



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

13 May 2019

MEMORANDUM FOR COMMANDER, JACKSONVILLE DISTRICT

SUBJECT: Approval of the Review Plan for Southwestern Protection Feature of the Picayune Strand Restoration Project, Collier County, Florida

1. References:

a. Memorandum, CESAJ-EN-Q, signed 24 April 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 Southwestern Protection Feature of the Picayune Strand Restoration Project and reference 1.a noted above have been reviewed by South Atlantic Division (SAD). SAD concurs with the conclusion that a Type II Independent External Peer Review (IEPR) of the subject project is not required. 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), Agency Technical Review (ATR), and Biddability, Constructability, Operability, Environmental and Sustainability (BCOES) Review. The Safety Assurance Review/Type II Independent External Peer Review is not required. Documents to be reviewed include the Intermediate and the Pre-Final Plans and Specifications and the Design Documentation Report (DDR).

4. The South Atlantic Division Office shall be the Review Management Organization for this project.

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].

[REDACTED]
Director of Programs



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 Southwestern Protection Feature of the Picayune Strand Restoration Project, Collier County, Florida

1. References.

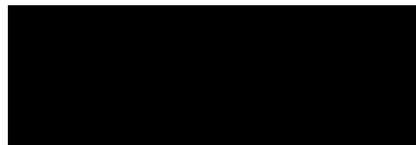
- a. Engineering Circular (EC) 1165-2-217, Review Policy for Civil Works, 20 Feb 18.
- b. Water Resources Development Act of 2007, Public Law 110-114, 8 Nov 07.

2. I hereby request approval of the enclosed Review Plan for the Southwestern Protection Feature of the Picayune Strand Restoration Project, Collier 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 webpage 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

Preconstruction, Engineering and Design Phase Implementation Documents

For

Picayune Strand Restoration Project Southwestern Protection Feature Collier County, Florida

Project P2 Number: 112375

Jacksonville District

March 2019



**US Army Corps
of Engineers®**

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ATTACHMENT C – 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 Southwestern Protection Feature (SWPF) of the Picayune Strand Restoration Project (PSRP), Collier 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 PSRP Southwest Protection Feature Project is currently 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 1165-2-217, 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). SAJ EN QMS 02611, SAJ Quality Control of In-House Products: Civil Works PED, 4 December 2017
- (6). Project Management Plan, Picayune Strand Restoration Project, P2 Number 112375
- (7). Master Agreement between the Department of the Army and South Florida Water Management District for cooperation in constructing, operating, maintaining, repairing, replacing, and rehabilitating projects authorized to be undertaken pursuant to the Comprehensive Everglades Restoration Plan
- (8). Project Partnership Agreement between the Department of the Army and South Florida Water Management District for constructing, operating, maintaining, repairing, replacing and rehabilitating the Picayune Strand Restoration Project
- (9). Comprehensive Everglades Restoration Plan Pre-Partnership Credit Agreement between the Department of the Army and the South Florida Water Management District for work carried out for Picayune Strand Restoration Project
- (10). Comprehensive Everglades Restoration Plan Pre-Partnership Credit Agreement No. 2 between the Department of the Army and the South Florida Water Management District for work carried out for Picayune Strand Restoration Project
- (11). Picayune Strand Restoration Project Limited Reevaluation Report and Environmental Assessment, April 2015
- (12). Integral Determination Report proposed in-kind contributions for the additional features of Picayune Strand Restoration Project in-kind contribution Provisions of Section 601(e)(5)(B) of the Water Resources Development Act (WRDA) 200, as amended by Section 6004 of WRDA 2007, August 2015

- (13). Comprehensive Everglades Restoration Plan (CERP) Picayune Strand Restoration Project Integral Determination Report No. 2 Credit for In-Kind Work for Construction performed by the South Florida Water Management District under the authority of In-Kind Work Provisions of Section 601(e)(5)(B) of the Water Resources Development Act (WRDA) 2000, as amended by Section 6004 of WRDA 2007, revised May 2016

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. The EC outlines five levels of review: DQC, ATR, IEPR, BCOES, and a Policy and Legal Review.

d. Review Plan Approval and Updates

The South Atlantic Division (SAD) Commander 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 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 SAD 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 SAJ's Review Plan public webpage. The latest Review Plan will be provided to SAD.

e. Review Management Organization

SAD is designated as the Review Management Organization (RMO). The RMO, in cooperation of 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 Location

The Picayune Strand Restoration Project (PSRP) is located in southern Collier County, Florida. The PSRP is a joint effort between USACE and the local sponsor, the South Florida Water Management District (SFWMD). The Southwestern Protection Feature(SWPF) is located on the southwest corner of the PSRP. See Figure 1 for the regional project map and Figure 2 for the detailed project map.

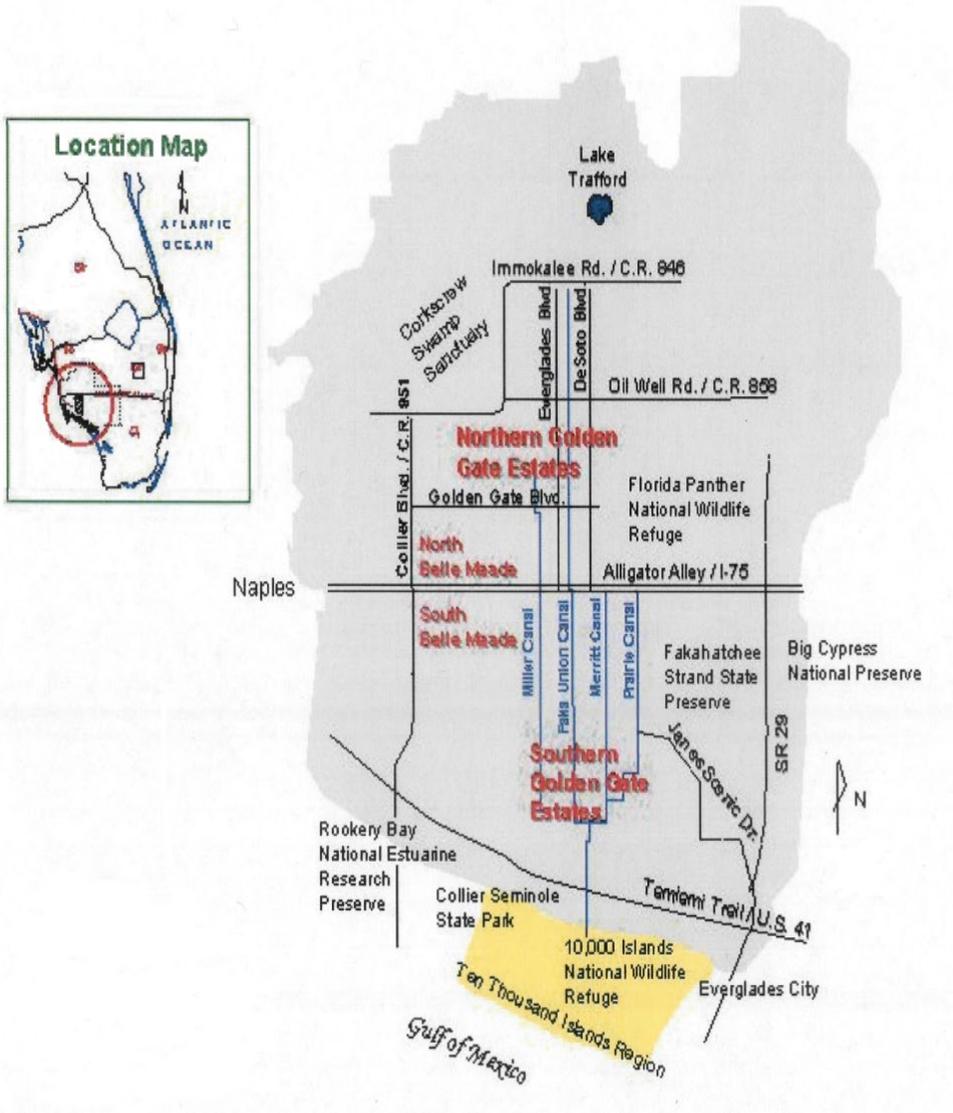


Figure 1: Regional Project Map



Figure 2: Picayune Strand Restoration Project Map

b. Project Background

The goal of the PSRP is to restore Southern Golden Gate Estates (SGGE), a large development located east of Naples in southern Collier County, to its pre-development condition. SGGE was part of a larger development, Golden Gate Estates, the northern portion of which is a rapidly developing residential community. The area has undergone extensive hydrologic and environmental alteration due to construction of a network of canals, levees, and roads built in the 1960s.

Prior to development, the SGGE was characterized by seasonal flooding and slow-moving overland sheet flow that supported a variety of plant and animal communities in uplands and freshwater wetlands and in its downstream brackish wetlands and estuaries. Channelization of water flows has resulted in elimination of sheet-flow across SGGE and into the estuaries, severely lowered water tables within SGGE, and creation of an erratically fluctuating freshwater point discharge to the estuarine ecosystem. Upland, wetland, and estuarine plant communities have also been severely degraded. In addition, the abundance of native fish, wildlife, and estuarine shellfish populations has declined, the recharge of the surficial aquifer has been reduced, and non-native species have greatly increased in abundance. The severely drained conditions have resulted in widespread and much more intense wildfires than occurred under pre-drainage conditions. These fires have accelerated a change in vegetation from wetlands to upland communities dominated by fire tolerant species such as cabbage palm (*Sabal palmetto*) and exotics such as Brazilian pepper (*Schinus terebinthifolius*). In addition, similar impacts are occurring over distances of a mile or more from the canals into adjacent public lands.

The SGGE has a network of east-west roads every quarter mile that are connected by north-south roads approximately every mile. The most significant environmental impact of the road network is that it impedes natural sheet-flow. However, it also provides colonization sites for exotic and nuisance vegetation, easy access to all parts of the project area where there are widespread impacts from off-road vehicles, poaching of animals and plants, vandalism, and the illegal dumping of trash. The roads and canals have resulted in the fragmentation of an extensive block of contiguous natural lands that severely compromises the value of the whole area for a variety of wide-ranging wildlife such as the Florida panther, as well as other threatened and endangered species.

The specific objectives of the PSRP include the reestablishment of historic flow-ways, overland sheet-flow, wetland hydro-periods, and wet and dry season water levels within SGGE. This would also result in a more natural fire regime in the SGGE and its adjacent natural areas, as well as more natural seasonal salinity patterns in its downstream coastal marshes and estuaries. Biological restoration targets are the freshwater and estuarine fauna, and the long-term reestablishment of the pre-development plant and animal communities in those portions of SGGE that are downstream of the project's pumps and spreader canals.

USACE and SFWMD are currently constructing the PSRP. Major aspects of the PSRP involve the construction of three pump stations designed to maintain existing flood protection of upstream private lands, the leveling of over 200 miles of roads and over 50 miles of logging trams, and the plugging of over 40 miles of major canals to restore the natural hydrologic regime in the 55,000 acre SGGE. These activities will also provide similar benefits on over 100,000 acres of public lands in Fakahatchee Strand Preserve State Park to the east, Picayune Strand State Forest lands to the west, and Collier Seminole State Park and Ten Thousand Islands National Wildlife Refuge to the south.

c. Project Description

The PSRP contract covered by this Review Plan includes the construction of the SWPF. The SWPF is an approximately nine-mile-long levee along the southwestern edge of the PSRP area. The final levee design configuration will be dependent on the hydrology and hydraulics study, which is currently ongoing with USACE as the lead agency. The purpose of the modeling effort is to refine the hydraulic design criteria for the protection feature. The 2004 PIR recognized that protective features in the plan were conceptual in nature due to feasibility-level

engineering and design. In 2013, a more detailed hydrology and hydraulics analysis using updated LiDAR topo data was completed to verify land acquisition and protection features prescribed to mitigate a reduction in the level of service for flood protection as in WRDA 2000. Results of the analysis determined that the levee would be reduced to only 8.75 miles in longitudinal extent relative to the length in the 2004 PIR (17.25 miles). The modeling effort will refine the hydraulic design (i.e. extension of levees, crest elevation) to be implemented in the P&S and DDR.

d. Public Participation

SAJ's Corporate Communications Office continually keeps the effected public informed on SAJ projects and activities. Monthly Project Delivery Team meetings are held via conference call. The public is encouraged to participate. The approved Review Plan will be posted on SAJ's Review Plan public webpage. Any comments or questions regarding the Review Plan will be addressed by SAJ.

e. Civil Works Cost Engineering Mandatory Center of Expertise Certification

The cost related documents associated with this contract do not require external peer review or certification. Therefore, no additional review requirements will be executed by the Cost Engineering Mandatory Center of Expertise (MCX) for the implementation documents addressed by this Review Plan.

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 P&S and DDR in accordance with SAJ's Engineering Division Quality Management System (EN QMS). The EN QMS 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 DrCheckssm. The PQCR shall be QC 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

PED phase implementation documents are currently being prepared. An ATR will be undertaken of the intermediate and pre-final P&S and DDR documents, including the Hydrologic and Hydraulic (H&H) analysis and any other supporting analysis and documentation.

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 Jacksonville District. The ATR Team Leader will be a USACE employee outside the SAD. The required disciplines and experience are described below.

ATR comments are documented in the DrCheckssm review documentation database. DrCheckssm is a module in the ProjNetsm 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 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 DrCheckssm printout of the comments.

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 comprise the following disciplines; knowledge, skills and abilities; and experience levels.

ATR Team Leader. The Team Leader will be from outside SAD and shall have 7 or more years of experience with Civil Works Projects. The ATR Team Leader can also serve as one of the review disciplines.

Civil Engineering. The team member shall be a registered professional engineer and have 7 or more years of experience with civil/site work projects that included grading channels and ecosystem restoration features. Related project construction experience is desired.

Geotechnical Engineering. The team member shall be a registered professional engineer and have 10 or more years of experience in geotechnical engineering. Experience shall include geotechnical evaluation of flood risk management structures. Experience shall encompass static and dynamic slope stability evaluation, riprap design, and Turf Reinforcement Mat (TRM) design.

Hydrologic and Hydraulic Engineering. The team member shall be a registered professional engineer and have 7 or more years of experience in hydrologic and hydraulic engineering, including experience with flood risk management 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 02611.

6. INDEPENDENT EXTERNAL PEER REVIEW

a. General.

EC 1165-2-217 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 conducted outside USACE.

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 1165-2-217). 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 this Review Plan's applicability statements, are as follows:

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

This project is only intended to protect the agricultural farms that are located on the western edge of the PSRP. Failure of this feature 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 USACE on other similar works.

(3) The project design lacks redundancy.

The project features are not complex in nature and do not employ 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 installation sequence and schedule has been used successfully by USACE 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 SAJ 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 ecosystem restoration project will not use any engineering models that have not been approved for use by USACE. The two USACE approved models that will be used in this project for the hydrologic and hydraulic analyses are GSSHA (Gridded Surface Subsurface Hydrologic Analysis) and HEC-RAS (Hydraulic Engineering Center River Analysis System).

9. PROJECT DELIVERY TEAM DISCIPLINES

Discipline/Expertise
Geotechnical Engineering
Hydraulic Engineering
Civil Engineering
Cost Engineering

10. BUDGET AND SCHEDULE

a. Project Milestones

Task	Date
Intermediate P&S Complete	August 2021
Intermediate DQCR	August 2021
Intermediate PQCR/DQC *	September 2021
Intermediate ATR **	October 2021
Intermediate ATR Certification	December 2021
Initial BCOES	October 2021
Pre-Final P&S Complete	March 2022
Pre-Final DQCR	March 2022
Pre-Final PQCR/DQC *	April 2022
Pre-Final ATR **	May 2022
Pre-Final ATR Certification	June 2022
Pre-Final BCOES	August 2022
BCOES Certification	September 2022
Contract Award	December 2022

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

** ATR will be performed on the P&S and DDR, including the H&H analysis and other supporting calculations and documentation.

b. ATR Cost

Funds will be budgeted to execute the reviews in the schedule outlined above. For each of the ATRs, it is envisioned that each reviewer will be afforded 32 hours for review plus 8 hours for coordination. The estimated cost for each ATR is between \$35,000 and \$40,000.

11. REVIEW PLAN POINTS OF CONTACT

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

ATTACHMENT A: APPROVED REVIEW PLAN REVISIONS

Revision Date	Description of Change	Page / Paragraph Number

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

ATTACHMENT C:

ATR REPORT OUTLINE AND COMPLETION OF AGENCY TECHNICAL REVIEW

Picayune Strand Restoration Project – Southwest Protection Features Preconstruction, Engineering and Design Phase Implementation Documents Collier County, Florida

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:**
 - ATR Team Leader
 - Civil Engineer
 - Geotechnical Engineer
 - Hydraulic/Hydrologic Engineer
- 3. ATR Objective:**
- 4. Documents Reviewed:**
- 5. Findings and Conclusions:**
- 6. Unresolved Issues:**

COMPLETION OF AGENCY TECHNICAL REVIEW

The Agency Technical Review (ATR) has been completed for the Preconstruction, Engineering and Design Phase Implementation Documents for the PSRP Southwest Protection Features Project, Collier 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 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 DrCheckssm.

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