



REPLY TO  
ATTENTION OF

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

01 APR 2015

CESAD-RBT

MEMORANDUM FOR COMMANDER, JACKSONVILLE DISTRICT

SUBJECT: Approval of the Review Plan for the Brevard County, HSDR, Mid-Reach Segment – Mitigation Feature Contract, Brevard County, Florida

1. References:

a. Memorandum, CESAJ-EN-Q, 3 March 2015, subject: Approval of Review Plan for Brevard County, HSDR, Mid-Reach Segment – Mitigation Feature Contract, Brevard County, Florida (Encl 1).

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 and is hereby approved in accordance with reference 1.b above.

3. We concur with the conclusion of the District Chief of Engineering that a Type II IEPR is not required for the plans, specifications and design documentation associated with this effort. The primary basis for this concurrence is that failure or loss of this feature would not pose a significant threat to human life.

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

5. The SAD point of contact is [REDACTED].

Encl

  
C. DAVID TURNER  
Brigadier General, USA  
Commanding

CF:  
[REDACTED]



DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT CORPS OF ENGINEERS  
P.O. BOX 4970  
JACKSONVILLE, FLORIDA 32232-0019

REPLY TO  
ATTENTION OF

CESAJ-EN-Q

3 March 2015

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

SUBJECT: Approval of Review Plan for Brevard County, HSDR, Mid-Reach Segment - Mitigation Feature Contract, Brevard County, Florida

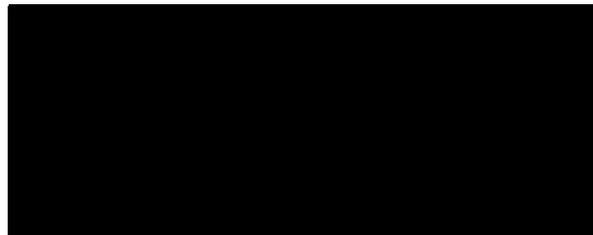
1. References.

- a. EC 1165-2-214, Civil Works Review, 15 December 2012
- b. WRDA 2007, Public Law 110-114, 08 November 2007 (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:



Encl

# **PROJECT REVIEW PLAN**

For

**Preconstruction, Engineering and Design Phase**

**Implementation Documents**

For

**Brevard County, HSDR, Mid-Reach Segment –  
Mitigation Feature Contract**

**Brevard County, Florida**

Project P2 number: 450498

**Jacksonville District**

**March 2015**

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.



**US Army Corps  
of Engineers®**

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ATTACHMENT A - Approved Review Plan Revisions

ATTACHMENT B - Partial List of Acronyms and Abbreviations

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

## **1. PURPOSE AND REQUIREMENTS**

### **a. Purpose**

This Review Plan defines the scope and level of review activities for the Brevard County, Florida, Hurricane and Storm Damage Reduction Project, Mid-Reach Segment, Mitigation Reef. 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. An Independent External Peer Review (IEPR) is not recommended as discussed herein. The project is in the design 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 for this project as an appendix to the Quality Management Plan.

### **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"

### **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) 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 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 selected by the Jacksonville District US Army Corps of Engineers (CESAJ). CESAJ will assist SAD with management of the ATR and will develop the charge to reviewers.

**2. PROJECT INFORMATION**

**a. Project Location and Name**

Project work is located in Brevard County, Florida. The offshore placement area begins approximately 16 miles south of Cape Canaveral and ends about 21 miles south of Cape Canaveral. The five mile placement area is 1,000 feet offshore of two coastal municipalities: Satellite Beach (R82 -R97) & Indian Harbor Beach (R97 – R105) and unincorporated Brevard County (R105 to R119). Project title will be as follows: Brevard County, HSDR, Mid-Reach Segment - Mitigation Feature Contract.

**b. Project Authorization**

Section 3045 of the Water Resources Development Act (WRDA) of 2007 modified the Brevard County, Florida, shoreline protection project authorized by section 101(b)(7) of the WRDA of 1996, " ... to authorize the Secretary to include the mid-reach as an element of the project from the Florida department of environmental protection monuments 75.4 to 118.3, a distance of approximately 7.6 miles." Section 3045 also stipulated, "The restoration work shall only be undertaken upon a determination by the Secretary, following completion of the general reevaluation report authorized by section 418 of the Water Resources Development Act of 2000 (114 Stat. 2637), that the shoreline protection is feasible."

In response to section 418 of the WRDA of 2000 and section 3045 of WRDA 2007, the U.S. Army Corps of Engineers prepared the GRR/SEIS for the Brevard County, Florida, Mid-Reach Segment, Hurricane and Storm Damage Reduction Project. The GRR/SEIS, dated August 2010, (revised April 2011) and Addendum (April 2014) presents the results of a shoreline protection study for the mid-reach segment of the Brevard County shore protection project (SPP). The December 23, 1996 report of the Chief of Engineers, which was referenced in section 101 (b)(7) of WRDA 1996, specifically excluded the mid-reach segment of the Brevard County project due to unresolved environmental considerations. The recommended project outlined in the GRR/SEIS and Addendum includes mitigation for impacts to about 3 acres of near shore rock hard bottom habitat by constructing about 4.8 acres of artificial substrates.

On September 8, 2014, the Assistant Secretary of the Army for Civil Works (ASA(CW)) signed a Director's Report stating, "I have determined that the recommended project for the mid-reach segment is feasible, thus it is now authorized pursuant to section 3045 of the WRDA of 2007. I have signed the Record of Decision (ROD) to fulfill the National Environmental Policy Act Requirements".

### **c. Current Project Description**

The project includes the manufacture, transport, and installation of articulated concrete mats with coquina-rock surface in the ocean offshore of Brevard County, Florida in water depths of 14 ~ 16 feet MLLW for the purpose of establishing a 4.8 acres artificial reef. Reef blocks will be fabricated with approximate 2.6 feet by 2.6 feet by 1 foot high concrete blocks with coquina rock densely embedded into the top surface with each reef mat having sufficient exposed rock to create a high surface rugosity and coverage. Eighteen (18) reef blocks will be interconnected using longitudinal and lateral cabling in 3 rows and 6 columns to form an articulated reef mat measuring approximately 8 feet by 16 feet. Forty-two (42) reef mats will be placed, laid out in six rows and seven offset columns with a single row of three (3) reef mats placed on top of the landward edge of the structure to form one offshore artificial reef set. A single artificial reef set is approximately 0.15 acres. 32 reef sets will be fabricated and installed with three to four artificial reef sets placed in proximity to one another in ten (10) offshore reef sites within the project placement area.

#### **Project Description Legend:**

- a) Reef block = Individual 2.6'x2.6'x1' concrete/coquina
- b) Reef mat = Interconnected 18 reef blocks
- c) Reef set (or reef set) = 45 reef mats = 0.15 Ac
- d) Reef site = 3 or 4 reef sets within a single boundary area = 0.45 to 0.60 acres per site.

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

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

### **f. Civil Works Cost Engineering Mandatory Center of Expertise Review And 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 will be 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 are documented in the DrChecks<sup>sm</sup> model review documentation database. DrChecks<sup>sm</sup> is a module in the ProjNet<sup>sm</sup> suite of tools developed and operated at ERDC-CERL ([www.projnet.org](http://www.projnet.org)). At the conclusion of ATR, the ATR Team Leader will prepare an ATR Review Report that summarizes the review. An outline for an ATR Review Report is in Attachment C. The report will include at a minimum the Charge to Reviewers, ATR Certification Form from EC 1165-2-214, and the DrChecks<sup>sm</sup> 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 will be from outside SAD and should have a minimum of 10 years of experience and have performed ATR Team Leader duties. ATR Team Leader can also serve as a co-duty to one of the review disciplines.

Civil Engineering. The team member should have at least 7 years of civil/site work project experience that includes embankments, groins, channels, revetments, offshore work, and shore protection project features.

Geotechnical Engineering and Engineering Geology. The team member should have a minimum of 10 years experience in geologic and geotechnical analyses used to support the development of Plans and Specifications for environmental/ecosystem restoration projects and have experience in stone sizing requirements.

Structural Engineering. The team member should be a registered professional engineer possessing 7 or more years of experience in structural engineering. This team member will review the designs for the structural elements of the project, including the concrete framework for the fabrication of the reef mats.

NEPA Compliance. The NEPA compliance reviewer should be a senior environmental resources specialist with 7 years of experience in NEPA compliance activities associated with open water disposal projects. NEPA and other environmental documents will be submitted to the ATR team with the DDR and Plans and Specifications to aid in performing ATR.

## **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 08550-SAJ, BCOES Reviews.

## **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 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 (Section 2035).**

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 the applicability statements for this Review Plan are as follows:

- (1) The failure of the project would pose a significant threat to human life.  
*This project consists of fabrication and placement of mitigation reef. Failure of the underwater reef feature will not pose a significant 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 placement area will be in accordance with the USACE Coastal Engineering Manual. The manual does not employ the concept of redundancy for mitigation reef design.*

(4) The project has unique construction sequencing or a reduced or overlapping design construction schedule.  
*Construction schedules do not have unique sequencing and activities are not reduced or overlapped.*

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

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

## **9. PROJECT DELIVERY TEAM DISCIPLINES**

<b>Discipline/Expertise</b>
Geomatics & Survey
Civil Site Design / Construction
Geotechnical Engineering
Environmental Engineering
Geology
Structural Engineering

## 10. BUDGET AND SCHEDULE

### a. Project Milestones.

Milestone	Task	Start Date	End Date
CW310	Draft P&S complete	10-Dec-2014	24-Apr-2015
	DQCR	4-May-2015	11-May-2015
	PQCR/DQC*	13-May-2015	4-Jun-2015
	ATR Review	8-Jun-2015	23-Jun-2015
	Evaluate ATR Comments	24-Jun-2015	25-Jun-2015
	ATR Certification	6-Jul-2015	10-Jul-2015
	BCOES	14-Jul-2015	29-Jul-2015
CW320	BCOES Certification	6-Aug-2015	13-Aug-2015

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

### b. ATR Cost.

Funds will be budgeted to execute ATR and schedule as outlined above. It is envisioned that each reviewer will be afforded 20 hours review plus 8 hours for coordination. The estimated cost range is \$15,000 - \$18,000.

**ATTACHMENT A: APPROVED REVIEW PLAN REVISIONS**

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

**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
EA	Environmental Assessment
ERDC-CERL	Engineer Research and Development Center – Construction Engineering Research Laboratory
ESA	Endangered Species Act
ETL	Engineering Technical Lead
FDEP	Florida Department of Environmental Protection
FONSI	Findings of No Significant Impacts
FSCA	Feasibility and Cost Sharing Agreement
FY	Fiscal Year
GRR	General Reevaluation Report
IEPR	Independent External Peer Review
LPP	Locally Preferred Plan
MCX	Mandatory Center of Expertise
MLLW	Mean Low Low Water
MSC	Major Subordinate Command
NAS	National Academy of Sciences
NEPA	National Environmental Policy Act
ODMDS	Ocean Dredged Material Disposal Site
OMB	Office of Management and Budget
OMRR&R	Operation, Maintenance, Repair, Replacement and Rehabilitation
P&S	Plans and Specifications
PED	Preconstruction Engineering and Design
PDT	Project Delivery Team
PM	Project Manager

<b><u>Acronyms</u></b>	<b><u>Defined</u></b>
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 and Development Act

## **Attachment C**

### **ATR Report Outline and COMPLETION OF AGENCY TECHNICAL REVIEW**

**Brevard County, HSDR, Mid-Reach Segment - Mitigation Feature Contract  
Brevard County, Florida**

**Review of Plans and Specifications (P&S), Design Documentation Report (DDR)**

#### **ATR REPORT OUTLINE :**

- 1. Introduction:**
- 2. Project Description:**
- 3. ATR Team Members:**
  - Geotechnical Engineering and Geology.**
  - Civil Engineering.**
  - NEPA Compliance.**
  - Structural Engineering.**
  - ATR Team Leader.**
- 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 Brevard County, HSDR, Mid-Reach Segment - Mitigation Feature Contract, Brevard 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 1165-2-214 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  
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