



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

2 MAR 16

MEMORANDUM FOR COMMANDER, JACKSONVILLE DISTRICT

SUBJECT: Approval of Review Plan for Preconstruction, Engineering and Design Phase Implementation Documents for Beach Erosion Control and Hurricane Protection Project, Miami Beach Hot Spots, Miami-Dade County, Florida

1. References:

a. Memorandum, CESAJ-EN-Q, 29 January 2016, subject: Approval of Review Plan for Preconstruction, Engineering and Design Phase Implementation Documents for Beach Erosion Control and Hurricane Protection Project, Miami Beach Hot Spots, Miami-Dade County, Florida (Encl).

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


2. The enclosed Review Plan for the Preconstruction, Engineering and Design Phase Implementation Documents for Beach Erosion Control and Hurricane Protection Project, submitted for approval by reference 1.a, has been reviewed by this office and is approved in accordance with reference 1.b above.

3. We concur with the conclusion in the Review Plan and the District Chief of Engineering that a Type II Independent External Peer Review (IEPR) is not required on this beach renourishment effort. The primary basis for our concurrence is that the failure or loss of the features associated with this beach renourishment project do not pose a significant threat to human life.

4. The District should take steps to post the Review Plan to its web site and provide a link to CESAD-RBT. Before posting to the web site, the names of Corps/Army employees should be removed. Subsequent significant changes to this Review Plan, should they become necessary, will require new written approval from this office.

5. The SAD point of contact is [REDACTED]

Encl

  
DONALD L. WALKER  
Colonel, EN  
Acting Commander

CF:  
[REDACTED]



REPLY TO  
ATTENTION OF

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

CESAJ-EN-Q

29 January 2016

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

SUBJECT: Approval of Review Plan for Preconstruction, Engineering and Design Phase Implementation Documents for Beach Erosion Control and Hurricane Protection Project, Miami Beach Hot Spots, Miami-Dade County, Florida

1. References.

- a. EC 1165-2-214, Civil Works Review, 15 Dec 12
- b. River and Harbor Act of 1968, Public Law 90-483, 13 Aug 68 (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**

### **Beach Erosion Control and Hurricane Protection Project Miami-Dade County, Florida Miami Beach Hot Spots**

**Miami-Dade County, Florida**

**Project P2 Number: 113082**

**Jacksonville District**

**January 2016**



**US Army Corps  
of Engineers** ®

THE INFORMATION CONTAINED IN THIS REVIEW PLAN IS DISTRIBUTED SOLELY FOR THE PURPOSE OF PREDISSEMINATION PEER REVIEW UNDER APPLICABLE INFORMATION QUALITY GUIDELINES. IT HAS NOT BEEN FORMALLY DISSEMINATED BY THE U.S. ARMY CORPS OF ENGINEERS, JACKSONVILLE DISTRICT. IT DOES NOT REPRESENT AND SHOULD NOT BE CONSTRUED TO REPRESENT ANY AGENCY DETERMINATION OR POLICY.

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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 Beach Erosion Control and Hurricane Protection (BEC&HP) Project for the Miami Beach Hot Spots in Miami-Dade 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 project is in the Pre-Construction, Engineering and Design (PED) phase. The implementation documents to be reviewed are Plans and Specifications (P&S) and a Design Documentation Report (DDR). Upon approval, this Review Plan will be included into the Project Management Plan (PMP) for this project as an appendix to the Quality Management Plan (QMP).

### **b. References**

- (1). ER 1110-2-1150, "Engineering and Design for Civil Works Projects", 31 August 1999
- (2). ER 1110-1-12, "Engineering and Design Quality Management", 31 March 2011
- (3). EC 1165-2-214, "Civil Works Review", 15 December 2012
- (4). ER 415-1-11, "Biddability, Constructability, Operability, Environmental, and Sustainability (BCOES) Review", 1 January 2013
- (5). SAJ EN QMS 02611, "SAJ Quality Control of In-House Products: Civil Works PED", 21 November 2011
- (6). SAJ EN QMS 08550, "BCOES Reviews", 21 September 2011
- (7). Enterprise Standard (ES) 08025, "Government Construction Quality Assurance Plan and Project/Contract Supplements"
- (8). Enterprise Standard (ES) 08026, "Three Phase Quality Control System"
- (9). Project Management Plan, Beach and Erosion Control and Hurricane Protection Project for Dade County, Florida, P2 Number 113082

### **c. Requirements**

This Review Plan was developed in accordance with EC 1165-2-214, which establishes an accountable, comprehensive, life-cycle review strategy for Civil Works products by providing a seamless process for review of all Civil Works projects from initial planning through design, construction, and Operation, Maintenance, Repair, Replacement and Rehabilitation (OMRR&R). The EC provides the procedures for ensuring the quality and credibility of U.S. Army Corps of Engineers (USACE) decision, implementation, and operations and maintenance documents and other work products. The EC outlines five levels of review: District Quality Control (DQC), Agency Technical Review (ATR), and an Independent External Peer Review (IEPR), Policy and Legal Review, and a Biddability, Constructability, Operability, Environmental, and Sustainability (BCOES) Review.

### **d. Review Plan Approval and Updates**

The South Atlantic Division Commander is responsible for approving this Review Plan. The Commander's approval reflects vertical team input (involving district, MSC, RMO, and

HQUSACE members) as to the appropriate scope and level of review. Like the PMP, the Review Plan is a living document and may change as the project progresses. The Jacksonville District is responsible for keeping the Review Plan up to date. Minor changes to the Review Plan since the last MSC Commander approval are documented in Attachment A. Significant changes to the Review Plan (such as changes to the scope and/or level of review) will be re-approved by the MSC Commander following the process used for initially approving the plan. The latest version of the Review Plan, along with the Commanders' approval memorandum, will be posted on the Jacksonville District's webpage. The latest Review Plan will be provided to the RMO and home MSC.

**e. Review Management Organization**

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

**2. PROJECT INFORMATION**

**a. Project Background**

Miami-Dade County, commonly referred to as "Dade County", is located along the southeast coast of Florida, and contains the city of Miami. Dade County lies between Broward County (north of Dade) and Monroe County (south of Dade). The Dade County shoreline extends along two barrier island segments separated from the mainland by Biscayne Bay. The barrier islands vary in width from about 0.2 to 1.5 miles, with an average width of about 0.5 miles. Elevations along the entire coastal region (and much of the mainland) are low, as they are generally less than 10 feet; whereas elevations along the barrier islands are generally the highest along the Atlantic Ocean shorefront, and slope gradually downward toward the bay.

The authorized Beach Erosion Control and Hurricane Protection Project for Miami-Dade County contains two segments, the Sunny Isles Segment and the Main Segment, each with differing periods of Federal participation. See Figure 1 for map of BEC&HP Project.

- 1) The Sunny Isles Segment is comprised of the 2.5 miles of shore extending north from Haulover Beach Park. The segment was initially constructed in 1988, and covers the area between Florida Department of Environmental Protection (FDEP) Range monuments R-7 to R-19.3.
- 2) The Main Segment is 10.5 miles in length. This segment includes the stretch of beach from Government Cut to Bakers Haulover Inlet (9.3 miles) and Haulover Beach Park (1.2 miles). This segment stretches from FDEP monument R-19.3 to R-74. Initial construction of this segment began in 1975.

The primary purpose of the project between Government Cut and Bakers Haulover Inlet is to provide storm damage protection to upland development and to provide protection against storm surge. For the Haulover Park reach, the primary purpose is to provide protection to the park from beach erosion. For the Sunny Isles reach, the primary purpose of the project is to provide storm damage protection for upland development from a storm with a 10-year return interval.

Between Government Cut and Bakers Haulover Inlet, the project would provide a dune 20 feet wide at 11.5 feet above mean low water and a level berm 50 feet wide at elevation 9 feet mean low water (MLW) with natural slopes as shaped by wave action. At Haulover Beach Park, the

project would provide a level berm 50 feet wide at elevation 9 MLW and natural slopes. As authorized, the Main Segment did not have a recommended renourishment interval, but the project was intended to be nourished periodically as needed to compensate for erosion losses throughout the 50-year project life. The average annual nourishment requirements were estimated at 191,000 and 20,000 cubic yards of material for Government Cut to Bakers Haulover Inlet and Haulover Beach Park, respectively.

The authorized project for the Sunny Isles segment of the Dade County BEC&HP Project provides for the construction of a 20 foot berm seaward of the Erosion Control Line (ECL) at elevation 9 MLW with front slopes of 1 vertical to 10 horizontal from berm crest to mean low water (mlw), then 1 on 25 to the existing bottom. The authorized renourishment volume was 715,000 cubic yards every 10 years.



Figure 1: BEC&HP Project Map

**b. Project Authorization**

The original Beach Erosion Control and Hurricane Protection Report for Miami-Dade County, Florida was authorized by the Rivers and Harbors Act on July 3, 1930. An extension of restudy to include all of the Miami-Dade County north of Government Cut was approved by the Chief of Engineers in January 1961 (USACE 1965).

The Beach Erosion Control and Hurricane Protection Project for Dade County, Florida was authorized by the Flood Control Act of 1968. In addition, Section 69 of the 1974 Water Resources Development Act (Public Law 93-251) included the authorization for initial construction by non-Federal interests of the 0.85-mile segment along Bal Harbour Village, immediately south of Bakers Haulover Inlet. The authorized project, as described in House Document 335/90/2 (the 1968 Chief’s Report for the project), provided for the construction of a protective and recreational beach and a protective dune for 9.3 miles of shoreline between Government Cut and Bakers Haulover Inlet (encompassing Miami Beach, Surfside, and Bal Harbour) and for the construction of a protective and recreational beach along 1.2 miles of shoreline at Haulover Beach Park.

The Sunny Isles portion of the project was added in 1985. Specifically, the BEC&HP Project for Dade County, Florida, North of Haulover Beach Park was authorized by the Supplemental Appropriations Act of 1985 and the Water Resources Development Act (WRDA) of 1986 (Public Law 99-662). However, only the authority of the Supplemental Appropriations Act of 1985 has been implemented through the execution of a local cost sharing agreement. This authorization provides for modification of the authorized 1968 Beach Erosion Control and Hurricane Protection Project for Dade County, Florida, to provide for the following:

1. The construction of a protective beach along a reach of shore extending 2.5 miles through Sunny Isles, and for periodic nourishment of this area.
2. The extension of the period of Federal participation in the cost of nourishing the existing Dade County Beach Erosion Control and Hurricane Protection Project from 10 years to the life of the project.

The Chief of Engineers’ Report from December 1983 (“Dade County, North of Haulover Beach Park, Florida”) provides additional details on the Sunny Isles segment of the project.

Although the 1985 Supplemental Appropriations Act which authorized the Sunny Isles segment and extended the period of Federal participation of the existing Dade County (BEC & HP), the Project did not specify a time limit for Federal participation. Section 156 of WRDA 1976, as amended by Section 934 of WRDA 1986, limits the period of Federal participation to 50 years from the date of initiation of construction.

**c. Current Project Description**

The portion of the BEC&HP Project for Dade County, Florida, covered in this review plan will renourish critically eroded shoreline at the Miami Beach Hotspots located at approximately 55th Street and 46th Street in Miami Beach between Florida Department of Environmental Protection (FDEP) Range Monuments R-49.5 to R-50.5 and R-53.7 to R-55.5 respectively. The project beach has a maximum berm elevation of +6.6 feet, NAVD88, and a minimum berm elevation no less than +6.1 feet, NAVD88. The width of the restored beach is 230 feet measured perpendicular to the Erosion Control Line (ECL). The sand source for the project will



be an upland source, and material will be truck hauled to the project location. The upland source will be selected by the Contractor meeting specified criteria. Project work also includes environmental species, turbidity, and vibration monitoring.

**d. Public Participation**

The Jacksonville District Corporate Communications Office continually keeps the affected public informed on Jacksonville District projects and activities. There are no planned activities, public participation meetings or workshops that could generate issues needing provision to review teams. The approved Review Plan will be posted on the Jacksonville District Internet. Any comments or questions regarding the Review Plan will be addressed by the Jacksonville District.

**e. Civil Works Cost Engineering Mandatory Center of Expertise Certification**

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

**3. DISTRICT QUALITY CONTROL**

District Quality Control and Quality Assurance activities for DDRs and P&S are stipulated in ER 1110-1-12, Engineering & Design Quality Management and SAJ EN QMS 02611. The subject project DDR and P&S will be prepared by the Jacksonville District using ER 1110-1-12 procedures and will undergo District Quality Control. SAJ EN QMS 02611 defines DQC as the sum of two reviews, Discipline Quality Control Review (DQCR) and Product Quality Control Review (PQCR). Product Quality Control Review Certification is the DQC Certification and will precede ATR.

**4. AGENCY TECHNICAL REVIEW**

**a. Risk Informed Decision on Appropriate Level of Review**

PED phase implementation documents are being prepared, and an ATR of the P&S and DDR documents is required.

**b. Agency Technical Review Scope.**

Agency Technical Review (ATR) is undertaken to "ensure the quality and credibility of the government's scientific information" in accordance with EC 1165-2-214 and ER 1110-1-12. An ATR will be performed on the P&S and DDR pre-final submittals.

ATR will be conducted by individuals and organizations that are external to the Jacksonville District. The ATR Team Leader will be a Corps of Engineers employee outside the South Atlantic Division. The required disciplines and experience are described below.

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

Civil/Coastal Engineering. The team member should be a registered professional engineer and have 5 or more years' experience with beach nourishment projects and/or civil/site work. Related project construction experience is desired.

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

Coastal Geology. The team member shall be a registered professional and have 5 or more years' experience in coastal geology. Experience shall include geotechnical evaluation of beach quality material for beach nourishment projects.

## **5. BIDDABILITY, CONSTRUCTABILITY, OPERABILITY, ENVIRONMENTAL, AND SUSTAINABILITY REVIEW**

The value of a BCOES review is based on minimizing problems during the construction phase through effective checks performed by knowledgeable, experienced personnel prior to advertising for a contract. Biddability, constructability, operability, environmental, and sustainability requirements must be emphasized throughout the planning and design processes for all programs and projects, including during planning and design. This will help to ensure that the government's contract requirements are clear, executable, and readily understandable by private sector bidders or proposers. It will also help ensure that the construction may be done efficiently and in an environmentally sound manner, and that the construction activities and projects are sufficiently sustainable. Effective BCOES reviews of design and contract documents will reduce risks of cost and time growth, unnecessary changes and claims, as well as support safe, efficient, sustainable operations and maintenance by the facility users and maintenance organization after construction is complete. A BCOES Review will be conducted for this project. Requirements and further details are stipulated in ER 1110-1-12, ER 415-1-11, and SAJ EN QMS 08550.

## **6. INDEPENDENT EXTERNAL PEER REVIEW**

### **a. General.**

EC 1165-2-214 provides implementation guidance for both Sections 2034 and 2035 of the Water Resources Development Act (WRDA) of 2007 (Public Law (P.L.) 110-114). The EC addresses review procedures for both the Planning and the Design and Construction Phases (also referred to in USACE guidance as the Feasibility and the Pre-construction, Engineering and Design and Construction Phases). The EC defines Section 2035 Safety Assurance Review (SAR), Type II Independent External Peer Review (IEPR). The EC also requires Type II IEPR be managed and conducted outside the Corps of Engineers.

**b. Type I Independent External Peer Review Determination.**

A Type I IEPR is primarily associated with decision documents. A Type I IEPR is not applicable to the implementation documents covered by this Review Plan.

**c. Type II Independent External Peer Review Determination.**

This project does not trigger WRDA 2007 Section 2035 factors for Safety Assurance Review (termed Type II IEPR in EC 1165-2-214), and therefore, a review under Section 2035 is not required. The factors in determining whether a review of design and construction activities of a project are necessary as stated under Section 2035 along with this Review Plan's applicability statements follow.

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

*This project will renourish portions of Miami Beach. Failure of either 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 the Corps of Engineers on other similar works.*

- (3) The project design lacks redundancy.

*The project features are not complex in nature and do not 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 construction sequence and schedule has been used successfully by the Corps of Engineers on other similar works.*

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

**7. POLICY AND LEGAL COMPLIANCE**

The Jacksonville District Office of Counsel reviews all contract actions for legal sufficiency in accordance with Engineer Federal Acquisition Regulation Supplement 1.602-2 Responsibilities. The subject implementation documents and supporting environmental documents will be reviewed for legal sufficiency prior to advertisement.

**8. MODEL CERTIFICATION AND APPROVAL**

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

## 9. PROJECT DELIVERY TEAM DISCIPLINES

PDT Disciplines
ATR Team Lead
Civil/Coastal Engineering
Construction Management
Coastal Geology

## 10. BUDGET AND SCHEDULE

### a. Project Schedule.

Milestone	Task	Start Date	End Date
CW310	Draft P&S complete	1-July-2015	13-Oct-2015
	DQCR	14-Oct-2015	22-Oct-2015
	PQCR/DQC*	23-Oct-2015	18-Nov-2015
	ATR Review	1-Dec-2015	18-Dec-2015
	ATR Certification	12-Feb-2016	12-Feb-2016
	BCOES	6-Jan-2016	27-Jan-2016
CW320	BCOES Certification	25-Feb-2016	25-Feb-2016
CW400	Advertisement	17-Mar-2016	14-Apr-2016

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

### b. ATR Cost.

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

**ATTACHMENT A: APPROVED REVIEW PLAN REVISIONS**

<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

<u>Acronyms</u>	<u>Defined</u>
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**

**Beach Erosion Control and  
Hurricane Protection Project  
Miami-Dade County, Florida  
Miami Beach Hotspots**

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

**ATR REPORT OUTLINE (Unneeded items, such as ATR Team Member Disciplines that are not identified as needed in the Review Plan, shall be deleted from the ATR Report.)**

- 1. Introduction:**
- 2. Project Description:**
- 3. ATR Team Members:**
  - ATR Team Leader.**
  - Civil/Coastal Engineering.**
  - Construction Management.**
  - Coastal Geology.**
- 4. ATR Objective:**
- 5. Documents Reviewed:**
- 6. Findings and Conclusions:**
- 7. Unresolved Issues:**

**Enclosures:**

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



# COMPLETION OF AGENCY TECHNICAL REVIEW

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The Agency Technical Review (ATR) has been completed for the Beach Erosion Control and Hurricane Protection Project for the Miami Beach Hot Spots in Miami-Dade 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