



REPLY TO
ATTENTION OF:

DEPARTMENT OF THE ARMY
MISSISSIPPI VALLEY DIVISION, CORPS OF ENGINEERS
P.O. BOX 80
VICKSBURG, MISSISSIPPI 39181-0080

CEMVD-PD-L

2 JUL '15

MEMORANDUM FOR Commander, Vicksburg District

SUBJECT: Approval of Implementation Review Plan for Yazoo Basin, Mississippi Project Office, Arkabutla Lake, Pratt Road Paving

1. Reference memorandum, CEMVK-OD-M, 18 June 2015, subject as above (encl 1).
2. MVD staff has reviewed the Review Plan and related documents for the subject project. The 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).
3. The subject review plan is approved. The review plan has been coordinated with the Review Management Organization, which concurs (encl 2). Please post the approved Review Plan to your web page.
4. The MVD point of contact for this action is Jamie Triplett, (601) 634-5075.

2 Encls

MICHAEL C. WEHR
Major General, USA
Commanding



DEPARTMENT OF THE ARMY

VICKSBURG DISTRICT, CORPS OF ENGINEERS
4155 CLAY STREET
VICKSBURG, MISSISSIPPI 39183-3435

REPLY TO
ATTENTION OF:

CEMVK-OD-M

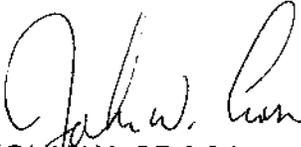
18 JUN 2015

MEMORANDUM FOR CEMVD-PD-L/Jamie Triplett

SUBJECT: Approval of Implementation Review Plan for Yazoo Basin, Mississippi Project Office, Arkabutla Lake, Pratt Road Paving

1. Subject Implementation Review Plan is enclosed for your review and approval (encl 1).
2. A Type I IEPR is not applicable to implementation documents and is therefore not necessary.
3. An explanation of rationale for recommendation to NOT conduct a Type II IEPR (SAR) from CEMVK, Chief of Engineering and Construction, Mr. Henry Dulaney, is enclosed (encl 2).
4. Questions should be directed to Mr. Matt Pierce, Project Manager (662) 712-1214.

2 Encls


JOHN W. CROSS
COL, Corps of Engineers
Commanding

Encl 1

IMPLEMENTATION REVIEW PLAN

YAZOO BASIN, MISSISSIPPI PROJECT OFFICE, ARKABUTLA
LAKE, PRATT ROAD PAVING

Vicksburg District

MSC Approval Date: TBD
Last Revision Date:



US Army Corps
of Engineers ®

IMPLEMENTATION REVIEW PLAN

YAZOO BASIN, MISSISSIPPI PROJECT OFFICE, GRENADA LAKE BERM DITCHES

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1. Purpose and Requirements

a. Purpose. This Review Plan defines the scope and level of peer review for implementation documents developed for the Yazoo Basin, Mississippi Project Office, Arkabutla Lake Pratt Road Paving within the Vicksburg District (CEMVK). Quality Management activities consist of District Quality Control (DQC) and an Agency Technical Review (ATR). This project is in the Design Phase. The related documents are Implementation Documents that consist of Plans and Specifications (P&S) and Design Documentation Report (DDR).

b. References.

- (1) Engineering Circular (EC) 1165-2-214. Civil Works Review, 15 December, 2012.
- (2) EC 1105-2-412, Assuring Quality of Planning Models, 31 March 2011.
- (3) Engineering Regulation (ER) 1110-1-12, Quality Management, 30 September 2006.
- (4) ER 1105-2-100, Planning Guidance Notebook, Appendix H, Policy Compliance Review and Approval of Decision Documents, Amendment #1, 20 November 2007.
- (5) Regional Planning and Environment Division South Quality Management Plan, 10 May 2012.
- (6) ER 1110-2-1150, Engineering and Design for Civil Works Projects, 31 August 1999.
- (7) 08502.1-MVD Review Plan Checklist for Implementation documents (Attachment 1)

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 outlines four general levels of review: however only 2 levels are necessary for this project: The DQC/Quality Assurance and ATR.

2. Review Management Organization (RMO) Coordination.

The RMO is responsible for managing the overall peer review effort described in this Review Plan. The RMO for implementation documents is typically either the Division Headquarters or the Risk Management Center (RMC), depending on the primary purpose of the implementation document. The Mississippi Valley Division (CEMVD) office is the RMO for this project and will coordinate the efforts needed to assemble an ATR team and will approve the Review Plan.

3. Study Information.

a. Arkabutla Lake is a feature of the Mississippi River and Tributaries (MR&T) Project. The Arkabutla Lake Dam is located approximately 4 miles north of the town of Arkabutla, MS. When Arkabutla Lake goes into flood stage, uncontrolled flows go through the overflow channel and cut off the main access, Pratt Road, to the project. A gravel road has been established to reroute traffic during a flood event. This proposed project would put asphalt paving on the existing gravel road and provide a more suitable road surface for all vehicles.

4. Description of Project.

a. **Project Purpose.** The authorized and therefore primary purpose of the Arkabutla Lake Project is to provide flood protection from the Coldwater River to areas in the Lower Mississippi Delta.

b. **Project Location.** Arkabutla Lake is located 4 miles north of the town of Arkabutla, MS in the northwestern part of the state. It is approximately 20 miles southwest of Memphis, TN.

Project Plan. Arkabutla Lake currently has one main access route from the north and west which is Pratt Road. During a flood event, this road becomes impassable due to flood water being released into the overflow channel. ARRA funding was provided to build a bridge in close proximity to the field office that spanned the overflow channel. In FY14, funding was obtained to construct a gravel road from the bridge to Pratt Road which would provide access to the project during a flood event. FY15 funding has been appropriated to place asphalt paving on this road to provide a more suitable road base for all vehicular traffic. Plans are proposed to pave this gravel road. Typical documents will be P&S and DDR. This is a 100% Federal Project and there are no in-kind contributions

5. Factors Affecting the Scope and Level of Review.

Although the P&S and engineering documents covered by this Review Plan are based on routine designs that have been utilized previously, it has been reviewed and screened against the criteria of EC 1165-2-214 to assure the proper levels of review are planned and accomplished. The P&S and the DDR will undergo DQC Reviews and an ATR. Additionally:

No impacts to threatened or endangered species or any adverse impacts on fish and wildlife species or their habitats are expected. The presence of listed species are constantly monitored by USACE and U.S. Fish and Wildlife Service (FWS) biologists, and addressed as necessary in all P&S packages prepared. Additionally, Vicksburg District holds annual environmental meetings to obtain FWS clearance on proposed work.

6. District Quality Control (DQC).

All implementation documents (including supporting data, analyses, environmental compliance documents, etc.) shall undergo DQC. The DQC will be performed at 90 percent and BCOES review. The DQC is an internal review process of basic science and engineering work products

focused on fulfilling the project quality requirements defined in the Project Management Plan (PMP). The Vicksburg District shall manage DQC.

Documentation of DQC. Documentation of DQC activities is required and should be in accordance with the Quality Manual of the District and the home Major Subordinate Command (MSC). The DQC is the review of basic science and engineering work products focused on fulfilling the review of project quality requirements. It will be managed by the Vicksburg District in accordance with the Major Subordinate Command (MSC) and District Quality Management Plan (QMP). The DQC shall be conducted by the Vicksburg District in accordance with EC 1165-2-214. Basic quality control tools provided will include quality checks and reviews, supervisory reviews, PDT reviews, etc. Signed DQC Certification will be provided to the Agency Technical Review (ATR) team members.

Required DQC Review Expertise. Quality checks and reviews will be performed by staff responsible for the work, such as supervisors, work leaders, team leaders, designated individuals from the senior staff, or other qualified personnel. However, they should not be performed by the same people who performed the original work, including managing/reviewing the work in the case of contracted efforts. PDT reviews will be performed by members of the PDT to ensure consistency and effective coordination across all project disciplines. Additionally, the PDT is responsible for a complete reading of any reports and accompanying appendices prepared by or for the PDT to assure the overall coherence and integrity of the report, technical appendices, and the recommendations before approval by the District Commander. A copy of QCPs for each product will be distributed to each member of the Quality Assurance/Technical Review Team. The team will be comprised of the selected disciplines that have experience in the type of analysis in which they are responsible for reviewing. The makeup of the review team may be modified as the work progresses to meet review requirements.

Products to Undergo DQC. All implementation documents are required to undergo DQC, regardless of the originating organization (Planning Engineering, Construction, or Operations). Products to undergo DQC for this project are the plans and specification and DDRs developed for the project efforts.

7. Agency Technical Review (ATR).

The ATR is mandatory for all implementation documents. The ATR will assess whether the analyses presented are technically correct and comply with published Corps guidance, and the document explains the analyses and results in a reasonably clear manner for the public and decision makers. ATR is managed within USACE by the designated RMO and is conducted by a qualified team from outside the home district that is not involved in the day-to-day production of the project/product. ATR teams will be comprised of senior USACE personnel and may be supplemented by outside experts as appropriate. The ATR team lead will be from outside the home MSC.

a. Products to Undergo ATR. All implementation documents are required to undergo ATR, regardless of the originating organization (Planning Engineering, Construction, or

Operations). Products to undergo ATR for this project are the plans and specification and DDRs developed for the project efforts.

b. Required ATR Team Expertise. Table 1 depicts the ATR team members and the expertise required for their position.

TABLE 1
ATR TEAM MEMBERS AND EXPERTISE

ATR Team Members/Disciplines	Expertise Required
ATR Lead	The ATR lead should be a senior professional with extensive experience in preparing implementation documents and conducting ATR. The lead should also have the necessary skills and experience to lead a virtual team through the ATR process. The ATR lead may also serve as a reviewer for a specific discipline (such as planning, design, economics, environmental resources, etc).
Civil Engineer	Team member will have a thorough understanding roadway design and pavement surfacing. A certified professional engineer is recommended, but not required. The reviewer should have experience applying construction design standards and qualifications.

c. Documentation of ATR. DrChecks review software will be used to document all ATR comments, responses, and associated resolutions accomplished throughout the review process. Comments should be limited to those that are required to ensure adequacy of the product. The four key parts of a quality review comment will normally include:

(1) The review concern – Identify the product’s information deficiency or incorrect application of policy, guidance, or procedures;

(2) The basis for the concern – Cite the appropriate law, policy, guidance, or procedure that has not been properly followed;

(3) The significance of the concern – Indicate the importance of the concern with regard to its potential impact on the plan selection, recommended plan components, efficiency (cost), effectiveness (function/outputs), implementation responsibilities, safety, Federal interest, or public acceptability; and

(4) The probable specific action needed to resolve the concern – Identify the action(s) that the reporting officers must take to resolve the concern.

In some situations, especially addressing incomplete or unclear information, comments may seek clarification in order to then assess whether further specific concerns may exist.

The ATR documentation in DrChecks will include the text of each ATR concern, the PDT response, a brief summary of the pertinent points in any discussion, including any vertical team coordination (the vertical team includes the District, RMO, MSC, and HQUSACE), and the agreed upon resolution. If an ATR concern cannot be satisfactorily resolved between the ATR team and the PDT, it will be elevated to the vertical team for further resolution in accordance with the policy issue resolution process described in either ER 1110-1-12 or ER 1105-2-100,

Appendix H, as appropriate. Unresolved concerns can be closed in DrChecks with a notation that the concern has been elevated to the vertical team for resolution.

At the conclusion of each ATR effort, the ATR team will prepare a Review Report summarizing the review. Review Reports will be considered an integral part of the ATR documentation and shall:

- Identify the document(s) reviewed and the purpose of the review;
- Disclose the names of the reviewers, their organizational affiliations, and include a short paragraph on both the credentials and relevant experiences of each reviewer;
- Include the charge to the reviewers;
- Describe the nature of their review and their findings and conclusions;
- Identify and summarize each unresolved issue (if any); and
- Include a verbatim copy of each reviewer's comments (either with or without specific attributions), or represent the views of the group as a whole, including any disparate and dissenting views.

The ATR may be certified when all ATR concerns are either resolved or referred to the vertical team for resolution and the ATR documentation is complete. The ATR Lead will prepare a Statement of Technical Review certifying that the issues raised by the ATR team have been resolved (or elevated to the vertical team). A sample Statement of Technical Review is included in Attachment 2.

8. Independent External Peer Review (IEPR).

A Type I IEPR is not applicable to implementation documents and is therefore not necessary. An explanation of rationale for recommendation not to conduct a Type II IEPRSAR has been submitted. The 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 the Corps is warranted. A risk-informed decision, as described in EC 1165-2-214, is made as to whether IEPR is appropriate. The IEPR panels will consist of independent, recognized experts from outside the Corps in the appropriate disciplines, representing a balance of areas of expertise suitable for the review being conducted.

a. Decision on IEPR. For those projects where the PDT is unsure whether IEPR would be required, based primarily on the criteria of significant threats to human life/safety, the following checklist of items developed from EC-1165-2-214, Appendix D, has been covered to assist the Vertical Team in the decision making for the need of an IEPR. Based on the items below, it has been determined that a Type I or II IEPR is not needed for this project.

(1) Should failure or project design exceedance occur, no major life safety related issues or consequences have been identified. Safety assurance factors are described in Engineer Circular 1165-2-214.

(2) Total project cost is not >\$45 million.

(3) No requests have been made by the State Governors from Mississippi that is economically or environmentally affected as a consequence of the project.

(4) No requests have been made by the head of any Federal or state agency regarding impacts on the environment, cultural, or other resources.

(5) There have been no significant public disputes as to the size, nature, or effects of the project.

(6) Project improvements include basic structure improvements and flood risk management. No significant public disputes as to the economic or environmental cost or benefit of the project have been received.

(7) The project is not based on novel methods, or does it present complex challenges for interpretation, contain precedent-setting methods or models, or present conclusions that are likely to change prevailing practices.

(8) All procedures were based on approved Corps methods based on ER 1105-2-100 and supporting regulations.

9. Model Certification and Approval.

Engineering Circular 1105-2-412 mandates the use of certified or approved models for all engineering activities to ensure the models are technically and theoretically sound, compliant with Corps policy, computationally accurate, and based on reasonable assumptions.

Engineering Circular 1105-2-412 does not cover engineering models used in implementation. The responsible use of well-known and proven Corps developed and commercial engineering software will continue and the professional practice of documenting the application of the software and modeling results will be followed. As part of the Corps Scientific and Engineering Technology (SET) Initiative, many engineering models have been identified as preferred or acceptable for use on Corps studies and these models should be used whenever appropriate. The selection and application of the model and the input and output data is still the responsibility of the users and is subject to DQC, ATR, and IEPR (if required).

Engineering Models. Table 2 depicts the engineering models that may be used during Plans and Specifications.

TABLE 2
ENGINEERING MODELS

Non-Planning Model	Version	Certified	Approval Date/Status	Description	Use
Cost Engineering					
MCACES		X		Microcomputer-Aided Cost Estimation System	Used to generate detailed cost estimates for each alternative.

10. Review Schedules and Costs.

TABLE 3
REVIEW SCHEDULES

Item	Schedule
95% District Office Review Start	TBD
Plans and Specifications Complete	TBD
MVD approves ATR Team	TBD
Charge approved by PDT and ATR Team	Date of funding from CEMVK-OD-MP
Review documents and charge sent to ATR Team	Date of funding from CEMVK-OD-MP
ATR DrChecks comments complete	+14 days
PDT DrChecks evaluations complete	+7 days
ATR back checks complete; DrChecks closed	+14 days
ATR certification form signed	+7 days
ATR final report complete	+7 days
Report sent to MVD for approval	+2 days
Report approved by MVD	+7 days

TABLE 4
REVIEW COST

Discipline	Estimated Labor Cost
ATR Team Lead	\$5,000
Supporting Disciplines	1 @ \$5,000 ea. = \$5,000
TOTAL	\$10,000

11. Public Participation.

The P&S and engineering documents covered by this Review Plan are based on routine designs that have been utilized previously; there will be no public review period on the implementation documents.

12. Review Plan Approval and Updates.

The CEMVD 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 for the implementation document. Like the PMP, the Review Plan is a living document and may change as the project progresses. The Vicksburg District is responsible for keeping the Review Plan up-to-date. Any minor changes to the review plan since the last MSC Commander approval will be documented in Attachment 3. Significant changes to the Review Plan (such as changes to the scope and/or level of review) should be re-approved by the MSC Commander following the process used for initially approving the plan. The latest version of the Review Plan, along with the Commanders' approval memorandum, should be posted on the Vicksburg District's webpage at <http://www.myk.usace.army.mil/Missions/CivilWorks/PeerReviewPlans.aspx>. The latest Review Plan should also be provided to the RMO and home MSC.

13. Review Plan Points of Contact.

Questions and/or comments on this review plan can be directed to Operations Project Manager, Matt Pierce, Sardis Project Office (662) 712-1214, Jamie Triplett, District Support Team (601) 634-5075, and Mike Turner, RMO (601) 634-5922.

REQUIREMENT	REFERENCE	EVALUATION
<p>f. Does it list the names and disciplines in the home district, MSC and RMO to whom inquiries about the plan may be directed?*</p> <p><i>*Note: It is highly recommended to put all team member names and contact information in an appendix for easy updating as team members change or the RP is updated.</i></p>	<p>EC 1165-2-214, Appendix B, Para 4a</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>2. Documentation of risk-informed decisions on which levels of review are appropriate.</p> <p>a. Does it succinctly describe the three levels of peer review: District Quality Control (DQC), Agency Technical Review (ATR), and Independent External Peer Review (IEPR)?</p> <p>b. Does it contain a summary of the CW implementation products required?</p> <p>c. DQC is always required. The RP will need to address the following questions:</p> <p>i. Does it state that DQC will be managed by the home district in accordance with the Major Subordinate Command (MSC) and district Quality Management Plans?</p>	<p>EC 1165-2-214, Appendix B, Para 4b</p> <p>EC 1165-2-214 Para 7a</p> <p>EC1165-2-214 Para 15</p> <p>EC1165-2-214 Para 15a</p> <p>EC1165-2-214 Para 8a</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>ii. Does it list the DQC activities (for example, 35, 65, 95, BCOE reviews, etc)</p> <p>iii. Does it list the review teams who will perform the DQC activities?</p> <p>iv. Does it provide tasks and related resource funding and schedule showing when the DQC activities will be performed?</p> <p>d. Does it assume an ATR is required and if an ATR is not required does it provide a risk based decision of why it is not required? If an ATR is required the RP will need to address the following questions:</p> <p>i. Does it identify the ATR District, MSC, and RMO points of contact?</p> <p>ii. Does it identify the ATR lead from outside the home MSC?</p>	<p>EC 1165-2-214 Appendix B (1)</p> <p>EC 1165-2-214 Appendix B, Para 4g</p> <p>EC 1165-2-214 Appendix B, Para 4c</p> <p>EC1165-2-214 Para 15^a</p> <p>EC 1165-2-214 Para 7^a</p> <p>EC 1165-2-214 Para 9c</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p> <p>Click here to enter text.</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>

REQUIREMENT	REFERENCE	EVALUATION
<p>iii. Does it provide a succinct description of the primary disciplines or expertise needed for the review (not simply a list of disciplines)? If the reviewers are listed by name, does the RP describe the qualifications and years of relevant experience of the ATR team members?*</p> <p><i>*Note: It is highly recommended to put all team member names and contact information in an appendix for easy updating as team members change or the RP is updated.</i></p> <p>iv. Does it provide tasks and related resource, funding and schedule showing when the ATR activities will be performed?</p> <p>v. Does the RP address the requirement to document ATR comments using Dr Checks?</p> <p>e. Does it assume a Type II IEPR is required and if a Type II IEPR is not required does it provide a risk based decision of why it is not required including RMC/ MSC concurrence? If a Type II IEPR is required the RP will need to address the following questions:</p> <p>i. Does it provide a defensible rationale for the decision on Type II IEPR?</p> <p>ii. Does it identify the Type II IEPR District, MSC, and RMO points of contact?</p>	<p>EC 1165-2-214 Appendix B, Para 4g</p> <p>EC 1165-2-214 Appendix C, Para 3e</p> <p>EC 1165-2-214 Para 7d (1)</p> <p>EC 1165-2-214 Para 15a</p> <p>EC 1165-2-214 Para 7a</p> <p>EC 1165-2-214 Appendix B, Para 4a</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p>
<p>iii. Does it state that for a Type II IEPR, it will be contracted with an A/E contractor or arranged with another government agency to manage external to the Corps of Engineers?</p> <p>iv. Does it state for a Type II IEPR, that the selection of IEPR review panel members will be made up of independent, recognized experts from outside of the USACE in the appropriate disciplines, representing a balance of expertise suitable for the review being conducted?</p>	<p>EC 1165-2-214 Appendix B, Para 4k (4)</p> <p>EC 1165-2-214 Appendix B, Para 4k(1) and Appendix E, Para's 1a & 7</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p>

REQUIREMENT	REFERENCE	EVALUATION
<p>v. Does it state for a Type II IEPR, that the selection of IEPR review panel members will be selected using the National Academy of Science (NAS) Policy which sets the standard for "independence" in the review process?</p> <p>vi. If the Type II IEPR panel is established by USACE, has local (i.e. District) counsel reviewed the Type II IEPR execution for FACA requirements?</p> <p>vii. Does it provide tasks and related resource, funding and schedule showing when the Type II IEPR activities will be performed?</p> <p>viii. Does the project address hurricane and storm risk management or flood risk management or any other aspects where Federal action is justified by life safety or significant threat to human life?</p>	<p>EC 1165-2-214 Para 6b (4) and Para 10b</p> <p>EC 1165-2-214 Appendix E, Para 7c(1)</p> <p>EC 1165-2-214 Appendix E, Para 5a</p> <p>EC 1165-2-214 Appendix E, Para 2</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p>
<p>Is it likely? If yes, Type II IEPR must be addressed.</p> <p>ix. Does the RP address Type II IEPR factors? Factors to be considered include:</p> <ul style="list-style-type: none"> • Does the project involve the use of innovative materials or techniques where the engineering is based on novel methods, presents complex challenges for interpretations, contains precedent setting methods or models, or presents conclusions that are likely to change prevailing practices? • Does the project design require redundancy, resiliency and robustness • Does the project have unique construction sequencing or a reduced or overlapping design construction schedule; from example, significant project features accomplished using the Design-Build or Early Contractor Involvement (ECI) delivery systems. <p>f. Does it address policy compliance and legal review? If no, does it provide a risk based decision of why it is not required?</p>	<p></p> <p>EC 1165-2-214 Para 14</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>

REQUIREMENT	REFERENCE	EVALUATION
<p>3. Does the RP present the tasks, timing, and sequence of the reviews (including deferrals)?</p> <p>a. Does it provide an overall review schedule that shows timing and sequence of all reviews?</p> <p>b. Does the review plan establish a milestone schedule aligned with the critical features of the project design and construction?</p>	<p>EC 1165-2-214, Appendix B, Para 4c</p> <p>EC 1165-2-214, Appendix C, Para 3g</p> <p>EC 1165-2-214, Appendix E, Para 6c</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>4. Does the RP address engineering model certification requirements?</p> <p>a. Does it list the models and data anticipated to be used in developing recommendations?</p> <p>b. Does it indicate the certification /approval status of those models and if certification or approval of any model(s) will be needed?</p> <p>c. If needed, does the RP propose the appropriate level of certification/approval for the model(s) and how it will be accomplished?</p>	<p>EC 1165-2-214, Appendix B, Para 4i</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>
<p>5. Does the RP explain how and when there will be opportunities for the public to comment on the study or project to be reviewed?</p> <p>a. Does it discuss posting the RP on the District website?</p>	<p>EC 1165-2-214, Appendix B, Para 4d</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>
<p>b. Does it indicate the web address, and schedule and duration of the posting?</p>		<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>
<p>6. Does the RP explain when significant and relevant public comments will be provided to the reviewers before they conduct their review?</p> <p>a. Does it discuss the schedule of receiving public comments?</p>	<p>EC 1165-2-214, Appendix B, Para 4e</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p>

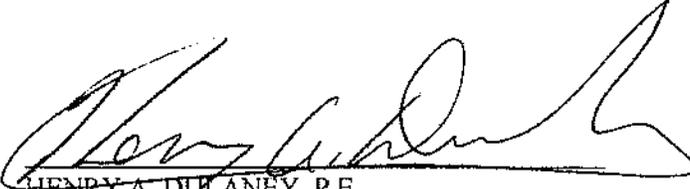
REQUIREMENT	REFERENCE	EVALUATION
<p>b. Does it discuss the schedule of when significant comments will be provided to the reviewers?</p>		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<p>7. Does the RP address whether the public, including scientific or professional societies, will be asked to nominate professional reviewers?*</p> <p>a. If the public is asked to nominate professional reviewers then does the RP provide a description of the requirements and answer who, what, when, where, and how questions? <i>* Typically the public will not be asked to nominate potential reviewer</i></p>	<p>EC 1165-2-214, Appendix B, Para 4h</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p>
<p>8. Does the RP address expected in-kind contributions to be provided by the sponsor?</p> <p>a. If expected in-kind contributions are to be provided by the sponsor, does the RP list the expected in-kind contributions to be provided by the sponsor?</p>	<p>EC 1165-2-214, Appendix B, Para 4j</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p>
<p>9. Does the RP explain how the reviews will be documented?</p> <p>a. Does the RP address the requirement to document ATR comments using Dr Checks and Type II IEPR published comments and responses pertaining to the design and construction activities summarized in a report reviewed and approved by the MSC and posted on the home district website?</p> <p>b. Does the RP explain how the Type II IEPR will be documented in a Review Report?</p> <p>c. Does the RP document how written responses to the Type II IEPR Review Report will be prepared?</p>	<p>EC 1165-2-214, Para 7d</p> <p>EC 1165-2-214 Appendix B, Para 4k (14)</p> <p>EC 1165-2-214 Appendix B, Para 4k (14)</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p>
<p>d. Does the RP detail how the district/PCX/MSD and CECW-CP will disseminate the final Type II IEPR Review Report, USACE response, and all other materials related to the Type II IEPR on the internet?</p>	<p>EC 1165-2-214 Appendix B, Para 5</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p>

REQUIREMENT	REFERENCE	EVALUATION
10. Has the approval memorandum been prepared and does it accompany the RP?	EC 1165-2-214, Appendix B, Para 7	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

RECOMMENDATION REGARDING TYPE II IEPR (SAR)

Based on the above assessment, it is the risk-informed recommendation of the Project Delivery Team and the Chief of Engineering and Construction that Type II IEPR (SAR) is NOT required for this project.

The decision to not conduct a Type II IEPR (SAR) is recommended by:

 6/2/15
HENRY A. DILLANEY, P.E. Date
Chief, Engineering and Construction
Division

The above recommendation is Approved Disapproved by

Signature of RMO Date

ATTACHMENT 2: SAMPLE STATEMENT OF TECHNICAL REVIEW FOR IMPLEMENTATION DOCUMENTS

COMPLETION OF AGENCY TECHNICAL REVIEW

The Agency Technical Review (ATR) has been completed for the <type of product> for <project name and location>. The ATR was conducted as defined in the project's Review Plan to comply with the requirements of EC 1165-2-214. 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 DrCheckssm.

SIGNATURE

Name

ATR Team Leader

Office Symbol/Company

Date

SIGNATURE

Name

Project Manager

Office Symbol

Date

SIGNATURE

Name

Review Management Office Representative

Office Symbol

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.

SIGNATURE

Name

Chief, Engineering Division

Office Symbol

Date

SIGNATURE

Name

Chief, Planning Division

Office Symbol

Date

¹ Only needed if some portion of the ATR was contracted

ATTACHMENT 3: REVIEW PLAN REVISIONS

Revision Date	Description of Change	Page / Paragraph Number

ATTACHMENT 4: TEAM ROSTERS

PDT/DOC ROSTER

NAME¹	DISTRICT / ORGANIZATION	DISCIPLINE
Matt Pierce	Project Manager	CEMVK-OD-MM
Rob Green	Civil	CEMVK-EC-DC
Randy McAlpin	Civil	CEMVK-EC-DC
Ray Wilson	Hydraulics	CEMVK-ED-HD
Brian Johnson	Hydraulics	CEMVK-ED-HH
Matthew Parrish	Hydraulics	CEMVK-EC-HW
Andy Hardy	Geotechnical	CEMVK-EC-GA
Jonathan Boone	Construction	CEMVK-EC-CQ
Jason Overstreet	Construction	CEMVK-EC-EG

ATR TEAM ROSTER

Name	Function	Office
TBD	ATR Lead	TBD
TBD	Civil Engineer	TBD

ATTACHMENT 5: ACRONYMS AND ABBREVIATIONS

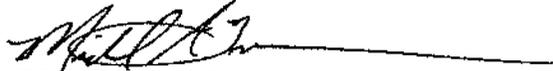
<u>Term</u>	<u>Definition</u>	<u>Term</u>	<u>Definition</u>
AFB	Alternative Formulation Briefing	NED	National Economic Development
ASA(CW)	Assistant Secretary of the Army for Civil Works	NER	National Ecosystem Restoration
ATR	Agency Technical Review	NEPA	National Environmental Policy Act
CSDR	Coastal Storm Damage Reduction	O&M	Operation and maintenance
DPR	Detailed Project Report	OMB	Office and Management and Budget
DQC	District Quality Control/Quality Assurance	OMRR&R	Operation, Maintenance, Repair, Replacement and Rehabilitation
DX	Directory of Expertise	OEO	Outside Eligible Organization
EA	Environmental Assessment	OSE	Other Social Effects
EC	Engineer Circular	PCX	Planning Center of Expertise
EIS	Environmental Impact Statement	PDT	Project Delivery Team
EO	Executive Order	PAC	Post Authorization Change
ER	Ecosystem Restoration	PMP	Project Management Plan
FDR	Flood Damage Reduction	PL	Public Law
FEMA	Federal Emergency Management Agency	QMP	Quality Management Plan
FRM	Flood Risk Management	QA	Quality Assurance
FSM	Feasibility Scoping Meeting	QC	Quality Control
GRR	General Reevaluation Report	RED	Regional Economic Development
Home District/MSD	The District or MSD responsible for the preparation of the decision document	RMC	Risk Management Center
HQUSACE	Headquarters, U.S. Army Corps of Engineers	RMO	Review Management Organization
IEPR	Independent External Peer Review	RTS	Regional Technical Specialist
ITR	Independent Technical Review	SAR	Safety Assurance Review
LRR	Limited Reevaluation Report	USACE	U.S. Army Corps of Engineers
MR&T	Mississippi River & Tributaries	WRDA	Water Resources Development Act
MSD	Major Subordinate Command	YMDJWQD	Yazoo Mississippi Delta Joint Water Control District

23 Jun 2015

MEMORANDUM FOR CEMVD-PD-L (Rayford Wilbanks)

SUBJECT: Implementation Review Plan (RP) for Yazoo Basin,
Mississippi Project Office, Arkabutla Lake, Pratt Road Paving

1. Reference documents, subject as above.
2. RB-T comments were submitted, and all comments were satisfactorily incorporated. Comments and final review plan are attached.
3. This office concurs with subject review plan.
4. RB-T point of contact is Scott Stewart, 601-634-5883.


MICHAEL A. TURNER, P.E.
Chief, Business Technical
Division