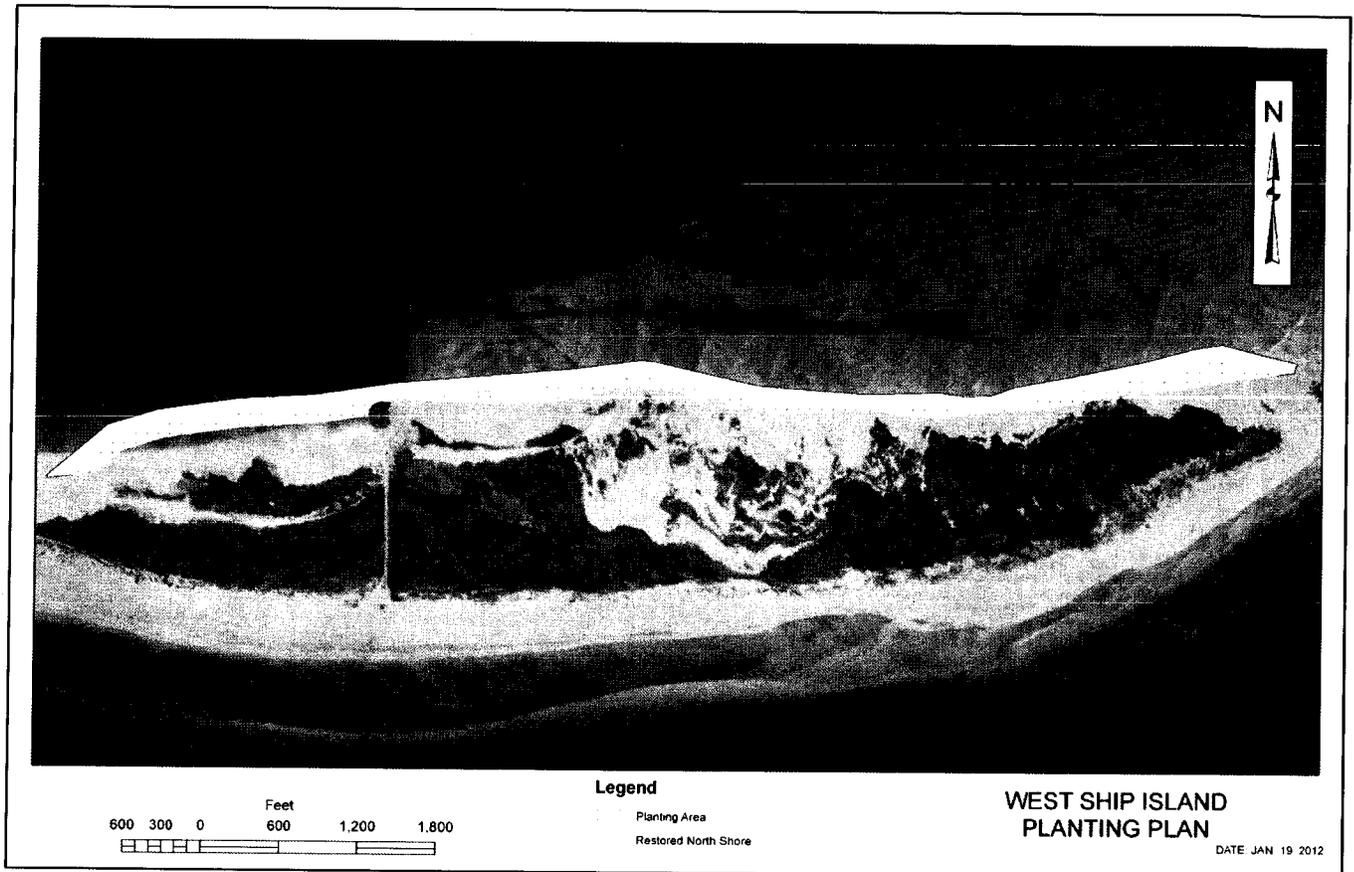


Figure 1. West Ship Island North Shore Planting Project Area

3. DESCRIPTION OF WORK FOR REVIEW

Products to be reviewed for the West Ship Island North Shore Planting project include the plans and specifications (P&S) and the design documentation report (DDR).

4. 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 District PDT are included in Table 1 of Attachment 1 of this document.

5. LEVELS OF REVIEW

This Review Plan (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 Project Management Plan (PMP). All levels of review are addressed in this RP: District Quality Control (DQC), Agency Technical Review (ATR), and Independent External Peer Review (IEPR).

6. DISTRICT QUALITY CONTROL

All documents to be produced will undergo District Quality Control (DQC). DQC 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 SAM in accordance with ER 1110-1-12, Engineering & Design Quality Management, EC 1165-2-209, Civil Works Review Policy, and the District Quality Management Plan. The DQC will include quality checks and reviews, supervisory reviews, PDT reviews, and BCOE reviews required by ER-1110-1-12. The DQC review will be completed prior to submitting documents for ATR. Documentation of the DQC review as contained in DrChecks will be certified during the ATR that DQC activities were sufficient and documented.

7. AGENCY TECHNICAL REVIEW

All documents produced as part of this effort will undergo Agency Technical Review (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, and that design P&S and supporting DDR are clear, constructible, environmental sustainable, operable and maintainable. The ATR will also ensure that the P&S and DDR are consistent with the approved/authorized plan.

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 USACE 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 the P&S and 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.

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 Lead can also serve as one of the review disciplines in addition to team leader duties.

Coastal Engineer	Team member(s) should have a minimum of 5 years experience in beach fill and dune establishment/vegetation design considerations.
Environmental Specialist	Team member(s) should have a minimum of 5 years experience with environmental evaluation and compliance requirements as well as familiarity with beach fill and dune establishment/vegetation projects.

8. 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 USACE is warranted. This project is in the implementation phase; thus, the Type I IEPR is not required.

Based on criteria contained in EC 1165-2-209, the District Chief of Engineering, as the Engineer-In-Responsible-Charge, does not recommend a Type II IEPR Safety Assurance Review (SAR). The Federal action is not justified by life safety, and project failure would not pose a significant threat to human life. Innovative materials or novel engineering methods will not be used. Redundancy, resiliency, or robustness are not required for design. Also, the project has no unique construction sequencing, or a reduced or overlapping design construction schedule.

9. REVIEW MANAGEMENT ORGANIZATION

It is the responsibility of the Review Management Organization (RMO) to develop and prepare a “charge” to the reviewer. SAD is the RMO for this project, and SAM will assist with development of the “charge”.

10. POLICY AND LEGAL COMPLIANCE

The National Environmental Policy Act (NEPA) compliance is required for the construction of this project. This includes consideration of no adverse impacts to the environment. The NEPA documentation was prepared and coordinated prior to the ongoing construction/sand placement effort of this project. That NEPA documentation adequately covers this fencing and plant/dune vegetation installation effort.

11. MODEL CERTIFICATION AND APPROVAL

No models were used in the design of this project.

12. REVIEW SCHEDULE AND COSTS

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

Milestone	Review	Schedule Dates
100% Unreviewed P&S and DDR	DQC	February 6 – 17, 2012
Final P&S and DDR	ATR	February 20, 2012 – March 2, 2012
Construction Contract Award		March 23, 2013

13. PUBLIC PARTICIPATION

The review plan will be made accessible to the public through the Mobile District website link <http://www.sam.usace.army.mil/>. Public review of the review plan 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 (Division Commander) is responsible for approving the review plan, including delegation within the MSC as prepared by the Mobile District. Approval is provided by the MSC Commander. The Commander's approval reflects team input as to the appropriate scope and level of review for the implementation document. Like the PMP, the review plan is a living document and may change as the project progresses. The home district is responsible for keeping the Review Plan up to date. Changes in the review plan should be approved by following the process used for initially approving the plan. In all cases the MSC will review decisions on the level of review and any changes made in updates to the project. The latest version of the Review Plan, along with the MSC Commander's approval memorandum, should be posted on the Home District's webpage.

ATTACHMENT 1 – TEAM ROSTER

Table 1 – Product Delivery Team Members

Discipline (POC)	Name	Office/Agency
Project Manager	Tom Smith	CESAM-PM-CM
Project Architect/Engineer (PAE)	Justin McDonald	CESAM-EN-HH
Hydraulic/Coastal Engineer	Justin McDonald	CESAM-EN-HH
Cost Estimator	Joe Ellsworth	CESAM-EN-E
Environmental Specialist	Lekesha Reynolds	CESAM-PD-EC
Specifications Engineer	Marie Klusman	CESAM-EN-DW
Sponsor	Gov. Phil Bryant as represented by Dr. Bill Walker	State of Mississippi