



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

15 DEC 2014

CESAD-RBT

MEMORANDUM FOR COMMANDER JACKSONVILLE DISTRICT

SUBJECT: Approval of the Review Plan for the Jacksonville Harbor Deepening Project, Duval County, Florida

1. References:

a. Memorandum, CESAJ-EN-QC, 17 November 2014, subject: Approval of Review Plan for the Jacksonville Harbor Deepening Project, Duval County, Florida (Encl 1).

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

2. The Review Plan (RP) for the Design Documentation Report and Plans and Specifications for Jacksonville Harbor Deepening Project submitted by the Jacksonville District via reference 1.a has been reviewed by this office. Some minor edits to the Review Plan were coordinated with Mr. Amro Habib of your organization. The enclosed RP is hereby approved in accordance with reference 1.b above.

3. South Atlantic Division (SAD) concurs with the District Chief of Engineering, as the Engineer in Responsible Charge, that a Type II IEPR is not required for this navigation project design and construction effort. The primary basis for this concurrence is the determination that failure or loss of the features associated with this navigation project would not pose a significant threat to human life.

4. The District should take steps to post the approved RP 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, such as scope changes or level of review, to this RP, should they become necessary, will require new written approval from this office.

5. The SAD point of contact is [REDACTED]

Encl

[REDACTED]

CF:

[REDACTED]



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

REPLY TO  
ATTENTION OF

CESAJ-EN-QC

17 November 2014

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

SUBJECT: Approval of Review Plan for the Jacksonville Harbor Deepening Project, Duval County, Florida

1. References.

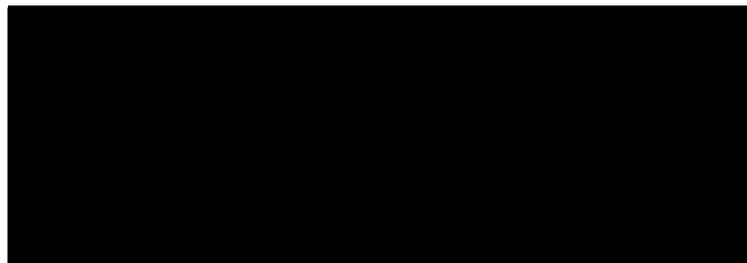
- a. EC 1165-2-214, Civil Works Review, 15 December 2012
- b. Water Resources Reform and Development Act (WRRDA) 2014

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 project 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.

The scope of this review plan addresses the Deepening Documents which include Plans, Specifications and Design Documentation Report (DDR). 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. Names of Corps/Army employees will be withheld from the posted version, in accordance with guidance.

FOR THE COMMANDER:



Encl

# **PROJECT REVIEW PLAN**

For

## **Preconstruction, Engineering and Design Phase Implementation Documents**

For

### **Jacksonville Harbor Channel Deepening (47') Duval County, Florida**

**Jacksonville District  
November 2014**

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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Attachment A – Partial List of Acronyms and Abbreviations

Attachment B – ATR Report Outline and Completion of Agency Technical Review Form

## 1. PURPOSE AND REQUIREMENTS

### a. Purpose

This Review Plan defines the scope and level of review activities for the Jacksonville Harbor Deepening Project, Duval County, Florida. As discussed below, the review activities consist of a District Quality Control (DQC) effort, an Agency Technical Review (ATR), and a Biddability, Constructability, Operability, Environmental, and Sustainability (BCOES) Review. Also as discussed below, an Independent External Peer Review (IEPR) is not recommended. The project is in the design phase and the related documents including Plans and Specifications (P&S) and a Design Documentation Report (DDR) are the implementation documents. Upon approval, this review plan will be included into the Project Management Plan for this project 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). EC 1165-2-214, "Civil Works Review", 15 December 2012
- (4). ER 415-1-11, "Biddability, Constructability, Operability, Environmental, and Sustainability (BCOES) Review", 1 January 2013
- (5). Final General Reevaluation Report II and Supplemental Environmental Impact Statement Jacksonville Harbor Deepening Study, Duval County, Florida, 18 April 2014
- (6). Chief of Engineers Report, Jacksonville Harbor Deepening Study, Duval County, Florida, 30 April 2014
- (7). Project Management Plan dated November 2013, Jacksonville Harbor, General Reevaluation Report for Proposed 50-foot Project Depth, P2 # 113131
- (8). 02611-SAJ, Quality Control of In-House Products: Civil Works PED, 21 November 2011
- (9). 08550-SAJ, BCOES Reviews, 21 September 2011

### 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 applicable levels of review: District Quality Control, an Agency Technical Review, and an Independent External Peer Review, and states that a Biddability, Constructability, Operability, Environmental, and Sustainability Review shall be included in the Review Plan.

#### **d. Review Plan Approval and Updates**

The South Atlantic Division Commander is responsible for approving this Review Plan. The Commander's approval reflects vertical team input (involving district, MSC, RMO, and HQUSACE members) as to the appropriate scope and level of review. Like the PMP, the Review Plan is a living document and may change as the project progresses. The Jacksonville District is responsible for keeping the Review Plan up to date. Minor changes to the review plan since the last MSC Commander approval will be documented in an attachment. Significant changes to the Review Plan (such as changes to the scope and/or level of review) shall be re-approved by the MSC Commander following the process used for initially approving the plan. The latest version of the Review Plan, along with the Commanders' approval memorandum, will be posted on the Jacksonville District's webpage. The latest Review Plan will be provided to the RMO and home MSC.

#### **e. Review Management Organization (RMO)**

The South Atlantic Division is designated as the RMO. The RMO, in cooperation of the vertical team, will determine/select/approve the ATR team members. Jacksonville District may assist SAD with management of the ATR and development of the "charge to reviewers."

## **2. PROJECT INFORMATION**

### **a. Project Location and Name**

The Jacksonville Harbor Federal navigation project encompasses approximately 20 river miles from the mouth of the St. Johns River at Mayport to the Talleyrand terminal near downtown Jacksonville. The current authorized channel depth is 40 feet for the main channel and 38 feet for the West Blount Island Channel. Channel improvements will allow existing fleet and new deeper draft vessels to utilize the channel more efficiently and safely, thereby reducing transportation cost.

### **b. Project Authorization**

The original deepening study was authorized through a resolution from the Committee on Public Works and Transportation, U.S. House of Representatives, dated February 5, 1992 resulting in a feasibility study that recommended modifications from the entrance channel to River Mile 14.7, including deepening 38 feet to 40 feet. Deepening of that segment was authorized in 1999 Water Resources Development Act, and construction was completed in 2003. A General Reevaluation Report (GRR) recommended deepening the harbor from River Mile 14.7 to River Mile 20 from 38 feet to 40 feet; deepening of that segment was authorized in the FY2006 Appropriations Act and construction was completed in 2010. To follow through with the intent of the original 1992 study authorization, it was determined by U.S. Army Corps of Engineers (USACE) that further study was needed. The Feasibility and Cost Sharing Agreement (FCSA) for this study was signed July 1, 2005 and amended June 15, 2006. President Barack Obama issued an Executive Order ("We Can't Wait") expediting completion of the Jacksonville Harbor deepening study and reducing the study schedule by 14 months as authorized in WRRDA 2014.

### **c. Current Project Description**

The Recommended Plan (preferred alternative) is the locally preferred plan (LPP) of 47-foot MLLW as identified in the 16 April 2014 Chiefs Report. This plan includes deepening from the existing 40-foot channel to 47 feet from the entrance channel to approximately River Mile 13. The following areas of widening are included as part of the new channel footprint for the LPP:

- Mile Point: Widen to the north by 200 feet from Cuts 8 to 13 (~River Miles 3 to 5)

- Training Wall Reach: Widen to the south 100 feet from Cuts 14 to 16 (~River Miles 5 to 6) transitioning to 250 feet for Cut 17 (~River Mile 6) and back to 100 feet from Cuts 18 to 19 (~River Mile 6)
- St. Johns Bluff Reach: Widen both sides of the channel varying amounts up to 300 feet from Cuts 40 to 41 (~River Miles 7 to 8)

The following turning basin areas are included in the Recommended Plan.

- Blount Island: ~2,700 feet long by 1,500 feet wide located in Cut 42 (~River Mile 10)
- Brills Cut: ~2,500 feet long by 1,500 feet wide located in Cut 45 (~River Mile 13)

Construction of the recommended plan involves dredging of approximately 18 million cubic yards of material. All material dredged for construction is expected to go to the Ocean Dredged Material Disposal Site (ODMDS).

The mitigation plan consists of conservation land purchase of approximately 638 acres of freshwater wetlands, uplands, river shoreline, and salt marsh wetlands. It has been determined by USACE that this plan would be sufficient to offset any minor effects that may occur as a result of the proposed project. A long-term Corrective Action Plan, which includes field data collection, has been prepared by USACE to provide assurances that actual effects will be assessed and corrective actions coordinated.

#### **d. Public Participation**

The Jacksonville District Corporate Communications Office continually keeps the affected public informed on Jacksonville District projects and activities. There are no planned activities, public participation meetings or workshops that could generate issues to be addressed by the review teams. The project review plan will be posted on the Jacksonville District Internet. Any comments or questions regarding the review plan will be addressed by the Jacksonville District.

#### **e. In-Kind-Contributions by Project Sponsor**

There are no required in-kind sponsor contributions that could affect this review plan or related reviews.

### **3. DISTRICT QUALITY CONTROL**

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

### **4. AGENCY TECHNICAL REVIEW**

#### **a. Risk Informed Decision on Appropriate Level of Review**

The project is new construction widening and deepening from 40 feet to 47 feet. PED phase implementation documents are being prepared in accordance with EC 1165-2-214. An ATR of the P&S and DDR documents will be required.

**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 and DDR pre-final submittals.

ATR will be conducted by individuals and organizations that are external to the Jacksonville District. The ATR Team Leader will be a Corps of Engineers employee from 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 Leader will prepare a Review Report that summarizes the review and is outlined in Attachment B. The report will include at a minimum the Charge to Reviewers, ATR Certification Form from EC 1165-2-214, and the DrChecks<sup>sm</sup> printout of the comments.

**c. ATR Disciplines.**

As stipulated ER 1110-1-12, ATR members will be sought from the following sources: regional technical specialists (RTS); subject matter experts (SME) certified in CERCAP; 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. Civil Engineering and Construction team members may be combined if a qualified individual is available.

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 have previously performed ATR Team Leader duties. ATR Team Leader can also serve as a co-duty to one of the review disciplines.

Civil Engineering/Dredging Operations. The team member should have at least 7 years of civil/site work project experience that includes rock pretreatment, dredging and disposal operations and navigation project features.

Construction Management. The team member should have 7 years of construction management experience with dredging and disposal operations, channels and navigation project features. Experience with navigation projects that involve blasting and blast plans is required.

Geotechnical Engineering and Engineering Geology. The team member should have a minimum of 7 years experience in geologic and geotechnical analyses used to support the development of Plans and Specifications for navigation projects with rock pretreatment and potential blasting. Experience with navigation projects that involve blasting and blast plans is required.

NEPA Compliance. The NEPA compliance reviewer should be a senior environmental resources specialist with 5 years of experience in NEPA compliance activities associated with navigation and marine ecology 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. Experience with navigation projects that involve blasting and blast plans is required.

## **5. BIDDABILITY, CONSTRUCTABILITY, OPERABILITY, ENVIRONMENTAL, AND SUSTAINABILITY (BCOES) REVIEW**

The value of a BCOES review is based on minimizing problems during the construction phase through effective checks performed by knowledgeable, experienced personnel prior to advertising for a contract. Biddability, constructability, operability, environmental, and sustainability requirements must be emphasized throughout the planning and design processes for all programs and projects, including during planning and design. This will help to ensure that the government's contract requirements are clear, executable, and readily understandable by private sector bidders or proposers. It will also help ensure that the construction may be done efficiently and in an environmentally sound manner, and that the construction activities and projects are sufficiently sustainable. Effective BCOES reviews of design and contract documents will reduce risks of cost and time growth, unnecessary changes and claims, as well as support safe, efficient, sustainable operations and maintenance by the facility users and maintenance organization after construction is complete. A BCOES Review will be conducted for this project. Requirements and further details are stipulated in ER 1110-1-12, ER 415-1-11, and QMS 08550-SAJ, BCOES Reviews.

## **6. 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.

### **b. Type I Independent External Peer Review (IEPR) Determination.**

A Type I IEPR is typically associated with decision documents. A Type I IEPR is not applicable to the implementation documents (DDR and P&S) covered 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 1165-2-214) 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 channel dredging and failure of the navigation channel 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 channel dredging projects.*

(4) The project has 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. Construction schedules do not have unique sequencing and activities are not reduced or overlapped.*

Therefore, the District Chief of Engineering, as the Engineer-In-Responsible-Charge, does not recommend a Type II IEPR Safety Assurance Review of these P&S and DDR.

## **7. 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.

## **8. MODEL CERTIFICATION AND APPROVAL**

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

## **9. PROJECT DELIVERY TEAM DISCIPLINES**

<b>Discipline/Expertise</b>
Civil / Dredging
Geotechnical Engineering
Environmental
Hydrogeology & Geology

## 10. BUDGET AND SCHEDULE

### a. Project Milestones.

Task	Est. Finish
Draft P&S complete	01-Jun-2015
DQCR	30-Jun-2015
BCOE & ATR Review	15-Sep-2015
Evaluate ATR Comments	15-Oct-2015
ATR Review Certification	16-Nov-2015
Contract Advertised	19-Feb-2016

**b. ATR 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 8 hours for coordination. ATR Leader will be funded for 20 hours. The estimated cost range is \$25,000 - \$30,000.

## ATTACHMENT A

### PARTIAL LIST OF ACRONYMS AND ABBREVIATIONS

<u>Acronyms</u>	<u>Defined</u>
ATR	Agency Technical Review
BCOES	Biddability, Constructability, Operability, Environmental, and Sustainability Review
CAP	Continuing Authorities Program
CERCAP	Corps of Engineers Reviewer Certification and Access Program
CY	Cubic Yards
DDR	Design Documentation Report
DQC	District Quality Control
DQCR	Discipline Quality Control Review
EC	Engineering Circular
EA	Environmental Assessment
ER	Engineering Regulation
ERDC-CERL	Engineer Research and Development Center – Construction Engineering Research Laboratory
ESA	Endangered Species Act
ETL	Engineering Technical Lead
FDEP	Florida Department of Environmental Protection
FONSI	Findings of No Significant Impacts
FSCA	Feasibility and Cost Sharing Agreement
FY	Fiscal Year
GRR	General Reevaluation Report
IEPR	Independent External Peer Review
LPP	Locally Preferred Plan
MLLW	Mean Low Low Water
NEPA	National Environmental Policy Act
ODMDS	Ocean Dredged Material Disposal Site
OMRR&R	Operation, Maintenance, Repair, Replacement and Rehabilitation
P&S	Plans and Specifications
PED	Preconstruction Engineering and Design
PM	Project Manager
PPA	Project Partnering Agreement
PQCR	Product Quality Control Review
QA	Quality Assurance
QCP	Quality Control Plan

<b><u>Acronyms</u></b>	<b><u>Defined</u></b>
QMS	Quality Management System
RMO	Review Management Organization
RTS	Regional Technical Specialist
SAJ	South Atlantic Jacksonville District Office
SAD	South Atlantic Division Office
SAR	Safety Assurance Review (also referred as Type II IEPR)
SME	Subject Matter Expert
USACE	U.S. Army Corps of Engineers
WRDA	Water Resources and Development Act

**Attachment B**

**ATR Report Outline and COMPLETION OF AGENCY TECHNICAL**

**Jacksonville Harbor Deepening Project (47')**

**Duval County, Florida**

**Review of Plans and Specifications (P&S), Design Documentation Report (DDR)**

**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.)**

- 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

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The Agency Technical Review (ATR) has been completed for the Jacksonville Harbor Deepening Project (47'), Duval County, Florida, including the design documents, plans and specifications and DDR. 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