



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

REPLY TO  
ATTENTION OF:

**29 MAR 2011**

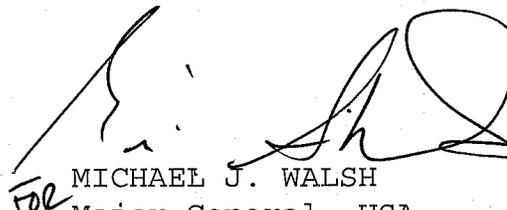
CEMVD-PD-SP

MEMORANDUM FOR Commander, Rock Island District

SUBJECT: Review Plan Approval for Edwards River, Sewage Lagoons, CAP Section 14, Mercer County, Matherville, IL

1. Reference memorandum, CEMVR-PD-F, 18 February 2011, subject: Continuing Authorities Program (CAP) Section 14 Edwards River, Sewage Lagoons, Mercer County, Matherville, IL Review Plan (encl 1).
2. The enclosed Review Plan (encl 2) is a combined decision document and implementation document review plan. It includes the MVD Review Plan Checklist for CAP and has been prepared in accordance with EC 1165-2-209. The Review Plan has been coordinated between the Business Technical Division and the Upper District Support Team.
3. I hereby approve the Edwards River, Sewage Lagoons, Section 14 Project Review Plan, which complies with all applicable policy, engineering and environmental analyses, and other aspects of plan development. Non-substantive changes to this Review Plan do not require further approval. The District should post the approved Review Plan to its web site.
4. The MVD point of contact is Ms. Elizabeth Ivy, CEMVD-PD-SP, (601) 634-5310.

2 Encls

*FOR*  


MICHAEL J. WALSH  
Major General, USA  
Commanding

COL, Eng  
DEPUTY CDR



REPLY TO  
ATTENTION OF

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS, ROCK ISLAND DISTRICT  
PO BOX 2004 CLOCK TOWER BUILDING  
ROCK ISLAND, ILLINOIS 61204-2004

CEMVR-PD-F

18 FEB 2011

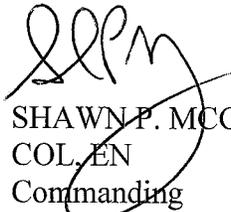
MEMORANDUM FOR Commander, US Army Corps of Engineers, Mississippi Valley Division (CEMVD-PD-SP/Ivy), PO Box 80, 1400 Walnut Street, Vicksburg, MS 39181-0080

SUBJECT: Continuing Authorities Program (CAP) Section 14 Edwards River, Sewage Lagoons, Mercer County, Matherville, IL Review Plan

1. The subject CAP Review Plan (encl 1) and Mississippi Valley Division (MVD) Review Plan Checklist (encl 2) for Edwards River, Sewage Lagoons Feasibility Study is submitted for your review and approval. An electronic copy of the subject CAP Review Plan and MVD Review Plan Checklist has been sent to Ms. Elizabeth Ivy, CEMVD-PD-SP.

2. The points of contact at the Rock Island District are: Mrs. Monique Savage, Study Manager, (309) 794-5342, or e-mail: [Monique.e.savage@usace.army.mil](mailto:Monique.e.savage@usace.army.mil), or Mr. Tom Heinold, Flood Risk Management Program Manager, (309) 794-5203, or e-mail: [Thomas.d.heinold@usace.army.mil](mailto:Thomas.d.heinold@usace.army.mil).

2 encls  
as

  
SHAWN P. MCGINLEY  
COL, EN  
Commanding

**REVIEW PLAN  
FOR  
CONTINUING AUTHORITIES PROGRAM  
SECTION 14**

**EDWARDS RIVER, SEWAGE LAGOONS, MERCER COUNTY, MATHERVILLE, IL  
SECTION 14 PROJECT**

**P2: 324837  
Rock Island District**

**Major Subordinate Command Approval Date:  
Last Revision Date: none**

## REVIEW PLAN

### EDWARDS RIVER, SEWAGE LAGOONS, MERCER COUNTY, MATHERVILLE, IL SECTION 14 PROJECT

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## REVIEW PLAN

### EDWARDS RIVER, SEWAGE LAGOONS, MERCER COUNTY, MATHERVILLE, IL SECTION 14 PROJECT

#### 1. PURPOSE AND REQUIREMENTS

**A. Purpose.** This Review Plan (RP) defines the scope and level of peer review for the *Edwards River, Sewage Lagoons, Mercer County, Matherville, IL Section 14 Project* (Project) products. Products for review include a Project factsheet; an environmental and cultural assessment; a cost estimate; an economic analysis; a hydraulic and hydrologic analysis; a geotechnical analysis; a real estate plan; and drawings and specifications.

Section 14 of the Flood Control Act of 1946, as amended, authorizes the US Army Corps of Engineers (Corps) to study, design and construct emergency streambank and shoreline works to protect public services including, but not limited to, streets, bridges, schools, water and sewer lines, National Register sites, and churches from damage or loss by natural erosion. It is a Continuing Authorities Program (CAP) which focuses on water resource related projects of relatively smaller scope, cost and complexity. Traditional Corps Civil Works projects are of wider scope and complexity and are specifically authorized by Congress. The CAP is a delegated authority to plan, design, and construct certain types of water resource and environmental restoration projects without specific Congressional authorization. Additional information on the CAP can be found in Engineering Regulation (ER) 1105-2-100, Planning Guidance Notebook, Appendix F.

**B. Applicability.** This RP is based on the Director of Civil Works' Policy Memorandum #1, *Continuing Authority Program Planning Process Improvements*, dated January 19, 2011, which modifies EC 1165-2-209, where applicable, to CAP projects. Per the Policy Memorandum, Section 14 projects are excluded from Independent External Peer Review (IEPR) if *all* of the following criteria are met:

- the project does not involve a significant threat to human life/safety assurance;
- the total project cost is less than \$45 million;
- there is no request by the Governor of an affected state for a peer review by independent experts;
- the project does not require an Environmental Impact Statement (EIS),
- the project/study is not likely to involve significant public dispute as to the size, nature, or effects of the project;
- the project/study is not likely to involve significant public dispute as to the economic or environmental cost or benefit of the project;
- the information in the decision document or anticipated project design is not likely to be based on novel methods, involve the use of innovative materials or techniques, present complex challenges for interpretation, contain precedent-setting methods or models, or present conclusions that are likely to change prevailing practices;
- the project design is not anticipated to require redundancy, resiliency, and/or robustness, unique construction sequencing, or a reduced or overlapping design construction schedule; and
- there are no other circumstances where the Chief of Engineers or Director of Civil Works determines Type I IEPR is warranted

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Approval of the RP for a CAP Section 14 is determined by the home Major Subordinate Command (MSC). An RP for the Project will be developed and approved prior to execution of a Feasibility Cost Sharing Agreement for the study. In accordance with EC 1165-2-209 and higher headquarters' guidance, Section 14 projects are excluded from both Type I and Type II IEPR.

**C. References**

- Engineering Circular (EC) 1165-2-209, Civil Works Review Policy, 31 Jan 2010
- Director of Civil Works Policy Memorandum #1, Continuing Authority Program Planning Process Improvements, 19 Jan 2011
- ER 1110-1-12, Quality Management, 30 Sep 2006
- ER 1105-2-100, Planning Guidance Notebook, Appendix F, Continuing Authorities Program, Amendment #2, 31 Jan 2007
- ER 1105-2-100, Planning Guidance Notebook, Appendix H, Policy Compliance Review and Approval of Decision Documents, Amendment #1, 20 Nov 2007
- ER 415-1-11, Biddability, Constructibility, Operability, and Environmental Review, 1 Sep 1994
- Approved Project Management Plan (PMP) for Edwards River, Sewage Lagoons, Mercer County, Matherville, IL

**D. Requirements.** This RP 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. The EC outlines four general levels of review: District Quality Control (DQC)/Quality Assurance; ATR; IEPR; and Policy and Legal Compliance Review. In addition to these levels of review, decision documents are subject to cost engineering review and certification (EC 1165-2-209). Per Director of Civil Works Policy Memorandum #1, *Continuing Authority Program Planning Process Improvements*, dated January 19, 2011, approval of planning models under EC 1105-2-412 is not required for CAP projects.

## 2. REVIEW MANAGEMENT ORGANIZATION COORDINATION

The Review Management Organization (RMO) is responsible for managing the overall peer review effort described in this RP. The RMO for Section 14 decision documents is the home MSC. The MSC will coordinate and approve the RP and manage the ATR. The home District will post the approved RP on its public website.

## 3. STUDY INFORMATION

**A. Decision Document.** The Edwards River, Sewage Lagoons, Mercer County, Matherville, IL decision document will be prepared in accordance with ER 1105-2-100, Appendix F. The approval level of the decision document is the home MSC. An Environmental Assessment will be prepared along with the decision document.

**B. Study/Project Description.** The non-Federal Sponsor for this Project is the Village of Matherville, Illinois. The Village has requested Corps assistance in seeking a solution to severe

Edwards River, Sewage Lagoons, Mercer County, Matherville, IL  
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erosion taking place on the embankment of the Village's sewage lagoons. Storm events in spring 2009 accelerated the erosion rate, taking 20 to 30 feet of bank per event over a six-month period. If left untreated, the sewage lagoons could breach, releasing raw sewage into the Edwards River and rendering the Village wastewater treatment facility useless. Measures considered at this time are channel clearing, longitudinal peak stone toe protection, rip rap, and vegetation. Some of these measures may be used together or separately. The cost for clearing and placing riprap on the sewage lagoon side of the embankment (right descending bank) is estimated at \$375,000.

**C. Factors Affecting the Scope and Level of Review.** Factors affecting the scope and level of review of Edwards River should be minimal as noted in the PMP. The Project does not involve a significant threat to human life or safety assurance since this Project does not include flood risk management and is not located near any residences. At this time there is no request by the Governor of IL for a peer review by independent experts and we do not anticipate him requesting one since a sewage lagoon breach in Matherville will negatively impact constituents downstream. The Project will not likely involve significant public debate based on its size, nature, effects, economics or environmental cost since the lagoons failing will put wastewater into Edwards River and render the city of Matherville's sewage system useless impacting the health of the people in Matherville, the economics of cleaning up and fines the city will have to pay, and the environmental impact the lagoon breach will have on Edwards River. The alternatives being formulated use measures that have been used effectively to control streambank erosion in the past. An alternative under consideration is Longitudinal Peaked Stone Toe Protection (LPSTP), a course offered by the Corps and taught by Dave Derrick. The Project design has not been determined yet but based on the measures being evaluated it is not anticipated to require redundancy, resiliency, robustness, unique construction sequencing or a reduced or overlapping design construction schedule.

A risk influencing the scope of the Project is time. The erosion is occurring at such a rapid pace that expedience is necessary for Project success. The schedule is impacted by the sponsor, other federal and state agencies and the public. As much as our schedule tries to incorporate this, it is difficult to forecast with accuracy.

**D. In-Kind Contributions.** Products and analyses provided by non-Federal sponsors as in-kind services are subject to DQC and ATR, similar to any products developed by the Corps. No in-kind products are anticipated at this time.

**E. Implementation.** Plans and Specifications will be completed within the District. The approval level of the plans and specifications phase is the home District as well.

#### 4. DISTRICT QUALITY CONTROL

All work products including supporting data, analyses, environmental compliance documents, etc. shall undergo District Quality Control (DQC). District Quality Control is an internal review process of basic science and engineering work products focused on fulfilling the Project quality requirements defined in the PMP. The home District shall manage DQC. Documentation of DQC activities is required and will be in accordance with the Quality Manual of the District and the home MSC. Any discrepancies between a reviewer and a Product Delivery Team (PDT) member will be resolved face to face. If a concern cannot be satisfactorily resolved between the DQC team and the PDT, it will be elevated to the section supervisor for further resolution.

**A. Feasibility Phase.** Technical supervisors will assure that experienced personnel, who have been involved with similar work, check team members' technical work for completeness, accuracy and clarity. The DQC of the Feasibility portion of the Project will be documented by a completed (signed) memorandum for record of technical review. A District Quality Control Review (DQCR) will be conducted prior to ATR.

**B. Plans and Specifications Phase.** The DQC consists of at least one technical check; a DQCR; and a Biddability, Constructability, Operability, Environmental (BCOE) Review. Review will be conducted at the 95 percent design level. Review comments and resolutions will be entered into DrChecks, in accordance with ER 1110-1-8159. The review will be documented by a completed (signed) Statement of Technical Review and Certification, to which all review comments and resolutions will be attached.

## 5. AGENCY TECHNICAL REVIEW

Agency Technical Review (ATR) is mandatory for all decision and implementation documents (including supporting data, analyses, environmental compliance documents, etc.). The objective of an ATR is to ensure consistency with established criteria, guidance, procedures, and policy. The ATR will assess whether the analyses presented are technically correct and comply with published Corps guidance, and that the document explains the analyses and results in a reasonably clear manner for the public and decision makers. The ATR is managed within the Corps 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. Agency Technical Review teams will be comprised of senior Corps personnel and may be supplemented by outside experts as appropriate.

Civil Works' Policy Memorandum #1, *Continuing Authority Program Planning Process Improvements*, paragraph 3.e, states that EC 1165-2-209 is modified for CAP projects such that unless the CAP RP justifies an exception and is explicitly approved by the MSC Commander, the ATR lead must remain outside of the District's MSC. Based on the urgency, technical expertise and small scope of the Project, it is feasible to maintain the ATR lead within the MSC. Edwards River has eroded approximately 20 feet since the start of the Feasibility process. Roughly 15 feet remain between the sewage lagoons berm and Edwards River. The Project engineer has been in contact with Dave Derrick, Corps' Engineer Research and Development Center streambank erosion personnel, regarding the alternatives available at this site. Any procedure that can streamline the process should be implemented to expedite planning.

**A. Products to Undergo ATR.** A CAP Section 14 will undergo at a minimum two ATRs throughout the life of the Project, Feasibility and Plans and Specifications.

**Feasibility ATR** will be performed throughout the study in accordance with the District and MSC Quality Management Plans. The Feasibility ATR shall be documented and discussed at the Alternative Formulation Briefing (AFB) milestone. Certification of the Feasibility ATR will be provided prior to the District Commander signing the final report. The Feasibility package includes alternative formulation; economic analysis; design calculations, drawings and cost; and a real estate plan.

**Plans and Specifications** will also undergo ATR prior to BCOE review. A Plans and Specifications ATR will be conducted at the 95 percent design level and consist of design calculations, drawings, certified DQCR documentation, and cost.

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Edwards River, Sewage Lagoons, Mercer County, Matherville, II  
Section 14 Project

**B. Required ATR Team Expertise**

ATR Team Members/Disciplines	Expertise Required
ATR Lead (F, P&S)	The ATR lead should be a senior professional preferably with experience in preparing Section 14 decision documents and conducting ATR. The lead should also have the necessary skills and experience to lead a virtual team through the ATR process.
Planning(F)	The Planning reviewer should be a senior water resources planner with experience in streambank erosion.
Economics(F)	The Economics reviewer should be a senior Economist with experience in evaluating benefit to cost ratios.
Environmental Resources(F)	The Environmental Resources reviewer should be a senior environmental resources planner with experience in National Environmental Policy Act compliance.
Civil Engineering (F, P&S)	The Civil Engineering reviewer should be an expert in the field and have a thorough understanding of bank stabilization and proposed measures including ; clearing, LPSTP, and riprap
Hydraulic and Hydrology Engineering (P&S)	The Hydraulic and Hydrology Engineer should be an expert in the field and have a thorough understanding of stream hydrology and how that pertains to bank erosion
Geotechnical Engineering (P&S)	The Geotechnical Engineer should be an expert in the field and have a thorough understanding of stream hydrology and how that impacts bank erosion
Real Estate(F)	The Real Estate reviewer should be an expert in Real Estate issues and have experience with ROW maps and necessary easements

F – Feasibility

P&S – Plans and Specifications

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*Edwards River, Sewage Lagoons, Mercer County, Matherville, II  
Section 14 Project*

**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 and the agreed upon resolution. The vertical team includes personnel from the Corps’ Rock Island District (District), the RMO, the MSC, and Corps Headquarters. 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 1110-2-12 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 Statement of Technical Review should be completed prior to the District

Edwards River, Sewage Lagoons, Mercer County, Matherville, II  
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Commander signing the final report. A sample Statement of Technical Review for Decision and Implementation Products is included as Attachment 2.

## 6. INDEPENDENT EXTERNAL PEER REVIEW

Independent Technical Peer Review may be required for decision documents under certain circumstances. 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 of the Corps is warranted. A risk-informed decision, as described in EC 1165-2-209, is made as to whether IEPR is appropriate. Independent Technical Peer Review panels will consist of independent, recognized experts from outside of the Corps 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 IEPR.** Type I IEPR reviews are managed outside the Corps 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.

The Civil Works Policy Memorandum #1, Continuing Authority Program Planning Process Improvements, paragraph 3.a, states all Section 14 CAP projects are excluded from Type I IEPR except those projects that include EIS or meet the mandatory triggers stated in EC 1165-2-209. The Edwards River does not include any of the mandatory triggers or an EIS so therefore is exempt from an IEPR.

**Type II IEPR.** Type II IEPR, or Safety Assurance Review, are managed outside the Corps 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. Type II IEPR panels, comprised of independent recognized experts in the appropriate disciplines, will conduct reviews of the design and construction activities prior to initiation of physical construction and, until construction activities are completed, periodically thereafter on a regular schedule. The reviews shall consider the adequacy, appropriateness, and acceptability of the design and construction activities in assuring public health safety and welfare. The review panels will be selected using the National Academy of Science policy.

This Project is excluded from Type I and Type II IEPR and will not require a specific waiver request.

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

All decision documents will be reviewed throughout the study process for their compliance with law and policy. Guidance for policy and legal compliance reviews is addressed in Appendix H, ER 1105-2-100. These reviews culminate in determinations that the recommendations in the reports 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. Both DQC and ATR 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.

## **8. COST ENGINEERING DIRECTORY OF EXPERTISE REVIEW AND CERTIFICATION**

For decision documents the RMO will select either a pre-certified District cost personnel or Cost Directory of Expertise (DX) personnel to conduct the cost engineering ATR. The DX will provide the Cost Engineering DX certification.

## **9. MODEL CERTIFICATION AND APPROVAL**

Guidance from Civil Works Program Planning Memorandum #1, states that CAP projects are not required to obtain approval of planning models under EC 1105-2-412.

EC 1105-2-412 does not cover engineering models used in planning. 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 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 and ATR.

**A. Planning Models.** No planning models are anticipated to be used in the development of the document.

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**B. Engineering Models**

<b>Model Name and Version</b>	<b>Brief Description of the Model and How It Will Be Applied in the Study</b>	<b>Approval Status</b>
HEC-RAS 4.0	The Hydrologic Engineering Center's River Analysis System (HEC-RAS) program provides the capability to perform one-dimensional steady and unsteady flow river hydraulics calculations. The program will be used for steady flow analysis to evaluate the future without- and with-project conditions along the Wild River and its tributaries. [For a particular study the model could be used for unsteady flow analysis or both steady and unsteady flow analysis. The RP should indicate how the model will be used for a particular study.]	HH&C CoP Preferred Model

## 10. BIDDABILITY, CONSTRUCTIBILITY, OPERABILITY, AND ENVIRONMENTAL REVIEW

Biddability, Constructibility, Operability, and Environmental (BCOE) occurs in the plans and specifications phase of the Project. In accordance with ER 415-1-11, the Project Engineer will conduct a BCOE review at the final design level, after all ATR comments have been resolved and incorporated. The review documents will include a complete drawing set, complete specifications (with special clauses), and Engineering Considerations. The review will commence at least 30 days prior to advertisement. Review comments and resolutions will be entered into DrChecks. The BCOE review will be documented by a completed (signed) BCOE certification, to which all review comments and resolutions will be attached.

## 11. REVIEW SCHEDULES AND COSTS

A. Reviews will be conducted in sequence of necessary milestones. Refer to Edwards River Sewage Lagoons, Mercer County, Matherville, IL approved PMP for milestone schedule.

### B. DQC Cost Estimate

Reviewer	DQC Feasibility	P&S DQC	P&S BCOE	Cost
Planner	\$500			\$500
Engineer	500	500	500	1,500
Natural Resources	500	500		1,000
Economist	500			500
Cost Estimate	500	500	500	1,500
Real Estate	500	500	500	1,500
Geotech	500	500	500	1,500
H&H	500	500	500	1,500
Construction POC			500	500
Construction ACO			500	500
Contracting			500	500
Safety Office			500	500
<b>TOTAL</b>	<b>\$4,000</b>	<b>\$3,000</b>	<b>\$4,500</b>	<b>\$11,500</b>

### C. DQC Estimated Schedule (P&S)

Kick-off	Reviewer Comments End	PDT Evaluation	Back Check	Complete
9/26/11	10/09/11	10/16/11	10/23/11	10/26/11

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**D. ATR Estimated Cost**

Reviewer	ATR Feasibility	ATR P&S	Cost
ATR Lead	\$1,500	\$2,000	\$3,500
Planner	1,000		1,000
Engineer	1,000	2,000	3,000
Natural Resources	1,000		1,000
Economist	1,000		1,000
Cost Estimate	1,500		1,500
Real Estate	1,000		1,000
Geotech		1,500	1,500
H&H		1,500	1,500
<b>TOTAL</b>	<b>\$8,000</b>	<b>\$7,000</b>	<b>\$15,000</b>

**E. ATR Estimated Schedule**

	Kick-off	Reviewer Comments End	PDT Evaluation	Back Check	Complete
<b>ATR Feasibility Schedule</b>	07/27/11	08/10/11	08/15/11	08/24/11	08/26/11
<b>ATR P&amp;S Schedule</b>	10/27/11	11/10/11	11/15/11	11/23/11	11/25/11
<b>AFB Conference</b>	08/29/11	NA	NA	NA	09/12/11

**F. Type I/II IEPR Schedule and Cost.** Not applicable.

**G. Model Certification/Approval Schedule.** Not applicable.

**12. PUBLIC PARTICIPATION**

Agencies with regulatory review responsibilities will be contacted for coordination as required by applicable laws and procedures. The public will have an opportunity for public comment on the development of the report prior to the Finding of No Significant Impact being signed and the RP via the internet. The Environmental Assessment will be posted on the district webpage at <http://www.mvr.usace.army.mil/Products/Projects.asp> for a minimum of 30 days.

Significant and relevant public comments will be incorporated into the ATR and/or AFB review. All comments will be included in the final draft document sent to MSC for approval. The final decision document will be made available to public via paper copies and internet.

**13. REVIEW PLAN APPROVAL AND UPDATES**

The home MSC Commander is responsible for approving this RP. The RP is a living document and may change as the study progresses. The home District is responsible for keeping the RP up to date. Minor changes to the RP since the last MSC Commander approval are documented in Attachment 3. Significant changes to the RP (such as changes to the scope and/or level of review) should be re-

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approved by the MSC Commander following the process used for initially approving the plan. The latest version of the RP, along with the Commanders' approval memorandum, will be posted on the home District's peer review webpage

[http://www2.mvr.usace.army.mil/projects/index.cfm?show\\_peer\\_review=y](http://www2.mvr.usace.army.mil/projects/index.cfm?show_peer_review=y) until the Project is completed and closed out.

#### **14. REVIEW PLAN POINTS OF CONTACT**

Public questions and/or comments on this RP can be directed to the following points of contact:

Monique Savage, Rock Island District Plan Formulator, (309) 794-5342 - MVR

Elizabeth Ivy, Rock Island District Support Team Chief (601) 634-5310 - MVD

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**ATTACHMENT 1: TEAM ROSTERS**

**PRODUCT DELIVERY TEAM ROSTER - JANUARY 2011**

<b>Name</b>	<b>Title</b>	<b>Email</b>
Larry Adams	Mayor of Matherville	adams77@mchsi.com
Tom Heinold	Program Manager	Thomas.D.Heinold@usace.army.mil
Monique Savage	Project Manager	Monique.E.Savage@usace.army.mil
Heather Anderson	Senior Project Engineer	Heather.L.Anderson@usace.army.mil
Anthony Heddlesten	Project Engineer	Anthony.D.Heddlesten@usace.army.mil
George Staley	Hydraulic & Hydrologic Engineer	George.C.Staley@usace.army.mil
Don Bawmann	Geotechnical Engineer	Donald.H.Bawmann@usace.army.mil
Garrett Mattila	Cost Engineer	Garrett.P.Mattila@usace.army.mil
Matt Afflerbaugh	NEPA Compliance Specialist	Matthew.J.Afflerbaugh@usace.army.mil
Rick Eberts	Economist	Richard.W.Eberts@usace.army.mil
Ron Deiss	Cultural Resources Specialist	Ronald.W.Deiss@usace.army.mil
Jason Appel	Real Estate Specialist	Jason.C.Appel@usace.army.mil
Brunson Grothus	Contracting POC	Brunson.E.Grothus@usace.army.mil
Paul Holcomb	Construction POC	Paul.C.Holcomb@usace.army.mil
Allen Giger	Survey Engineer	Allen.Giger@usace.army.mil
Tom Minear	District Counsel	Thomas.B.Minear@usace.army.mil
LaShell Harper	Lead Technician	LaShell.L.Harper@usace.army.mil
Emily Johnson	Support Technician	Emily.J.Johnson@usace.army.mil
Gene Walsh	Regulatory	Eugene.W.Walsh@usace.army.mil
Kathryn Pauls	GIS Specialist	Kathryn.N.Pauls@usace.army.mil

**DISTRICT QUALITY CONTROL ROSTER - JANUARY 2011**

<b>Name</b>	<b>Title</b>	<b>Email</b>
Camie Knollenberg	Plan Formulator Team Leader	Camie.A.Knollenberg@usace.army.mil
Ken Barr	Environmental Section Supervisor	Kenneth.A.Barr@usace.army.mil
Rachel Fellman	Senior Environmental Engineer	Rachel.C.Fellman@usace.army.mil
Tom Gambucci	Senior Hydraulics/Hydrologist	Thomas.R.Gambucci@usace.army.mil
Jotham Povich	Senior Geotechnical Engineer	Jotham.K.Povich@usace.army.mil
Mike Cummings	Senior Cost Estimator	Michael.R.Cummings@usace.army.mil

Review Plan

Edwards River, Sewage Lagoons, Mercer County, Matherville, Il  
Section 14 Project

**AGENCY TECHNICAL REVIEW TEAM (FEASIBILITY AND DESIGN) ROSTER – JANUARY 2011**

<b>Name</b>	<b>Title</b>	<b>Email</b>
Elliot Stefanik, MVP	ATR Team Leader	Elliot.L.Stefanik@usace.army.mil
Lance Awsumb, MVP	Plan Formulator	Lance.G.Awsumb@usace.army.mil
Gary Wolf, MVP	Project Engineer	Gary.C.Wolf@usace.army.mil
Elliot Stefanik, MVP	NEPA Compliance Specialist	Elliot.L.Stefanik@usace.army.mil
Lance Awsumb, MVP	Economist	Lance.G.Awsumb@usace.army.mil
John Albrecht, MVP	Real Estate Specialist	John.P.Albrecht@usace.army.mil
Lisa Buchli, MVP	H&H	Lisa.A.Buchli@usace.army.mil
Greg Wachman, MVP	Geotechnical Engineer	Gregory.S.Wachman@usace.army.mil
Jim Sentz	Cost Estimator	James.D.Sentz@usace.army.mil

**MAJOR SUBORDINATE COMMAND ROSTER – JANUARY 2011**

<b>Name</b>	<b>Title</b>	<b>Email</b>
Elizabeth Ivy, MVR	DST Planner	Elizabeth.J.Ivy@usace.army.mil
Renee Turner, MVD	Program Manager	Renee.N.Turner@usace.army.mil
Joe Mose, MVD	CAP Coordinator	Joseph.H.Mose@usace.army.mil

**BIDDABILITY, CONSTRUCTABILITY, OPERABILITY, ENVIRONMENTAL ROSTER – JANUARY 2011**

<b>Name</b>	<b>Title</b>	<b>Email</b>
Marv Martens	Senior Hydrologist & Hydraulics Engineer	Marvin.R.Martens@usace.army.mil
Jotham Povich	Senior Geotechnical Engineer	Jotham.K.Povich@usace.army.mil
Kara Mitvalsky	Senior Environmental Engineer	Kara.N.Mitvalsky@usace.army.mil
Mike Cummings	Senior Cost Estimator	Michael.R.Cummings@usace.army.mil
Tom Minear	District Counsel	Thomas.B.Minear@usace.army.mil
Joanne Traicoff	Construction	Joanne.E.Traicoff@usace.army.mil
Paul Holcomb	Construction	Paul.C.Holcomb@usace.army.mil
Brunson Grothus	Contracting POC	Brunson.E.Grothus@usace.army.mil
Troy Larson	Safety Office	Troy.A.Larson@usace.army.mil
Ron Williams	Real Estate	Ronald.G.Williams@usace.army.mil

## **ATTACHMENT 2: AGENCY TECHNICAL REVIEW BIOGRAPHIES**

### **ELLIOT STEFANIK**

#### **Position**

Biologist, Planner and Project Manager in the Environmental and GIS Branch, Regional Planning and Environmental Division - North

#### **Experience**

Thirteen years of experience working on complex multi-use water resource projects, including work with the Corps of Engineers and private industry. Primary focus has been on fisheries and aquatic habitat-related issues. Experience gained on projects in the upper-Midwest and northern California. Experience has included leading plan formulation for ecosystem restoration studies. Leads interagency teams including local, state and federal representatives. Conducts habitat evaluations and impact assessments for biological resources on multi-use water resource projects. Conducts cost effectiveness-incremental cost analyses. Prepares reconnaissance and feasibility level reports, as well as documentation to fulfill requirements under NEPA, Endangered Species Act and Clean Water Act. Conducts Agency Technical Reviews and participates in value engineering studies. Provides advice to PDTs on plan formulation of ecosystem restoration projects, habitat evaluation methodology, and impact assessments.

#### **Education**

B.S., Biology, University of Wisconsin – Platteville 1995  
M.S., Biology, University of Wisconsin – La Crosse 1997

### **JOHN ALBRECHT**

#### **Position**

Chief Partner Projects & Appraisal Branch

#### **Experience**

2001-2005 Staff Appraiser, MVP  
2005 USDA Lease Contract Officer  
2006 –Present – St. Paul District Chief Appraiser & Branch Chief  
April-May 2009 and August-October 2010, Acting Chief, MVP Real Estate Division  
10 Years Experience in Government Real Estate

Participant and PDT Member of numerous projects:

- Wahpeton/Breckenridge Flood Control
- Devils Lake, ND Flood Control
- Grand Forks/East Grand Forks, ND Flood Control
- Fargo Moorhead Flood Control

25 Years Real Estate Appraisal Experience  
Certified General Real Estate Appraiser, MN Lic 20088335

Edwards River, Sewage Lagoons, Mercer County, Matherville, IL  
Section 14 Project

**LANCE AWSUMB**

**Position**

Economist at St Paul District, Plan Formulation and Economics Branch

**Experience**

Employed at Corps of Engineers since 2008

Served as Economist for Fargo Moorhead Metro Feasibility Study throughout since 2008

Completed analysis for a number of CAP Section 14 studies

**Education**

Bachelor's Degree in Economics - University of St Thomas, St Paul MN -2008

**GREG WACHMAN**

**Position**

Geotechnical Engineer

**Experience**

Greg has worked for 3+ years in the Geotechnical Engineering and Geology Section for the St. Paul District Corps of Engineers. The majority of his experience includes designing and analyzing urban flood control and navigation projects.

**Education**

Bachelor of Geo-Engineering – University of Minnesota, Minneapolis, MN, 2006

Master of Science, Geological Engineering - University of Minnesota, Minneapolis, MN, 2008

**GARY WOLF, P.E.**

**Position**

Civil Engineer

**Experience**

Employed at Corps since 2000

8 years experience in plan & specification review for sanitary sewer systems and wastewater treatment plants Served as Lead Engineer for two Habitat Enhancement/Restoration projects

Worked on several Flood Control and Dredging projects

Serves as the Districts review engineer for NE Minnesota Section 569 and Northern Wisconsin Section 154 Environmental Infrastructure and Resource Protection and Development Programs

**Education**

Bachelor's degree in Engineering – Southern Illinois University, Edwardsville, IL - 1991

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**LISA BUCHLI**

**Position**

Hydrologist and Hydraulics Engineer

**Experience**

Employed at the Corps since 2009

Responsible for flood risk management projects and streambank/shoreline protection projects

Has experience with hydrologic modeling using HEC-HMS and HydroCAD, and hydraulic modeling (both steady and unsteady state) using HEC-RAS.

**Education**

Bachelor of Science, Civil Engineering - University of Wisconsin, Madison, WI, 2004

### ATTACHMENT 3: SAMPLE STATEMENT OF TECHNICAL REVIEW

#### COMPLETION OF AGENCY TECHNICAL REVIEW

The Agency Technical Review (ATR) for *the Edwards River, Sewage Lagoons, Mercer County, Matherville, IL Section 14 Project*, [choose one: (1) Feasibility Study, or (2) Plans and Specifications] has been completed. The ATR was conducted as defined in the Project's Review Plan to comply with the requirements of EC 1165-2-209. During the ATR, compliance with established policy principles and procedures, utilizing justified and valid assumptions, was verified. This included review of: assumptions, methods, procedures, and material used in analyses, alternatives evaluated, the appropriateness of data used and level obtained, and reasonableness of the results, including whether the product meets the customer's needs consistent with law and existing US Army Corps of Engineers policy. The ATR also assessed the District Quality Control (DQC) documentation and made the determination that the DQC activities employed appear to be appropriate and effective. All comments resulting from the ATR have been resolved and the comments have been closed in DrChecks<sup>sm</sup>.

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Elliot Stefanik  
ATR Team Leader  
CEMVP PD-E

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Date

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Monique Savage  
Project Manager  
CEMVR PD-F

---

Date

---

Elizabeth Ivy  
Review Management Office Representative  
CEMVD-PD-SP

---

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.

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Denny Lundberg  
Chief, Engineering Division MVR  
CEMVR-EC

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Date

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Gary Meden  
Chief, Planning Division MVR  
CEMVR-DP

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Date

<sup>1</sup> Needed only if some portion of the ATR was contracted

*Review Plan*

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Section 14 Project*

**ATTACHMENT 4: REVIEW PLAN REVISIONS**

<b>Revision Date</b>	<b>Description of Change</b>	<b>Page / Paragraph Number</b>

# MVD Review Plan Checklist

## Section I - Decision Documents

Review Plan Checklist  
For Decision Documents

**Planning Working Group will revise National and MVD RP checklists based on the new EC 1165-2-209. The existing National and MVD RP checklists based on EC 1105-2-410 for decision documents are included below.**

**Date:** 28 Jan 11

**Originating District:** CE MVR

**Project/Study Title:** Edwards River, Matherville, Mercer County, IL CAP Section 14

**PWI #:** 324837

**District POC:** Thomas Heinold

**PCX Reviewer:** N/A

Please fill out this checklist and submit with the draft Review Plan when coordinating with the appropriate PCX. Any evaluation boxes checked 'No' indicate the RP possibly may not comply with EC 1165-2-209 and should be explained. Additional coordination and issue resolution may be required prior to MSC approval of the Review Plan.

REQUIREMENT	REFERENCE	EVALUATION
<b>1. Is the Review Plan (RP) a stand alone document?</b>	EC 1105-2-410, Para 8a	Yes <input type="checkbox"/> No <input type="checkbox"/>
a. Does it include a cover page identifying it as a RP and listing the project/study title, originating district or office, and date of the plan?		a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
b. Does it include a table of contents?		b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
c. Is the purpose of the RP clearly stated and EC 1105-2-410 referenced?		c. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
d. Does it reference the Project Management Plan (PMP) of which the RP is a component?		d. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
e. Does it succinctly describe the three levels of peer review: District Quality Control (DQC), Agency Technical Review (ATR), and Independent External Peer Review (IEPR)?		e. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

<p>f. Does it include a paragraph stating the title, subject, and purpose of the decision document to be reviewed?</p> <p>g. Does it list the names and disciplines of the Project Delivery Team (PDT)?*</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 1105-2-410, Appendix B, Para 4a</p>	<p>f. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>g. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p><b>Comments:</b> Superceded by 1165-2-209</p>
<p><b>2. Is the RP detailed enough to assess the necessary level and focus of peer review?</b></p>	<p>EC 1105-2-410, Appendix B, Para 3a</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>a. Does it indicate which parts of the study will likely be challenging?</p> <p>b. Does it provide a preliminary assessment of where the project risks are likely to occur and what the magnitude of those risks might be?</p> <p>c. Does it indicate if the project/study will require preparation of an environmental impact statement (EIS)?</p> <p><i>Will an EIS be prepared? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></i> <i>If yes, IEPR is required.</i></p> <p>d. Does it address if the project report is likely to contain influential scientific information or be a highly influential scientific assessment?</p> <p><i>Is it likely? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></i> <i>If yes, IEPR is required.</i></p> <p>e. Does it address if the project is likely to have significant economic, environmental, and social affects to the nation, such as (but not limited to):</p> <ul style="list-style-type: none"> <li>• More than negligible adverse impacts on scarce or unique cultural, historic, or tribal resources?</li> </ul>	<p>EC 1105-2-410, Appendix B, Para 3a</p> <p>EC 1105-2-410, Appendix B, Para 3a</p> <p>EC 1105-2-410 Para 7c &amp; 8f</p> <p>EC 1105-2-410, Appendix B, Para 4b</p> <p>EC 1105-2-410, Para 6c</p> <p>EC 1105-2-410 Para 8f</p>	<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>c. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>d. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>e. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>

<ul style="list-style-type: none"> <li>• Substantial adverse impacts on fish and wildlife species or their habitat, prior to implementation of mitigation?</li> <li>• More than negligible adverse impact on species listed as endangered or threatened, or to the designated critical habitat of such species, under the Endangered Species Act, prior to implementation of mitigation?</li> </ul> <p><i>Is it likely? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></i>  <i>If yes, IEPR is required.</i></p> <p>f. Does it address if the project/study is likely to have significant interagency interest?</p> <p><i>Is it likely? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></i>  <i>If yes, IEPR is required.</i></p> <p>g. Does it address if the project/study likely involves significant threat to human life (safety assurance)?</p> <p><i>Is it likely? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></i>  <i>If yes, IEPR is required.</i></p> <p>h. Does it provide an estimated total project cost?</p> <p><i>What is the estimated cost: <u>300,000</u>  (best current estimate; may be a range)</i></p> <p><i>Is it &gt; \$45 million? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></i>  <i>If yes, IEPR is required.</i></p> <p>i. Does it address if the project/study will likely be highly controversial, such as if there will be a significant public dispute as to the size, nature, or effects of the project or to the economic or environmental costs or benefits of the project?</p> <p><i>Is it likely? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></i>  <i>If yes, IEPR is required.</i></p> <p>j. Does it address if the information in the decision document will likely be based on</p>	<p>EC 1105-2-410 Para 8f</p> <p>EC 1105-2-410 Para 8f</p> <p>EC 1105-2-410, Para 6c</p> <p>EC 1105-2-410, Appendix D, Para 1b</p> <p>EC 1105-2-410, Appendix D, Para 1b</p> <p>EC 1105-2-410, Appendix D, Para 1b</p> <p>EC 1105-2-410,</p>	<p>f. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>g. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>h. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>i. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>j. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
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<p>novel methods, present complex challenges for interpretation, contain precedent-setting methods or models, or present conclusions that are likely to change prevailing practices?</p> <p><i>Is it likely? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></i>  <i>If yes, IEPR is required.</i></p>	<p>Appendix D, Para 1b</p>	<p><b>Comments:</b></p>
<p><b>3. Does the RP define the appropriate level of peer review for the project/study?</b></p>	<p>EC 1105-2-410, Para 8a</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>a. 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>b. Does it state that ATR will be conducted or managed by the lead PCX?</p> <p>c. Does it state whether IEPR will be performed?</p> <p><i>Will IEPR be performed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></i></p> <p>d. Does it provide a defensible rationale for the decision on IEPR?</p> <p>e. Does it state that IEPR will be managed by an Outside Eligible Organization, external to the Corps of Engineers?</p>	<p>EC 1105-2-410, Para 7a</p> <p>EC 1105-2-410, Appendix D, Para 3a</p> <p>EC 1105-2-410, Appendix B, Para 4b</p> <p>EC 1105-2-410, Para 7c</p>	<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>c. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>d. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>e. Yes <input type="checkbox"/> No <input type="checkbox"/> n/a <input checked="" type="checkbox"/></p> <p><b>Comments:</b> Inferred PCX means MSC for Section 14's</p>
<p><b>4. Does the RP explain how ATR will be accomplished?</b></p>	<p>EC 1105-2-410, Appendix B, Para 4l</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>a. Does it identify the anticipated number of reviewers?</p> <p>b. Does it provide a succinct description of the primary disciplines or expertise needed for the review (not simply a list of disciplines)?</p> <p>c. Does it indicate that ATR team members will be from outside the home district?</p>	<p>EC 1105-2-410, Appendix B, Para 4f</p> <p>EC 1105-2-410, Appendix B, Para 4g</p> <p>EC 1105-2-410, Para 7b</p>	<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>c. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>

<p>d. Does it indicate that the ATR team leader will be from outside the home MSC?</p> <p>e. Does the RP state that the lead PCX is responsible for identifying the ATR team members and indicate if candidates will be nominated by the home district/MSc?</p> <p>f. 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>EC 1105-2-410, Para 7b</p> <p>EC 1105-2-410, Appendix B, Para 4k(1)</p> <p>EC 1105-2-410, Appendix B, Para 4k(1)</p>	<p>d. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>e. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>f. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> n/a <input type="checkbox"/></p> <p><b>Comments:</b> Requesting to keep ATR lead within Division per Memorandum #1 due to the nature of the project</p>
<p><b>5. Does the RP explain how IEPR will be accomplished?</b></p>	<p>EC 1105-2-410, Appendix B, Para 4k &amp; Appendix D</p>	<p><b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/> <b>n/a</b> <input checked="" type="checkbox"/></p>
<p>a. Does it identify the anticipated number of reviewers?</p> <p>b. Does it provide a succinct description of the primary disciplines or expertise needed for the review (not simply a list of disciplines)?</p> <p>c. Does it indicate that the IEPR reviewers will be selected by an Outside Eligible Organization and if candidates will be nominated by the Corps of Engineers?</p> <p>d. Does it indicate the IEPR will address all the underlying planning, safety assurance, engineering, economic, and environmental analyses, not just one aspect of the project?</p>	<p>EC 1105-2-410, Appendix B, Para 4f</p> <p>EC 1105-2-410, Appendix B, Para 4g</p> <p>EC 1105-2-410, Appendix B, Para 4k(1) &amp; Appendix D, Para 2a</p> <p>EC 1105-2-410, Para 7c</p>	<p>a. Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>c. Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>d. Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p><b>Comments:</b></p>

<b>6. Does the RP address peer review of sponsor in-kind contributions?</b>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<p>a. Does the RP list the expected in-kind contributions to be provided by the sponsor?</p> <p>b. Does it explain how peer review will be accomplished for those in-kind contributions?</p>	<p>EC 1105-2-410, Appendix B, Para 4j</p>	<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> n/a <input type="checkbox"/></p> <p><b>Comments:</b></p>
<b>7. Does the RP address how the peer review will be documented?</b>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<p>a. Does the RP address the requirement to document ATR and IEPR comments using Dr Checks?</p> <p>b. Does the RP explain how the IEPR will be documented in a Review Report?</p> <p>c. Does the RP document how written responses to the IEPR Review Report will be prepared?</p> <p>d. Does the RP detail how the district/PCX will disseminate the final IEPR Review Report, USACE response, and all other materials related to the IEPR on the internet and include them in the applicable decision document?</p>	<p>EC 1105-2-410, Para 8g(1)</p> <p>EC1105-2-410, Appendix B, Para 4k(13)(b)</p> <p>EC 1105-2-410, Appendix B, Para 4l</p> <p>EC 1105-2-410, Para 8g(2) &amp; Appendix B, Para 4l</p>	<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input type="checkbox"/> No <input type="checkbox"/> n/a <input checked="" type="checkbox"/></p> <p>c. Yes <input type="checkbox"/> No <input type="checkbox"/> n/a <input checked="" type="checkbox"/></p> <p>d. Yes <input type="checkbox"/> No <input type="checkbox"/> n/a <input checked="" type="checkbox"/></p> <p><b>Comments:</b></p>
<b>8. Does the RP address Policy Compliance and Legal Review?</b>	EC 1105-2-410, Para 7d	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <b>Comments:</b>
<b>9. Does the RP present the tasks, timing and sequence (including deferrals), and costs of reviews?</b>	EC 1105-2-410, Appendix B, Para 4c & Appendix C, Para 3d	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
a. Does it provide a schedule for ATR including review of the Feasibility Scoping Meeting (FSM) materials, Alternative Formulation Briefing (AFB) materials, draft report, and final report?	EC 1105-2-410, Appendix C, Para 3g	a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

<p>b. Does it include interim ATR reviews for key technical products?</p> <p>c. Does it present the timing and sequencing for IEPR?</p> <p>d. Does it include cost estimates for the peer reviews?</p>	<p>EC 1105-2-410, Appendix C, Para 3g</p>	<p>b. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>c. Yes <input type="checkbox"/> No <input type="checkbox"/> n/a <input checked="" type="checkbox"/></p> <p>d. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p><b>Comments:</b> Small scope of Sec. 14 does not call for interim reviews</p>
<p><b>10. Does the RP indicate the study will address Safety Assurance factors?</b></p> <p>Factors to be considered include:</p> <ul style="list-style-type: none"> <li>• Where failure leads to significant threat to human life</li> <li>• Novel methods\complexity\ precedent-setting models\policy changing conclusions</li> <li>• Innovative materials or techniques</li> <li>• Design lacks redundancy, resiliency of robustness</li> <li>• Unique construction sequence or acquisition plans</li> <li>• Reduced\overlapping design construction schedule</li> </ul>	<p>EC 1105-2-410, Para 2 &amp; Appendix D, Para 1c</p>	<p><b>Yes</b> <input checked="" type="checkbox"/> <b>No</b> <input type="checkbox"/> <b>n/a</b> <input type="checkbox"/></p> <p><b>Comments:</b></p>
<p><b>11. Does the RP address model certification requirements?</b></p>	<p>EC 1105-2-407</p>	<p><b>Yes</b> <input checked="" type="checkbox"/> <b>No</b> <input type="checkbox"/></p>
<p>a. Does it list the models and data anticipated to be used in developing recommendations (including mitigation models)?</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 1105-2-410, Appendix B, Para 4i</p>	<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>c. Yes <input type="checkbox"/> No <input type="checkbox"/> n/a <input checked="" type="checkbox"/></p> <p><b>Comments:</b> Per Memorandum#1 N/A</p>
<p><b>12. Does the RP address opportunities for public participation?</b></p>		<p><b>Yes</b> <input checked="" type="checkbox"/> <b>No</b> <input type="checkbox"/></p>

<p>a. Does it indicate how and when there will be opportunities for public comment on the decision document?</p> <p>b. Does it indicate when significant and relevant public comments will be provided to reviewers before they conduct their review?</p> <p>c. Does it address whether the public, including scientific or professional societies, will be asked to nominate potential external peer reviewers?</p> <p>d. Does the RP list points of contact at the home district and the lead PCX for inquiries about the RP?</p>	<p>EC 1105-2-410, Appendix B, Para 4d</p> <p>EC 1105-2-410, Appendix B, Para 4e</p> <p>EC 1105-2-410, Appendix B, Para 4h</p> <p>EC 1105-2-410, Appendix B, Para 4a</p>	<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>c. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>d. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p><b>Comments:</b></p>
<p><b>13. Does the RP address coordination with the appropriate Planning Centers of Expertise?</b></p>	<p>EC 1105-2-410, Para 8a</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>a. Does it state if the project is single or multi-purpose? Single <input checked="" type="checkbox"/> Multi <input type="checkbox"/></p> <p>List purposes: Emergency Streambank Protection</p> <p>b. Does it identify the lead PCX for peer review? Lead PCX: <b>FRM</b></p> <p>c. If multi-purpose, has the lead PCX coordinated the review of the RP with the other PCXs as appropriate?</p>	<p>EC 1105-2-410, Appendix D, Para 3c</p>	<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>c. Yes <input type="checkbox"/> No <input type="checkbox"/> n/a <input checked="" type="checkbox"/></p> <p><b>Comments:</b> MSC</p>
<p><b>14. Does the RP address coordination with the Cost Engineering Directory of Expertise (DX) in Walla Walla District for ATR of cost estimates, construction schedules and contingencies for all documents requiring Congressional authorization?</b></p>	<p>EC 1105-2-410, Appendix D, Para 3</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>a. Does it state if the decision document will require Congressional authorization?</p> <p>b. If Congressional authorization is required, does the state that coordination will occur with the Cost Engineering DX?</p>		<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input type="checkbox"/> No <input type="checkbox"/> n/a <input checked="" type="checkbox"/></p> <p><b>Comments:</b></p>

<p><b>15. Other Considerations:</b> This checklist highlights the minimum requirements for an RP based on EC 1105-2-410. Additional factors to consider in preparation of the RP include, but may not be limited to:</p> <ul style="list-style-type: none"> <li>a. Is a request from a State Governor or the head of a Federal or state agency to conduct IEPR likely?</li> <li>b. Is the home district expecting to submit a waiver to exclude the project study from IEPR?</li> <li>c. Are there additional Peer Review requirements specific to the home MSC or district (as described in the Quality Management Plan for the MSC or district)?</li> <li>d. Are there additional Peer Review needs unique to the project study?</li> </ul>	<p>EC 1105-2-410, Appendix D, Para 1b</p> <p>EC 1105-2-410, Appendix D, Para 1d</p>	<p><b>Comments:</b></p>
<p><b>Detailed Comments and Back check:</b></p>		

## **MVD CHECKLIST**

1. Is there a Technical Review Strategy Session identified early in the study process? (See Appendix C paragraph 8.2,) Yes during PMP
2. Are there any potential Continuing Authority Program (CAP) “spinoffs” identified, and the appropriate QCP identified for them? N/A
3. Are the review costs identified? for District Quality Control (DCQ), ATR, and Independent External Technical Review (IETR)? Yes
4. Does the RP identify seamless technical review (8.4) including supervisory oversight of the technical products? (8.5)Yes
5. Does the RP identify the recommended review comment content and structure? (8.5.4) Yes
6. Does the RP encourage face-to-face resolution of issues between PDT and reviewers? (8.5.5) During DQC not ATR
7. And if issues remain, does the RP must identify an appropriate dispute resolution process? (8.6) Yes
8. Does the RP require documentation of all the significant decisions and leave a clear audit trail?(8.5.6)Yes
9. Does the RP identify all the requirements for technical certifications? (8.5.7) Yes
10. Does the RP identify the requirement that without-project hydrology is certified at the Feasibility Scoping Meeting? (8.5.8) NA for CAP – no feasibility meeting occurs
11. Does the RP fully address products developed by contractors? (8.10) NA
12. Is the need for a VE study identified and incorporated into the review process subsequent to the feasibility scoping meeting? (8.11) has the proper coordination with the VE Officer taken place? NA
13. Does the RP include a Feasibility Alternative Review Milestone, where CEMVD buy-in to the recommended plan is obtained?(12.1) Yes
14. Does the RP identify the final public meeting milestone? (See Appendix C, Enclosure 1, MVD Milestones) Yes
15. Does the RP identify the report approval process and if there is a delegated approval Authority? Yes

16. Has the proper coordination occurred with the Regional Technical Specialist (RTS) program manager, CEMVD-RBM, to ensure the relevant technical skill sets are supporting the Review Plan process? NA

17. Have regional Indefinite Delivery/ Indefinite Quantity (IDIQ) contracts been surveyed for potential AE support in the Review Plan process? NA

18. Did you confirm that the PED agreement is consistent with the engineering scopes of work for the Design Documentation Reports (DDR's) and Engineering Documentation Reports (EDR's) if applicable? NA

## Section II - Implementation Documents

### Review Plan Checklist For Implementation Documents

**Date:** 28 Jan 11

**Originating District:** CE MVR

**Project/Study Title:** Edwards River, Matherville, Mercer County, IL CAP Section 14

**PWI #:** 324837

**District POC:** Thomas Heinold

**PCX Reviewer:** N/A

Please fill out this checklist and submit with the draft Review Plan when coordinating with the appropriate RMO. For DQC, the District is the RMO; for ATR of Dam and Levee Safety Studies, the Risk Management Center is the RMO; and for non-Dam and Levee Safety projects and other work products, MVD is the RMO; for Type II IEPR, the Risk Management Center is the RMO. Any evaluation boxes checked 'No' indicate the RP possibly may not comply with EC 1165-2-209 and should be explained. Additional coordination and issue resolution may be required prior to MSC approval of the Review Plan.

REQUIREMENT	REFERENCE	EVALUATION
<b>1. Is the Review Plan (RP) a stand alone document?</b>	EC 1165-2-209, Appendix B Para 4a	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
a. Does it include a cover page identifying it as a RP and listing the project/study title, originating district or office, and date of the plan?		a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
b. Does it include a table of contents?		b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
c. Is the purpose of the RP clearly stated and EC 1165-2-209 referenced?	EC 1165-2-209 Para 7a	c. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
d. Does it reference the Project Management Plan (PMP) of which the RP is a component including P2 Project #?	EC 1165-2-209 Para 7a (2)	d. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
e. Does it include a paragraph stating the title, subject, and purpose of the work product to be reviewed?	EC 1165-2-209 Appendix B Para 4a	e. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
f. Does it list the names and disciplines in the home district, MSC and RMO to whom inquiries about the plan may be directed?*	EC 1165-2-209, Appendix B, Para 4a	f. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

<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><b>2. Documentation of risk-informed decisions on which levels of review are appropriate.</b></p>	<p>EC 1165-2-209, Appendix B. Para 4b</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></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>ii. Does it list the DQC activities (for example, 30, 60, 90, 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</p>	<p>EC 1165-2-209 7a</p> <p>EC1165-2-209 Para 15</p> <p>EC1165-2-209 Para 15a</p> <p>EC1165-2-209 Para 8a</p> <p>EC 1165-2-209 Appendix B (1)</p> <p>EC 1165-2-209 Appendix B, 4g</p> <p>EC 1165-2-209 Appendix B Para 4c</p> <p>EC1165-2-209 Para 15a</p> <p>EC 1165-2-209 Para 7<sup>a</sup></p> <p>EC 1165-2-209</p>	<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>i. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>ii. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>iii. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>iv. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>d. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>i. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>ii. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>

<p>outside the home MSC?</p> <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>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><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>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>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</p>	<p>Para 9c</p> <p>EC 1165-2-209 Appendix B 4g</p> <p>EC 1165-2-209 Appendix C Para 3e</p> <p>EC 1165-2-209 Para 7d (1)</p> <p>EC1165-2-209 Para 15a</p> <p>EC 1165-2-209 Para 7a</p> <p>EC 1165-2-209 Appendix B Para 4a</p> <p>EC 1165-2-209 Appendix B Para 4k (4)</p> <p>EC 1165-2-209 Appendix B, Para 4k(1) &amp; Appendix E,</p>	<p>iii. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>iv. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>v. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>e. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>i. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>ii. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>iii. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>iv. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
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<p>outside of the USACE in the appropriate disciplines, representing a balance of expertise suitable for the review being conducted?</p> <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><i>Is it likely? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></i>  <i>If yes, Type II IEPR must be addressed.</i></p> <p>ix. Does the RP address Type II IEPR factors?</p> <p>Factors to be considered include:</p> <ul style="list-style-type: none"> <li>• 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?</li> <li>• Does the project design require redundancy, resiliency and robustness</li> </ul>	<p>Para’s 1a &amp; 7</p> <p>EC 1165-2-209 Para 6b (4) and Para 10b</p> <p>EC1165-2-209 Appendix E, Para 7c(1)</p> <p>EC1165-2-209 Appendix E, Para 5a</p> <p>EC1165-2-209 Appendix E Para 2</p>	<p>v. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>vi. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA</p> <p>vii. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA</p> <p>viii. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA</p> <p>ix. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
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<ul style="list-style-type: none"> <li>Does the project have unique construction sequencing or a reduced or overlapping design construction schedule; for example, significant project features accomplished using the Design-Build or Early Contractor Involvement (ECI) delivery systems.</li> </ul> <p><i>Is it likely? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></i>  <i>If yes, Type II IEPR must be addressed.</i></p> <p>g. 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>EC 1165-2-209          Para 14</p>	<p>g. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p><b>3. Does the RP present the tasks, timing, and sequence of the reviews (including deferrals)?</b></p>	<p>EC 1165-2-209,          Appendix B,          Para 4c</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></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 1165-2-209,          Appendix C,          Para 3g</p> <p>EC 1165-2-209, Appendix E,          Para 6c</p>	<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Referenced in PMP</p>
<p><b>4. Does the RP address engineering model certification requirements?</b></p>	<p>EC 1165-2-209,          Appendix B,          Para 4i</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></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>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>c. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>

<p><b>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?</b></p>	<p>EC 1165-2-209, Appendix B, Para 4d</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>a. Does it discuss posting the RP on the District website?</p> <p>b. Does it indicate the web address, and schedule and duration of the posting?</p>		<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p><b>6. Does the RP explain when significant and relevant public comments will be provided to the reviewers before they conduct their review?</b></p>	<p>EC 1165-2-209, Appendix B, Para 4e</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>a. Does it discuss the schedule of receiving public comments?</p> <p>b. Does it discuss the schedule of when significant comments will be provided to the reviewers?</p>		<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p><b>7. Does the RP address whether the public, including scientific or professional societies, will be asked to nominate professional reviewers?*</b></p>	<p>EC 1165-2-209, Appendix B, Para 4h</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></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?</p> <p>* Typically the public will not be asked to nominate potential reviewers</p>		<p>a. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>NA</p>
<p><b>8. Does the RP address expected in-kind contributions to be provided by the sponsor?</b></p>	<p>EC 1165-2-209, Appendix B, Para 4j</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></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>a. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>NA</p>

<p><b>9. Does the RP explain how the reviews will be documented?</b></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>d. Does the RP detail how the district/PCX/MSC 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 1165-2-209, Para 7d</p> <p>EC 1165-2-209 Appendix B Para 4k (14)</p> <p>EC 1165-2-209 Appendix B Para 4k (14)</p> <p>EC 1165-2-209 Appendix B Para 5</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>c. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>d. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>NA</p>
<p><b>10. Has the approval memorandum been prepared and does it accompany the RP?</b></p>	<p>EC 1165-2-209, Appendix B, Para 7</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>

## Appendix A – CW Products and Type of Reviews

There are few absolutes in terms of review and those tend towards higher levels of review rather than lower. All Civil Works products shall get district quality control. All decision and implementation documents shall undergo Agency Technical Review. The law states when peer review is mandatory. Beyond this, the EC requires a risk informed decision be made on each individual study/project to determine the appropriate level of review. This determination will first be made as part of the review plan, which is part of the PMP. But the determination may change based upon changes the product undergoes during its development.

Any deviation from the following requires use of a risk informed decision process.

<b>CW Planning Products</b>	<b>Required Review</b>	<b>MVD Requirement</b>
Reconnaissance Report	DQC, ATR	
Feasibility Study	DQC, ATR, Type I IEPR	
General Reevaluation Report	DQC, ATR, Type I IEPR	
Limited Reevaluation Report	DQC, ATR, Type I IEPR	
Continuing Authorities Project	DQC, ATR, Type I IEPR	
Major Rehab Report (Hydropower, Navigation)	DQC, ATR, Type I IEPR	
Dredge Material Management Plan	DQC, ATR	
Shoreline Management Plan	DQC, ATR, Type I IEPR	
Master Plan	DQC, ATR	
Master Plan Update	DQC	
Operational Management Plan	DQC	
Annual Work Plan	DQC	
Hydrologic Studies*	DQC, ATR	QMP

\*Data from hydrologic studies must undergo a minimum of DQC and ATR prior to its substantive use in plan formulation studies.

<b>CW Engineering Products</b>	<b>Required Review</b>	<b>MVD Requirement</b>
Engineering Studies (EDR's, DDR's, etc)	DQC, ATR, SAR	
Cost Engineering Products	DQC, ATR	
Engineering Appendices for FS	DQC, ATR, SAR*	
Operation and Maintenance Manuals	DQC, ATR, SAR*, Policy Review	
Major Maintenance Reports	DQC, ATR	
PL 84-99 Project Information Reports	DQC, ATR	
PL 84-99 Rehab Plans and Specs	DQC, ATR, SAR*	

Plan and Specs for Levee and Dam Projects	DQC, ATR, SAR	
Purchase Orders	DQC, ATR	
Field Investigations	DQC, ATR	
Plan and Specs	DQC, ATR, SAR*	
Construction	SAR* (assumes DQC, ATR and IEPR were done in PED)	
Plans and Specs	DQC, ATR, SAR*	
Issue Evaluation Studies	DQC, ATR	
Engineering Investigations	DQC, ATR	

<b>Operations Engineering Products</b>	<b>Required Review</b>	<b>MVD Requirement</b>
Operation and Maintenance Manuals	DQC, ATR, SAR*	
Major Maintenance Reports	DQC, ATR	
Plan and Specs for Levee or Dam Projects	DQC, ATR, SAR	
Purchase Orders	DQC, ATR	
Field Investigations	DQC, ATR	
Construction		
Plan and Specs	DQC, ATR	
Engineering Investigations	DQC, ATR	
Routine Maintenance/Replacement-in-kind	DQC***	
Periodic Inspections of Completed Projects	DQC, ?????	

\* SAR is required for any engineering product with life safety issues.

\*\* Routine maintenance work typically does not require any DQC because the DQC occurs during the development/update of the O&M manual.

\*\*\* Routine maintenance or Replacement–In-Kind that follows industry standards does not require DQC.