



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

CESAD-RBT

21 June 2019

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

SUBJECT: Approval of the Review Plan for Engineering Documentation Reports for Dune Resilience, Nassau, Duval, St. Johns, Brevard, Dade, Lee, Palm Beach, Sarasota, and Manatee Counties, Florida

1. References:

a. Memorandum, CESAJ-EN-Q, 22 May 2019, subject as above.

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

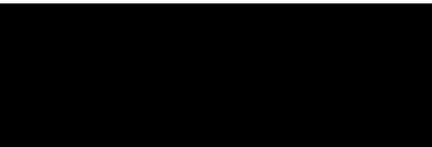
2. The Review Plan (RP) for the Engineering Documentation Reports (EDRs) for the multiple projects referenced above and reference 1.a have been reviewed by South Atlantic Division (SAD). The RP is hereby approved in accordance with reference 1.b.

3. SAD concurs with the District's RP recommendation that outlines the requirements for District Quality Control (DQC) and that a Safety Assurance Review/Type II Independent External Peer Review is not required. SAD will conduct a quality assurance review of the EDR documents prior to approval by SAJ.

4. SAD shall be the Review Management Organization for this work product.

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].



Brigadier General, USA
Commanding



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, JACKSONVILLE DISTRICT
701 SAN MARCO BOULEVARD
JACKSONVILLE, FLORIDA 32207-8915

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 Engineering Documentation Reports for Dune Resilience, Nassau, Duval, St. Johns, Brevard, Dade, Lee, Palm Beach, Sarasota, and Manatee Counties, Florida

1. References.

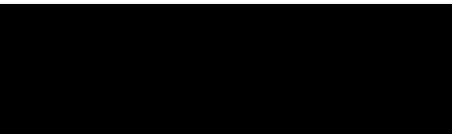
- a. Engineering Circular (EC) 1165-2-217, Review Policy for Civil Works, 20 Feb 18.

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 1165-2-217 Risk Informed Decision Process as presented in the Review Plan. The Review Plan defines the scope and level of review activities for the Engineering Documentation Reports for Dune Resilience for Nassau, Duval, St. Johns, Brevard, Dade, Lee, Palm Beach, Sarasota, and Manatee Counties, Florida. The Review Plan provides for quality control and quality assurance reviews, complies with applicable policy, 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. If you have any questions regarding the information in this memo, please feel free to contact me or contact [REDACTED].

Encl



COL, EN
Commanding

PROJECT REVIEW PLAN

For

Engineering Documentation Reports for Dune Resilience

**Nassau, Duval, St. Johns, Brevard, Dade, Lee,
Palm Beach, Sarasota, and Manatee Counties,
Florida**

Jacksonville District

May 2019



**US Army Corps
of Engineers**®

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TABLE OF CONTENTS

1. PURPOSE AND REQUIREMENTS	2
a. Purpose	2
b. References	2
c. Requirements	2
d. Review Plan Approval and Updates	2
e. Review Management Organization.....	2
2. PROJECT INFORMATION	3
a. Project Location	3
b. Background.....	4
c. Public Participation	4
3. DISTRICT QUALITY CONTROL	5
a. General	5
b. Documentation of DQC.....	5
4. POLICY AND LEGAL REVIEW	5
5. QUALITY ASSURANCE BY SAD	5
6. AGENCY TECHNICAL REVIEW	6
7. INDEPENDENT EXTERNAL PEER REVIEW	6
8. MODEL CERTIFICATION AND APPROVAL	6
9. PROJECT DELIVERY TEAM DISCIPLINES	6
10. SCHEDULE	6
a. Project Milestones.	6
11. REVIEW PLAN POINTS OF CONTACT.....	7

ATTACHMENT A - Approved Review Plan Revisions

ATTACHMENT B - Partial List of Acronyms and Abbreviations

ATTACHMENT C - Team Rosters

1. PURPOSE AND REQUIREMENTS

a. Purpose

This Review Plan defines the scope of review activities for the Engineering Documentation Reports (EDRs) for Dune Resilience for the sixteen projects listed in Table 1 of this Review Plan. The purpose of the EDRs is to describe the changes from the authorized project, which are anticipated to be minor additions or modifications of existing dunes or other resilience features. As discussed below, the review activities consist of a District Quality Control (DQC) effort and a Quality Assurance (QA) Review by SAD. Also, as discussed below, an Agency Technical Review (ATR) and Independent External Peer Review (IEPR) are not recommended.

b. References

- (1). Engineer Regulation (ER) 1110-1-12, Engineering and Design Quality Management, 31 March 2011
- (2). Engineer Circular (EC) 1165-2-217, Review Policy for Civil Works, 20 February 2018
- (3). 02611-SAJ Quality Control of In-House Products: Civil Works PED, 4 December 2017

c. Requirements

This Review Plan 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 U.S. Army Corps of Engineers (USACE) decision, implementation, and operations and maintenance documents and other work products.

d. Review Plan Approval and Updates

The South Atlantic Division (SAD) Commander or their designee is responsible for approving this Review Plan. The Commander's approval reflects vertical team input as to the appropriate scope and level of review. Like the Project Management Plan (PMP), the Review Plan is a living document and may change as the project progresses. The Jacksonville District (SAJ) is responsible for keeping the Review Plan up-to-date. Minor changes to the Review Plan since the last Major Subordinate Command (MSC) Commander approval will be documented in Attachment A. Significant changes to the Review Plan (such as changes to the scope and/or level of review) should 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 Commander's approval memorandum, will be posted on the SAJ's webpage. The latest Review Plan will be provided to SAD.

e. Review Management Organization

SAD is designated as the Review Management Organization (RMO).

2. PROJECT INFORMATION

a. Project Location

EDRs will be prepared for 16 project segments in 10 counties on the Atlantic coast of Florida as shown in Figure 1 and Table 1.

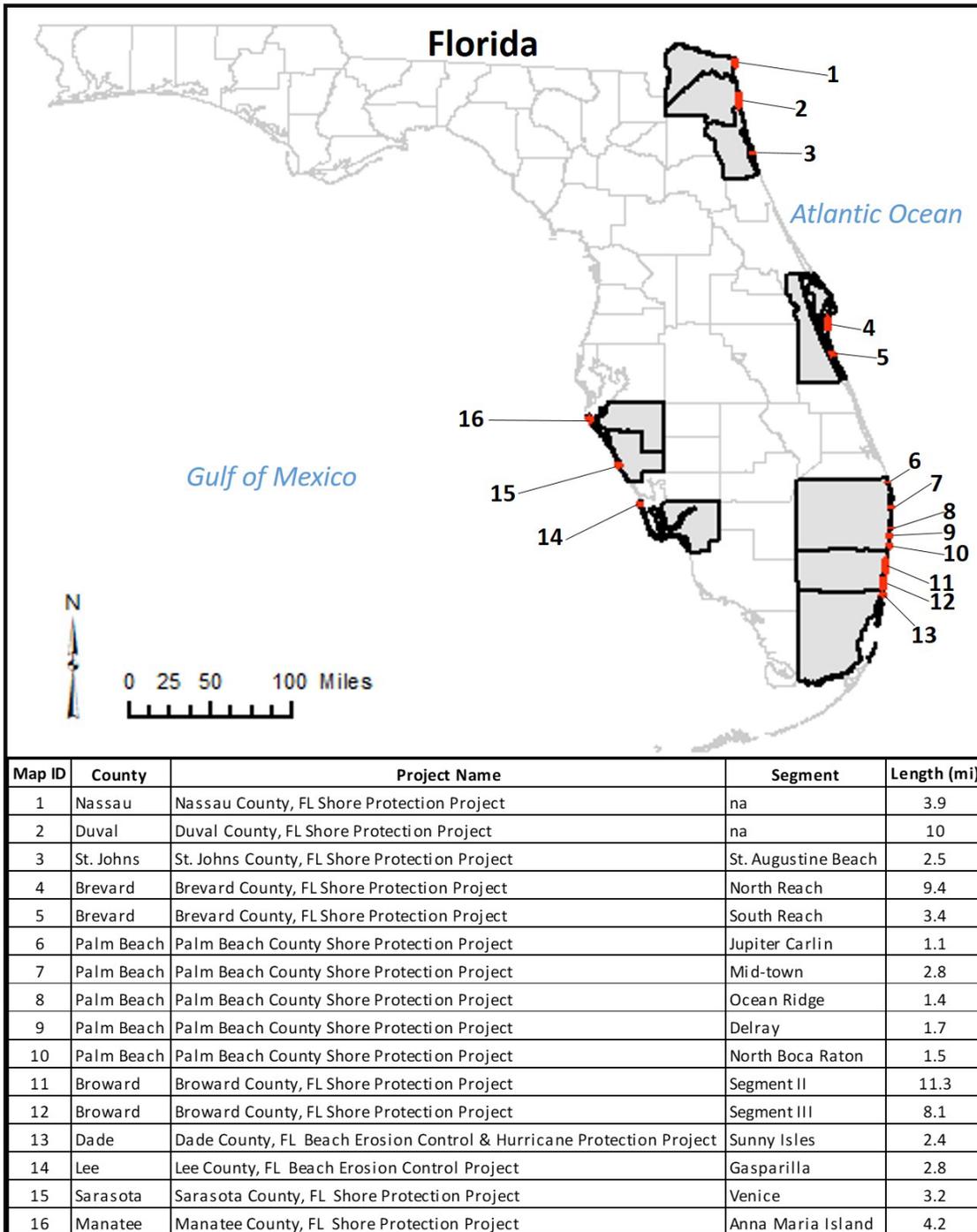


Figure 1: Project Locations

Project	Local Sponsor	P2 Number
Nassau County SPP	City of Fernandina Beach, FL	113154
Duval County SPP	City of Jacksonville, FL	113170
St. Johns County SPP	St. Johns County, FL	113172
Brevard County SPP North Reach	Brevard County, FL	113619
Brevard County SPP South Reach	Brevard County, FL	113619
Broward County SPP Segment II	Broward County, FL	113072
Broward County SPP Segment III	Broward County, FL	113072
Dade County BEC & HPP	Dade County, FL	113082
Palm Beach County SPP, Delray	Palm Beach County, FL	113167
Palm Beach County SPP, North Boca Raton	Palm Beach County, FL	113167
Palm Beach County SPP, Mid-Town	Palm Beach County, FL	475687
Palm Beach County SPP, Ocean Ridge	Palm Beach County, FL	113167
Palm Beach County SPP, Jupiter Carlin	Palm Beach County, FL	113167
Lee County SPP, Gasparilla Island	Lee County, FL	113085
Sarasota County SPP, Venice	City of Venice, FL	113092
Manatee County SPP, Anna Maria Island	Manatee County, FL	125429

Table 1: List of Dune Resilience EDR Projects

b. Background

SAJ has over twenty authorized Coastal Storm Risk Management (CSRМ) projects. The majority of these CSRМ projects include a berm but do not include dunes in their design. On many of these projects, dunes have formed by natural processes and provide significant benefits. However, these dunes cannot be renourished as part of the Federal project when needed because they are not part of the authorized design. This leaves project areas susceptible to damage and fails to capitalize on the cost savings and significant benefits dunes provide.

Many existing CSRМ projects were designed primarily to prevent erosion using tools and techniques that did not accurately assess the integrated nature of dunes. In such cases, erosion damage prevention was mainly accomplished by increasing the horizontal width of beaches. The state of the science of coastal engineering has evolved to recognize that dunes are integral components of a beach system and play a critical role in reducing damages. Dunes are an important resource in limiting beach erosion. When the beach is being actively eroded during storms, sand removed from the dunes is deposited onto the beach, serving as an immediate natural sand source. Dunes also serve as the ultimate line of defense against storm surge inundation by serving as a natural buffer to protect inland infrastructure. In addition to being integral to a beach’s storm damage reduction function, dunes provide important habitat for many plants and animals.

c. Public Participation

The SAJ’s Corporate Communications Office continually keeps the public informed on SAJ projects and activities. The project Review Plan will be posted on the SAJ’s webpage. Any comments or questions regarding the Review Plan will be addressed by SAJ.

3. DISTRICT QUALITY CONTROL

a. General

Per EC 1165-2-217 and ER 1110-1-12, all reports, evaluations, and assessments shall undergo the necessary and appropriate level of DQC. SAJ shall manage the DQC process for the EDRs. Table 2 identifies the required expertise for the DQC team.

DQC Team Disciplines	Expertise Required
DQC Lead	A senior professional with extensive experience preparing Civil Works implementation documents and conducting DQC. The lead may serve as a reviewer for a specific discipline (such as planning, economics, environmental resources, etc).
Planning	A senior coastal engineering planner with experience in beach project planning.
Economics	A senior economist experience evaluating beach project benefits and costs and identifying incidental benefits.
Environmental	A senior biologist/ecologist/environmental engineer, with experience in beach ecosystems and coastal systems.
Engineering Design	Experience in engineering/construction management for beach and dune design.
Cost Engineering	Experience in performing cost engineering/construction management for all phases of the project, including safety assurance. Familiar with the construction industry and practices used in Florida and/or the southeastern United States.
Construction/Operations	Familiar with the operations of the beach and coastal systems, specifically in Florida.

Table 2: Required DQC Expertise

b. Documentation of DQC

DQC will be performed and documented for EDRs in accordance with SAJ's Engineering Division Quality Management System (EN QMS). All DQC comments will be formally answered in a normal comment/response format and compiled for documentation in the project record.

4. POLICY AND LEGAL REVIEW

The EDRs and supporting environmental documents will be reviewed for policy and legal sufficiency by the SAJ Office of Counsel prior to approval of the EDRs by the SAJ Commander. This review will be conducted concurrently with the DQC of the EDRs.

5. QUALITY ASSURANCE BY SAD

After the DQC and Policy and Legal Reviews are complete for the EDRs, a QA Review will be conducted by SAD. Once the QA review is complete and SAD has endorsed the EDRs, the EDRs will be sent to the SAJ Commander for review and approval.

6. AGENCY TECHNICAL REVIEW

The modifications investigated and proposed within the EDRs will be focused on measures that would increase the resiliency, robustness, and reliability of the current federal projects. The EDRs focus on measures that could be implemented within the existing footprint of each of the authorized projects. No efforts were made to reformulate or redesign the authorized projects. Each of the authorized projects was originally formulated to prevent shoreline erosion but did not assess the integrated nature of dunes and berms. As such, the EDRs cover minor modifications that would add to the resilient performance of each project. Therefore, ATR is not recommended.

7. INDEPENDENT EXTERNAL PEER REVIEW

The EDRs covered by this Review Plan do not trigger Water Resources Development Act (WRDA) of 2007 Section 2035 factors for Safety Assurance Review (termed Type II IEPR in EC 1165-2-217). There are no life safety concerns associated with the resilience features investigated and proposed within the EDRs. Therefore, a review under Section 2035 is not required.

8. MODEL CERTIFICATION AND APPROVAL

No models are being used to prepare the documents covered by this review plan.

9. PROJECT DELIVERY TEAM DISCIPLINES

Organization
Project Management
Civil Site Design
Cost Engineering
Coastal Engineering
Planning Environmental
Office of Counsel

Table 3: PDT Disciplines

10. SCHEDULE

a. Project Milestones.

Project Name	Segment	Draft EDR Complete	DQC Including Legal of EDR Complete	MSC QA Review Complete	EDR Approved by District Commander
North East Florida Resiliency					
Nassau County, FL SPP	N/A	25-Apr-19	16-May-19	18-Jun-19	12-Aug-19
Duval County, FL SPP	N/A	24-Apr-19	15-May-19	17-Jun-19	12-Aug-19
St. Johns County, FL SPP	St. Augustine Beach	26-Apr-19	17-May-19	19-Jun-19	12-Aug-19
Brevard County, FL SPP	North Reach	29-Apr-19	20-May-19	20-Jun-19	12-Aug-19
Brevard County, FL SPP	South Reach	29-Apr-19	20-May-19	20-Jun-19	12-Aug-19

Southeast Florida Resiliency					
Palm Beach County SPP	Jupiter Carlin	11-Jun-19	21-Jun-19	21-Jul-19	4-Sep-19
Palm Beach County SPP	Mid-town	11-Jun-19	21-Jun-19	21-Jul-19	4-Sep-19
Palm Beach County SPP	Ocean Ridge	11-Jun-19	21-Jun-19	21-Jul-19	4-Sep-19
Palm Beach County SPP	Delray	11-Jun-19	21-Jun-19	21-Jul-19	4-Sep-19
Palm Beach County SPP	North Boca Raton	11-Jun-19	21-Jun-19	21-Jul-19	4-Sep-19
Broward County, FL SPP	Segment II	11-Jun-19	21-Jun-19	21-Jul-19	4-Sep-19
Broward County, FL SPP	Segment III	11-Jun-19	21-Jun-19	21-Jul-19	4-Sep-19
Dade County, FL BEC&HPP	Sunny Isles	11-Jun-19	21-Jun-19	22-Jul-19	4-Sep-19
Gulf Coast Resiliency					
Lee County, FL BECP	Gasparilla	5-Jul-19	17-Jul-19	16-Aug-19	18-Sep-19
Sarasota County, FL SPP	Venice	5-Jul-19	17-Jul-19	16-Aug-19	18-Sep-19
Manatee County, FL SPP	Anna Maria Island	5-Jul-19	17-Jul-19	16-Aug-19	18-Sep-19

Table 4: Schedule Milestones

11. REVIEW PLAN POINTS OF CONTACT

Title	Organization	Phone
Review Manager	CESAJ-EN-Q	██████████
Quality Manager	CESAD-RBT	██████████

Table 5: Review Plan Milestones

ATTACHMENT A: APPROVED REVIEW PLAN REVISIONS

Revision Date	Description of Change	Page / Paragraph Number

Table 6: 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
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

<u>Acronyms</u>	<u>Defined</u>
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 7: Abbreviations

ATTACHMENT C: TEAM ROSTERS

