



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

CESAD-RBT

15 April 2018

MEMORANDUM FOR COMMANDER, JACKSONVILLE DISTRICT

SUBJECT: Approval of Comprehensive Review Plan for the Draft, Preliminary, and Final Project Operating Manual (POM) for the C-44 Reservoir/Stormwater Treatment Area (RSTA) Component of the Indian River Lagoon South (IRL-S) Project

1. References:

a. Memorandum, CESAJ-OD-MW, 2 April 2018, subject: Approval Request for the Comprehensive Review Plan for the Draft, Preliminary, and Final Project Operating Manual (POM) for the C-44 reservoir/Stormwater treatment Area (RSTA) Component of the Indian River Lagoon South (IRL-S) Project.

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. SAD concurs with the District determination that a District Quality Control (DQC) Review is required for all three work products: Draft POM, Preliminary POM, and Final POM. Agency Technical Review (ATR) is needed on the Final POM for the C-44 RSTA of the IRL-S Project. SAD also concurs that neither a Type I nor a Type II Independent External Peer Review (IEPR) is required on the POM. We agree with the District Chief of Engineering that the failure or loss of this water operating criteria will not pose a significant threat to human life.

4. The District should take steps to post the RP 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 RP, such as scope or level of review changes, should they become necessary, will require new written approval from this office.

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

Encl

[REDACTED]  
[REDACTED]  
Brigadier General, USA  
Commanding

CF:

[REDACTED]

# **REVIEW PLAN**

**For  
The Draft Project Operating Manual (POM),  
Preliminary POM, and Final POM for the  
C-44/Reservoir/STA (RSTA) Component  
Of  
The Indian River Lagoon South (IRL-S) Project**

(Martin County, Florida)

Jacksonville District

March 2018

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**US Army Corps  
of Engineers®**

**REVIEW PLAN**  
**For**  
**The Draft Project Operating Manual (POM),**  
**Preliminary POM, and Final POM for the**  
**C-44/Reservoir/STA (RSTA) Component**  
**Of**  
**The Indian River Lagoon South (IRL-S) Project**

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## 1. PURPOSE AND REQUIREMENTS

- a. Purpose.** This review plan addresses the type of document classification and appropriate scope of review activities in accordance with the particular classification for all of the updates to the IRL-S Draft Project Operating Manual (POM) as a result of the project phases for the C-44 RSTA Component. \*In accordance with the Comprehensive Everglades Restoration Plan (CERP) Programmatic Regulations, Guidance Memoranda #5, the development of the POM is an iterative process that will continue throughout the life of the project as indicated in below table.

Project Phase	NEPA Document	Phase Activities	Post-Phase Actions
Construction (Projected June 2018 – Oct. 2020) C-44 component only	Final PIR/EIS 2004 PENDING: SAJ PD-ES will provide a MFR to confirm NEPA compliance of interim operational changes to the east STA during 2-year construction period.	Operation of a temporary pump station to pump C-44 water to STA in order to initiate plant growth.	<b>Draft POM</b> will be updated based upon operational experience gained during this phase. Draft POM will go through the <b>DQC</b> review process defined in this review plan.
Operational Testing and Monitoring Phase (OTMP) C-44 component only (Projected Oct. 2021 – Oct. 2023)	Final PIR/EIS 2004 PENDING: SAJ PD-ES will provide a MFR to confirm NEPA compliance of interim post-construction operational changes to the east STA during 2-year operational testing and monitoring phase (OTMP).	Both Reservoir and STA will be operated. Analyses will be performed to verify project is operating as designed.	<b>Preliminary POM</b> will include operations for the OTMP. Upon completion of the OTMP, the Preliminary POM will go through the <b>DQC</b> review process defined in this review plan.
Long-term Operations for the C-44 component only (after OTMP)	Final PIR/EIS 2004	Reservoir and STA will be operated for the long-term.	The <b>Final POM</b> will consolidate all of the refinements recommended during previous phases and will go through the <b>ATR</b> process as defined in this review plan.

\* Note: Once the C23/24 Component of IRL-S completes Design Phase, the draft POM will undergo updates for the C23/24 Component. Because of the time between when the C-44 RSTA Component is operating and the C23/24 construction, a new review plan will be developed to describe the review process for updating the draft POM for the C23/24 Component Phases.

Engineer Circular (EC) 1165-2-214, Civil Works Review, stipulates a risk-informed decision process to be used to determine if the documents (Draft POM, Preliminary POM, and Final POM) covered by this Review Plan are U.S. Army Corps of Engineers (USACE) decision documents, implementation documents, or another work product, and to determine the appropriate level of review for the documents.

**b. References.**

- (1) Section 385.28(b)(2) of the Programmatic Regulations for the Comprehensive Everglades Restoration Plan
- (2) Engineer Circular (EC) 1165-2-214, Civil Works Review, 15 December 2012
- (3) Memorandum, CECW-CE, 2 July 2013, Subject: Policy Guidance Letter – Peer Review of Updates to Water Control Manuals
- (4) Engineering and Construction Bulletin 2016-9, Civil Works Review, 4 March 2016
- (5) Engineer Regulation (ER) 1110-2-240, Water Control Management, 30 May 2016
- (6) Engineer Manual (EM) 1110-2-3600 Management of Water Control Systems, 10 October 2017
- (7) ER 1110-2-8156, Preparation of Water Control Manuals, 31 August 1995(4) ER 1110-2-530 Flood Control Operations and Maintenance Policies, 30 October 1996
- (8) Engineer Technical Letter (ETL) 1110-2-362 Environmental Engineering Initiatives for Water Management, 31 July 1995
- (9) ER 1110-1-12, Quality Management, 30 September 2006
- (10) ER 1110-2-1941, Drought Contingency Plans, 02 February 2018

**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 review procedures for ensuring the quality and credibility of USACE decision, implementation, and operations and maintenance documents and work products. The EC outlines three primary levels of review: District Quality Control, Agency Technical Review, and Independent External Peer Review.

- (1) **District Quality Control (DQC).** DQC is the review of basic science and engineering work products focused on fulfilling the project quality requirements defined in the Project Management Plan (PMP). It is managed in the home district and may be conducted by staff in the home district as long as they are not doing the work involved in the study, or overseeing contracted work that is being reviewed. Basic quality control tools include a Quality Management Plan (QMP) providing for seamless review, quality checks and reviews, supervisory reviews, Project Delivery Team (PDT) reviews, etc. Additionally, the PDT is responsible for a complete reading of the report to assure the overall integrity of the report, technical appendices and the recommendations before approval by the District Commander. The Major Subordinate Command (MSC)/District quality

management plans address the content and documentation of this fundamental level of review.

- (2) **Agency Technical Review (ATR).** ATR is an in-depth review, managed within USACE, and conducted by a qualified team outside of the home district that is not involved in the day-to-day production of the project/product. The purpose of this review is to ensure the proper application of clearly established criteria, regulations, laws, codes, principles and professional practices. The ATR team reviews the various work products and assures that all the parts fit together in a coherent whole. ATR teams will be comprised of senior USACE personnel [Regional Technical Specialists (RTS), etc.], and may be supplemented by outside experts as appropriate. To assure independence, the leader of the ATR team shall be from outside the parent MSC.
- (3) **Independent External Peer Review (IEPR).** IEPR is the most independent level of review and is applied in cases that meet certain criteria where the risk and magnitude of the proposed project are such that a critical examination by a qualified team outside of USACE is warranted.

**d. Review Management Organization (RMO).** The South Atlantic Division (SAD) is designated as the RMO for the update to the Draft POM, the Preliminary POM, and the Final POM for the C-44 RSTA Component. The RMO is responsible for managing the ATR review activities described in this Review Plan.

## **2. PROJECT INFORMATION AND BACKGROUND**

The C-44 Reservoir and Stormwater Treatment Area (RSTA) is a component of the Indian River Lagoon – South Project authorized in Section 1001(14) of the (WRDA) of 2007, Public Law (P.L.) 110-114. The C-44 RSTA is located on approximately 12,000 acres of land located in southern Martin County, directly north of the C-44 Canal, roughly halfway between Lake Okeechobee and the Atlantic Ocean. (Figure 1.) The purpose of the C-44 RSTA is to capture, store and treat local basin run-off to restore the delicate balance of fresh and salt water in the southern portion of the Indian River Lagoon and St. Lucie River Estuary, and to revitalize degraded habitat within the watershed.

The C-44 RSTA component includes: (1) a 3,400-acre reservoir to be operated at a depth of 15 feet (50,600 acre-feet capacity); (2) an 1,100 cubic feet per second (cfs) pump station to draw stormwater from the C-44 Canal and pump it to the reservoir for storage and further treatment by the STA; (3) a 20,000 linear foot intake canal to connect the reservoir to the C-44 Canal; (4) a 6,300-acre STA to treat the collected stormwater before it is returned to the C-44 canal (during design refinements, this single, more efficient STA replaced the two (east and west) STAs described in the August 2004 Chief's Report); and (5) a communications tower to enable communications and remote operations of the features within the C-44 RSTA.

The South Florida Water Management District (SFWMD), which is the non-Federal Sponsor, is constructing the C-44 Pump Station and the C-44 STA, both features of the C-44 RSTA that are scheduled for completion in 2018. The Corps is constructing the C-44 Reservoir, which is the

larger of the two water storage features of the C-44 RSTA, scheduled for completion in 2020. After construction of the entire facility (C-44 RSTA), it will undergo a period of up to 2 years of operational testing and monitoring to ensure it is performing as intended before it is transferred to the Operational, Maintenance, Repair, Replacement, and Rehabilitation (OMRRR) Phase.

Until completion of the C-44 Reservoir construction in 2020, water will be withdrawn from the C-44 Intake Canal by a temporary pump station that will be operated manually. The water will be pumped into Cell 2 of the STA, from which it will flow to the distribution canal which will supply water to each of the remaining STA cells except Cell 1 via the STA distribution canal. (Figure 2.) The Corps and SFWMD do not anticipate discharges back into the C-44 canal via the System Discharge structure (S-404). (Figure 2.)

Once the Corps completes the C-44 Reservoir construction, water will be pumped into the reservoir using the 1,100 cfs C-44 Pump Station constructed by the SFWMD. (Figure 3.)

**Figure 1 – Project Location**

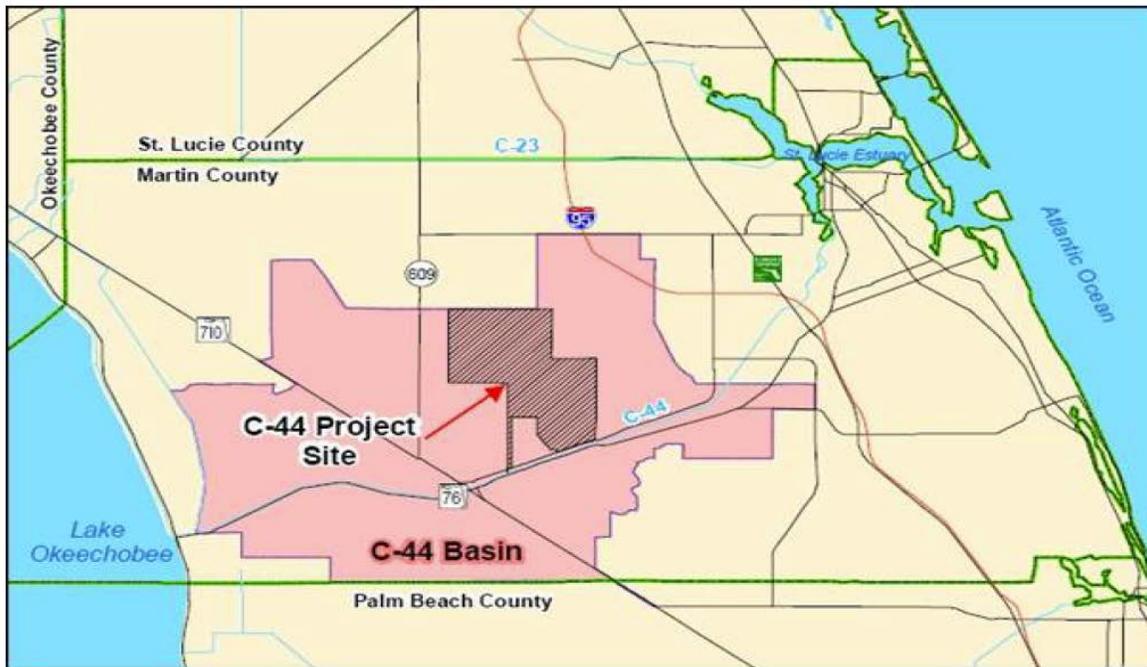
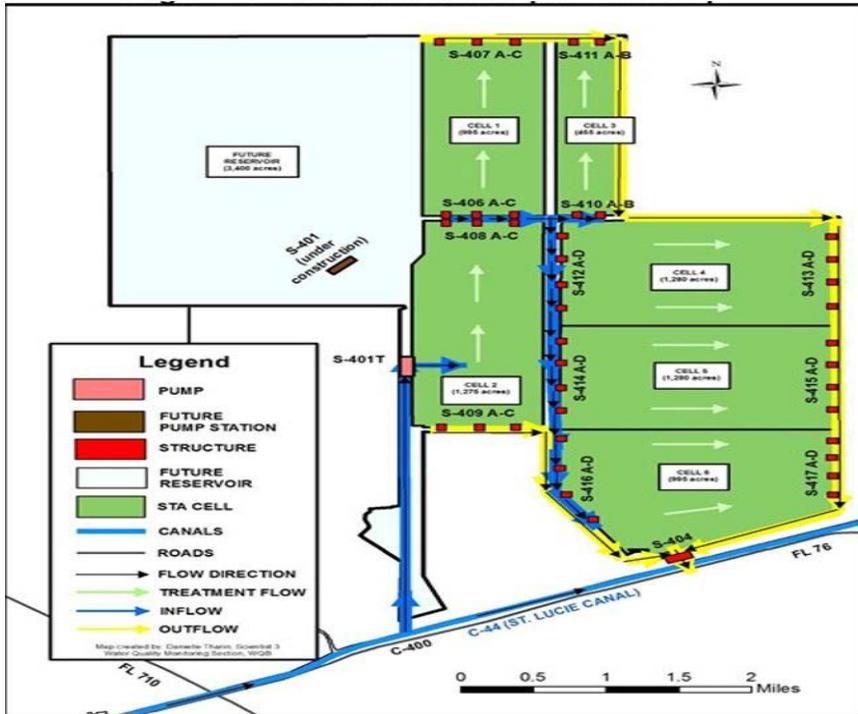
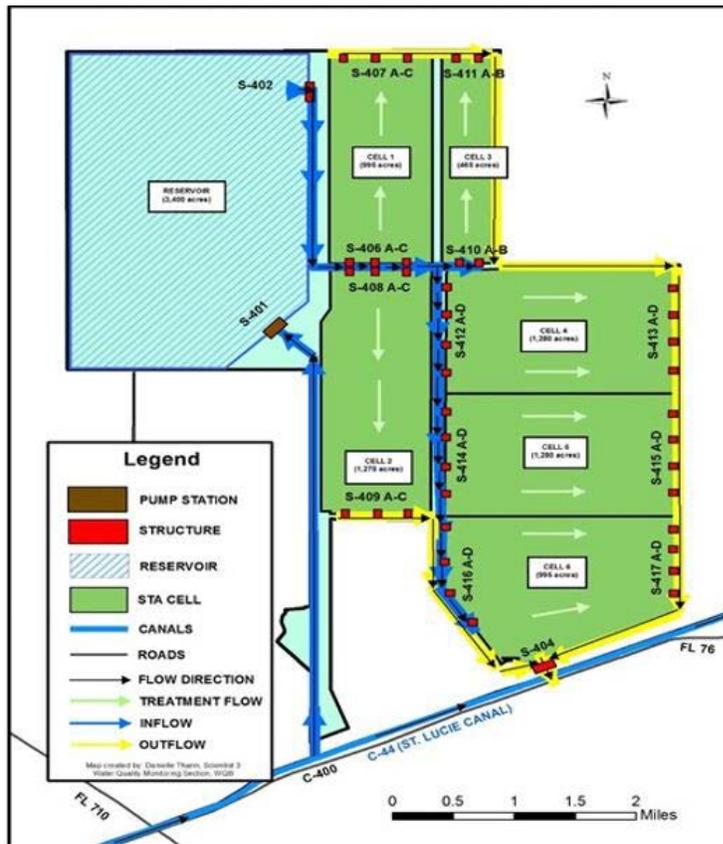


Figure 2 – \*Operations of the C-44 STA (During the reservoir construction)



\* Coordination with the on-going reservoir construction will occur prior to filling STA cell 1

**Figure 3 – Operations of the C-44 STA (after reservoir construction completed)**



### **3. POLICY AND LEGAL COMPLIANCE REVIEW**

Guidance for policy and legal compliance reviews of water control systems is contained in ER 1110-2-240, Water Control Management, and ER 1110-2-8156, Preparation of Water Control Manuals. The SAJ Policy and Legal Compliance Review culminate in determinations that the updated Draft POM being prepared, as well as the future development of the Preliminary POM, and the Final POM for the C-44 RSTA Component, and any supporting analyses and coordination comply with law and policy, and warrant approval or further recommendation to higher authority by the home MSC.

### **4. RISK-INFORMED DECISION ON TYPE OF DOCUMENT AND APPROPRIATE LEVEL OF REVIEW**

The EC 1165-2-214 for review policy directs the Project Delivery Team to make a risk-informed decision to determine if the documents are decision documents, implementation documents or other work products, and to determine the appropriate level of review for those documents. DQC is required for all products. The appropriateness of ATR and IEPR are based on the risk-informed decision process as presented in this section.

The updated Draft POM, as well as the future development of the Draft POM into a Preliminary POM, and a Final POM for the C-44 Component of IRL-S Project are all “other work products” as defined in EC 1165-2-214. The basis for this identification is that the updated Draft POM, as well as the future development of the Preliminary POM, and the Final POM for C-44 Component of IRL-S Project is neither a decision document nor an implementation document under EC 1165-2-214. In addition, the updated Draft POM for C-44 Component of IRL-S Project will result in allowing the STA to establish vegetation by allowing a temporary pump station to pump C-44 water to the STA until the reservoir is complete.

**a. District Quality Control (DQC).** DQC and quality assurance activities for other work products are stipulated in ER 1110-1-2, Engineering & Design Quality Management. The Jacksonville District’s Water Management Section will complete the updated Draft POM (for operations during the C-44 reservoir construction Phase), the Preliminary POM (for operations during the Operational Testing and Monitoring Phase), and the Final POM (for long-term operations for the C-44 Component; will initiate DQC; and will incorporate DQC comments, as appropriate. Prior to initiation of the DQC, an iterative review/comment process with the SFWMD, the non-federal sponsor, as well as the PDT, will be completed. Upon completion of the DQC activities, SFWMD will be kept apprised of any significant edits to the Draft POM, the Preliminary POM and the Final POM for the C-44 RSTA Component resulting from the DQC.

**b. Agency Technical Review (ATR).** Based on the answers to the following questions from the risk-informed decision process (Section 15b of EC 1165-2-214) and the Policy Guidance Letter (Reference 3), an ATR of the updates of the Draft POM during the Construction Phase and the Preliminary POM for the Operational Testing and Monitoring Phase (OTMP) is not required. Both the Draft and Preliminary POMs are for temporary operations. The Draft POM operations are expected to last two years. The preliminary POM operations are expected to continue for up to 2 years. Therefore, the PDT does not recommend or plan an ATR on the Draft or Preliminary POMs. Again, the operations during the project phases are temporary and will not require changes to existing C-44 operations (Lake Okeechobee Regulation Schedule 2008). However, the PDT recommends/plans an ATR for the Final POM for the C-44 Component, which will include operations for the C-44 Reservoir.

- (1) Does the update of the Draft POM, Preliminary POM, or Final POM for the C-44 Component of IRL-S Project include any design (structural, mechanical, hydraulic, etc.)? **No.** This is an updated Draft POM to operate the STA to establish the required vegetation ahead of C-44 Reservoir construction completion. An interim pump station will be used to hydrate the STA as previously indicated. The Preliminary POM will contain operations for the OMTP. The Final POM for the C-44 Component of IRL-S Project will contain operations for the long-term project operations.
- (2) Does the update of the Draft POM, the Preliminary POM, or the Final POM for the C-44 Component of IRL-S Project IRL-S Project evaluate alternatives? **No.** These are POMs for the construction phase, OTMP, and long-term operations of the C-44 Component of IRL-S Project, respectively.

- (3) Does the update of the Draft POM, Preliminary POM, or Final POM for the C-44 Component of IRL-S Project include a recommendation? **No.** Alternatives were analyzed in the Final IRL-S Project Implementation Report and EIS (March 2004).
- (4) Does the update of the Draft POM, Preliminary POM, or Final POM for C-44 Component of IRL-S Project have a formal cost estimate? **No.** The updates of the Draft POM, Preliminary POM, and final POM for the C-44 Component of IRL-S Project do not include a formal cost estimate.
- (5) Does the update of the Draft POM, Preliminary POM, or Final POM for the C-44 Component of IRL-S Project IRL-S Project require a NEPA document? **No.** The construction operations will allow the STA to establish vegetation. The operations in the Preliminary POM will contain operations for the OTMP. Once the reservoir construction and the OTMP are complete, the Final POM for long-term operations will operate in accordance with the Final PIR and EIS for IRL-S. PD-ES will provide a MFR to confirm.
- (6) Does the update of the Draft POM, Preliminary POM, or Final POM for the C-44 Component of IRL-S Project impact a structure or feature of a structure whose performance involves potential life safety risks? **No.** The updates to the Draft POM and Preliminary POM for C-44 Component of IRL-S Project are temporary and for implementation only during the C-44 Reservoir construction, and the OTMP. The final POM for the C-44 Component of IRL-S Project will contain reservoir operations that are consistent with the C-44 reservoir design documents which had a Type II IEPR.
- (7) What are the consequences of non-performance? The result of non-performance would be minimal. If there is not an update of the Draft POM for the C-44 reservoir construction, the STA will have inadequate water to establish appropriate vegetation. The delays in establishing the required vegetation will delay initiating the operational testing and monitoring period required of the facility before it can be transferred to the non-federal sponsor. It will also cause funds to be expended in only maintaining the STA without any water and benefits. Without this vegetation, the STA will not have the ability to treat the water prior to discharging to the C-44, as intended in the Final PIR. Without the Preliminary POM operations to allow testing and monitoring, there would be no assurance that the project is operating as designed.
- (8) Does the update of the Draft POM, Preliminary POM, or Final POM for the C-44 Component of IRL-S Project support a significant investment of public monies? **No.** There is no significant investment of public monies in the update of the Draft POM for the C-44 RSTA Component with operations during construction or the Preliminary POM with operations for the OTMP. However, there will be a significant investment of public monies associated with the Final POM for the C-44 Component of IRL-S Project for long-term operations.
- (9) Does the update of the Draft POM, Preliminary POM, or Final POM for the C-44 RSTA Component of IRL-S Project support a budget request? **No.** However, the operating criteria in the IRL-S Draft POM, Preliminary POM, and Final POM, will allow the C-44

RSTA component of the IRL-S Project to operate as authorized once the construction phase and OTMP are completed.

- (10) Does the update of the Draft POM, Preliminary POM, or Final POM for the C-44 RSTA Component of IRL-S Project change the operation of the project? **No.** The overall operational intent of the C-44 RSTA component of the IRL-S Project will not change.
- (11) Does the update of the Draft POM, Preliminary POM, or Final POM for the C-44 RSTA Component of IRL-S Project involve ground disturbances? **No.** There is no construction associated with these POMs; nor will the operations of the system introduce any such disturbances other than seepage from the STA and reservoir.
- (12) Does the update of the Draft POM, Preliminary POM, or Final POM for the C-44 RSTA Component of IRL-S Project affect any special features, such as cultural resources, historic properties, survey markers, etc., that should be protected or avoided? **No.** These special features were examined in the Final PIR and EIS for the IRL-S Project.
- (13) Does the update of the Draft POM, Preliminary POM, or Final POM for the C-44 RSTA Component of IRL-S Project involve activities that trigger regulatory permitting such as Section 404 or stormwater/NPDES related actions? **No.** There will be no off-site discharges that warrant Section 404 or NPDES permit actions.
- (14) Does the update of the Draft POM, Preliminary POM, or Final POM for the C-44 RSTA Component of IRL-S Project involve activities that could potentially generate hazardous wastes and/or disposal of materials such as lead-based paints or asbestos? **No.** There will be no hazardous wastes and/or disposal thereof generated by update of the IRL-S Draft POM with operations for the C-44 reservoir construction, the Preliminary POM with operations during OTMP, or the Final POM for long-term operations.
- (15) Does the update of the Draft POM, Preliminary POM, or Final POM for the C-44 RSTA Component of IRL-S Project reference use of or reliance on manufacturers' engineers and specifications for items such as prefabricated buildings, playground equipment, etc.? **No.** These work products are operational in nature, and are/will be consistent with the Final PIR.
- (16) Does the update of the Draft POM, Preliminary POM, or Final POM for the C-44 RSTA Component of IRL-S Project reference reliance on local authorities for inspection/certification of utility systems like wastewater, stormwater, electrical, etc.? **No.** These work products have no effect on any local utilities for inspection/certification of utility systems. All work that will be performed is confined to USACE and SFWMD personnel on the project's proposed facilities.
- (17) Is there or is there expected to be any controversy surrounding the Federal action associated with the work product? **No.** The update of the IRL-S Draft POM for the C-44 RSTA Component of IRL-S Project has undergone a series of public meetings and public/agency review during the PIR development. All comments have been incorporated

into the current documentation. The collective State/Federal agencies along with local interests support the update of the IRL-S Draft POM and are anticipating full implementation of the IRL-S Project. A public meeting to discuss this update to the Draft POM for the C-44 RSTA Component of IRL-S Project is scheduled for April 2018.

**c. ATR Disciplines.** As stipulated in ER 1110-1-12, ATR members will be sought from the following sources: regional technical specialists (RTS); appointed subject matter experts (SME) from other districts; senior level experts from other districts; Center of Expertise staff; appointed SME or senior level experts from the responsible district; 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:

**Water Management.** The team member should have 10 or more years of experience in water resources engineering with heavy emphasis on water management. Experience should include preparation and review of water management operating criteria for reservoir/impoundment projects, and knowledge of real-time water control activities based on approved water control plans and regulation schedules at multi-purpose water resource projects. The team member should also be familiar with the regulations concerning the format and content of water control plans and project operating manuals.

**Hydrology and Hydraulics.** One to three team members will be required to review the hydraulic design, hydrologic-hydraulic modeling, and wind/wave analyses. The team member(s) should be registered professionals with 10 or more years of experience in conducting and evaluating hydrologic and hydraulic analyses for flood risk management projects. Experience with flood routing methodologies in reservoirs and channels, seepage flow processes, hydrologic-hydraulic modeling, surface water-groundwater interaction modeling, wind/wave analysis, and performance of risk assessments is required. Knowledge on hydrologic and hydraulic analyses in terms of water quantity and quality in a water resources system is expected. Experience with the Dam Safety Program is desired.

**NEPA Compliance.** The team member should have 7 or more years of experience in NEPA compliance activities and preparation of Environmental Assessments and Environmental Impact Statements for complex civil/site work projects.

**ATR Team Leader.** The ATR Team Leader should have 10 or more years of experience with Civil Works Projects and have performed ATR Team Leader duties on complex civil works projects. The ATR Team Leader should have experience with the Dam Safety Program. The ATR Team Leader can also serve as a reviewer for one of the review disciplines. Professional registration is as a requirement for the ATR leader.

## 5. INDEPENDENT EXTERNAL PEER REVIEW

**a. General.** EC 1165-2-214 provides implementation guidance for 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).

**b. Type I Independent External Peer Review (IEPR) Determination (Section 2034).**

The results of the risk-informed decision indicated that the update of the Draft POM, Preliminary POM, and Final POM for IRL-S Project are not decision documents and that a Type I IEPR is not required.

In addition to the questions and answers listed above in this paragraph of the Review Plan, the following items were considered in making a risk-informed decision concerning Type I IEPR;

- (1) The update of the Draft POM, Preliminary POM, and Final POM for the C-44 RSTA Component of IRL-S Project do not pose a significant threat to human life.
- (2) The cost of update of the Draft POM, Preliminary POM, or Final POM for the C-44 RSTA Component of IRL-S Project do not/will not exceed \$200M.
- (3) No request has been made by the state for an IEPR.
- (4) The update of the Draft POM, Preliminary POM, and Final POM for the C-44 RSTA Component of IRL-S Project has not and is not expected to result in significant public dispute over the size, nature or effects of the change, or the economic or environmental efforts or benefits of the project.
- (5) Models used to evaluate alternative water control strategies have been in widespread use for many years and have been peer reviewed and certified for use. Analyses used to assess the impacts of the proposed update of the Draft POM, Preliminary POM, and Final POM for the C-44 RSTA Component of IRL-S Project did not/will not reflect use of novel methods or use of precedent setting methodologies.
- (6) Based on PDT discussions it has been agreed that the update of the Draft POM, Preliminary POM, and Final POM for the C-44 RSTA Component of IRL-S Project would not significantly benefit from an independent peer review.

Based on the questions, answers and information presented above in this paragraph, the PDT concludes that the update of the Draft POM, Preliminary POM, and Final POM for the C-44 RSTA Component of IRL-S Project would not significantly benefit from an independent peer review and a Type I IEPR is therefore, **not** recommended.

**c. Type II Independent External Peer Review (IEPR) 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 is necessary as stated under Section 2035 along with this Review Plan applicability statement follow.

- (1) The failure to update the Draft POM, Preliminary POM, and Final POM for the C-44 RSTA Component of IRL-S Project would not/will not pose a significant threat to human life. There would not be a significant threat to human life. However, SFWMD could not

maintain vegetation in the STA and the project would not operate during the Construction Phase, OTMP, or long-term without an updated draft POM, Preliminary POM, or Final POM for the C-44 RSTA Component, respectively.

- (2) The project involves the use of innovative materials or techniques. The update of the Draft POM, Preliminary POM, or Final POM for the C-44 RSTA Component of IRL-S Project does not/will not involve the use of innovative materials or techniques. This project will utilize methods and procedures used by the USACE on other similar works.
- (3) The project design contains redundancy. The update of the Draft POM is just for operations during the reservoir construction. The Preliminary POM is just for operations during the OTMP. In the final POM for C-44 Component, there will be redundancy for conveyance provided by operated water management structures.
- (4) The project has a unique construction sequencing or a reduced or overlapping design construction schedule. The update of the Draft POM, Preliminary POM, or Final POM for the C-44 RSTA Component of IRL-S Project does not/will not contain a unique construction sequencing or a reduced or overlapping design construction schedule.

Based on the discussion above, the Jacksonville District Chief of Engineering, as the Engineer-In-Responsible-Charge, does not recommend a Type II IEPR Safety assurance review of the update of the Draft POM, Preliminary POM, or Final POM for the C-44 Component of IRL-S Project.

## **6. MODEL CERTIFICATION AND APPROVAL**

This project does not use any engineering models that have not been approved for use by USACE. Modeling is not associated with the update of the Draft POM, Preliminary POM, or Final POM for the C-44 Component of IRL-S Project.

## **7. BUDGET**

Estimated Budget for DQC review \$10,000.

## **8. PROJECT MILESTONES.**

February 2018	PDT Reviews Updated Draft POM
April 2018	SAD approves Review Plan for the updated Draft POM
April 2018	DQC Review Updated Draft POM
April 2018	Interagency Review of Draft POM
April 2018	Public Meeting/DQC certification
May 2018	SAD approval of updated Draft POM

TBD - Preliminary POM for the C-44RSTA Component

TBD – Final POM for the C-44RSTA Component

A Component

**9. PUBLIC PARTICIPATION.**

A public meeting for updating the Draft POM is scheduled in April 2018. The meeting will be coordinated with SFWMD, the non-federal sponsor.

**10. 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 appropriate) as to the appropriate scope and level of review. Like the PMP, the Review Plan is a living document and may change as the work effort progresses. The Jacksonville District is responsible for keeping the Review Plan up to date. All significant changes to the Review Plan (such as changes to the scope and/or level of review) shall 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 Division Commander's approval memorandum, will be posted on the Jacksonville District's webpage.

**11. POINTS OF CONTACT**

Per guidance, the names of the following individuals **will not** be posted on the Internet with the Review Plan. Their titles and responsibilities are listed below.

Jacksonville District POCs:

Review Plan, SDC and QM Process:

[Redacted]

Project Information:

[Redacted]

Project Manager:

[Redacted]

South Atlantic Division POC:

[Redacted]

