REVIEW PLAN

For

Interim Water Control Plan and Environmental Assessment For Seminole Big Cypress Reservation Water Conservation Plan Critical Project Basin 4

Hendry County, Florida

Jacksonville District

01 October 2012

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1. PURPOSE AND REQUIREMENTS

a. Purpose. This Review Plan defines the scope of review activities for the Interim Water Control Plan and Environmental Assessment (EA) for Seminole Big Cypress Reservation Water Conservation Plan Critical Project (Basin 4). The recommended review activities consist of District Quality Control (DQC).

The water control plan was prepared in accordance with the requirements of ER 1110-2-240, Water Control Management. The related review activities are defined in EC 1165-2-209, Civil Works Review Policy as review for other work products. The other work products category was selected since the water control plan is neither a decision document nor an implementation document. The EC 1165-2-209 Risk Informed Decision process was used to determine the appropriate level of review for the Interim Water Control Plan.

This Interim Water Control Plan will be placed into the Water Conservation Areas, Everglades National Park (ENP) and ENP-South Dade Conveyance System Master Water Control Manual. This Interim Water Control Plan is for implementation prior to operation of Basin 4 of the Seminole Big Cypress Reservation Water Conservation Plan Critical Project and will be updated as other SBC Project Basins are developed.

b. References.

- (1). ER 1110-2-240, Water Control Management, 8 October 1982
- (2). ER 1110-1-12, Engineering and Design Quality Management, 21 July 2006
- (3). EC 1165-2-209, Civil Works Review Policy, 31 January 2010
- (4) ER 200-2-2, Procedures for Implementing NEPA, 4 March 1988

c. Requirements. This review plan was developed in accordance with EC 1165-2-209, 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 work products. The EC outlines three 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 plan that provides 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 conduct 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. A risk-informed decision, as described in EC 1165-2-209, is made as to whether IEPR is appropriate. IEPR panels will consist of independent, recognized experts from outside of the USACE in the appropriate disciplines, representing a balance of areas of expertise suitable for the review being conducted. There are two types of IEPR: Type I is generally for decision documents and Type II is generally for implementation products.

(a) Type I IEPR reviews are managed outside the USACE and are conducted on project studies. Type I IEPR panels assess the adequacy and acceptability of the economic and environmental assumptions and projections, project evaluation data, economic analysis, environmental analyses, engineering analyses, formulation of alternative plans, methods for integrating risk and uncertainty, models used in the evaluation of environmental impacts of proposed projects, and biological opinions of the project study. Type I IEPR will cover the entire decision document or action and will address all underlying engineering, economics, and environmental work, not just one aspect of the study. For decision documents where a Type II IEPR (Safety Assurance Review) is anticipated during project implementation, safety assurance shall also be addressed during the Type I IEPR per EC 1165-2-209.

(b) Type II IEPR. Type II IEPR, or Safety Assurance Review (SAR), are managed outside the USACE and are conducted on design and construction activities for hurricane, storm, and flood risk management projects or other projects where existing and potential hazards pose a significant threat to human life. In accordance with Section 2035 of Water Resources Development Act (WRDA) of 2007 and EC 1165-2-209, a Type II IEPR (SAR) shall be conducted on design and construction activities for hurricane and storm risk management and flood risk management projects, as well as other projects where existing and potential hazards pose a significant threat to human life prior to initiation of physical construction and periodically thereafter until construction activities are completed. IEPR should occur on a regular schedule sufficient to inform the Chief of Engineers on the adequacy, appropriateness, and acceptability of the design and construction activities for the purpose of assuring public health, safety, and welfare.

d. Review Management Organization (RMO). With the exception of District Quality Control, all reviews shall be managed by an office outside the home district and shall be

accomplished by professionals that are not associated with the work that is being reviewed. The USACE district/division managing a particular review effort is designated the RMO for that effort. Different levels of review and reviews associated with different phases of a single project can have a different RMO. The South Atlantic Division (SAD) is designated as the RMO for the Interim Water Control Plan for Seminole Big Cypress Reservation Water Conservation Plan Critical Project (Basin 4).

2. PROJECT INFORMATION AND BACKGROUND

The Seminole Big Cypress Reservation Water Conservation Plan Project (SBC Project) was authorized under Section 528 (b)(3) of the Water Resources Development Act (WRDA) of 1996, P.L. 104-303 (Central and Southern Florida Ecosystem Restoration Critical Project) to improve quality of agricultural water runoff within the reservation; restore storage capacity, and return native vegetation within the Big Cypress Reservation (Reservation). The purpose of the Critical Project is to provide a comprehensive water management system to support sustainable agriculture while contributing to the restoration of the Greater Everglades ecosystem. The Critical Project involves construction and operation of water control and wetlands ecosystem restoration features in four basins identified as Basins 1 through 4 (Figure 1) on the Seminole Big Cypress Reservation. Ecological benefits would consist primarily of water quality and wetland hydroperiod improvements.

Basin 4 Project is currently under construction. The project Design Documentation Report and P&S were prepared by Burns & McDonnell Engineering following USACE procedures and regulations in 2004.

This Interim Water Control Plan contains water management operating criteria for Basin 4 only (Figure 2). The completed network of surface water management structures in the SBC Basin Project is intended to produce the following substantial restoration, preservation, and protection benefits:

- Remove phosphorous and other pollutants from water discharged from Reservation lands flowing to the Everglades Protection Area (EPA).
- Provide the opportunity to restore more natural hydroperiods to wetlands in the Big Cypress National Preserve.
- Restore a more natural hydropattern and hydroperiod in the 14,000 acres of the Native Area, located south of the West Feeder Canal on the Reservation and north of Big Cypress National Preserve.
- Increase water storage capacity.
- Provide improved flood control designed to mimic the historic timing and distribution of flows.

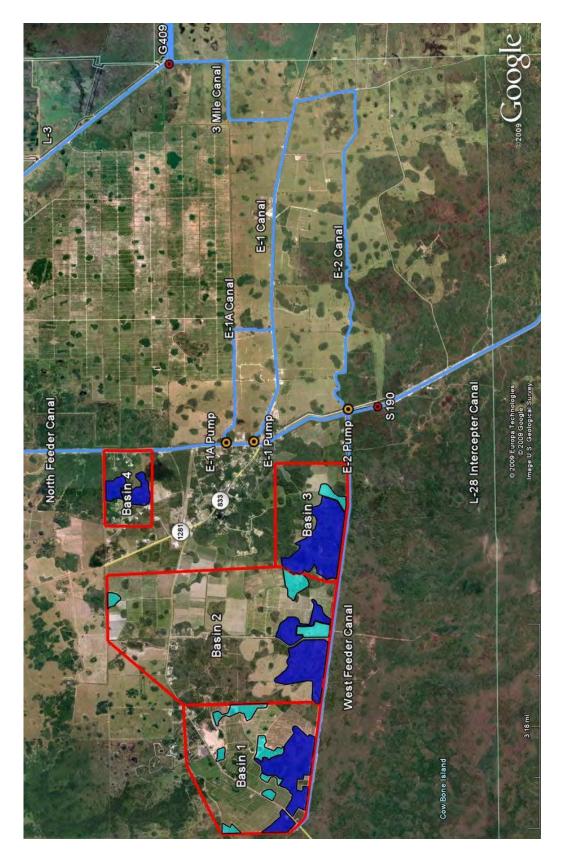


Figure 1: General Location Map



Figure 2: Basin 4 Layout

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 guidance culminate in determinations that the recommendations in the documents and the supporting analyses and coordination comply with law and policy, and warrant approval or further recommendation to higher authority by the home MSC Commander. DQC will augment and complement the policy review processes by addressing compliance with pertinent published Army policies, particularly policies on analytical methods and the presentation of findings in decision documents.

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

The EC 1165-2-209 for review policy directs the team to make a risk informed decision to determine if the documents are decision documents, implementation documents or other work products and the appropriate level of review. District Quality Control is required for all products. The appropriateness of ATR and IEPR are based on the risk informed decision process as presented in this section.

a. District Quality Control (DQC)

District Quality Control and Quality Assurance activities for other work products are stipulated in ER 1110-1-12, Engineering & Design Quality Management and EC 1165-2-209. The Interim Water Control Plan and Environmental Assessment were prepared by the Jacksonville District, will undergo DQC, and will be edited to incorporate DQC comments as appropriate.

b. Agency Technical Review (ATR)

The EC 1165-2-209 for review policy directs the Project Delivery Team (PDT) to make a risk informed decision regarding ATR for other work products (Para 15). Review of the answers to the following questions from Para 15.b indicate that ATR is not warranted for the Interim Water Control Plan and Environmental Assessment. DQC on the Interim Water Control Plan and the Environmental Assessment will be completed.

(1) Does it include any design (structural, mechanical, hydraulic, etc)? No. There is no design work for the Interim Water Control Plan or EA.

(2) Does it evaluate alternatives? Yes. No action and proposed operational changes will be evaluated in the supporting EA on the Interim Water Control Plan for the Seminole Big Cypress Reservation Water Conservation Plan Critical Project, Basin 4. The Corps Regulatory Division completed an Environmental Assessment (EA) and reached a Finding of No Significant Impact (FONSI) in July 1999, followed by the issuance of Permit SAJ-1998-00622 Seminole Tribe of Florida Big Cypress Conservation Plan on July 16, 1999. The EA assess the effects of two proposed actions, the Critical Project sponsored by the Seminole Tribe and the Corps for Basins 1 through 4, and a similar water management project sponsored by the Seminole Tribe and natural resource Conservation Service (NRCS) for Basins 5 through 7. The project with NRCS was not implemented.

(3) Does it include a recommendation? No. A recommendation was made in the EA. This Interim Water Control Plan is consistent with the recommendation made in that EA.

(4) Does it have a formal cost estimate? No.

(5) Does it have or will it require a NEPA document? Yes. An Environmental Assessment will be performed on the current proposed Interim Water Control Plan. Further, an EA was performed in 1999 (See paragraph b(2).

(6) Does it impact a structure or feature of a structure whose performance involves potential life safety risks? No. There is no life safety risk associated with the Interim Water Control Plan.

(7) What are the consequences of non-performance? The consequence of non-performance is the loss of water available for irrigation during dry periods.

(8) Does it support a significant investment of public monies? No.

(9) Does it support a budget request? No.

(10) Does it change the operation of the project? No, the Interim Water Control Plan is for a new project in Basin 4.

(11) Does it involve ground disturbances? No. There is no construction associated with this plan nor will the operations of the system introduce any such disturbances.

(12) Does it affect any special features, such as cultural resources, historic properties, survey markers, etc, that should be protected or avoided? No. The Interim Water Control Plan and EA do not propose any actions that will affect any cultural resource or historic properties or other related appurtenances.

(13) Does it 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 it 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 this plan.

(15) Does it reference use of or reliance on manufacturers' engineers and specifications for items such as prefabricated buildings, playground equipment, etc? No. This work product is operational in nature, no additional infrastructure is proposed in support of the water control criteria.

(16) Does it reference reliance on local authorities for inspection/certification of utility systems like wastewater, stormwater, electrical, etc? No. This work product has no affect on any local utilities for inspection/certification of utility systems. All work will be performed is confined to tribal lands.

(17) Is there or was there expected to be any controversy surrounding the Federal action associated with the work product? No.

c. Independent External Peer Review (IEPR)

EC 1165-2-209 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 the planning, engineering design, construction, and operations and maintenance phase responsibilities. 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. A risk-informed decision, as described in EC 1165-2-209, is made as to whether IEPR is appropriate. IEPR panels will consist of independent, recognized experts from outside of the USACE in the appropriate disciplines, representing a balance of areas of expertise suitable for the review being conducted. There are two types of IEPR:

(1) **Type I Independent External Peer Review (IEPR) Determination (Section 2034).** In addition to the questions and answers in paragraph 4 of this Review Plan, the following items were considered in making the risk-informed decision concerning Type I IEPR:

(a) The operating criteria in the Interim Water Control Plan do not pose a significant threat to human life.

(b) The cost does not exceed \$45M.

(c) No request has been made by the state for an IEPR. There is no request from either the local Native American tribes or the Governor at this time.

(d) There are no deviations requested.

(e) The operating criteria do not involve significant public dispute as to the size, nature, or effects of the Interim Water Control Plan. Although the SFWMD and FDEP has not expressed any concerns with respect to water quality.

(f) The Interim Water Control Plan does not involve significant public dispute as to the economic or environmental cost or benefit.

(g) No models are being used.

Based on the questions and answers presented in Section 4 and the information presented above, the Jacksonville District has determined that there would be no significant benefit from additional independent peer review and have recommended that a Type I IEPR not be required for Basin 4 on the Interim Water Control Plan.

(2) 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 1165-2-209) 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 plans' applicability statement follow.

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

The operations performed under this Interim Water Control Plan do not rise to any level that would warrant concerns for loss of life. This project would not benefit from an IEPR.

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

This project will utilize methods and procedures used by the U.S. Corps of Engineers on other similar works.

(c) The project design lacks redundancy.

The concept of redundancy is not applicable to water control plans.

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

This Interim Water Control Plan does not have or pose unique sequencing or a reduced or overlapping design. The water control plan operation methods and procedures have been used successfully by the U.S. Corps of Engineers on other similar works.

5. MODEL CERTIFICATION AND APPROVAL

The Water Control Plan project does not require use any engineering models that have not been approved for use by U.S. Army Corps of Engineers.

6. BUDGET AND SCHEDULE

Project Milestones.

District Quality Control – November 13, 2012

7. 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 study progresses. The home 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 Commanders' approval memorandum, will be posted on the Jacksonville District's webpage. The latest Review Plan should also be provided to the RMO and home MSC.

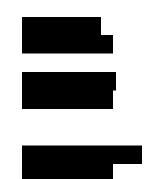
8. REVIEW PLAN POINTS OF CONTACT

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

Jacksonville District POCs:

Project Information:

Project Manager:



South Atlantic Division,