



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

REPLY TO
ATTENTION OF:

CEMVD-PD-SP

12 DEC 13

MEMORANDUM FOR Commander, St. Louis District

SUBJECT: Upper Mississippi River Restoration Environmental Management Program (UMRREMP) Clarence Cannon National Wildlife Refuge Habitat Rehabilitation and Enhancement Project Review Plan

1. References:

- a. Memorandum, CEMVP-PD-P, 1 November 2013, subject as above (encl 1).
- b. Memorandum, CEMVD-RB-T, 3 December 2013, subject: Upper Mississippi River Restoration Environmental Management Program (UMRREMP) Clarence Cannon National Wildlife Refuge Habitat Rehabilitation and Enhancement Project Review Plan (encl 2).
- c. Memorandum, CECW-MVD, 16 May 2012, subject: Request for Approval of a Model Peer Review Plan for the Upper Mississippi River System Environmental Management Program (encl 3).
- d. EC 1165-2-214, 15 December 2012, subject: Civil Works Review Policy.

2. The enclosed Review Plan (RP) (encl 4) is a combined decision document and implementation document review plan. It includes the MVD EMP Review Plan Checklist and has been prepared in accordance with EC 1165-2-214. The RP has been coordinated between the Business Technical Division and the Upper District Support Team.

3. I hereby approve the Clarence Cannon, Habitat Rehabilitation and Enhancement Project RP, which is subject to change as circumstances require. Any subsequent revisions to this RP or its execution will require new written approval from this office. Non-substantive changes to this RP do not require further approval. The district should post the approved RP to its website.

CEMVD-PD-SP

SUBJECT: Upper Mississippi River Restoration Environmental
Management Program (UMRREMP) Clarence Cannon National Wildlife
Refuge Habitat Rehabilitation and Enhancement Project Review Plan

4. The MVD point of contact for this action is [REDACTED]
CEMVD-PD-SP, [REDACTED].

4 Encls

[REDACTED]
Director of Programs



DEPARTMENT OF THE ARMY
ST. LOUIS DISTRICT CORPS OF ENGINEERS
1222 SPRUCE STREET
ST. LOUIS, MISSOURI 63103-2833

REPLY TO
ATTENTION OF:

CEMVP-PD-P

NOV 01 2013

MEMORANDUM FOR Commander, U.S. Army Engineer Division, Mississippi Valley
(CEMVD-PD-SP [REDACTED]), P.O. Box 80, 1400 Walnut Street, Vicksburg, MS 39181-0080

SUBJECT: Upper Mississippi River Restoration Environmental Management Program (UMRR-EMP) Clarence Cannon National Wildlife Refuge Habitat Rehabilitation and Enhancement Project Review Plan

1. The subject Model Review Plan (Encl 1) and MVD EMP Review Plan Checklist (Encl 2) for Clarence Cannon National Wildlife Refuge Habitat Rehabilitation and Enhancement Project Feasibility Study are submitted for your review and approval. The Model Review Plan includes both the feasibility report (decision document) and P&S (implementation product). An electronic copy of the subject Model Review Plan and MVD EMP Review Plan Checklist has been sent to Mr. Phil Hollis, CEMVD.

2. The points of contact are [REDACTED], Project Manager, at [REDACTED] or email: [REDACTED] or [REDACTED] District Program Manager, at [REDACTED] or email: [REDACTED].

Sincerely,

[REDACTED]

COL, EN
Commanding

2 Encls

Encl 1

CEMVD-RB-T

3 December 2013

MEMORANDUM FOR CEMVD-PD-SP [REDACTED]

SUBJECT: Upper Mississippi River Restoration Environmental Management Program (UMRR-EMP) Clarence Cannon National Wildlife Refuge Habitat Rehabilitation and Enhancement Project Review Plan

1. Reference memorandum, CEMVP-PD-P, 1 November 2013, subject as above.
2. This office concurs with subject Review Plan.
3. The RB-T point of contact is [REDACTED],
[REDACTED]

[REDACTED]
Chief, Business Technical
Division

Encl 2



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
WASHINGTON, D.C. 20314-1000

CECW-MVD

MAY 16 2012

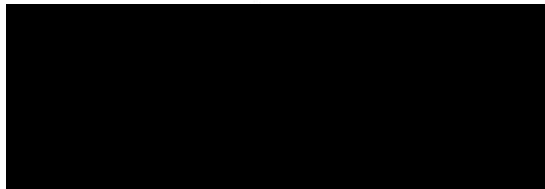
MEMORANDUM FOR Commander, U.S. Army Corps of Engineers, Mississippi Valley Division (ATTN: CEMVD-PD-SP)

SUBJECT: Request for Approval of a Model Peer Review Plan for the Upper Mississippi River System Environmental Management Program

1. HQUSACE has reviewed the draft model peer review plan for the Upper Mississippi River System Environmental Management Program. The model peer review plan is consistent with programmatic review plans developed and in use for the Continuing Authorities Program. The model Peer Review Plan is to be used for all projects within the program except those that include an Environmental Impact Statement or that meet the mandatory triggers for Type I IEPR as stated in EC 1165-2-209.

2. Questions or concerns should be directed to [REDACTED] Deputy Chief, Mississippi Valley Division Regional Integration Team, at [REDACTED]

FOR THE COMMANDER:



Chief, Planning and Policy Division
Directorate of Civil Works

ENC 3

MODEL REVIEW PLAN
Using the MVD Model Review Plan
for the
Environmental Management Program (EMP)
and
Referencing the EMP Programmatic Review Plan

Clarence Cannon National Wildlife Refuge
Pike County, Missouri – Mississippi River Pool 25
River Mile 261.1 – 263.8

St. Louis District

MSC Approval Date: Pending
Last Revision Date: None



**US Army Corps
of Engineers®**

ENC14

**Review Plan
Using the MVD Model Review Plan**

**Clarence Cannon National Wildlife Refuge, Pike County, Missouri – Mississippi River Pool 25,
River Mile 261.1 – 263.8**

TABLE OF CONTENTS

1. Purpose and Requirements	1
2. Review Management Organization (RMO) Coordination	1
3. Project Information	1
4. District Quality Control (DQC)	2
5. Agency Technical Review (ATR)	2
6. Policy And Legal Compliance Review	2
7. Cost Engineering Directory of Expertise (DX) Review And Certification	2
8. Model Certification and Approval	2
9. Review Schedules And Costs	4
10. Public Participation.	5
11. Review Plan Approval And Updates.	5
Attachment 1: Team Rosters	6
Attachment 2: Review Plan Revisions	9
Revision Date	9
Description of Change	9
Page/Paragraph Number	9
Attachment 3: EMP Review Plan Checklist	6
Attachment 4: ATR Certification	11

REVIEW PLAN
**Clarence Cannon National Wildlife Refuge, Pike County, Missouri – Mississippi River Pool 25,
River Mile 261.1 – 263.8**

1. Purpose and Requirements

a. Purpose

This Review Plan defines the scope and level of peer review for the UMRR-EMP HREP Clarence Cannon National Wildlife Refuge, Pike County, Missouri, Mississippi River Pool 25, River Miles 261.1 to 263.8. Public Law 99-662 of the 1986 WRDA, as amended, authorizes the US Army Corps of Engineers (USACE) to study, design, and construct habitat rehabilitation and enhancement projects (HREP) on the Upper Mississippi River system without specific Congressional authorization. This Review Plan is for the Clarence Cannon National Wildlife Refuge Definite Project Report (DPR) with integrated environmental assessment as well as the Clarence Cannon National Wildlife Refuge Plans and Specifications (P&S) implementation document. Products included for review of the DPR are an environmental and cultural assessment; plan formulation; cost estimate; incremental cost analysis; hydraulic and hydrologic analysis; geotechnical analysis; real estate plan; and drawings and specifications. Products included for review of the P&S is the P&S document.

The Environmental Management Program (EMP) study and construction authority is contained in the EMP Programmatic Review Plan (EMP PRP), Section IV.

b. Applicability

This review plan is based on the MVD Model Review Plan, which is applicable to projects that do not require Independent External Peer Review (IEPR), as defined by the mandatory Type I IEPR triggers contained in EC 1165-2-214, Civil Works Review Policy.

The applicability regarding the EMP is contained in the EMP PRP, Section II.

c. References

Reference materials are shown in the EMP PRP.

Clarence Cannon National Wildlife Refuge Project Management Plan, approved August 2013

2. Review Management Organization (RMO) Coordination

RMO coordination will be in accordance with the MP PRP, Sections I, III, VI, and VIII. The RMO for the ATR will be MVD in lieu of ECO-PCX. The PCX will continue to serve in its advisory role.

3. Project Information

a. Decision and/or Implementation document

The Clarence Cannon National Wildlife Refuge HREP decision document will be prepared in accordance with ER 1105-2-100, Appendix F, Amendment #2. The approval level of the decision document (if policy compliant) is MVD. An Environmental Assessment (EA) will be prepared along with the decision document. An implementation document (Plans and Specifications, or P&S), will also be prepared for implementation of the project and will undergo ATR review.

b. Study/Project Description

REVIEW PLAN

Clarence Cannon National Wildlife Refuge, Pike County, Missouri – Mississippi River Pool 25, River Mile 261.1 – 263.8

Clarence Cannon National Wildlife Refuge is a 3,750 acre area federally owned and managed by the U.S. Fish and Wildlife Service. The entire site is surrounded by a ring levee disconnecting the area from the Mississippi River, and the interior is highly fragmented into more than 20 individual small management units. The project area includes seasonally flooded wetlands, non-forested wetlands, bottomland hardwood forest, backwater lakes and sloughs, and floodplain forest. The primary resource problems include: lack of floodplain connectivity, habitat fragmentation, loss of floodplain topographic diversity and aquatic habitat; site water regime struggles to mimic historic water regime; and loss of native wetland habitats. Potential project features to address these problems include: Mississippi River setback berm with degrade of exterior levee; degrading interior berms to form larger management units; water control structures; pump station; excavation; reforestation; and native vegetation plantings. Based upon the project features currently used in the UMRR-EMP Design Handbook (2012) the associated costs are estimated around [REDACTED] HQ approval for a programmatic IEPR exclusion for the Upper Mississippi River System Environmental Management Program was granted on 22 February 2012. No other existing policy waiver request are anticipated.

c. Factors Affecting the Scope and level of Review

The factors affecting the scope and level of review are discussed in the EMP PRP, Section V.

d. In-Kind Contributions

Products and analyses provided by non-Federal sponsors as in-kind services are subject to District Quality Control (DQC) and ATR, similar to any products developed by USACE. No in-kind products are anticipated.

4. District Quality Control (DQC)

District Quality Control (DQC) will be conducted in accordance with the EMP PRP, Section III.A.

5. Agency Technical Review (ATR)

The Agency Technical Review (ATR) will be conducted in accordance with the EMP PRP, Section III.B and VI.C. To assure independence, the leader of the ATR team shall be from outside the home MSC.

6. Policy And Legal Compliance Review

The Policy and Legal Compliance Reviews will be conducted in accordance with the EMP PRP, Section III.D.

7. Cost Engineering Directory of Expertise (DX) Review And Certification

Cost Engineering Directory of Expertise (DX) Review and Certification will be conducted in accordance with the EMP PRP, Section VIII.D.

8. Model Certification And Approval

Approval of planning and engineering models used in EMP projects will be in accordance with the EMP PRP, Section III.E, and Section VII. See Table 1.

Model Approved for use: INSERT APPROVAL DATE <include date of your RP>

REVIEW PLAN
Clarence Cannon National Wildlife Refuge, Pike County, Missouri – Mississippi River Pool 25,
River Mile 261.1 – 263.8

Table 1. Planning and Engineering Models That May Be Used in the Development of Clarence Cannon National Wildlife Refuge HREP

Model Name and Version	Brief Description of the Model and How it Will be Applied in the Study	Certification /Approval Status
IWR-Plan	<p>The IWR-Plan was developed by the Institute of Water Resources as accounting software to compare habitat benefits among alternatives.</p> <p>This model will be used to determine best buy alternatives and incremental cost analysis of alternatives</p>	Certified
Wildlife Habitat Appraisal Guide (WHAG)	<p>The WHAG model is a field evaluation procedure, originally developed by the Missouri Department of Conservation, NRCS and USACE, designed to measure the quality of habitat for 12 select, representative avian and wildlife species. The WHAG is a regionalized version of existing, certified Habitat Evaluation Procedure (HEP) models developed by the U.S. Fish and Wildlife Service. These indicator species were chosen to represent the needs of a wider variety of species and habitat requirements. Results of the WHAG model are used to evaluate among potential species-specific or aggregate habitat improvements or detriments associated with proposed project alternatives as part of the overall USACE ecosystem restoration planning process.</p> <p>This model may be used to determine wetland habitat benefits of CCNWR existing conditions, future without project conditions and alternative plans.</p>	ECO-PCX approved for single use
Aquatic Habitat Appraisal Guide (AHAG)	<p>The AHAG model is a field evaluation procedure, originally developed by the Engineer Research and Development Center (ERDC) and Rock Island District, designed to measure the quality of habitat for 11 select, representative fish species. The AHAG is a regionalized version of existing, certified Habitat Evaluation Procedure (HEP) models developed by the U.S. Fish and Wildlife Service. These indicator species were chosen to represent the needs of a wider variety of species and habitat requirements. Results of the AHAG model are used to evaluate among potential species-specific or aggregate habitat improvements or detriments associated with proposed project alternatives as part of the overall USACE ecosystem restoration planning process.</p> <p>This model may be used to determine the aquatic habitat units of CCNWR existing conditions, future without project conditions and alternative plans</p>	ECO-PCX approved for single use
Micro-Computer Aided Cost Engineering System	<p>MCACES is a cost estimation model.</p> <p>This model will be used to estimate costs for the CCNWR</p>	Certified

REVIEW PLAN
Clarence Cannon National Wildlife Refuge, Pike County, Missouri – Mississippi River Pool 25,
River Mile 261.1 – 263.8

(MCACES) MII Version 3.0	HREP.	
-----------------------------	-------	--

9. Review Schedules And Costs

A. District Quality Control (DQC) Schedule and Cost

1) DQC Estimated Schedule

Event	Kick-off	Reviewer Comments End	PDT Evaluation	Back Check	Complete
<i>Feasibility</i>	11 June 2013	24 Jun 2013	28 June 2013	01 July 2013	01 July 2013

2) DQC Estimated Cost

Reviewer	Feasibility	P&S	Total Cost
Real Estate			
Geotechnical Engineer			
Structural/Mechanical Engineer			
Regulatory			
Environmental			
Plan Formulation			
Civil Engineer			
H&H Engineer			
Cultural Resources			
TOTAL			

B. Agency Technical Review (ATR) Schedule and Cost

1) ATR Estimated Schedule

Event	Kick-off	Reviewer Comments End	PDT Evaluation	Back Check	Complete
Pre-AFB ATR	10 July 2013	25 July 2013	25 July 2013	7 Aug 2013	9 Aug 2013
Pre-AFB Cost ATR	10 July 2013	19 Aug 2013	7 Oct 2013	30 Oct 2013	31 Oct 2013
AFB Conference with MVD	15 Nov 2013	13 Dec 2013	20 Dec 2013	8 Jan 2014	14 Jan 2014
Public Review	15 Jan 2014	15 Feb 2014	20 Feb 2014	n/a	21 Feb 2014
Pre Final DPR ATR	24 Feb 2014	03 Mar 2014	05 Mar 2014	07 Mar 2014	11 Mar 2014
Submit Final	14 Mar 2014	11 Apr 2014	16 Apr 2014	22 Apr 2014	25 Apr 2014

REVIEW PLAN
Clarence Cannon National Wildlife Refuge, Pike County, Missouri – Mississippi River Pool 25,
River Mile 261.1 – 263.8

Report to MVD					
P&S ATR	TBD	TBD	TBD	TBD	TBD

2) ATR Estimated Cost

Reviewer	ATR Pre AFB	ATR Pre Final	ATR P&S	COST
ATR Team Lead				
Civil/Environmental Engineer				
Cultural				
Cost				
Economist				
Geotechnical Engineer				
H&H Engineer				
Real Estate				
Structural Engineer				
Electrical Engineer				
Mechanical Engineer				
TOTAL				

10. Public Participation

Public review will be in accordance with the EMP PRP, Section VI.F

11. Review Plan Approval And Updates

The Review Plan approval process will be in accordance with the EMP PRP, Section VIII.B.

12. Review Plan Points Of Contact

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

- [REDACTED] St. Louis District UMRR-EMP Program Manager , 314-331-8455- MVS
- [REDACTED] St. District District Project Manager, 314-331-8623 - MVS
- [REDACTED] St. Louis Program Manager, 601-634-5293- MVD

REVIEW PLAN
Clarence Cannon National Wildlife Refuge, Pike County, Missouri – Mississippi River Pool 25,
River Mile 261.1 – 263.8

Attachment 1: Team Rosters

Major Subordinate Command Roster – 2013

Name	Title	Contact
	St. Louis Program Manager	
	Deputy Chief DST	

Project Delivery Team Roster – 2013

Name	Discipline/Title	Contact Information
	Sponsor-USFWS Refuge Manager	
	UMRR-EMP Regional Program Manager	
	UMRR-EMP District Program Manager	
	Project Manager	
	Civil Engineer	
	Environmental Planning, Environmental Compliance, GIS Mapping	
	Plan Formulator	
	Hydrology & Hydraulics Engineer	
	Mechanical Engineer	
	Electrical Engineer	
	Structural Engineer	
	Cultural Resources	
	Tribal Coordination	
	Economics	
	Geotechnical Engineer	
	Cost Estimate	
	Real Estate	
	HTRW	
	Survey	

REVIEW PLAN
Clarence Cannon National Wildlife Refuge, Pike County, Missouri – Mississippi River Pool 25,
River Mile 261.1 – 263.8

District Quality Control Roster – 2013

Name	Discipline/Title	Contact Information
	Senior Real Estate Specialist	
	Senior Geotechnical Engineer	
	Senior Mechanical/Structural Engineer	
	Senior Regulatory Specialist	
	Senior Environmental/Planning Specialist	
	Senior Civil Engineer	
	Senior H&H Engineer	
	Senior Cultural Resources Specialist	

REVIEW PLAN
Clarence Cannon National Wildlife Refuge, Pike County, Missouri – Mississippi River Pool 25,
River Mile 261.1 – 263.8

Agency Technical Review Roster – 2013

Name	Discipline/Title	Contact Information	District	Education/ Qualifications	Years of Experience
	ATR Team Lead Environmental/ Planning/Model Review		NWK	B.S. and M.S. in Fisheries & Wildlife; Senior Biological Sciences Environmental Specialist	28
	Civil/Environmental Engineer		MVR	B.S. & M.S. Environmental Engineering	15
	Cultural		MVN	B.A. & M.A. Anthropology; Ph.D. Geography, RPA	30+
	Cost		NWW	P.E., CCE	30+
	Economist		MVP	Acting Chief of Economics Branch in RPEDN	24
	Geotechnical Engineer		MVR	B.S. Civil Engineering, P.E.	8
	H&H Engineer		MVR	B.S. & M.S. Environmental Engineering, P.E.; MVD RTS	20+
	Real Estate		NWK	3+ years as ATR reviewer for NWD with experience in CAP, Flood Control, MRRP, Wetland Projects plus other types	6
	Structural Engineer		MVR	B.S. Civil Engineering, P.E.	10
	Electrical Engineer		MVR	B.S. & M.S. Mechanical Engineering	28
	Mechanical Engineer		MVR	B.S. Mechanical Engineering, P.E.	20+

For further details on ATR members please see the ATR report which contains each reviewer's biographical sketch.

REVIEW PLAN
Clarence Cannon National Wildlife Refuge, Pike County, Missouri – Mississippi River Pool 25,
River Mile 261.1 – 263.8

Attachment 2: Review Plan Revisions

Revision Date	Description of Change	Page/Paragraph Number

REVIEW PLAN
Clarence Cannon National Wildlife Refuge, Pike County, Missouri – Mississippi River Pool 25,
River Mile 261.1 – 263.8

ATTACHMENT 3: EMP Review Plan Checklist

MVD EMP Review Plan Checklist

Date:	July 2013
Originating District:	MVS
Project/Study Title:	Clarence Cannon National Wildlife Refuge HREP
P2# and AMSCO#:	
District POC:	
PCX Reviewer:	

Please fill out this checklist and submit with the draft Review Plan when coordinating with the MSC. Any evaluation boxes checked "No" may indicate the project may not be able to use the MVD Model Review Plan. Further explanation may be needed or a project specific review plan may be required. Additional coordination and issue resolution may be required prior to MSC approval of the Review Plan. Checklist may be limited to Section I or Section II or Both, depending on content of review plan (or subsequent amendments).

Section I - Decision Documents

REQUIREMENT	EVALUATION
1. Is the Review Plan (RP) for an EMP Project?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
a. Does it include a cover page identifying it as following the Model 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?	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 levels of review: District Quality Control (DQC), and Agency Technical Review (ATR)?	e. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
f. Does it include a paragraph stating the title, subject, and purpose of the decision document to be reviewed?	f. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
g. Does it list the names and disciplines of the Project Delivery Team (PDT)?*	g. 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>Comments:</p>	

REVIEW PLAN
Clarence Cannon National Wildlife Refuge, Pike County, Missouri – Mississippi River Pool 25,
River Mile 261.1 – 263.8

2. Is the RP detailed enough to assess the necessary level and focus of the reviews?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
3. Does the RP define the appropriate level of review for the project/study?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<p>a. Does it state that DQC will be managed by the home district in accordance with the MVD and district Quality Management Plans?</p> <p>b. Does it state that ATR will be managed by MVD?</p> <p>Comments:</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>
4. Does the RP explain how ATR will be accomplished?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<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>d. Does it indicate where the ATR team leader will be from?</p> <p>e. 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>Comments:</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>
5. Does the RP address review of sponsor in-kind contributions?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

REVIEW PLAN

**Clarence Cannon National Wildlife Refuge, Pike County, Missouri – Mississippi River Pool 25,
River Mile 261.1 – 263.8**

6. Does the RP address how the review will be documented?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
a. Does the RP address the requirement to document ATR comments using Dr Checks? Comments:	a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
7. Does the RP address Policy Compliance and Legal Review?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
8. Does the RP present the tasks, timing and sequence (including deferrals), and costs of reviews?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
a. Does it provide a schedule for ATR including review of the Alternative Formulation Briefing (AFB) materials and final report? b. Does it include cost estimates for the reviews?	a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
9. Does the RP indicate the study will address Safety Assurance factors? Factors to be considered include: <ul style="list-style-type: none"> • Where failure leads to significant threat to human life • Novel methods\complexity\ precedent-setting models\policy changing conclusions • Innovative materials or techniques • Design lacks redundancy, resiliency of robustness • Unique construction sequence or acquisition plans • Reduced\overlapping design construction schedule 	Yes <input type="checkbox"/> No <input type="checkbox"/> n/a <input checked="" type="checkbox"/> Comments:
10. Does the RP address opportunities for public participation?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
11. Does the RP indicate ATR of cost estimates will be conducted by pre-certified district cost personnel who will coordinate with the Walla Walla Cost DX?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
12. Has the approval memorandum been prepared and does it accompany the RP?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

REVIEW PLAN

**Clarence Cannon National Wildlife Refuge, Pike County, Missouri – Mississippi River Pool 25,
River Mile 261.1 – 263.8**

Section II - Implementation Documents

Please fill out this checklist and submit with the draft Review Plan or subsequent Review Plan amendments when coordinating with the MSC. For DQC, the District is the RMO; for ATR and Type II IEPR, MVD is the RMO. Any evaluation boxes checked "No" indicate the RP possibly may not comply with MVD Model Review Plan and should be explained. Additional coordination and issue resolution may be required prior to MVD approval of the Review Plan.

REQUIREMENT	EVALUATION
1. Are the implementation documents/products described in the review or subsequent amendments?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2. Does the RP contain documentation of risk-informed decisions on which levels of review are appropriate?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
3. Does the RP present the tasks, timing, and sequence of the reviews (including deferrals)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
a. Does it provide an overall review schedule that shows timing and sequence of all reviews?	a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
b. Does the review plan establish a milestone schedule aligned with the critical features of the project design and construction?	b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
4. Does the RP address engineering model review requirements?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
a. Does it list the models and data anticipated to be used in developing recommendations?	a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
b. Does the RP identify any areas of risk and uncertainty associated with the use of the proposed models?	b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
c. Does it indicate the certification/approval status of those models and if review of any model(s) will be needed?	c. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
d. If needed, does the RP propose the appropriate level of review for the model(s) and how it will be accomplished?	d. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
6. Does the RP address expected in-kind contributions to be provided by the sponsor?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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?	Yes <input type="checkbox"/> No <input type="checkbox"/> n/a <input checked="" type="checkbox"/>

REVIEW PLAN

Clarence Cannon National Wildlife Refuge, Pike County, Missouri – Mississippi River Pool 25,
River Mile 261.1 – 263.8

7. Does the RP explain how the reviews will be documented?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
a. Does the RP address the requirement to document ATR comments using Dr Checks 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?	a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
8. Has the approval memorandum been prepared and does it accompany the RP?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

REVIEW PLAN
Clarence Cannon National Wildlife Refuge, Pike County, Missouri – Mississippi River Pool 25,
River Mile 261.1 – 263.8

ATTACHMENT 4:

REVIEW PLAN
Clarence Cannon National Wildlife Refuge, Pike County, Missouri – Mississippi River Pool 25,
River Mile 261.1 – 263.8

**CLARENCE CANNON NATIONAL WILDLIFE REFUGE
UPPER MISSISSIPPI RIVER RESTORATION --
ENVIRONMENTAL MANAGEMENT PROGRAM
HABITAT REHABILITATION AND ENHANCEMENT PROJECT
DEFINITIVE PROJECT REPORT WITH INTEGRATED ENVIRONMENTAL ASSESSMENT AND APPENDICES**

**STATEMENT OF TECHNICAL REVIEW
COMPLETION OF AGENCY TECHNICAL REVIEW**

The Agency Technical Review (ATR) has been completed for the Definite Project Report with Integrated Environmental Assessment for the Clarence Cannon National Wildlife Refuge HREP. 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.

11/5/13
Date

11/5/13
Date

CERTIFICATION OF AGENCY TECHNICAL REVIEW

Significant concerns and the explanation of the resolution are as follows: No Major concerns were identified during ATR.

As noted above, all concerns resulting from the ATR of the project have been fully resolved.

11/6/13
Date

11/6/13
Date