



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

21 January 2020

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

SUBJECT: Approval of the Review Plan for the Rio Anton Ruiz Restoration Project,
Municipality of Humacao, Puerto Rico

1. References:

a. Memorandum, CESAJ-EN-Q, subject as above, 2019.11.07.

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 Rio Anton Ruiz Restoration Project submitted by the
Jacksonville District via reference 1.a. noted above has been reviewed by South Atlantic
Division (SAD). The RP is hereby approved in accordance with reference 1.b.

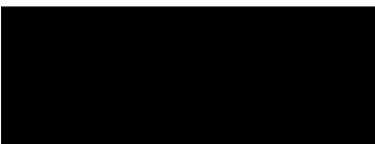
3. The South Atlantic Division Office shall be the Review Management Organization (RMO) for
this project.

4. SAD concurs with the District's RP recommendation that outlines the requirements for
District Quality Control (DQC), Agency Technical Review (ATR), 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, FL 32207-8175

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 Rio Anton Ruiz Restoration Project, Municipality of Humacao, Puerto Rico

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 Rio Anton Ruiz Restoration Project, Municipality of Humacao, Puerto Rico 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] or [REDACTED].

[REDACTED]

COL, EN
Commanding

PROJECT REVIEW PLAN

For

Preconstruction, Engineering and Design Phase Implementation Documents

For

Rio Anton Ruiz Restoration Project Municipality of Humacao, Puerto Rico

Project P2 number: 452782

Jacksonville District

November 2019



**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.

TABLE OF CONTENTS

1. PURPOSE AND REQUIREMENTS	1
a. Purpose	1
b. References	1
c. Requirements	1
d. Review Plan Approval and Updates	1
e. Review Management Organization.....	2
2. PROJECT INFORMATION	3
a. Project Background and Location	3
b. Project Description.....	4
c. Public Participation	4
d. In-Kind-Contributions by Project Sponsor.....	4
e. Civil Works Cost Engineering Mandatory Center of Expertise Review and Certification	4
3. DISTRICT QUALITY CONTROL	5
a. Requirements	5
b. Documentation.....	5
4. AGENCY TECHNICAL REVIEW	6
a. Risk Informed Decision on Appropriate Level of Review	6
b. Agency Technical Review Scope	6
c. ATR Disciplines	6
5. BIDDABILITY, CONSTRUCTABILITY, OPERABILITY, ENVIRONMENTAL, AND SUSTAINABILITY REVIEW	7
6. INDEPENDENT EXTERNAL PEER REVIEW	8
a. General	8
b. Type I Independent External Peer Review Determination.....	8
c. Type II Independent External Peer Review Determination.....	8
7. POLICY AND LEGAL COMPLIANCE	10
8. MODEL CERTIFICATION AND APPROVAL	11
9. PROJECT DELIVERY TEAM DISCIPLINES	12
10. BUDGET AND SCHEDULE	13
a. Project Milestones.	13
b. ATR Cost.	13
11. REVIEW PLAN POINTS OF CONTACT	14

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 Rio Anton Ruiz Restoration Project Puerto Rico 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). 02611-SAJ Quality Control of In-House Products: Civil Works PED, 4 December 2017
- (6). Project Management Plan for the Rio Anton Ruiz Restoration Project

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 Background and Location

Rio Anton Ruiz Restoration Project is a Continuing Authorities Program (CAP) under Section 1135 for Project Modifications. The original Rio Anton Ruiz project was a Section 205 CAP Project for flood control. To provide flood protection to the Punta Santiago, Verde Mar, and Villa Palmira communities, an earthen levee and diversion channel extending from the lagoon system to the mouth of Rio Anton Ruiz was constructed and the project was completed in 2001.

After construction of the flood control project, the lagoon system and environment started showing signs of saltwater intrusion. The area is mainly comprised of protected bloodwood (*Pterocarpus officinalis*) trees that rely on fresh water and are sensitive to saltwater coming into the lagoon. Puerto Rico Department of Natural and Environmental Resources (DNER) and USACE observed and measured changes in the biodiversity of the area and salinity since completion of the project. As a result, USACE and DNER determined that the Rio Anton Ruiz Flood Control project attributed to these changes. In 2007, as part of the 205 project, USACE placed temporary Salt Water Intrusion Measures (SWIMs) in the diversion channel and Rio Anton Ruiz to mitigate the saltwater intrusion.



Figure 1: Locations of Temporary SWIMs

The SWIMs were shown to have the desired effect and reduced the saltwater concentration in the lagoons. However, the SWIMs have deteriorated and have been displaced to a point where the salinity in the lagoons has increased. Due to the success of the temporary measures, a permanent tidal exchange measure was determined to be warranted.

b. Project Description

The Rio Anton Ruiz Restoration Project aims to implement permanent tidal exchange features in the diversion channel and at the mouth of Rio Anton Ruiz. The current selected plan is to install a steel sheet pile wall across the waterways. The sheet pile is designed as a weir to allow the normal flow of the diversion channel and Anton Ruiz. Sheet piles will have rip rap at the bottom of the channels and around the ends to protect from scour.

c. Public Participation

The SAJ's Corporate Communications Office continually keeps the public informed on SAJ projects and activities. There are no controversial concerns, planned activities, public participation meetings, or workshops that could generate issues needing provision to review teams. The project RP will be posted on the SAJ's webpage. Any comments or questions regarding the RP will be addressed by SAJ.

d. In-Kind-Contributions by Project Sponsor

There are no in-kind contributions related to the P&S and DDR that will affect this RP or related reviews.

e. Civil Works Cost Engineering Mandatory Center of Expertise Review and 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 RP.

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 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 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 for the project are being prepared. An ATR will be performed for the pre-final P&S and DDR documents for the design of the tidal exchange measures to be installed along Rio Anton Ruiz and the diversion channel.

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 DrCheckssm model 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 the 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 DrCheckssm 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 should have a minimum of 5 years of experience with flood control and/or environmental projects. The ATR Team Leader may also serve as a co-duty to one of the review disciplines.

Geotechnical Engineering and Engineering Geology. The team member shall be a registered professional and shall have a minimum of 5 years of experience in geotechnical engineering. Experience shall encompass geologic and geotechnical analyses that are used to support the development of P&S for erosion protection projects.

Hydraulic & Hydrologic Engineering/Climate Change Reviewer. The team member shall be a registered professional engineer with a minimum of 5 years of experience in hydraulic modeling and design. Also the team member shall have 5 years of experience in climate compliance activities associated with river ecology projects. Preferably familiar with environmental issues in Puerto Rico (but not mandatory).

Structural Engineering. The team member shall be a registered professional engineer with a minimum of 5 years of experience in structural engineering.

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. 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 implementation guidance for both Sections 2034 and 2035 of the Water Resources Development Act (WRDA) of 2007 (Public Law (P.L.) 110-114). The EC addresses review procedures for both the Planning and the Design and Construction Phases (also referred to in USACE guidance as the Feasibility and the Pre-construction, Engineering and Design Phases, respectively). The EC defines Section 2035 Safety Assurance Review (SAR) as a Type II Independent External Peer Review (IEPR). The EC 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 RP.

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 RP's applicability statements, follow:

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

Failure of the project would not pose a threat to human life. Placement of the tidal exchange system does not change the hydrologic condition of the channel or river. No changes to the Rio Anton Ruiz levee would be required.

- (2) The project involves the use of innovative materials or techniques.

This project will utilize methods and techniques used by the USACE on other similar works. The temporary SWIM sand bags were shown to have been effective so the permanent sheet pile system should have a similar effect.

- (3) The project design lacks redundancy.

There is no need for redundant design features for the sheet pile system since no risks to life safety are involved.

- (4) The project has unique construction sequencing or a reduced or overlapping design construction schedule.

The project does not have or pose unique sequencing or a reduced or overlapping design. The construction methods and procedures have been used successfully by the USACE on other similar works. This project uses the same technique to prevent salt water intrusion as the temporary SWIM sand bags used in the same location as this CAP project.

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. Once approved, SAJ will post the approved RP on the SAJ web site for viewing by the public.

8. MODEL CERTIFICATION AND APPROVAL

The use of certified, validated, or agency approved engineering models is required for all activities to ensure the models are technically and theoretically sound, compliant with USACE policy, computationally accurate, and based on reasonable assumptions. The responsible use of well-known and proven USACE developed and commercial engineering software will continue and the professional practice of documenting the application of the software and modeling results will be followed. The selection and application of the model and the input and output data is still the responsibility of the users and is subject to DQC, ATR, BCOES, and policy and legal review. The following engineering models, software, and tools are anticipated to be used:

Model Name	Version	Validation Date
HEC-RAS	5.0.6	HH&C CoP Approved
HEC-HMS	4.3	HH&C CoP Approved

9. PROJECT DELIVERY TEAM DISCIPLINES

Discipline/Expertise
Geotechnical Engineering and Engineering Geology
Structural Engineering
Hydraulic & Hydrologic Engineering/ Climate Change Reviewer

Table 1: PDT Disciplines

10. BUDGET AND SCHEDULE

a. Project Milestones.

Task	Date
DQCR Complete	February-March 2020
PQCR Complete	March-April 2020
ATR Review	April-June 2020
ATR Certification	June 2020
BCOES Review	June 2020
BCOES Certification	July 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 24 hours review plus 8 hours for coordination. The estimated cost range is \$25,000 - \$30,000.

11. REVIEW PLAN POINTS OF CONTACT

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

Table 3: Review Plan Milestones

ATTACHMENT A: APPROVED REVIEW PLAN REVISIONS

Revision Date	Description of Change	Page / Paragraph Number
3/2/2020	Replaced NEPA reviewer with H&H Engineer/Climate Change reviewer.	Page 7/ Par 4.c

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
BOEM	Bureau of Ocean Energy Management
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
EN QMS	Engineering Division Quality Management System
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
NED	National Economic Development
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

<u>Acronyms</u>	<u>Defined</u>
PDT	Project Delivery Team
PM	Project Manager
PMP	Project Management Plan
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 Development Act

Table 5: Abbreviations

ATTACHMENT C:

ATR REPORT OUTLINE AND COMPLETION OF AGENCY TECHNICAL REVIEW

**Rio Anton Ruiz Restoration Project Implementation Documents
Municipality of Humacao, Puerto Rico**

ATR REPORT OUTLINE

1. Introduction:

2. Project Description:

3. ATR Team Members:

ATR Team Leader.

Geotechnical Engineering and Engineering Geology.

Hydraulic & Hydrologic Engineering/Climate Change Reviewer.

Structural Engineering.

4. ATR Objective:

5. Documents Reviewed:

6. Findings and Conclusions:

7. 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 Rio Anton Ruiz Restoration Project, Puerto Rico, 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

Engineering Technical Lead
CESAJ-EN

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