



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

12 AUG 2013

CESAD-RBT

MEMORANDUM FOR COMMANDER JACKSONVILLE DISTRICT (CESAJ-EN-QC/
[REDACTED])

SUBJECT: Approval of the Review Plan for the Flood Control and Coastal Emergency Implementation Documents for Manatee County Shore Protection Project and Hurricane and Storm Damage Reduction Project, Gasparilla Island Segment, Lee County, Florida

1. References:

a. Memorandum, CESAJ-EN-QC, 23 July 2013, subject: Approval of the Review Plan for the Flood Control and Coastal Emergency Implementation Documents for Manatee County Shore Protection Project and Hurricane and Storm Damage Reduction Project, Gasparilla Island Segment, Lee County, Florida (Enclosure).

b. EC 1165-2-214, Civil Works Review, 15 December 2012.

2. The enclosed Review Plan for the Flood Control and Coastal Emergency Implementation Documents for Manatee County Shore Protection Project and Hurricane and Storm Damage Reduction Project, Gasparilla Island Segment, Lee County, Florida submitted by reference 1.a, has been reviewed by this office and 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 either of these beach renourishment efforts. The primary basis for the concurrence that a Type II IEPR is not required is the determination that the failure or loss of these beach nourishment efforts do not pose a significant threat to human life.

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 [REDACTED].

Encl

DONALD E. JACKSON, JR.
Brigadier General USA
Commanding



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P.O. BOX 4970
JACKSONVILLE, FLORIDA 32232-0019

REPLY TO
ATTENTION OF

CESAJ-EN-QC

23 July 2013

MEMORANDUM FOR Commander, South Atlantic Division (CESAD-RBT)

SUBJECT: Approval of Review Plan for the Flood Control and Coastal Emergency Implementation Documents, for Manatee County Shore Protection Project and Hurricane and Storm Damage Reduction Project, Gasparilla Island Segment, Lee County, Florida.

1. References.

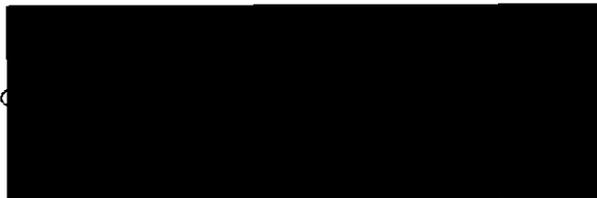
- a. EC 1165-2-214, Civil Works Review Policy, 15 December 2012
- b. WRDA 2007 H. R. 1495 Public Law 110-114, 08 November 2007

2. I hereby request approval of the enclosed Review Plan and concurrence with the conclusion that Type II Independent External Peer Review (IEPR) of the subject projects is not required. The recommendation to exclude Type II IEPR is based on the EC 1165-2-214 Risk Informed Decision Process as presented in the Review Plan. Approval of this plan is for the Flood Control and Coastal Emergency (FCCE) and Hurricane and Storm Damage Reduction (HSDR) Implementation Documents. The Review Plan complies with applicable policy, provides District Quality Control (DQC) and has been coordinated with the CESAD. An Agency Technical Review for the Shore Protection Project is recommended as defined by EC 1165-2-214. 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. Names of Corps/Army employees will be withheld from the posted version, in accordance with guidance.

FOR THE COMMANDER:

Encl



PROJECT REVIEW PLAN

MANATEE COUNTY, FLORIDA - SHORE PROTECTION PROJECT

&

**LEE COUNTY, FLORIDA - HURRICANE AND STORM DAMAGE
REDUCTION PROJECT - GASPARILLA ISLAND SEGMENT**

Jacksonville District

July 2013

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, JACKSONVILLE DISTRICT. IT DOES NOT REPRESENT AND SHOULD NOT BE CONSTRUED TO REPRESENT ANY AGENCY DETERMINATION OR POLICY.



**US Army Corps
of Engineers ®**

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1. PURPOSE AND REQUIREMENTS

a. Purpose

This Review Plan defines the scope and level of review activities for the renourishment of Anna Maria Island (Manatee County) and Gasparilla Island (Lee County) as a result of the damage sustained in these areas as a result of Tropical Storm Debby. The review activities consist of a District Quality Control (DQC) effort and an Agency Technical Review (ATR). An Independent External Peer Review (IEPR) is not recommended by this review plan. The project is in the Periodic Nourishment Phase and the documents for review are Plans and Specifications (P&S). The scope of work consists of the renourishment of two segments within Palm Beach County, Florida Beach Erosion Control Project. Upon approval, this review plan will be included into the Project Management Plan as an appendix to the Quality Management Plan.

b. References

- (1). ER 1110-2-1150, Engineering and Design for Civil Works Projects, 31 August 1999
- (2). ER 1110-1-12, Engineering and Design Quality Management, 31 March 2011
- (3). FCA 1968, WRDA 1974, and WRDA of 1986 (Project Authorization)
- (4). EC 1165-2-214, Civil Works Review, 15 December 2012
- (5). ER 415-1-11, "Biddability, Constructability, Operability, Environmental, and Sustainability (BCOES) Review", 1 January 2013
- (6). 02611-SAJ Quality Control of In-House Products: Civil Works PED, 21 November 2011
- (7). 08550-SAJ, BCOES Reviews, 21 September 2011
- (8). Project Management Plan, Lee County, 113085

c. Requirements

This review plan was developed in accordance with EC 1165-2-214, 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 provides the procedures for ensuring the quality and credibility of U.S. Army Corps of Engineers (USACE) decision, implementation, and operations and maintenance documents and other work products. The EC outlines three levels of review: District Quality Control, Agency Technical Review, and Independent External Peer Review. Refer to the EC for the definitions and procedures for the three levels of review.

d. Review Management Organization (RMO)

The South Atlantic Division is designated as the RMO for the ATR Review effort identified in this review plan.

2. PROJECT INFORMATION

The project work consists of beach fill nourishment at two different gulf coast fronting islands: Anna Maria Island (Manatee County) and Gasparilla Island (Lee County). The straight line distance between the two project areas is approximately 58 miles.

a. Project Location and Name

Anna Maria Island is located on the Gulf Coast in Manatee County, Florida south of the entrance to Tampa Bay, west of the city of Bradenton. Gasparilla Island is located on the lower Gulf Coast in Lee County, Florida about 90 miles south of the entrance at Tampa Bay, bounded by Gasparilla Pass (north) and Boca Grande Channel (south).

b. Project Authorization

Anna Maria Island: The Manatee County, Florida Shore Protection Project was initially constructed pursuant to Section 201 of the Flood Control Act of 1965 (Public Law 98-298). The authorized project includes the entire 7.5 mile Gulf shoreline of Anna Maria Island. The initial project provided for restoration of 3.2 miles of beach to an elevation of +5.9 feet above mean low water with a 50-foot berm width and a natural slope seaward as would be shaped by wave action. The General Design Memorandum of September 1991 and subsequent 1991 Post Authorization Change Notification Report recommended an increase in project length to 4.2 miles with another 0.5 mile taper and an increase in berm width from 50 to 75 feet. The project fill limits extend from R-12 to just past R-33, including a 0.5 mile.

Gasparilla Island: The Lee County, Florida, Beach Erosion Control Project, a single purpose project, was authorized under the provisions of Section 201 of the 1965 River and Harbor and Flood Control Act (PL 89-298) by Senate Resolution dated December 17, 1970, and House Resolution dated December 15, 1970. This authority was amended by Section 131 of the Water Resource Development Act (WRDA) of 1976 (PL 94-587). The project was modified by section 309 of WRDA 2000 to authorize the Secretary to carry out the authorized project in accordance with Section 206 of WRDA 1992, allowing for non-federal interests to design and construct the authorized project and allowing for reimbursement of the Federal share of the cost. This project is now referred to as the Lee County, Florida, Hurricane and Storm Damage Reduction (HSDR) Project, Gasparilla Island Segment.

c. Current Project Description

The project consists of restoring 7.0 miles of critically eroded shoreline at two different locations: Anna Marie Island and Gasparilla Island. This work has been identified as an emergency action and as such the beach template will follow the previous beach fill projects completed respectively at both locations: 2005 and 2007. For Anna Marie Island, project work will provide nourishment approximately 4.2 miles between Florida Department of Environmental Protection (FDEP) range monument (R-monument) R-12 to R-33, including a 0.5 mile taper extending to R-36. The borrow area for Anna Marie Island is located west of the northern end of Anna Maria island in the ebb shoal with water depths ranging from 2-20 MLW. For Gasparilla, restoration of the project occurred in 2007 along 2.8 miles of shoreline. Project limits extend from FDEP R-monument R-10.5 through R-24.5 (including tapers to the existing

shoreline). The Gasparilla borrow area lies on the shoal to the north of Boca Grande Pass navigation channel at water depths ranging between 2-15 feet MLW. Work also includes, but is not limited to, beach tilling, construction/vibration controls and monitoring, turbidity monitoring, sea turtle trawl sweeping and relocation, endangered species observers, and beach fill remediation.

3. DISTRICT QUALITY CONTROL

District Quality Control and Quality Assurance (DQC) activities for the project documents (P&S) are stipulated in ER 1110-1-12, Engineering & Design Quality Management and SAJ QMS 02611. The subject project P&S will be prepared by the Jacksonville District using ER 1110-1-12 procedures and undergo DQC.

4. AGENCY TECHNICAL REVIEW

a. Risk Informed Decision on Appropriate Level of Review

In accordance with EC 1165-2-214, Para 15, the review policy directs the Project Delivery Team (PDT) to make a risk informed decision regarding the effectiveness of an Agency Technical Review (ATR) (). Review of the answers to the following questions from Para 15.b indicate that an ATR is warranted because the sand source has changed requiring additional design and analysis.

- (1). Does it include any design (structural, mechanical, hydraulic, etc)?
Yes. The design duplicates a previous edition of P&S that have been used successfully in the past; however the sand source will be different.
- (2). Does it evaluate alternatives? *No.*
- (3). Does it include a recommendation? *No.*
- (4). Does it have a formal cost estimate?
Yes, an Independent Government Estimate for the contract will be developed.
- (5). Does it have or will it require a NEPA document?
Yes. The project uses an existing Environmental Assessment and requires a State of Florida Water Quality Certificate.
- (6). Does it impact a structure or feature of a structure whose performance involves potential life safety risks?
No. There is no life safety risk associated with this dredging project.
- (7). What are the consequences of non-performance?
The renourishment beach fill is a sacrificial fill section. Failure or non-performance of the nourishment would not in itself pose any safety issues as project monitoring triggers its replacement such that the project function is maintained.

- (8). Does it support a significant investment of public monies? *Yes.*
- (9). Does it support a budget request?
No. The project implements appropriated funds.
- (10). Does it change the operation of the project? *No.*
- (11). Does it involve ground disturbances?
Yes, dredging and beach placement are in areas that have been disturbed in accordance with authorized purposes in the past.
- (12). Does it affect any special features, such as cultural resources, historic properties, survey markers, etc, that should be protected or avoided?
No. All project areas have appropriate clearances.
- (13). Does it involve activities that trigger regulatory permitting such as Section 404 or stormwater/NPDES related actions?
Yes, however the project uses an existing Environmental Assessment and we are obtaining the Water Quality Certificate.
- (14). Does it involve activities that could potentially generate hazardous wastes and/or disposal of materials such as lead based paints or asbestos? *No.*
- (15). Does it reference use of or reliance on manufacturers' engineers and specifications for items such as prefabricated buildings, playground equipment, etc? *No.*
- (16). Does it reference reliance on local authorities for inspection/certification of utility systems like wastewater, stormwater, electrical, etc? *No.*
- (17). Is there or was there expected to be any controversy surrounding the Federal action associated with the work product? *No.*

b. Agency Technical Review Scope.

Agency Technical Review (ATR) is undertaken to "ensure the quality and credibility of the government's scientific information" in accordance with EC 1165-2-214 and ER 1110-1-12. An ATR will be performed on the P&S pre-final submittals.

ATR will be conducted by individuals and organizations that are external to the Jacksonville District. The ATR Team Leader is a Corps of Engineers employee outside the South Atlantic Division. The required disciplines and experience are described below.

ATR comments are documented in the DrCheckssm model review documentation database. DrCheckssm is a module in the ProjNetsm suite of tools developed and operated at ERDC-CERL (www.projnet.org). At the conclusion of ATR, the ATR Team Leader will prepare a Review Report that summarizes the review. The report will consist of the ATR Certification Form from EC 1165-2-214 and the DrCheckssm printout of the closed comments.

c. ATR Disciplines.

As stipulated ER 1110-1-12, ATR members will be sought from the following sources: regional technical specialists (RTS); appointed subject matter experts (SME) from other districts; senior level experts from other districts; Center of Expertise staff; experts from other USACE commands; contractors; academic or other technical experts; or a combination of the above. The ATR Team will be comprised of the following disciplines; knowledge, skills and abilities; and experience levels.

Geotechnical Engineering and Engineering Geology. The team member should be a registered professional. Team Member needs to possess a minimum of 7 years experience with geologic and geotechnical analyses that are used to support the development of Plans and Specifications for navigation and shore protection projects with rock structures.

Civil Engineering/Dredging Operations. The team member should be a registered professional engineer with 7 years of dredging operations and/or civil/site work project experience that includes dredging and disposal operations, embankments, groins, channels, revetments and shore protection project features.

ATR Team Leader. The ATR Team Leader will be from outside SAD and should have a minimum of 15 years of experience with Navigation and/or Shore Protection Projects. ATR Team Leader may be a co-duty to one of the review disciplines.

5. INDEPENDENT EXTERNAL PEER REVIEW

a. General.

EC 1165-2-214 provides implementation guidance for both Sections 2034 and 2035 of the Water Resources Development Act (WRDA) of 2007 (Public Law (P.L.) 110-114). The EC addresses review procedures for both the Planning and the Design and Construction Phases (also referred to in USACE guidance as the Feasibility and the Pre-construction, Engineering and Design Phases). The EC defines Section 2035 Safety Assurance Review (SAR), Type II Independent External Peer Review (IEPR). The EC also requires Type II IEPR be managed and conducted outside the Corps of Engineers.

a. Type I Independent External Peer Review (IEPR) Determination.

A Type I IEPR is associated with decision documents. No decision documents are addressed or covered by this Review Plan. A Type I IEPR is not applicable to the implementation documents covered by this Review Plan.

b. Type II Independent External Peer Review (IEPR) Determination (Section 2035).

This shore protection project does not trigger WRDA 2007 Section 2035 factors for Safety Assurance Review and therefore, the District Engineering Chief does not recommend that Type II IEPR review under Section 2035 and/or EC 1165-2-214 be performed. The factors as stated under Section 2035 and EC 1165-2-214 are used in determining whether a review of design and construction activities. These factors and its applicability to this project follow.

- (1). The failure of the project would pose a significant threat to human life.
This project will perform periodic nourishment that will re-establish an authorized beach section. The beach is designed to protect structures through its sacrificial nature and is continually monitored and renourished in accordance with program requirements and constraints. Failure or loss of the beach fill will not pose a significant threat to human life.
In addition, the prevention of loss of life within the project area from hurricanes and severe storms is via public education about the risks, warning of potential threats and evacuations before hurricane landfall.
- (2). The project involves the use of innovative materials or techniques.
This project will utilize standard methods and procedures used by the Corps of Engineers on other similar works.
- (3). The project design lacks redundancy.
The beach fill design is in accordance with the USACE Coastal Engineering Manual. The manual does not employ the concept of redundancy for beach fill design.
- (4). The project has unique construction sequencing, or a reduced, or overlapping design construction schedule.
This project's construction does not have unique sequencing, or a reduced or overlapping design. The installation sequence and schedule has been used successfully by the Corps of Engineers on other similar works.

6. MODEL CERTIFICATION AND APPROVAL

This shore protection project does not use any engineering models that have not been approved for use by USACE.

7. BUDGET AND SCHEDULE

a. Project Milestones.

- Complete Pre-Final Submittals: 19 Jun 2013
- District Quality Control: 19 Jun 2013 – 25 Jun 2013
- ATR Review Start: 17 Jul 2013
- BCOE: 15 Jul 2013
- BCOE/ATR Certification: 31 Jul 2013

b. ATR Estimated Cost. \$10,000

8. POINTS OF CONTACT

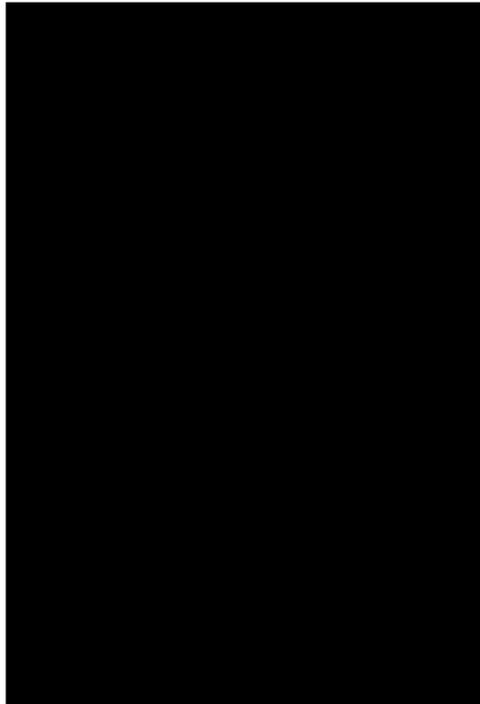
Jacksonville District points of contact names, titles, and responsibilities are listed below.

Per guidance, the names of the following individuals will not be posted on the Internet with the Review Plan.

Review Manager

Project Information (PM) & (ETL),

South Atlantic Division,



ATTACHMENT A

ABBREVIATIONS

<u>ABBREVIATIONS</u>	<u>DEFINED</u>
ATR	Agency Technical Review
BCOES	Biddability, Constructability, Operability, Environmental, and Sustainability
DQC	District Quality Control
EC	Engineering Circular
ER	Engineering Regulation
ETL	Engineering Technical Lead
FCCE	Flood Control and Coastal Emergencies
NEPA	National Environmental Policy Act
IEPR	Independent External Peer Review
MLW	Mean Low Water
NGVD	National Geodetic Vertical Datum
OMRR&R	Operation, Maintenance, Repair, Replacement and Rehabilitation
PDT	Project Delivery Team
PMP	Project Management Plan
QA	Quality Assurance
QCP	Quality Control Plan
QMS	Quality Management System
RMC	Risk Management Center
RMO	Review Management Organization
RP	Review Plan
SAD	South Atlantic Division
SAJ	South Atlantic Jacksonville
SAR	Safety Assurance Review (also referred as Type II IEPR)
WRDA	Water Resources Development Act

Attachment B

ATR Report Outline and COMPLETION OF AGENCY TECHNICAL REVIEW

Manatee County, Shore Protection Project

Lee County – Gasparilla Segment, HSDR Project

ATR REPORT OUTLINE (Unneeded items, such as ATR Team Member Disciplines that are not identified as needed in the Review Plan, shall be deleted from the ATR Report.)

ATR REPORT FORMAT

- 1. Introduction:**
- 2. ATR Team Members:**
 - Environmental Engineer.**
 - Hydrogeology and Geology.**
 - Water Management.**
 - Hydrology and Hydraulics.**
 - Geotechnical Engineering.**
 - Structural Engineering.**
 - Mechanical and Electrical Engineering.**
 - Civil Engineering.**
 - NEPA Compliance.**
 - ATR Team Leader.**
- 3. ATR Objective:**
- 4. Documents Reviewed:**
- 5. Findings and Conclusions:**
- 6. Unresolved Issues:**

COMPLETION OF AGENCY TECHNICAL REVIEW

The Agency Technical Review (ATR) has been completed for the Manatee County Shore Protection Project and Lee County Hurricane and Storm Damage Protection Project Gasparilla Island Segment, Florida. The ATR included the design documents, plans and specifications. The ATR was conducted as defined in the project's Review Plan to comply with the requirements of EC 1165-2-214 and ER 1110-1-12. 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 DrChecks.

NAME

ATR Team Leader

Date

NAME

Project Manager

Date

NAME

Review Management Office Representative

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.

NAME

Chief, Engineering Division SAJ-EN

Date