



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

REPLY TO  
ATTENTION OF

CESAM-PM-CM (1105)

28 November 2010

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

SUBJECT: Review Plan – Rehabilitation of Beach Erosion Control and Storm Damage  
Reduction Project, Panama City Beaches, Florida

1. A copy of the subject Review Plan is enclosed for review and approval.
2. The Review Plan describes the technical review process to address the Rehabilitation of Beach Erosion Control and Storm Damage Reduction Project, Panama City Beaches, Florida. Bay County, Florida is the Non-Federal Sponsor.
3. If you have any questions, please call Brandy Alexander at (251) 690-3215.

Encl

  
JOHN F. CRANE, JR.  
Project Manager

SMITHERMAN/PM-C 

MILLER/EN-HH 

HARVEY/EN-H 

OTTO/EN   


# REVIEW PLAN

## REHABILITATION OF BEACH EROSION CONTROL AND STORM DAMAGE REDUCTION PROJECT PANAMA CITY BEACHES, FLORIDA

Mobile District

November 2010

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**US Army Corps  
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Mobile District**

# REVIEW PLAN

## REHABILITATION OF BEACH EROSION CONTROL AND STORM DAMAGE REDUCTION PROJECT PANAMA CITY BEACHES, FLORIDA

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# REVIEW PLAN

## REHABILITATION OF BEACH EROSION CONTROL AND STORM DAMAGE REDUCTION PROJECT PANAMA CITY BEACHES, FLORIDA

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# **REHABILITATION OF BEACH EROSION CONTROL AND STORM DAMAGE REDUCTION PROJECT PANAMA CITY BEACHES, FLORIDA**

## **1. PURPOSE AND NEED**

The rare “clustering” of tropical storms that occurred in 2004 and 2005 had significant impacts on the Panama City Beaches Hurricane and Storm Damage Reduction Project. Most notable of these storms were Ivan 2004, Dennis 2005 and Katrina 2005. The 2004/2005 hurricane season resulted in an average of 22 feet of shoreline recession with an estimated loss of more than 3.0 million cubic yards (cy) of sediment shoreward from the -20-foot depth contour. The 2005/2006 emergency beach maintenance was able to restore most of the project to pre-Ivan conditions; however, an estimated 1,100,000 (CY) is still needed to restore the beach from the impacts of recent hurricanes.

## **2. DESCRIPTION OF PROJECT AREA**

The Panama City Beaches project site is located on the northwest Florida Panhandle, and the authorized project extends 18.5 miles from Philips Inlet eastward to the Panama City Harbor entrance channel (see Figure 1). The project site is located 80 miles southwest of Tallahassee. The existing project area is made up of approximately 17.5 miles of shorelines of Panama City Beach and unincorporated shorelines of Bay County, in addition to several borrow areas located offshore in the Gulf of Mexico. The Panama City Beaches, Florida, project was authorized by Section 501 of the Water Resources Act (WRDA) of 1986 (Public Law 99-662). Mitigation of shoreline erosion damages caused by the existing Federal navigation project was implemented under the authority of Section 111 of the River and Harbor Act of 1968.

## **3. DESCRIPTION OF WORK FOR REVIEW**

This project consists of design and construction of the Rehabilitation of Beach Erosion Control and Storm Damage Reduction Project. Products to be reviewed include plans and specifications (P&S) and a design documentation report (DDR).

## **4. BACKGROUND**

A General Reevaluation Report (GRR) was completed in 1995. The locally preferred alternative as recommended in the GRR consisted of a 7-foot berm landward of the erosion control line with a 50-foot top width from station 939+00 to station 192+00 and a 30-foot top width from station 192+00 to station 77+00. Construction of this project was completed in 2000.

Since that time, there have been several storms that have caused erosion on the entire 18.5 miles of beach. Rehabilitation of this project was recommended and approved in the Project Information Report (PIR) dated October, 2009 and entitled "Rehabilitation Effort for the Panama City Beaches, Florida Hurricane/Shore Protection Project".

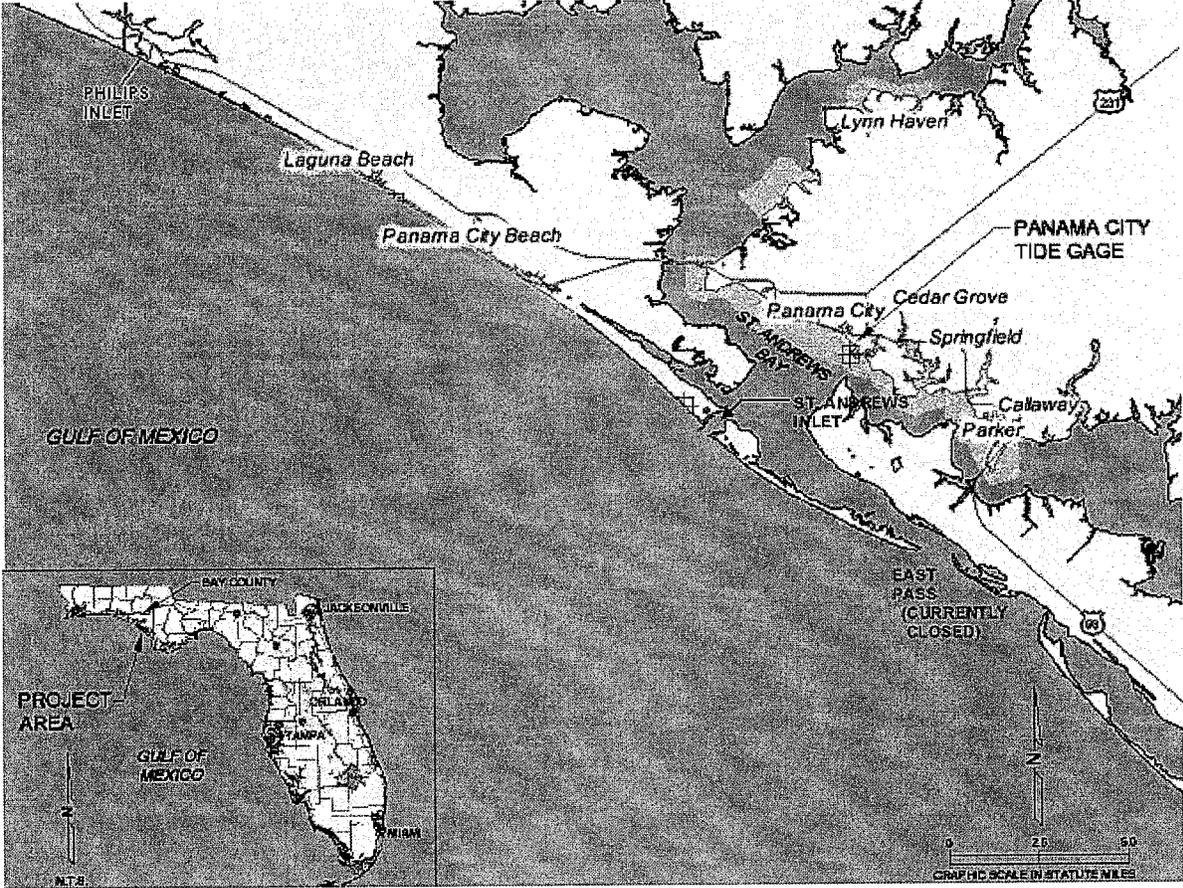


Figure 1: Panama City Beach Vicinity Map (CP&E, 2007)

## **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 District PDT are included in Appendix A of this document.

## **6. 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 (IPER).

## **7. 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. 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.

## **8. 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 plan in the PIR.

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 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 District Quality Control (DQC) activities were sufficient and documented.

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

<b>Discipline</b>	<b>Required Expertise</b>
Coastal Hydraulics	Team member(s) should have an understanding of beach fill design considerations.
Civil Engineer (Operations/Construction)	Team member should have experience with administration of contracts for dredging and beach fill construction.
Geotechnical Engineer	Team member should have experience to include geotechnical evaluation of boring logs and test data relative to beach fill design projects.
Environmental Specialist	Team member(s) should have extensive knowledge of environmental evaluation and compliance requirements, pursuant to national environmental statutes (NEPA), section 404 of the Clean Water Act (CWA), applicable executive orders and other Federal planning requirements. Familiarity with beach fill projects is also beneficial.

## **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 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.

## **10. 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”. The purpose of agency reviews throughout the project life cycle, including ATR, policy compliance and legal reviews generally is to ensure that the appropriate problems and opportunities are addressed; assure that accurate cost, scheduling and associated risks are presented.

Review should be conducted to identify, examine, and comment upon assumptions that underlie analyses (i.e. public safety, economic, engineering, environmental, real estate, and others) appropriate to the “charge,” as well as to evaluate the soundness of models and analytic methods.

The intent is for an ATR to not only ensure technical analyses are correct, but to also ensure compliance with all pertinent USACE guidance in order to achieve adequate quality. The ATR will examine the materials submitted at specific milestones including draft and final documents, supporting documents, and other supporting analyses to ensure the adequacy of the presented methods, assumptions, criteria, decision factors, applications, and explanations.

DrChecks will be the official system for the continuity of the review record. DrChecks will be used to document all ATR comments, responses and associated resolutions accomplished throughout the review process.

## **11. 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. NEPA documentation has been prepared and coordinated prior to preparation of construction plans and specifications.

## **12. MODEL CERTIFICATION AND APPROVAL**

All models have been approved for use. No model certification is required.

## **13. REVIEW SCHEDULE AND COSTS**

The cost for ATR is estimated to be approximately \$20,000.00. The documents to be reviewed and scheduled dates for review are as follows:

<b>Milestone</b>	<b>Review</b>	<b>Schedule Dates</b>
100% Un-reviewed P&S	DQC	2 Sep 2010

Final P&S and DDR	ATR	15 Nov 2010
Construction Contract Award		21 Jan 2011

#### **14. 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. Public and interagency review for the EA will be conducted in accordance with NEPA, as outlined in ER 1105-2-100.

#### **15. MAJOR SUBORDINATE COMMAND (MSC) APPROVAL**

The MSC (Division Commander) is responsible for approving the review plan 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 document. Like the PMP, the review plan is a living document and may change as the project progresses. 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.

## ATTACHMENT 1 – TEAM ROSTER

**Table 1 – Product Delivery Team Members**

<b>Discipline (POC)</b>	<b>Name</b>	<b>Office/Agency</b>
Project Manager	John Crane	CESAM-PM-CM
Project Engineer (PAE)	J. Greg Miller	CESAM-EN-HH
Hydraulic Engineer	Elizabeth Godsey	CESAM-EN-HH
Geotechnical Engineer	Ron Nettles	CESAM-EN-GG
Cost Estimator	Joe Ellsworth	CESAM-EN-E
Environmental Engineer	Linda Brown	CESAM-PD-EC
Specifications Engineer	Marie Klusman	CESAM-EN-DW
Sponsor	Lisa Armbruster	Bay County, Florida

## ATTACHMENT 2: 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
CAP	Continuing Authorities Program	O&M	Operation and maintenance
CSDR	Coastal Storm Damage Reduction	OMB	Office and Management and Budget
DPR	Detailed Project Report	OMRR&R	Operation, Maintenance, Repair, Replacement and Rehabilitation
DQC	District Quality Control/Quality Assurance	OEO	Outside Eligible Organization
DX	Directory of Expertise	OSE	Other Social Effects
EA	Environmental Assessment	PCX	Planning Center of Expertise
EC	Engineer Circular	PDT	Project Delivery Team
EIS	Environmental Impact Statement	PAC	Post Authorization Change
EO	Executive Order	PMP	Project Management Plan
ER	Ecosystem Restoration	PL	Public Law
FDR	Flood Damage Reduction	QMP	Quality Management Plan
FEMA	Federal Emergency Management Agency	QA	Quality Assurance
FRM	Flood Risk Management	QC	Quality Control
FSM	Feasibility Scoping Meeting	RED	Regional Economic Development
GRR	General Reevaluation Report	RMC	Risk Management Center
HQUSACE	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
LRR	Limited Reevaluation Report	USACE	U.S. Army Corps of Engineers
MSC	Major Subordinate Command	WRDA	Water Resources Development Act