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

07 APR 2016

MEMORANDUM FOR COMMANDER, JACKSONVILLE DISTRICT

SUBJECT: Approval of Review Plan for Preconstruction, Engineering and Design Phase Implementation Documents for the Duval County Shore Protection Project, Duval County, Florida

1. References:

a. Memorandum, CESAJ-EN-Q, 28 March 2016, subject: Approval of Review Plan for Preconstruction, Engineering and Design Phase Implementation Documents for Shore Protection for Duval County, Florida (Encl).

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

2. The enclosed subject Review Plan (RP) submitted by the Jacksonville District via reference 1.a has been reviewed by this office. Some minor edits to the RP were coordinated with Ms. Autumn Ziegler of your organization. The enclosed RP, with the coordinated edits incorporated, is hereby approved in accordance with reference 1.b above.

3. We concur with the conclusion in the Review Plan and the District Chief of Engineering that a Type II Independent External Peer Review (IEPR) is not required on this beach renourishment effort. The primary basis for our concurrence is that the failure or lose of the features associated with this beach renourishment project 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 Mr. James Truelove, CESAD-RBT, 404-562-5121.

Encl

C. DAVID TURNER
Brigadier General, USA
Commanding

CF:
CESAJ-EN /Ms. Laureen A. Borochaner
CESAJ-EN /Mr. William K. Wigner
CESAJ-EN-Q /Ms. Autumn N. Ziegler

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
701 San Marco Blvd.
JACKSONVILLE, FLORIDA 32207

REPLY TO
ATTENTION OF

CESAJ-EN-Q

28 March 2016

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

SUBJECT: Approval of Review Plan for Preconstruction, Engineering and Design Phase Implementation Documents for Shore Protection Project for Duval County, Florida

1. References.

a. EC 1165-2-214, Civil Works Review, 15 Dec 12

b. Flood Control Act of 1965, Public Law 89-298, 27 Oct 65 (Project Authorization)

2. I hereby request approval of the enclosed Review Plan and concurrence with the conclusion that a 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. Documents to be reviewed include plans, specifications, and design documentation. 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:

Laureen Borochaner

Encl

LAUREEN A. BOROCHANER, P.E.
Chief, Engineering Division

PROJECT REVIEW PLAN

For

Preconstruction, Engineering and Design Phase Implementation Documents

For

Shore Protection Project
Duval County, Florida
Beach Renourishment 2016

Duval County, Florida

Project P2 Number: 113170

Jacksonville District

March 2016

US Army Corps of Engineers ®

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.

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1. PURPOSE AND REQUIREMENTS

a. Purpose

This Review Plan defines the scope and level of review activities for the Duval County, Florida, Shore Protection Project, Beach Renourishment 2016. 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 Pre-Construction, Engineering and Design (PED) phase. The implementation documents to be reviewed are Plans and Specifications (P&S) and a Design Documentation Report (DDR). Upon approval, this Review Plan will be included into the Project Management Plan (PMP) for this project as an appendix to the Quality Management Plan (QMP).

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). SAJ EN QMS 02611, "SAJ Quality Control of In-House Products: Civil Works PED", 21 November 2011

(6). SAJ EN QMS 08550, "BCOES Reviews", 21 September 2011

(7). Enterprise Standard (ES) 08025, "Government Construction Quality Assurance Plan and Project/Contract Supplements"

(8). Enterprise Standard (ES) 08026, "Three Phase Quality Control System"

(9). Project Management Plan, Shore Protection Project for Duval County, Florida, P2 Number 113170

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 five levels of review: District Quality Control (DQC), Agency Technical Review (ATR), and an Independent External Peer Review (IEPR), Policy and Legal Review, and a Biddability, Constructability, Operability, Environmental, and Sustainability (BCOES) Review.

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 are documented in Attachment A. Significant changes to the Review Plan (such as changes to the scope and/or level of review) will 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

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

2. PROJECT INFORMATION

a. Project Background

The limits of the Duval County Shore Protection Project extend from the St. Johns River south jetty southward to the Duval/St. Johns county line. See Figure 1 for project map. The Project authorization requires the construction and maintenance of a design cross-section section in order to prevent damages due to storm-induced erosion along the project length. The design cross-section consists of a 60-foot wide berm at elevation +11.0 feet Mean Low Water (MLW), with front slopes of 1V:20H from elevation +11.0 to +5.2 feet, then 1V:30H from mean high water to MLW, and then 1V:45H from MLW to existing bottom. The construction template includes additional fill material for advanced maintenance as described below.

The project extends between the St. Johns River south jetty and the south county line, extending along the shorelines of (from north to south): Mayport Naval Air Station (NAS), Hanna Park, Atlantic Beach, Neptune Beach, and Jacksonville Beach. FDEP monuments extend along the entire length of Duval County except for Mayport NAS, which is an active military base. This 1-mile +/- reach has typically been excluded from most monitoring surveys since it is rarely renourished under the authority of the Federal SPP project. When it is surveyed, Corps/Navy monuments are normally used. The rest of the project is surveyed using FDEP monuments. R-31 is at the north end of Hanna Park, and R-80 is at the south County line. R-1 through R-30 are on the north side of the St. Johns River along the shorelines of Wards Bank, Little Talbot Island, and Big Talbot Island. These areas are not part of the Federal SPP project.

Generally, the northern mile of the project (Mayport Naval Station) is used as a disposal area for beach-quality sediment dredged from the St. Johns River entrance channel during maintenance of the Federal navigation channel and is rarely renourished under the authority of the Federal SPP project. Hanna Park lies directly south of Mayport NAS. In recent years, Hanna Park has declined fill placement based on the presence of clay deposits and miscellaneous debris in the fill dredged from the river bottom. Due to the use of Mayport NAS as a disposal area and due to the wide and stable nature of this northern section of the project, the area between R-31 and R-45 rarely needs renourishment under the SPP authority. SPP beach renourishment projects are generally located between R-45 and R-80.

Figure 1: Project Map

Sand fencing and dune vegetation were added to the project during the 1991 renourishment to control losses due to windblown sand. Previously, large volumes of fine-grained sand were blown into upland area, covering oceanfront yards, pool decks, roads, etc. No artificial dune was constructed, and the dune system which currently exists has accreted naturally with the exception of a small-scale FEMA-constructed dune repair project following Hurricane Floyd.

b. Project Authorization

The project was authorized in 1965 by Public Law 89-298. The authorized project provided for a protective and recreational beach with a level 60 feet wide berm at 11 feet above mean low water along 53,000 feet of shore between the St. Johns River and the Duval - St. Johns County line. Periodic nourishment was authorized for the first 10 years of project life.

The 1992 Section 934 Reevaluation supplement modified the authorized project. The authorized project provided a 60-foot protective berm width with a berm elevation of +11.0 feet above MLW. The recommendation for extension of Federal participation was made subject to restoration of a beach berm width of 75 feet with the berm elevation of +11.0 feet above mean low water. It was estimated that 748,000 cubic yards of future periodic nourishment will be required every four years to maintain the beach throughout the project life. The actual quantities of future nourishment would be based on the results of project performance monitoring. The original authorizing document also estimated slopes of 1V:20H from the top of the berm to mean high water, the 1V:30H to mean low water, and 1V:45H out to closure. The slope of the beach would not be obtained by grading, but would be allowed to adjust as natural forces dictate. The construction slopes are estimated at 1V to 20H, and the construction berm widths determined during development of plans and specifications for the each renourishment.

c. Current Project Description

This project will renourish eroded shoreline in Duval County between Florida Department of Environmental Protection (FDEP) Range Monuments R-45 in the north to R-80 in the south, terminating at the border between Duval County and St. Johns County. The fill template is located within the municipalities of Atlantic Beach, Neptune Beach, and Jacksonville Beach. The project beach has a maximum berm elevation of +8.2 feet NAVD88 and a minimum berm elevation no less than +7.2 feet NAVD88 with a foreshore slope of 1V:20H to tie into existing grade. The width of the restored beach is 145 feet measured perpendicular to the Construction Base Line (CBL). The sand for the project will be sourced from a new offshore borrow area that has not previously been used.

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 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. Civil Works Cost Engineering Mandatory Center of Expertise Certification

The cost related documents associated with the P&S and DDR and the associated contract do not require external peer review or certification by the Cost Engineering Mandatory Center of Expertise (MCX).

3. DISTRICT QUALITY CONTROL

District Quality Control and Quality Assurance activities for DDRs and P&S are stipulated in ER 1110-1-12, Engineering & Design Quality Management and SAJ EN 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. SAJ EN QMS 02611 defines DQC as the sum of two reviews, Discipline Quality Control Review (DQCR) and Product Quality Control

Review (PQCR). Product Quality Control Review Certification is the DQC Certification and will precede ATR.

4. AGENCY TECHNICAL REVIEW

a. Risk Informed Decision on Appropriate Level of Review

PED phase implementation documents are being prepared, and an ATR of the P&S and DDR documents is 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 outside the South Atlantic Division. The required disciplines and experience are described below.

ATR comments will be documented in the DrChecks^{sm} model review documentation database. DrChecks^{sm} is a module in the ProjNet^{sm} suite of tools developed and operated at ERDC-CERL (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 1165-2-214, and the DrChecks^{sm} 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.

ATR Team Leader. The ATR Team Leader should be a registered professional engineer and have 7 or more years of experience with beach nourishment projects. The ATR Team Leader can also serve as one of the review disciplines.

Civil/Coastal Engineering. The team member should be a registered professional engineer and have 7 or more years of experience with beach nourishment projects and/or civil/site work. Related project construction experience is desired.

Construction Management. The team member should have 5 or more years of experience construction management experience with beach nourishment.

Coastal Geology. The team member shall be a registered professional and have 7 or more years of experience in coastal geology. Experience shall include geotechnical evaluation of beach quality material for beach nourishment projects.

5. BIDDABILITY, CONSTRUCTABILITY, OPERABILITY, ENVIRONMENTAL, AND SUSTAINABILITY 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 SAJ EN QMS 08550.

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 and Construction 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 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 Determination.

This 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 Plan's applicability statements follow.

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

This project will renourish portions of Atlantic Beach, Neptune Beach, and Jacksonville, Beach. Failure of the project will not pose a 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 project features are not complex in nature and do not employee the concept of redundancy.

(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 construction sequence and schedule has been used successfully by the Corps of Engineers on other similar works.

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 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

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

9. PROJECT DELIVERY TEAM DISCIPLINES

PDT Disciplines
Civil/Coastal Engineering
Construction Management
Coastal Geology

10. BUDGET AND SCHEDULE

a. Project Schedule.

Milestone	Task	Start Date	End Date
CW310	Draft P&S complete	24-SEP-2015	12-JAN-2016
	DQCR	13-JAN-2016	19-JAN-2016
	PQCR/DQC*	20-JAN-2016	12-FEB-2016
	ATR Review	17-FEB-2016	1-MAR-2016
	ATR Certification	7-APR-2016	7-APR-2016
	BCOES	17-FEB-2016	7-MAR-2016
CW320	BCOES Certification	8-APR-2016	8-APR-2016
CW400	Advertisement	12-APR-2016	11-MAY-2016

* SAJ EN QMS 02611 defines DQC as the sum of DQCR and PQCR.

b. ATR Cost.

Funds will be budgeted for the ATR as outlined in the schedule above. It is envisioned that each reviewer will be afforded 28 hours for the review plus 12 hours for coordination. The estimated cost range is $20,000 - $25,000.

ATTACHMENT A: APPROVED REVIEW PLAN REVISIONS

Revision Date	Description of Change	Page / Paragraph Number

ATTACHMENT B: PARTIAL LIST OF ACRONYMS AND ABBREVIATIONS

Acronyms	Defined
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
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
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

Acronyms	Defined
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

ATTACHMENT C

ATR Report Outline and COMPLETION OF AGENCY TECHNICAL REVIEW

Shore Protection Project
Duval County, Florida
Beach Renourishment 2016

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. **Project Description:**
3. **ATR Team Members:**

   ATR Team Leader.

   Civil/Coastal Engineering.

   Construction Management.

   Coastal Geology.
4. **ATR Objective:**
5. **Documents Reviewed:**
6. **Findings and Conclusions:**
7. **Unresolved Issues:**

Enclosures:

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

COMPLETION OF AGENCY TECHNICAL REVIEW

The Agency Technical Review (ATR) has been completed for the Duval County, Florida, Shore Protection Project, Beach Renourishment 2016, 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 Date
ATR Team Leader

_____ _____
NAME Date
Project Manager

_____ _____
NAME Date
Review Management Office Representative

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 Date
Chief, Engineering Division
SAJ-EN