



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

21 FEB 2017

CESAD-RBT

MEMORANDUM FOR COMMANDER, MOBILE DISTRICT

SUBJECT: Approval of the Review Plan for the Tennessee Tombigbee Waterway Management Center, Columbus, Mississippi

1. References:

a. Memorandum, CESAM-EN, 24 January 2017, subject: Review Plan – Tennessee Tombigbee Waterway Management Center, Columbus, Mississippi (Encl).

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

2. The enclosed subject Review Plan (RP) submitted by the Mobile 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 determination of the District Chief of Engineering and conclusion in the RP that a Type II Independent External Peer Review (IEPR) is not required on the Plans and Specifications for this effort. The primary basis for our concurrence that a Type II IEPR is not needed is that the failure or loss of the buildings, utilities, site work in this design and construction effort 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 Mr. James Truelove, CESAD-RBT, 404-562-5121.

C. D. T

Encl

C. DAVID TURNER
Brigadier General, USA
Commanding

CF:

CESAM-EN /Mr. Douglas C. Otto
CESAM-EN-DE/Mr. George V. Poiroux
CESAM-PM-CM/Mr. David P. Newell



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, MOBILE DISTRICT
PO BOX 2298
MOBILE, AL 36628

CESAM-EN

24 JANUARY 2017

MEMORANDUM THRU Commander, U.S. Army Engineer District, Mobile, P.O. Box 2288, Mobile, Alabama 36628 *JAD*

FOR Commander, U.S. Army Engineer Division, South Atlantic (CESAD-RBT/Mr. Christopher Smith), Room 10M15, 60 Forsyth Street, Atlanta, Georgia 30303

SUBJECT: Review Plan - Tennessee Tombigbee Waterway Management Center, Columbus, Mississippi

1. The Review Plan for the Tennessee Tombigbee Waterway Management Center is submitted for your approval.
2. The review plan was prepared in accordance with EC-1165-2-214 and has been approved by the Mobile District's Chief of Engineering.
3. If you have any questions, please contact David Newell PE, Project Manager at (251) 690-2328.

Encl

Digitally signed by
OTTO.DOUGLAS.C.JR.1041723218
DN: c=US, o=U.S. Government,
ou=DoD, ou=PKI, ou=USA,
cn=OTTO.DOUGLAS.C.JR.1041723218
Date: 2017.01.24 13:28:35 -06'00'

DOUGLAS C. OTTO, JR., P.E.
Chief, Engineering Division

REVIEW PLAN

**Tennessee Tombigbee
Waterway Management Center**
Columbus, Mississippi

Mobile District

JANUARY 20, 2017

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, MOBILE DISTRICT. IT DOES NOT REPRESENT AND SHOULD NOT BE CONSTRUED TO REPRESENT ANY AGENCY DETERMINATION OR POLICY.



**US Army Corps
of Engineers®**

Mobile District

REVIEW PLAN
Tennessee Tombigbee
Waterway Management Center
Columbus, Mississippi

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REVIEW PLAN

**Tennessee Tombigbee
Waterway Management Center
Columbus, Mississippi**

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REVIEW PLAN

Tennessee Tombigbee Waterway Management Center Columbus, Mississippi

1. PURPOSE

This Review Plan (RP) is prepared in accordance with EC 11645-2-214. The purpose of this RP is to describe the technical review process for the Tennessee Tombigbee Waterway Management Center (TTWWMC) in Columbus, Mississippi Plans & Specifications (P&S) and Design Documentation Report (DDR). Like the Project Management Plan (PMP), the RP is a living document and may change as the project progresses. The P2# is 353244. Although the design and construction of the TTWWMC will be funded through the Civil Works (CW) Program, the Implementation Products (i.e. P&S for construction of buildings, utilities, site work, etc.) being produced as well as complexity and relative importance of actions being supported are similar to those that are typically produced under the Military Design and Construction Program. Therefore the Quality Control Process the Mobile District typically applies to its Military Design and Construction Program will be utilized to ensure seamless review; quality checks and reviews, PDT reviews, independent technical reviews (ITR) as required in ER 1110-345-100 and discussed in ER 1110-1-12; Biddability, Constructability, Operability, Environmental and Sustainability (BCOES) review; and quality control certification of the Implementation Documents covered by this RP.

2. DESCRIPTION OF PROJECT

The proposed action is to construct a new facility to replace the existing TTWWMC at the Stennis Lock and Dam, Columbus Mississippi. This replacement office complex will support approximately 53 government employees and will continue to serve as the management and maintenance headquarters for the Tennessee Tombigbee Waterway. The current planned space for this new office complex will be approximately 15,500 sf. Additional parking spaces and physical force protection measures will be incorporated into the design. Most of the existing infrastructure will be salvaged, but will be evaluated to insure its operational and size are adequate to support the design of the new building. This project will also include the demolition of the existing facility along with associated site work and landscaping.

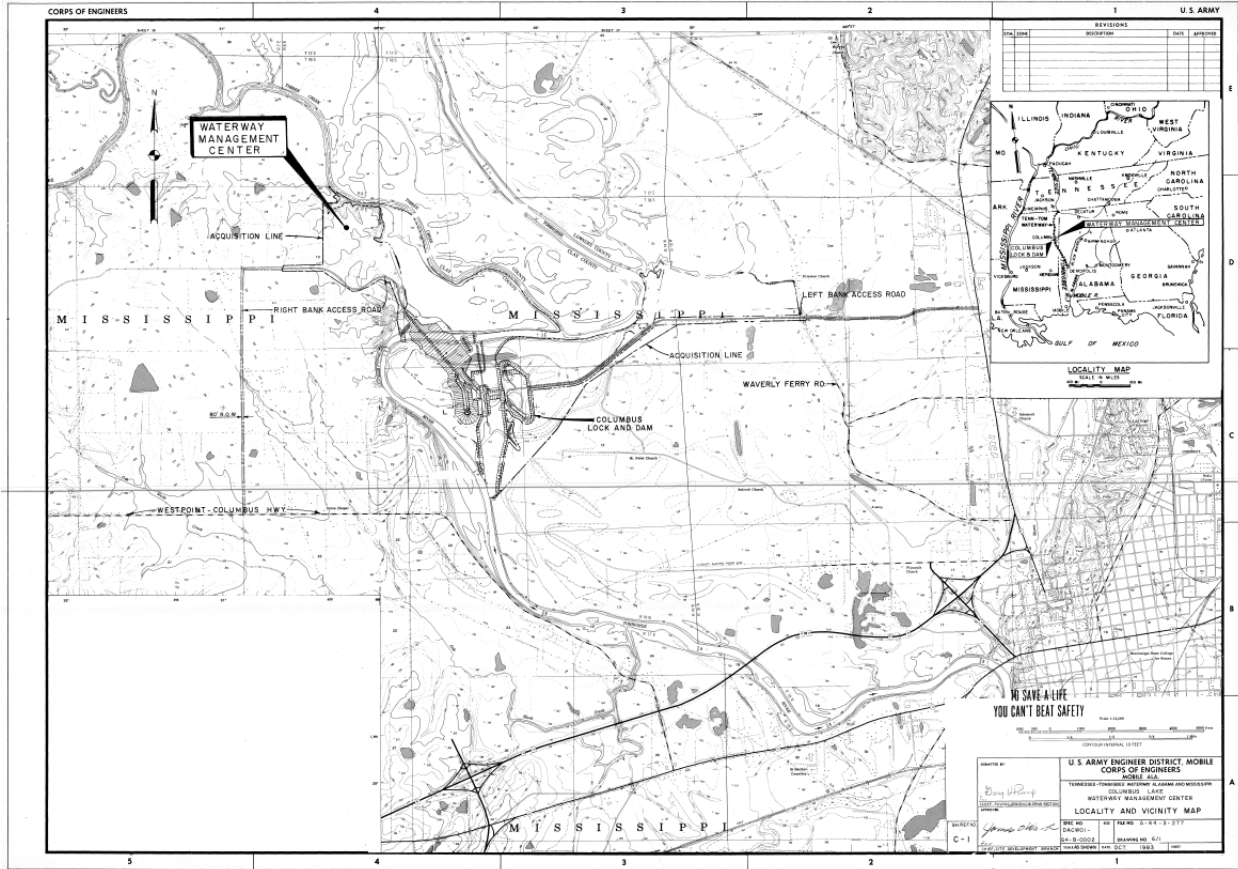


Figure 1 – Vicinity Map

3. DESCRIPTION OF WORK FOR REVIEW

This project is in the Preconstruction Engineering and Design Phase (PED). Products to be reviewed will include P&S and a DDR. The Required reviews will include a District Quality Control (DQC) Review.

4. BACKGROUND

With the goal of identifying Civil Works Construction General Funds required for a potential new TTWMC facility in Columbus, MS, a programming charrette was conducted between 6 April 2011 and 31 May 2011 to document existing facility conditions, determine space requirements, develop programmatic construction and phasing costs, and recommend a proposed facility solution.

While the existing TTWMC is unique in character, it is undersized, does not meet current operating and functional needs, has been consistently difficult to maintain, does not meet current building criteria and codes, and poses potential health and safety issues for occupants and users. The existing facility has exceeded its serviceable life.

Maintenance problems on the existing facility include roof and wall leaks, high interior relative humidity due to moisture and vapor migration to the interior, and heating, ventilating and air conditioning (HVAC) system inefficiencies. These have contributed to growth of mold and mildew, and associated indoor air health concerns. The existing building also does not meet current antiterrorism/force protection (AT/FP) or handicap accessibility criteria.

5. PROJECT DELIVERY TEAM

The Project Delivery Team (PDT) is comprised of those individuals involved directly in the development of the implementation documents. The individual contact information and disciplines of the Mobile District PDT are included in Attachment 1 of this document.

6. LEVELS OF REVIEW

This RP describes the levels of review and the anticipated review process for the various documents to be produced. This RP is a component of the PMP.

7. DISTRICT QUALITY CONTROL REVIEW

The implementation documents to be produced for this effort will undergo DQC review. This is the review of basic science and engineering work products focused on fulfilling the project quality requirements defined in the PMP. DQC will be managed by Mobile District in accordance with ER 1110-1-12, Engineering & Design Quality Management, EC-1165-2-214 and the District Quality Management Plan. The DQC will include quality checks and reviews, supervisory reviews, PDT reviews, and Biddability, Constructability, Operability, Environmental and Sustainability (BCOES) reviews required by ER 1110-1-12. The implementation documents to be reviewed are P&S and the DDR. The PDT is responsible to assure the overall integrity of the documents produced. The DQC review will be completed prior to submitting documents for ITR. DrChecks review software will be used to document the DQC comments, responses, and associated resolutions accomplished throughout the review process.

8. INDEPENDENT TECHNICAL REVIEW

As indicated in ER 1110-345-100, the P&S and DDR will be reviewed by a distinct, highly qualified, interdisciplinary, in-house team specifically selected based on this projects technical requirements.

9. INDEPENDENT EXTERNAL PEER REVIEW

A Type I IEPR is associated with decision documents. A Type I IEPR is not applicable to the implementation documents (DDR and P&S) covered by this review plan. Additionally, the documents addressed by this review plan do not contain technical, scientific or engineering information that is relied upon to support recommendations. A Type I IEPR is not required/recommended. The District Chief of Engineering's has determined that there is no

significant threat to human life associated with these P&S and DDR. Therefore, a neither a Type I nor a Type II IEPR is required/needed on these P&S and DDR.

10. REVIEW MANAGEMENT ORGANIZATION (RMO)

There is no requirement for a RMO for proper execution of the DQC, ITR, BCOES, etc. reviews identified in this Review Plan. Therefore, identification of a RMO is not applicable.

11. POLICY AND LEGAL COMPLIANCE

Preparation of Environmental Assessment (EA) is underway. All environmental compliance (ESA, cultural resources, etc.) will be completed prior to Award.

All contract documents and supporting environmental documents will be reviewed by the Mobile District Office of Counsel prior to final contract award.

12. REVIEW SCHEDULE AND COSTS

The costs for DQC review is estimated to be approximately \$33,600. The documents to be reviewed and scheduled dates for reviews are as follows:

Milestone	Review	Schedule Dates
35% P&S and DDR	DQC, VE	Apr 2017
100% Unreviewed P&S and DDR	DQC, BCOES, ITR	Aug 2017

13. PUBLIC PARTICIPATION

The RP will be made accessible to the public through the Mobile District website link <http://www.sam.usace.army.mil/>. Public review of the RP can begin as soon as it is approved by the Division Commander and posted by the Mobile District. Comments made by the public will be available to the review team.

14. MAJOR SUBORDINATE COMMAND (MSC) APPROVAL

The MSC is responsible for approving the RP. Approval is provided by the MSC Commander. The Commander's approval reflects team input as to the appropriate scope and level of review for the implementation documents. Like the PMP, the RP is a living document and may change as the project progresses. Changes in the RP will be approved by following the process used for initially approving the RP. In all cases the MSC will review decisions on the level of review and any changes made in updates to the project scope.

15. REFERENCES

EC 1165-2-214, Civil Works Review, 15 Dec 2012

ER 1110-1-12, Engineering and Design Quality Management, 21 Jul 2006

ER 1110-2-1150, Engineering and Design for Civil Works Projects, 31 Aug 1999

ER 1110-345-100, Design Policy for Military Construction, 15 Feb 1994

ATTACHMENT 1 – TEAM ROSTER

PROJECT DELIVERY TEAM (PDT)

Discipline	Agency	Team Member Name
Technical Lead	USACE-SAM	George Poiroux
Cost Estimating	USACE-SAM	Allan Annaert
Geotechnical	USACE-SAM	Andrew Hoppes
Environmental (NEPA)	USACE-SAM	Heather Bulger
Real Estate	USACE-SAM	Russell Blount
Architect	USACE-SAM	Jason Cetkosky
Site Engineer	USACE-SAM	Joseph Long
Interior Design	USACE-SAM	Linda Cashman
Mechanical Engineer	USACE-SAM	Ryan Reich
Electrical Engineer	USACE-SAM	Greg Hall
Structural Engineer	USACE-SAM	Juan Ortiz
Water/Wastewater	USACE-SAM	Andrew Patch
Office of Counsel	USACE-SAM	Joe Givhan
Project Manager	USACE-SAM	David Newell

INDEPENDENT TECHNICAL REVIEWER (ITR) TEAM

Title	Agency	Name
Cost Estimating	USACE-SAM	George Brown
Environmental (NEPA)	USACE-SAM	Brian Zettle
Geotechnical	USACE-SAM	Josh Blevins
Architect	USACE-SAM	Mike Childs
Civil/Site Engineer	USACE-SAM	Justin O'Donnell
Interior Design	USACE-SAM	Gary Whigham
Mechanical Engineer	USACE-SAM	Billy Knapp
Electrical Engineer	USACE-SAM	Derrick Collier
Structural Engineer	USACE-SAM	Mike Thompson

ATTACHMENT 2 - ACRONYMS AND ABBREVIATIONS

Term	Definition
ATR	Agency Technical Review
BCOE	Biddability, Constructability, Operability and Environmental Review
CORPS	U.S. Army Corps of Engineers
DQC	District Quality Control
DQC/QA	District Quality Control/Quality Assurance
EA	Environmental Assessment
EC	Engineer Circular
EIS	Environmental Impact Statement
ER	Engineer Regulation
HQUSACE	Headquarters, U.S. Army Corps of Engineers
IEPR	Independent External Peer Review
ITR	Independent Technical Review
MSC	Major Subordinate Command
NEPA	National Environmental Policy Act
OMB	Office and Management and Budget
PDT	Project Delivery Team
PMP	Project Management Plan
QA	Quality Assurance
QC	Quality Control
RMO	Review Management Organization
RMC	Risk Management Center
RP	Review Plan
SAR	Safety Assurance Review
TR	Technical Review
WRDA	Water Resources Development Act