



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

27 July 2012

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

SUBJECT: Approval of the Review Plan for Preconstruction, Engineering and Design Phase Implementation Documents for Jacksonville Harbor Mile Point Navigation Project, Duval County, Florida

1. References:

a. Memorandum, CESAJ-EN-QC, 3 July 2012, Subject: Approval of Review Plan for Preconstruction, Engineering and Design Phase Implementation Documents for Jacksonville Harbor Mile Point Navigation Project, Duval County, Florida (Enclosure).

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

2. The enclosed Review Plan for the Preconstruction, Engineering and Design Phase Implementation Documents for Jacksonville Harbor Mile Point Navigation Project dated 20 June 2012 submitted by reference 1.a, has been reviewed by this office and is hereby 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 navigation project. The primary basis for the concurrence that a Type II IEPR is not required is that the failure of the revetment training wall will 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.

5. The SAD point of contact is [REDACTED].

FOR THE COMMANDER:

Encl

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



REPLY TO  
ATTENTION OF

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

CESAJ-EN-Q

3 July 2012

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

SUBJECT: Approval of Review Plan for Preconstruction, Engineering and Design Phase Implementation Documents for Jacksonville Harbor Mile Point Navigation Project, Duval County, Florida

1. References.

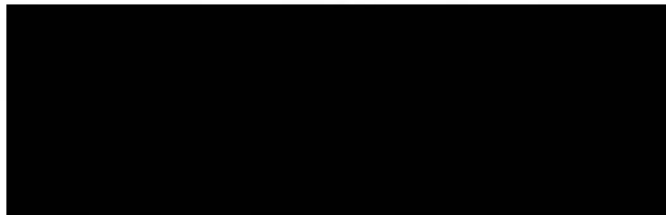
- a. EC 1165-2-209, Civil Works Review Policy, 31 January 2010
- b. WRDA 2007 H. R. 1495 Public Law 110-114, 08 Nov 07

2. I hereby request approval of the enclosed Review Plan and concurrence with the conclusion that Type II Independent External Peer Review (IEPR) of this project is not required. The Type II IEPR determination is based on the EC 1165-2-209 Risk Informed Decision Process as presented in the Review Plan. Approval of this plan is for the Preconstruction, Engineering and Design Phase Implementation Documents. The Review Plan complies with applicable policy, provides Agency Technical Review and has been coordinated with the 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:

Encl



# **REVIEW PLAN**

**For**

**Preconstruction, Engineering and Design Phase**

**Implementation Documents**

**For**

**Jacksonville Harbor Mile Point  
Navigation Project  
Duval County, Florida**

**20 June 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, 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 of review activities for the Jacksonville Harbor (Mile Point) Navigation Project, Duval County, Florida. Review activities consist of District Quality Control (DQC) and Agency Technical Review (ATR). The project is in the Preconstruction, Engineering and Design Phase. The related project documents are Contract 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.

### b. References.

- (1). EC 1165-2-209, Civil Works Review Policy, 31 January 2010
- (2). ER 1110-2-1150, Engineering and Design for Civil Works Projects, 31 Aug 1999
- (3). ER 1110-1-12, Engineering and Design Quality Management, 21 Jul 2006
- (4). P2 # 113114, Project Management Plan dated December 2002, Mile Point, Jacksonville, FL. The update for PED phase is ongoing.
- (5). Final Integrated Feasibility Report and Environmental Assessment Jacksonville Harbor (Mile Point) Navigation Study, Duval County, Florida, March 2012
- (6). Chief of Engineers Report, Jacksonville Harbor Mile Point Navigation Study, Duval County, Florida , 30 April 2012

**c. Requirements.** This review plan was developed in accordance with EC 1165-2-209, 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 four levels of review: District Quality Control, Agency Technical Review, Independent External Peer Review and Policy and Legal Review. Refer to the EC for the definitions and procedures for the four levels of review.

**d. Review Management Organization (RMO).** The South Atlantic Division is designated as the RMO.

## 2. PROJECT INFORMATION AND BACKGROUND

The recommended plan reduces the ebb tide crosscurrents at the confluence of the St. Johns River with the Intracoastal Waterway (IWW) by construction of a relocated Mile Point training wall. Relocation of the Mile Point training wall involves removal of the western approximately 3,110 feet of existing training wall, dredging to open the confluence of the IWW and St. Johns River, construction of a new training wall western leg (~4,250 feet), relocation of the eastern leg (~2,050 feet), restoration of Great Marsh Island as the least cost disposal alternative and mitigation site providing beneficial use of dredged material, and construction of a Flow Improvement Channel (FIC) to offset project induced adverse impacts.

The FIC would be constructed to offset any adverse effects that would be caused by closing off the breakthrough of Great Marsh Island. The FIC consists of dredging a channel approximately 80 feet wide and 6 feet deep for a length of approximately 3,620 feet through Western Chicopit Bay. Dredged material from the FIC would be placed back into the Great Marsh Island restoration area.

All usable stone material recovered from the existing training wall will be stockpiled for use in the East Leg of the relocated training wall and all other material excavated will be placed as beneficial use in the Salt Marsh Mitigation Area at Great Marsh Island and as foundation for the relocated training wall. It is estimated that approximately 14,600 cy of armor stone can be recovered for reuse purposes.

The initial plan, Alternative 3B, was modified by the results of a Value Engineering (VE) Study which incorporates the beneficial use of dredged material by creating a salt marsh mitigation area that restores wetlands lost on Great Marsh Island. The original Plan 3B utilized the Buck Island Disposal Area for placement of dredged material which would have resulted in increased cost and loss of capacity in the D/A. The VE program has also identified concrete structural units for the West Leg training wall that will serve as both initial containment for the mitigation area and on-going shoreline protection beyond the project life of 50 years. Further modification of Alternative 3B occurred with the addition of the FIC. Western Chicopit Bay has experienced shoaling as a result of the breakthrough at Great Marsh Island and tidal flushing could be increased by opening a flow channel that was present prior to the breakthrough's occurrence.

### 3. DISTRICT QUALITY CONTROL

District Quality Control (DQC) activities for engineering products are stipulated in ER 1110-1-12, Engineering & Design Quality Management and EC 1165-2-209. DQC will be performed on the P&S and DDR in accordance CESAJ Engineering Division Quality Management System (EN QMS). The EN QMS defines DQC as the sum of two reviews, Discipline Quality Control Review (DQCR) and Product Quality Control Review (PQCR). Product Quality Control Review is the DQC Certification that will precede ATR. The following EN QMS Procedures define related DQC activities for CESAJ-EN.

[02611 - SAJ Quality Control In-House Products: Civil Works PED](#)

Attachments and Samples

[02600 - QCP QAP Approval](#)

[02611 - DQC Certification](#)

[02611 - PQCR Certification](#)

[02621 - SAJ Sample Quality Control Plan](#)

[02622 - SAJ Quality Control Plan for O&M Dredging](#)

[02710 - SAJ Preparation and Submittal of Civil Works Review Plans](#)

### 4. AGENCY TECHNICAL REVIEW

**a. Scope.** Agency Technical Review (ATR) is undertaken to "ensure the quality and credibility of the government's scientific information" in accordance with EC 1165-2-209 and ER 1110-1-12. An ATR will be performed on the P&S and DDR pre-final submittal.

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 will be documented in the DrChecks<sup>sm</sup> model review documentation database. DrChecks<sup>sm</sup> is a module in the ProjNet<sup>sm</sup> suite of tools developed and operated at ERDC-CERL ([www.projnet.org](http://www.projnet.org)).

At the conclusion of ATR, the ATR team will prepare a Review Report summarizing the review. Review Reports will be considered an integral part of the ATR documentation and shall:

- Identify the document(s) reviewed and the purpose of the review;

- Disclose the names of the reviewers, their organization affiliations, and include a short paragraph on both the credentials and relevant expertise of each reviewer;
- Include the charge to the reviewer;
- Describe the nature of their review and their findings and conclusions;
- Identify and summarize each unresolved issues (if any); and  
Include a verbatim copy of each reviewers comments (either with or without specific attributions), or represent the views of the group as a whole, including any disparate and dissenting views.

**b. 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/Engineering Geology - The team member should be a registered professional. Experience needs to encompass revetments, jetties, breakwaters and other coastal structures design and analyses to support the development of Plans and Specifications. Related project construction experience is desired.

Coastal Engineering - The team member should be a registered professional. Experience needs to encompass o encompass revetments, jetties, breakwaters and other coastal structures design and analyses to support the development of Plans and Specifications. Related project construction experience is desired.

Structural Engineering - The team member should be a registered professional. Experience needs to encompass marine design and analyses for revetments, jetties, breakwaters and other coastal structures. Related project construction experience is desired.

Construction - The team member should be a registered professional. Experience needs to encompass construction of revetments, jetties, breakwaters and other coastal structures. Related project construction experience is desired.

NEPA Compliance - The team member should have experience in NEPA compliance activities and preparation of Environmental Assessments and Environmental Impact Statements for navigation or dredging projects and civil works projects. Draft or Final NEPA and other environmental documents will be submitted to the ATR team with the DDR and Plans and Specifications to aid in performing ATR.

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

## 5. INDEPENDENT EXTERNAL PEER REVIEW

**a. General.** EC 1165-2-209 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.

**b. Type I Independent External Peer Review (IEPR) Determination (Section 2034).** A Type I IEPR is associated with decision documents. No decision documents are addressed by this Review Plan.

**c. Type II Independent External Peer Review (IEPR) Determination (Section 2035).** This navigation project does not trigger WRDA 2007 Section 2035 factors for Safety Assurance Review (termed Type II IEPR in EC 1165-2-209) and therefore, a review under Section 2035 is not required. The factors in determining whether a review of design and construction activities of a project are necessary as stated under Section 2035 along with this review plans applicability statements follow.

(1) The failure of the project would pose a significant threat to human life.

*This project consists of a revetment training wall reconfiguration including removal of the western existing Mile Point revetment training wall and the construction of a relocated Eastern Leg revetment training wall. Failure of the revetment training wall will not pose a significant threat to human life.*

(2) The project involves the use of innovative materials or techniques.

*This project will utilize methods and procedures used by the Corps of Engineers on other similar works.*

(3) The project design lacks redundancy.

*The concept of redundancy does not apply to coastal revetments. Revetment design complies with the Coastal Engineering Manual.*

(4) The project has a unique construction sequencing or a reduced or overlapping design construction schedule.

*This project's construction sequence and schedule have been used successfully by the Corps of Engineers on other similar works.*

## **6. POLICY AND LEGAL COMPLIANCE**

The Jacksonville District Office of Counsel reviews all contract actions for legal sufficiency in accordance with Engineer Federal Acquisition Regulation Supplement 1.602-2 Responsibilities. The subject implementation documents and supporting environmental documents will be reviewed for legal sufficiency prior to advertisement.

## **7. MODEL CERTIFICATION AND APPROVAL**

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



**8. BUDGET AND SCHEDULE**

**a. Project Milestones.**

Milestone	Task	Duration	Start	Finish
	ATR Kick-Off Meeting	1 day	18-Jan-13	18-Jan-13
EN8180	ATR Review	10 days	21-Jan-13	1-Feb-13
	Evaluate ATR Comments	5 days	4-Feb-13	8-Feb-13
	Backcheck and Close ATR Comments	5 days	11-Feb-13	15-Feb-13
	Incorporate ATR Comments	5 days	18-Feb-13	22-Feb-13
	ATR Package Submitted and Reviewed for Certification	10 days	25-Feb-13	8-Mar-13
EN8185	ATR Certified	0 days	8-Mar-13	8-Mar-13

**b. ATR Schedule and Cost.** Funds will be budgeted to execute ATR and schedule as outlined above. It is envisioned that each reviewer will be afforded 20 hours review plus 4 hours for coordination. ATR Leader will be funded for 12 hours. The estimated cost range is \$20-25,000.

**9. POINTS OF CONTACT**

Per guidance, the names of the following individual will not be posted on the Internet with the Review Plan. Their titles and responsibilities are listed below.

Jacksonville District POCs:

Review Plan, ATR and QM Process,

[Redacted]  
[Redacted]  
[Redacted]

Project Information (PM) & (ETL),

[Redacted]  
[Redacted]  
[Redacted]

[Redacted]  
[Redacted]  
[Redacted]

South Atlantic Division,

[Redacted]  
[Redacted]  
[Redacted]