



**DEPARTMENT OF THE ARMY**  
U.S. ARMY CORPS OF ENGINEERS, SOUTH ATLANTIC DIVISION  
60 FORSYTH STREET SW, ROOM 10M15  
ATLANTA, GA 30303-8801

CESAD-RBT

19 November 2019

MEMORANDUM FOR Commander, Jacksonville District, 701 San Marco Boulevard,  
Jacksonville, Florida 32207

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

1. References:

a. Memorandum, CESAJ-EN-Q, subject as above.

b. Engineering Circular (EC) 1165-2-217, Water Resources Policies and Authorities  
Review Policy for Civil Works, 20 February 2018.

2. The Review Plan (RP) for the Jacksonville Harbor Deepening Project, Contract C, submitted  
by the Jacksonville District via reference 1.a. noted above has been reviewed by South Atlantic  
Division (SAD). The enclosed RP is hereby approved in accordance with reference 1.b.

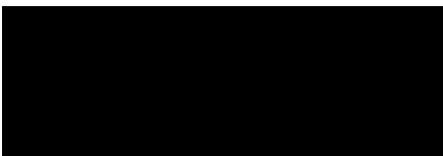
3. The South Atlantic Division Office shall be the Review Management Organization (RMO) for  
this project.

4. SAD concurs with the District's RP recommendation that outlines the requirements for  
District Quality Control (DQC), Agency Technical Review (ATR), and Biddability,  
Constructability, Operability, Environmental and Sustainability (BCOES) Review, and the  
conclusion that a Safety Assurance Review/Type II Independent External Peer Review is not  
required.

5. The District should take steps to post the approved RP to its website and provide a link to  
CESAD-RBT. Before posting to the website, the names of Corps/Army employees should be  
removed. Subsequent significant changes to this RP, such as scope or level of review changes,  
should they become necessary, will require new written approval from this office.

6. The SAD point of contact is [REDACTED], CESAD-RBT, [REDACTED].

Encl



Major General, USA  
Commanding



DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS, JACKSONVILLE DISTRICT  
701 SAN MARCO BOULEVARD  
JACKSONVILLE, FL32207-8175

CESAJ-EN-Q

MEMORANDUM FOR Commander, South Atlantic Division (CESAD-RBT), 60 Forsyth Street SW, Room 10M15, Atlanta, GA 30303

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

1. References:

- a. Engineering Circular (EC) 1165-2-217, Review Policy for Civil Works, 20 Feb 18.
- b. Flood Control Act of 1946, Public Law 79-526, 24 Jul 46.

2. I hereby request approval of the enclosed Review Plan for the Jacksonville Harbor Deepening Project, Contract C, Duval County, Florida and concurrence with the conclusion that a Type II Independent External Peer Review (IEPR) of the subject project is not required. The recommendation not to perform a Type II IEPR is based on the EC 1165-2-217 Risk Informed Decision Process as presented in the Review Plan. The Review Plan complies with applicable policy, provides for 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.

4. The SAJ point of contact is [REDACTED], Engineering Review Manager, [REDACTED].

Encl

[REDACTED]  
COL, EN  
Commanding

# **PROJECT REVIEW PLAN**

**For**

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

**For**

### **Jacksonville Harbor Channel Deepening (47') Contract C**

**Duval County, Florida**

**Project P2 number: 443862**

**Jacksonville District**

**October 2019**



**US Army Corps  
of Engineers** ®

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ATTACHMENT A - Approved Review Plan Revisions

ATTACHMENT B - Partial List of Acronyms and Abbreviations

ATTACHMENT C - ATR Report Outline and Completion of Agency Technical Review Form

## **1. PURPOSE AND REQUIREMENTS**

### **a. Purpose**

This Review Plan (RP) for the Jacksonville Harbor Deepening Project (Contract B), Duval County, Florida, will help ensure a quality-engineering project is developed by the U.S. Army Corps of Engineers (USACE) in accordance with EC 1165-2-217, "Review Policy for Civil Works." As part of the Project Management Plan (PMP), this RP establishes an accountable, comprehensive, life-cycle review strategy for Civil Works products and lays out a value added process and describes the scope of review for the current phase of work. The EC outlines five general levels of review: District Quality Control/Quality Assurance (DQC), Agency Technical Review (ATR), Biddability, Constructability, Operability, Environmental, and Sustainability (BCOES) Review, Independent External Peer Review (IEPR), and Policy and Legal Compliance Review. This RP will be provided to the Project Delivery Team (PDT) and the DQC, ATR, and BCOES Teams. The technical review efforts addressed in this RP, DQC and ATR, are to augment and complement the policy review processes. The District Chief of Engineering has assessed that the life safety risk of this project is not significant; therefore, a Type II IEPR/Safety Assurance Review (SAR) will not be required, see Paragraph 6. Any levels of review not performed in accordance with EC 1165-2-217 will require documentation in the RP of the risk-informed decision not to undertake that level of review.

### **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 1165-2-217, "Review Policy for Civil Works," 20 February 2018
- (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 RP was developed in accordance with EC 1165-2-217, 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 USACE decision, implementation, and operations and maintenance documents and other work products.

**d. Review Plan Approval and Updates**

The South Atlantic Division (SAD) Commander is responsible for approving this RP. The Commander's approval reflects vertical team input as to the appropriate scope and level of review. Like the PMP, the RP is a living document and may change as the project progresses. The Jacksonville District (SAJ) is responsible for keeping the RP up to date. Minor changes to the RP since the last SAD Commander approval will be documented in Attachment A. Significant changes to the RP (such as changes to the scope and/or level of review) should be re-approved by the SAD Commander following the process used for initially approving the plan. The latest version of the RP, along with the Commander's approval memorandum, will be posted on the SAJ's webpage. The latest RP will be provided to SAD.

**e. Review Management Organization**

SAD is designated as the Review Management Organization (RMO). The RMO, in cooperation with the vertical team, will approve the ATR team members. SAJ will assist SAD with management of the ATR and development of the charge to reviewers.

## **2. PROJECT INFORMATION**

### **a. Project Overview**

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.

The Recommended Plan (preferred alternative) is the locally preferred plan (LPP) of 47-foot MLLW as identified in the 16 April 2014 Chief's 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.

### **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 the 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 the 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.

**c. Current Project Description**

The Jacksonville Harbor Deepening Project is currently scheduled to be awarded in four separate construction contracts as shown in Figure 1 below. This review plan covers the work for Contract C, which includes dredging Station 33+80 Cut-42 through Station 135+00 Cut-42.

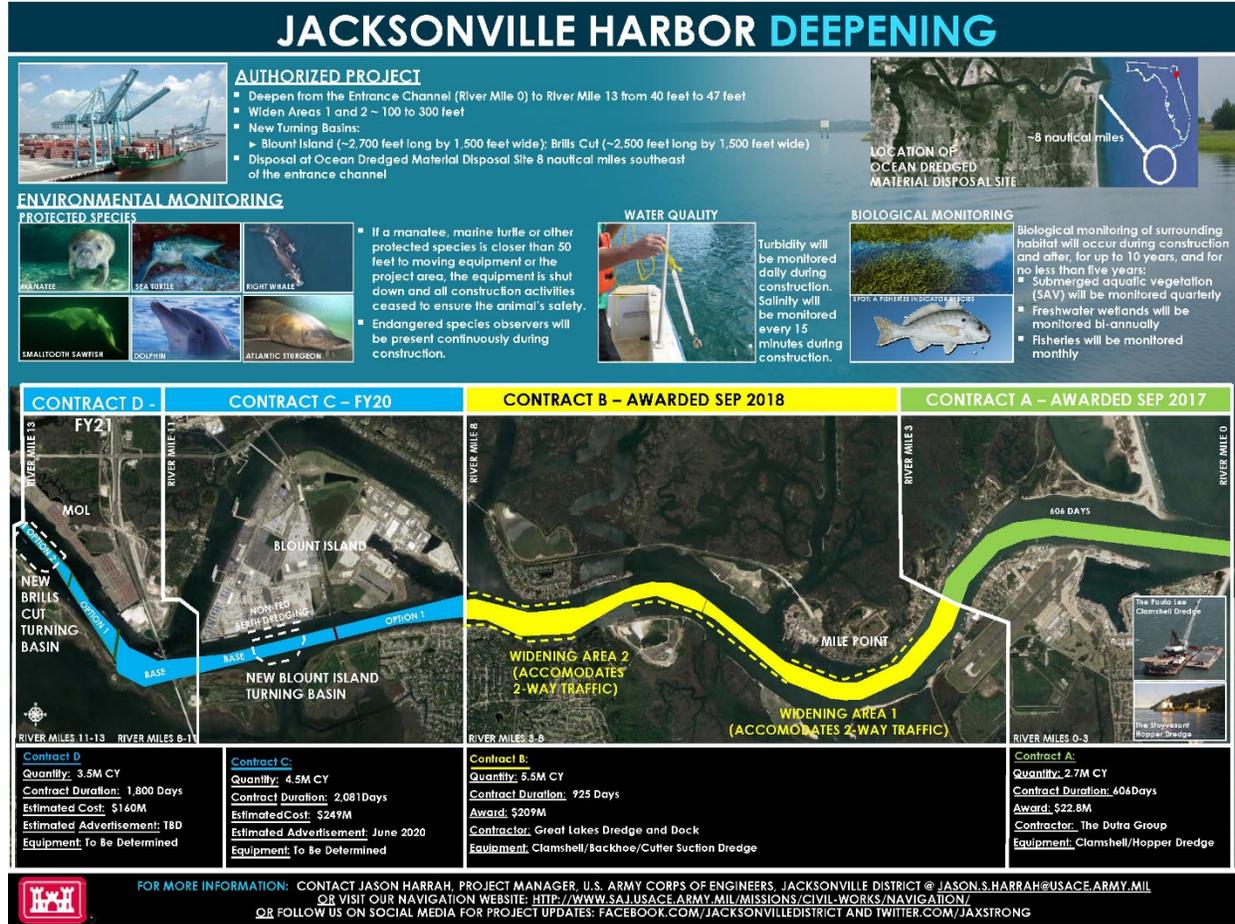


Figure 1: Jacksonville Harbor Deepening Project Construction Contracts

Contract A and Contract B are currently under construction and scheduled to be completed in June and December 2020, respectively.

**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 needing provision to review teams. The approved RP will be posted on the SAJ Internet. Any comments or questions regarding the RP will be addressed by the SAJ.

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

Products and analyses provided by non-Federal sponsors as in-kind services are subject to DQC, ATR, BCOES, and SAR reviews. Sponsor Peer Review of In-Kind Contributions - There will not be in-kind contributions for this effort.

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

#### **a. Requirements**

All implementation documents (including supporting data, analyses, environmental compliance documents, etc.) shall undergo a DQC. A DQC is an internal review process of basic science and engineering work products focused on fulfilling the project quality requirements defined in the PMP. DQC will be performed on the Plans and Specifications (P&S) and the Design Documentation Report (DDR) in accordance with SAJ's Engineering Division Quality Management System (EN QMS). The EN QMS 02611 defines DQC as the sum of two reviews, Discipline Quality Check and Review (DQCR) and Product Quality Control Review (PQCR).

#### **b. Documentation**

DQCRs occur during the design development process and are carried out as a routine management practice by each discipline. Checklists are utilized by each discipline to facilitate the review and to document the DQCR review comments. Certification of the DQCR is signed by the Branch Chief certifying that all design analyses and products have been completed in accordance with the EN QMS process prior to release from the Branch.

The PQCR shall ensure consistency and effective coordination across all disciplines and shall assure the overall coherence and integrity of the products. Review comments and responses for this review will be documented in DrChecks<sup>sm</sup>. The PQCR shall be certified by the Engineering Technical Lead (ETL), all applicable Section and Branch Chiefs, and the Division Chief. This PQCR certification signifies that all DQCR Certifications are complete, as well as the PQCR.

#### **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. An ATR of the intermediate P&S and DDR documents will be required.

##### **b. Agency Technical Review Scope.**

ATR is undertaken to "ensure the quality and credibility of the government's scientific information" in accordance with EC 1165-2-217 and ER 1110-1-12.

A site visit will not be scheduled for the ATR Team. If necessary, additional data and photos of the project site required by the ATR team will be gathered by PDT members during plan-in-hand site visits. This information will be disseminated to the ATR Team by the PDT.

ATR will be conducted by individuals and organizations that are external to the SAJ. The ATR Team Leader will be a USACE employee outside SAD. 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 an ATR Review Report that summarizes the review. An outline for an ATR Review Report is in Attachment C. The report will include at a minimum the Charge to Reviewers, ATR Certification Form from EC 1165-2-217, and the DrChecks<sup>sm</sup> printout of the comment resolution.

##### **c. ATR Disciplines.**

As stipulated in 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.

ATR Team Leader. The ATR Team Leader shall be from outside SAD and shall have a minimum of 15 years of experience with navigation improvement projects 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. The team member shall have at least 7 years of civil/site experience with navigation improvement projects that include new work dredging and disposal operations and associated features.

Construction Management. The team member shall have 7 years of construction management experience with navigation improvement projects that include dredging and disposal operations, and associated features.

Geotechnical Engineering/Engineering Geology. The team member shall be a registered professional and have a minimum of 7 years of experience with navigation improvement projects. Specialized experience with new work dredging involving rock removal is required.

NEPA Compliance. The NEPA compliance reviewer shall be a senior environmental resources specialist with 5 years of experience in NEPA compliance activities associated with navigation and marine ecology projects. For reference, NEPA and other environmental documents will be submitted to the ATR team with the DDR and Plans and Specifications to aid in performing ATR.

**d. Documentation of ATR.**

DrChecks<sup>sm</sup> review software will be used to document all ATR comments, responses and associated resolutions accomplished throughout the review process. Comments should be limited to those that are required to ensure adequacy of the product. The four key parts of a quality review comment will normally include:

- (1) The review concern – identify the product’s information deficiency or incorrect application of policy, guidance, or procedures;
- (2) The basis for the concern – cite the appropriate law, policy, guidance, or procedure that has not be properly followed;
- (3) The significance of the concern – indicate the importance of the concern with regard to its potential impact on the plan selection, recommended plan components, efficiency (cost), effectiveness (function/outputs), implementation responsibilities, safety, Federal interest, or public acceptability; and
- (4) The probable specific action needed to resolve the concern – identify the action(s) that the reporting officers must take to resolve the concern.

In some situations, especially addressing incomplete or unclear information, ATR team members may seek clarification in order to then assess whether further specific concerns may exist. The ATR documentation in DrChecks<sup>sm</sup> will include the text of each ATR concern, the PDT response, a brief summary of the pertinent points in any discussion, including any vertical team coordination (the vertical team includes the district, RMO, MSC, and HQUSACE), and the agreed upon resolution. If an ATR concern cannot be satisfactorily resolved between the ATR team and the PDT, it will be elevated to the vertical team for further resolution in accordance with the policy issue resolution process described in either ER 1110-1-12 or ER 1105-2-100, Appendix H, as appropriate. Unresolved concerns can be closed in DrChecks<sup>sm</sup> with a notation that the concern has been elevated to the vertical team for resolution.

At the conclusion of each ATR effort, 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 organizational affiliations, and include a short paragraph on both the credentials and relevant experiences of each reviewer;
- Include the charge to the reviewers;
- Describe the nature of their review and their findings and conclusions;
- Identify and summarize each unresolved issue (if any); and

- Include a verbatim copy of each reviewer's comments (either with or without specific attributions), or represent the views of the group as a whole, including any disparate and dissenting views.

ATR may be certified when all ATR concerns are either resolved or referred to the vertical team for resolution and the ATR documentation is complete. The ATR Lead will prepare a Statement of Technical Review certifying that the issues raised by the ATR team have been resolved (or elevated to the vertical team). A Statement of Technical Review should be completed, based on work reviewed to date, for the draft report and final report. A sample Statement of Agency Technical Review is included in Attachment C.

## **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. BCOES review 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 SAJ EN QMS 02611.

## **6. INDEPENDENT EXTERNAL PEER REVIEW**

### **a. General.**

EC 1165-2-217 provides guidance for the implementation of IEPR according to 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 primarily associated with decision documents. A Type I IEPR is not applicable to the implementation documents covered by this Review Plan.

### **c. Type II Independent External Peer Review (IEPR) Determination (Section 2035).**

This project does not trigger WRDA 2007 Section 2035 factors for Safety Assurance Review (termed Type II IEPR in EC 1165-2-217). 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 the applicability statements for this RP, are as follows:

- (1) Does failure of the project 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) Does the project involve 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) Does the project design require redundancy, resiliency, or robustness?

*The concept of redundancy does not apply to channel dredging projects.*

- (4) Does the project have 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. Construction schedules do not have unique sequencing and activities are not reduced or overlapped.*

Based on the discussion above, the District Chief of Engineering, as the Engineer-In-Responsible-Charge, does not recommend a Type II IEPR Safety Assurance Review of the P&S.

## **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**

No engineering models are being used to prepare the documents covered by this RP.

**9. PROJECT DELIVERY TEAM DISCIPLINES**

<b>Organization</b>
Civil Engineering / Dredging
Geotechnical Engineering
Hydrogeology and Geology
Environmental

**Table 1: PDT Members**

## 10. BUDGET AND SCHEDULE

### a. Schedule.

Milestone	Task	Start Date	End Date
CW310	Draft P&S complete	15 Nov 2019	15 Nov 2019
	DQCR	15 Nov 2019	5 Dec 2019
	PQCR/DQC	5 Dec 2019	13 Jan 2020
	ATR Review	21 Jan 2020	11 Feb 2020
	ATR Comment Evaluation	11 Feb 2020	19 Feb 2020
	ATR Backcheck/Close Comments	20 Feb 2020	26 Feb 2020
	ATR Certification	27 Feb 2020	5 Mar 2020
	BCOES	9 Mar 2020	8 Apr 2020
CW320	BCOES Certification	8 Apr 2020	24 Apr 2020
CW400	Advertisement	11 Jun 2020	13 Jul 2020

Table 2: Project Schedule Milestones

### b. ATR Cost.

Funds will be budgeted to execute ATR and schedule as outlined above. It is envisioned that each reviewer will be afforded 32 hours review plus 8 hours for coordination. The estimated cost range is \$30,000 - \$35,000.

**11. REVIEW PLAN POINTS OF CONTACT**

Title	Organization	Phone
Quality Manager	CESAD-RBT	[REDACTED]
Review Manager	CESAJ-EN-Q	[REDACTED]

Table 3: Review Plan Point of Contacts

**ATTACHMENT A: APPROVED REVIEW PLAN REVISIONS**

<b>Revision Date</b>	<b>Description of Change</b>	<b>Page / Paragraph Number</b>

Table 4: Review Plan Revisions

**ATTACHMENT B: PARTIAL LIST OF ACRONYMS AND ABBREVIATIONS**

<u>Acronyms</u>	<u>Defined</u>
AFB	Alternatives Formulation Briefing
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
ER	Engineering Regulation
EA	Environmental Assessment
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
MCX	Mandatory Center of Expertise
MLLW	Mean Low Low Water
MSC	Major Subordinate Command
NAS	National Academy of Sciences
NEPA	National Environmental Policy Act
ODMDS	Ocean Dredged Material Disposal Site
OMB	Office of Management and Budget
OMRR&R	Operation, Maintenance, Repair, Replacement and Rehabilitation
P&S	Plans and Specifications
PED	Preconstruction Engineering and Design
PDT	Project Delivery Team
PM	Project Manager
PMP	Project Management Plan

<b><u>Acronyms</u></b>	<b><u>Defined</u></b>
PPA	Project Partnering Agreement
PQCR	Product Quality Control Review
QA	Quality Assurance
QCP	Quality Control Plan
QMP	Quality Management Plan
QMS	Quality Management System
RMC	Risk Management Center
RMO	Review Management Organization
RP	Review Plan
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

Table 5: Abbreviations

## **ATTACHMENT C**

### **ATR REPORT OUTLINE AND COMPLETION OF AGENCY TECHNICAL REVIEW**

#### **Jacksonville Harbor Deepening Project (Contract C) Duval County, Florida**

#### **ATR REPORT OUTLINE**

1. Introduction:
2. Project Description:
3. ATR Team Members:
  - ATR Team Leader
  - Civil Engineering/Dredging
  - Construction Management
  - Geotechnical Engineering/Engineering Geology
  - NEPA Compliance
4. ATR Objective:
5. Documents Reviewed:
6. Findings and Conclusions:
7. Unresolved Issues:

#### **Enclosures:**

1. ATR Statement of Technical Review
2. ATR Comments (DrChecks<sup>sm</sup>)
3. Project Review Plan
4. Charge to Reviewers
5. Certification of District Quality Control Review

# COMPLETION OF AGENCY TECHNICAL REVIEW

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The Agency Technical Review (ATR) has been completed for the Jacksonville Harbor Deepening Project (Contract C), 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 1165-2-217 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 U.S. 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<sup>sm</sup>.

\_\_\_\_\_  
NAME  
ATR Team Leader

\_\_\_\_\_  
Date

\_\_\_\_\_  
Engineering Technical Lead  
CESAJ-EN-DW

\_\_\_\_\_  
Date

\_\_\_\_\_  
Review Management Office Representative  
CESAD-RBT

\_\_\_\_\_  
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.

\_\_\_\_\_  
Chief, Engineering Division, Jacksonville District  
SAJ-EN

\_\_\_\_\_  
Date