



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

REPLY TO
ATTENTION OF:

CEMVD-DE

31 AUG '17

MEMORANDUM FOR Commander, Rock Island District

SUBJECT: Review Plan Approval for the Upper Mississippi River Restoration (UMRR) Habitat Rehabilitation Enhancement Project, Steamboat Island

1. References:

a. Memorandum, CEMVR-PD-F, 6 July 2017, subject: Upper Mississippi River Restoration (UMRR) Habitat Rehabilitation Enhancement Project, Steamboat Island Review Plan (RP) (encl 1).

b. Memorandum, CEMVD-RB-T, 21 August 2017, subject as above (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 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 this RP, which is subject to change as circumstances require, consistent with study development under the Project Management Business Process. 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-DE

SUBJECT: Review Plan Approval for the Upper Mississippi River
Restoration (UMRR) Habitat Rehabilitation Enhancement Project,
Steamboat Island

4. The MVD point of contact is Mr. Gabe Harris, CEMVD-PDM,
(601) 634-5926.

4 Encls



MICHAEL C. WEHR
Major General, USA
Commanding



REPLY TO
ATTENTION OF

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

JUL 06 2017

CEMVR-PD-F

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

SUBJECT: Upper Mississippi River Restoration (UMRR) Habitat Rehabilitation Enhancement Project, Steamboat Island Review Plan (RP)

1. The subject RP is submitted for your review and approval. The RP is a combined plan for the decision and implementation documents. It includes the UMRR checklist and is prepared in accordance with EC 1105-2-214. An electronic copy of the RP has been sent to Mr. Gabe Harris, CEMVD-PD-SP.

2. The Rock Island District points of contact are Ms. Rachel Perrine, Study Manager, (309) 794-5403, or email: rachel.e.perrine@usace.army.mil, and Ms. Julie Millhollin, Project Manager, (309) 794-5214, or email: julie.l.milhollin@usace.army.mil.

CRAIG S. BAUMGARTNER
COL, EN
Commanding

Encl

REVIEW PLAN
Using the MVD Model Review Plan
for the
Upper Mississippi River Restoration
and
Referencing the UMRR Programmatic Review Plan

Steamboat Island
Scott County, IA – Mississippi River Pool 14
River Mile 502.5 – 506.5

Rock Island District

MSC Approval Date: *None*
Last Revision Date: *10 August 2017*



**US Army Corps
of Engineers ®**

Review Plan
Using the MVD Model Review Plan

Steamboat Island, Scott County, Iowa – Mississippi River Pool 14,
River Mile 502.5 – 506.5

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REVIEW PLAN
Steamboat Island, Scott County, Iowa – Mississippi River Pool 14,
River Mile 502.5 – 506.5

1. Purpose and Requirements

A. Purpose

This Review Plan defines the scope and level of peer review for the Upper Mississippi River Restoration (UMRR) Steamboat Island, Scott County, Iowa – Mississippi River Pool 14, River Mile 502.5–506.5. 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 (HREPs) on the Upper Mississippi River System (UMRS) without specific Congressional authorization. This Review Plan is for the Steamboat Island Feasibility Report with Integrated Environmental Assessment as well as the Plans and Specifications (P&S) implementation document. Products included for review 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. The product included for review of the P&S is the P&S document and Design Documentation Report (DDR).

The UMRR study and construction authority is contained in the UMRR Programmatic Review Plan (UMRR 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 UMRR is contained in the UMRR PRP, Section II.

C. References

- Reference materials shown in the UMRR PRP.
- Steamboat Island Project Management Plan, anticipated to be approved by 28 July 2017.
- Interim Guidance for District Quality Control of Planning Products, approved 25 January 2017.

2. Review Management Organization (RMO) Coordination

Review Management Organization (RMO) coordination will be in accordance with the UMRR PRP, Sections I, III, VI, and VIII. The RMO for the Agency Technical Review (ATR) will be MVD in lieu of the Ecosystem Center of Planning Expertise (ECO-PCX). The ECO-PCX will continue to serve in its advisory role.

3. Project Information

A. Decision and/or Implementation Document

The Steamboat Island 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. The prepared Environmental Assessment (EA) and decision document will undergo DQCR and ATR review. An implementation document (P&S) and DDR will also be prepared for implementation of the project and will undergo DQCR and ATR.

REVIEW PLAN
Steamboat Island, Scott County, Iowa – Mississippi River Pool 14,
River Mile 502.5 – 506.5

B. Study/Project Description

Steamboat Island is a 1,280-acre island located along the right descending bank of the UMRS between River Miles 502.5 and 506.5. The entire island lies within Pool 14, in the northeastern quadrant of Scott County, Iowa, adjacent to the Cities of Cordova, Illinois and Princeton, Iowa. Steamboat Island is directly east of the Princeton Wildlife Management Area, which is actively managed by the Iowa DNR, and approximately 15 miles downstream of Lock and Dam 13. The island is also located within the Upper Mississippi River (UMR) National Wildlife and Fish Refuge. Areas and resources within the Steamboat Island HREP (Project) bounds include: backwater lakes, sloughs, flowing channels, and remnant islands. Though degraded, this important backwater area supports a diverse population of wildlife including ducks, geese, swans, pelicans, eagles, and muskrats. Project lands are federally-owned by USACE and managed by U.S. Fish and Wildlife Service as part of the UMR National Wildlife and Fish Refuge, Savanna District (Figure 1).

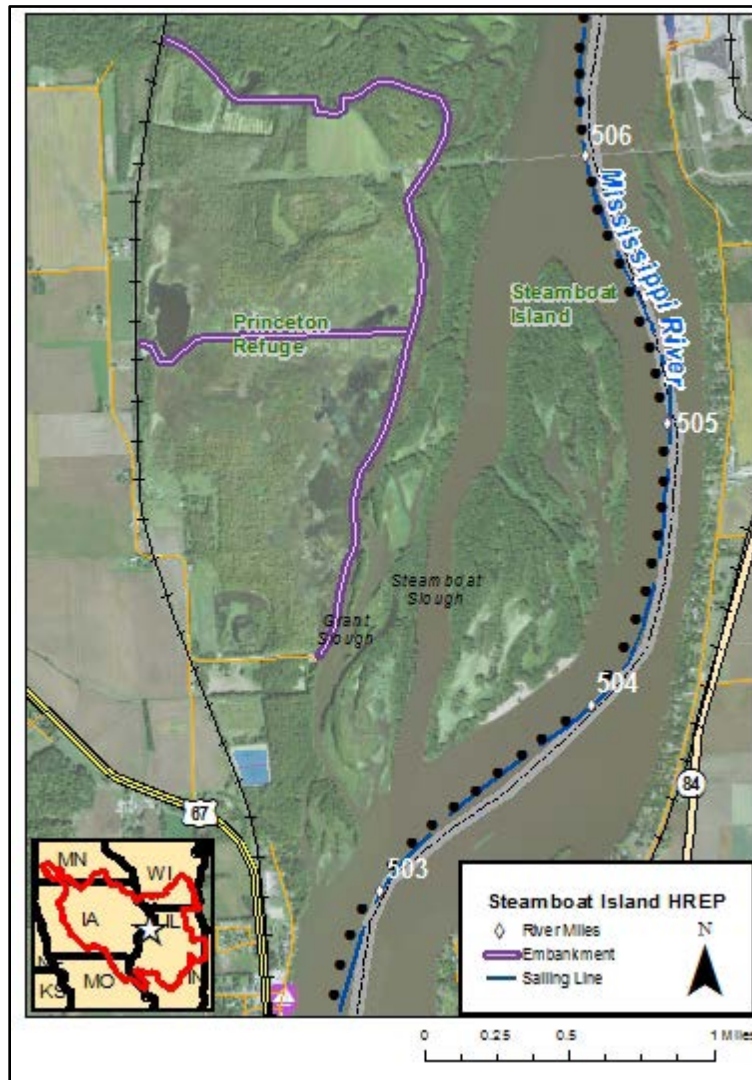


Figure 1. Steamboat Island HREP Project Vicinity

REVIEW PLAN
Steamboat Island, Scott County, Iowa – Mississippi River Pool 14,
River Mile 502.5 – 506.5

Historically, the project area contained a number of small backwater lakes, sloughs, cuts and flowing side channels. These habitats provided valuable overwintering, spawning, and feeding areas for a variety of fish, especially centrarchids. Migratory birds, including waterfowl, shorebirds, and wading birds also used the area extensively. Years of silt deposition has allowed willows and silver maples to colonize the once-aquatic portions of the island, resulting in a degraded wetland complex. In addition, impoundment of the pool and permanently higher water tables have affected the health of floodplain habitat on islands and adjacent floodplain areas. These higher water tables are affecting forest composition and regeneration. Potential project features to address these problems include: backwater and side channel excavation, topographic diversity, and aquatic habitat improvement.

Based upon the project features currently used in the UMRR- Environmental Management Program (EMP) Design Handbook (2012), the associated costs are estimated around \$8 million. HQ approval for a programmatic IEPR exclusion for the UMRS EMP was granted on 22 February 2012. If the cost presented in the Final Feasibility Report is \$10 million or greater, ATR will be required after the Alternative Formulation Briefing (AFB) even if there are no substantial changes from the draft. No other existing policy waiver request is anticipated.

The UMRR study and construction authority is contained in the UMRR Programmatic Review Plan (UMRR PRP), Section IV.

C. Factors Affecting the Scope and Level of Review

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

D. In-Kind Contributions

Products and analyses provided by non-Federal sponsors as in-kind services are subject to DQCR and ATR, similar to any products developed by USACE. No in-kind products are anticipated.

4. District Quality Control Review (DQCR)

The DQCR will be conducted in accordance with the UMRR PRP, Section III.A, [*and in accordance with Interim Guidance for District Quality Control of Planning Products approved by MVD 24 January 2017.*](#) Comments will be documented in DrChecksSM.

5. Agency Technical Review (ATR)

The ATR will be conducted in accordance with the UMRR PRP, Section III.B and VI. To assure independence, the leader of the ATR team shall be from outside the home MSC. Comments will be documented in DrChecksSM.

6. Independent External Peer Review (IEPR)

A programmatic exclusion for the UMRR Program was approved 22 February 2012.

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Steamboat Island, Scott County, Iowa – Mississippi River Pool 14,
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7. Policy and Legal Compliance Review

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

8. Cost Engineering Directory of Expertise (DX) Review and Certification

Cost Engineering DX Review and Certification will be conducted in accordance with the UMRR PRP, Section VIII.D.

9. Model Certification and Approval

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

Table 1. Planning and Engineering Models That May Be Used
in the Development of Steamboat Island Decision Document

Model Name and Version	Brief Description of the Model and How It Will Be Applied in the Study	Certification/ Approval Status
IWR-Plan	The IWR-Plan was developed by the Institute of Water Resources as accounting software to compare habitat benefits among alternatives. This model will be used to determine best buy alternatives and incremental cost analysis of alternatives	Certified
<i>Habitat Evaluation Procedures (HEP) – Habitat Suitability Index (HSI) Models</i>	<i>HEP is a species-habitat approach to assessing the quality of habitat for selected evaluation species serving as proxies for the considered habitat type. The habitat quality is documented with a HSI score on a scale of 0–1. This value is derived from an evaluation of key habitat components necessary for the reproduction, growth, and survival of the species supported by the habitat.</i> <i>HSI models being considered include: Fox Squirrel, Gray Squirrel, Black Capped Chickadee, Bullfrog, Red Eared Slider, Wood Duck, Bluegill</i>	<i>All listed HSI models are Approved for Regional Use within described geographic regions.</i>
<i>Duck-Use-Days (DUD)</i>	<i>The DUD model is used to determine incremental benefits and impacts of this HREP on waterfowl habitats and populations in the project area during the nonbreeding period September through March.</i>	<i>Certified for Regional Use</i>
Micro-Computer Aided Cost Engineering System (MCACES) MII Version 3.0	MCACES is a cost estimation model. This model will be used to estimate costs for the HREP.	Certified
<i>ADH 2DModel</i>	<i>The 2D shallow water equations in ADH are used to model open channel flow environments such as rivers, estuaries, reservoirs, and coastal regions. ADH in 2D calculates variables such as velocity, depth, and concentrations that describe their distribution in the horizontal plane.</i>	<i>CoP Preferred</i>

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Steamboat Island, Scott County, Iowa – Mississippi River Pool 14,
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10. Review Schedules and Costs

A. DQCR Estimated Schedule and Cost

1) DQCR Estimated Schedule

Event	Kick-off	Reviewer Comments End	PDT Evaluation	Back Check	Complete
Feasibility	<i>04 Jan 2019</i>	<i>21 Jan 2019</i>	<i>04 Feb 2019</i>	<i>18 Feb 2019</i>	<i>28 Feb 2019</i>
P&S	<i>01 May 2020</i>	<i>01 Jun 2020</i>	<i>15 Jun 2020</i>	<i>30 Jun 2020</i>	<i>15 Jul 2020</i>

2) DQCR Estimated Cost

Reviewer	Feasibility	P&S	Total Cost
Program Management/Project Management	<i>\$2,000</i>	<i>\$1,000</i>	<i>\$3,000</i>
Plan Formulation	<i>\$5,000</i>	<i>\$1,000</i>	<i>\$6,000</i>
Environmental Planning/Cultural Resources	<i>\$5,000</i>	<i>\$1,000</i>	<i>\$6,000</i>
Civil Engineer	<i>\$4,000</i>	<i>\$2,000</i>	<i>\$6,000</i>
Geotechnical Engineer	<i>\$2,000</i>	<i>\$2,000</i>	<i>\$4,000</i>
H&H Engineer	<i>\$2,000</i>	<i>\$2,000</i>	<i>\$4,000</i>
Cost Engineering	<i>\$2,000</i>	<i>\$2,000</i>	<i>\$4,000</i>
Real Estate	<i>\$2,000</i>	<i>\$1,000</i>	<i>\$3,000</i>
Office of Counsel ¹	<i>\$1,000</i>	<i>\$1,000</i>	<i>\$2,000</i>
TOTAL	<i>\$25,000</i>	<i>\$13,000</i>	<i>\$38,000</i>

¹ Review provided as part of Legal Review

B. ATR Estimated Schedule and Cost

1) ATR Estimated Schedule

Event	Kick-off	Reviewer Comments End	PDT Evaluation	Back Check	Complete
Pre-MDM ATR	<i>04 Mar 2019</i>	<i>18 Mar 2019</i>	<i>1 Apr 2019</i>	<i>15 Apr 2019</i>	<i>26 Apr 2019</i>
Pre-MDM Cost ATR	<i>04 Mar 2019</i>	<i>18 Mar 2019</i>	<i>1 Apr 2019</i>	<i>15 Apr 2019</i>	<i>26 Apr 2019</i>
Submit Final Report to MVD	<i>09 Sep 2019</i>	<i>11 Oct 2019</i>	<i>25 Oct 2019</i>	<i>08 Nov 2019</i>	<i>18 Nov 2019</i>
P&S ATR	<i>01 Aug 2020</i>	<i>01 Sep 2020</i>	<i>15 Sep 2020</i>	<i>30 Sep 2020</i>	<i>15 Oct 2020</i>

2) ATR Estimated Cost

Reviewer	ATR Pre MDM	ATR P&S	Total Cost
ATR Team Lead	<i>\$5,000</i>	<i>\$4,000</i>	<i>\$9,000</i>
Civil/Environmental Engineer	<i>\$4,000</i>	<i>\$4,000</i>	<i>\$8,000</i>
Plan Formulation	<i>\$4,000</i>	<i>\$2,000</i>	<i>\$6,000</i>
Cultural	<i>\$2,000</i>	<i>\$1,000</i>	<i>\$3,000</i>
Environmental Planning Compliance	<i>\$4,000</i>	<i>\$2,000</i>	<i>\$6,000</i>
Cost	<i>\$4,000</i>	<i>\$3,000</i>	<i>\$7,000</i>
Economist	<i>\$2,000</i>	<i>\$0</i>	<i>\$2,000</i>
Geotechnical Engineer	<i>\$2,000</i>	<i>\$2,000</i>	<i>\$4,000</i>
H&H Engineer	<i>\$4,000</i>	<i>\$3,000</i>	<i>\$7,000</i>
Real Estate	<i>\$2,000</i>	<i>\$2,000</i>	<i>\$4,000</i>
TOTAL	<i>\$33,000</i>	<i>\$23,000</i>	<i>\$56,000</i>

REVIEW PLAN
Steamboat Island, Scott County, Iowa – Mississippi River Pool 14,
River Mile 502.5 – 506.5

C. Overall Estimated Review Schedule

Event	Kick-off	Reviewer Comments End	PDT Evaluation	Back Check	Complete
Feasibility DQCR	<i>04 Jan 2019</i>	<i>21 Jan 2019</i>	<i>04 Feb 2019</i>	<i>18 Feb 2019</i>	<i>28 Feb 2019</i>
Pre-MDM ATR	<i>04 Mar 2019</i>	<i>18 Mar 2019</i>	<i>1 Apr 2019</i>	<i>15 Apr 2019</i>	<i>26 Apr 2019</i>
Pre-MDM Cost ATR	<i>04 Mar 2019</i>	<i>18 Mar 2019</i>	<i>1 Apr 2019</i>	<i>15 Apr 2019</i>	<i>26 Apr 2019</i>
MDM Conference with	<i>30 Apr 2019</i>	<i>30 May 2019</i>	<i>14 Jun 2019</i>	<i>28 Jun 2019</i>	<i>08 Jul 2019</i>
Public Review	<i>10 Jul 2019</i>	<i>12 Aug 2019</i>	<i>26 Aug 2019</i>	<i>n/a</i>	<i>06 Sep 2019</i>
Submit Final Report to MVD	<i>09 Sep 2019</i>	<i>11 Oct 2019</i>	<i>25 Oct 2019</i>	<i>08 Nov 2019</i>	<i>18 Nov 2019</i>
P&S DQCR	<i>01 May 2020</i>	<i>01 Jun 2020</i>	<i>15 Jun 2020</i>	<i>30 Jun 2020</i>	<i>15 Jul 2020</i>
P&S ATR	<i>01 Aug 2020</i>	<i>01 Sep 2020</i>	<i>15 Sep 2020</i>	<i>30 Sep 2020</i>	<i>15 Oct 2020</i>

11. Public Participation

Public review will be in accordance with the UMRR PRP, Section VI.F. The public and interested parties will have the opportunity to review and comment on the report during the 30-day public review period. Additional opportunities for public participation will be made available throughout the planning process.

12. Review Plan Approval and Updates

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

13. Review Plan Points of Contact

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

Marvin Hubbell, Rock Island District UMRR Program Manager, 309-794-5428 – MVR

Julie Millhollin, Rock Island District UMRR Project Manager, 309-794-5214 – MVR

Rachel Perrine, Rock Island Study Manager, 309-794-5403 – RPEDN

Gabe Harris, DST, Program Manager, 601-634-5926 – MVD

REVIEW PLAN
Steamboat Island, Scott County, Iowa – Mississippi River Pool 14,
River Mile 502.5 – 506.5

Attachment 1: Team Rosters

Major Subordinate Command Roster – 2017

Name	Title	Contact
Gabe Harris, MVD	DST, Program Manager	William.G.Harris@usace.army.mil
Thatch Shepard, MVD	Deputy, Upper DST	George.T.Shepard@usace.army.mil

Project Delivery Team Roster – 2017

Name	Agency	Contact Information	Role
Sara Schmuecker	USFWS	sara_schmuecker@fws.gov , 309-757-5800	Sponsor/Ecological Services
Ed Britton	USFWS	ed_britton@fws.gov , 815-273-2732	Sponsor/Refuge Manager
Russ Engelke	USFWS	russell_engelke@fws.gov , 815-273-2732	Sponsor/Refuge Specialist
Sharonne Baylor	USFWS	sharonne_baylor@fws.gov , 507-452-4232	Sponsor/Refuge Env Engineer
Stephen Winter	USFWS	stephen_winter@fws.gov , 507-494-6214	Sponsor/Refuge Biologist
Sam Finney	USFWS	sam_finney@fws.gov , 608-783-8432	Sponsor/Fishery Biologist
Sabrina Chandler	USFWS	sabrina_chandler@fws.gov , 507-494-6218	Sponsor/Refuge Complex Manager
Mike Griffin	IADNR	michael.griffin@dnr.iowa.gov , 563-872-5700	Project Proponent
Scott Gritters	IADNR	scott.gritters@dnr.iowa.gov , 563-872-4976	Project Proponent
Kirk Hansen	IADNR	kirk.hansen@dnr.iowa.gov , 563-872-4976	Project Proponent
Marvin Hubbell	PM-M	marvin.e.hubbell@usace.army.mil , 309-794-5428	Program Manager
Julie Millhollin	PM-M	julie.l.milhollin@usace.army.mil , 309-794-5214	Project Manager
Mary Rodkey	PM-M	mary.e.rodkey@usace.army.mil , 309-794-5499	Writer/Editor
Rachel Perrine	PD-F	rachel.e.perrine@usace.army.mil , 309-794-5403	Study Manager
Jackie Veninger	PD-F	jacqueline.veninger@usace.army.mil , 309-794-5007	Community Planner
Kyle Nerad	EC-DN	kyle.r.nerad@usace.army.mil , 309-794-5245	Environmental Engineer
Lucie Sawyer	EC-HQ	lucie.m.sawyer@usace.army.mil , 309-794-5836	Hydraulic Engineer
Anton Stork	EC-HQ	anton.j.stork@usace.army.mil , 309-794-5470	Hydraulic Engineer
Steve Gustafson	EC-DN	stephan.j.gustafson@usace.army.mil , 309-794-5202	HTRW
Elizabeth Bruns	EC-HQ	elizabeth.a.bruns@usace.army.mil , 309-794-5762	Water Quality
John Lacina	EC-TE	john.a.lacina@usace.army.mil , 309-794-5773	Cost Estimator
Jody Schmitz	EC-TE	jody.s.schmitz@usace.army.mil , 309-794-5300	Specifications
Michael Scudder	EC-TS	michael.l.scudder@usace.army.mil , 309-794-5649	Land Surveyor
Cynthia Peterson	PD-C	cynthia.l.peterson@usace.army.mil , 309-794-5396	Archaeologist
Chuck Theiling	PD-P	charles.h.theiling@usace.army.mil , 309-794-5636	Biologist
Ben Vandermyde	OD-MN	ben.j.vandermyde@usace.army.mil , 309-794-4522	Forester
Jason Appel	RE-P	jason.c.appel@usace.army.mil , 309-794-5489	Real Estate Specialist
Brunson Grothus	CT	brunson.e.grothus@usace.army.mil , 309-794-5241	Contract Specialist
Rebecca Landwehr	OC	rebecca.n.landwehr@usace.army.mil , 309-794-5478	Office of Counsel
Tom Darby	PM-M	thomas.a.darby@usace.army.mil , 309-794-5393	GIS
Cyrus Yaghoboi	EC-G	cyrus.m.yaghobi@usace.army.mil , 309-794-5402	Geotechnical Engineer

REVIEW PLAN
Steamboat Island, Scott County, Iowa – Mississippi River Pool 14,
River Mile 502.5 – 506.5

District Quality Control Roster (Feasibility and P&S) – 2017

Name	Org	Role/Department	Phone
Marvin Hubbell	PM-M	Program/Program Management	309-794-5428
Marshall Plumley	PD-F	Plan Formulation	309-794-5447
Kara Mitvalsky	EC-DN	Environmental Eng/HTRW	309-794-5623
Jim Ross	PD-P	Environmental Planning/Cultural Resources	309-794-5540
Diane Karnish	PD-E	Economics	309-794-5006
Nicole Manasco	EC-HQ	Hydraulic Engineering/Water Quality	309-794-5558
Garrett Mattila	EC-TE	Cost Engineering	309-794-5524
Tim Kennedy	RE-P	Real Estate	314-331-8180
Randy Kinney	EC-G	Geotechnical Engineering	309-794-5843
Rebecca Landwehr	OC	Office of Counsel	309-794-5478

Agency Technical Review Roster (Feasibility and P&S) - 2017

Name	Discipline	Specialized Experienced Needed
TBD	ATR Team Lead	Senior Planner with experience in large river ecosystem restoration projects
TBD	Plan Formulation	Senior Plan Formulator with experience in large river ecosystem restoration projects
TBD	Environmental Engineering	Senior Environmental Engineer with experience in large river ecosystem restoration projects
TBD	Environmental Planning	Senior Environmental Specialist with experience in large river ecosystem restoration projects, NEPA compliance, and ecological modeling
TBD	Hydraulic Engineering/Water Quality	Senior H&H Engineer with experience with 2-dimensional models; Senior Water Quality Specialist with experience in large river ecosystem restoration projects
TBD	Cost Engineering	Nominated by Cost DX
TBD	Economics	Certified Reviewer with IWR-Plan Experience
TBD	Real Estate	Senior Real Estate Specialist with experience in Federal lands and MOU's
TBD	Geotechnical Engineering	Senior Geotech Engineer with experience in backwater dredging and berm construction
TBD	Cultural Resources	Senior Cultural Resource Specialist
TBD	HTRW	May not be needed depending on Recommended Plan; environmental engineer should be able to serve this role

REVIEW PLAN
*Steamboat Island, Scott County, Iowa – Mississippi River Pool 14,
River Mile 502.5 – 506.5*

Attachment 2: Review Plan Revisions

Revision Date	Description of Change	Page/Paragraph Number
28 June 2017	Original RP Drafted	

REVIEW PLAN
Steamboat Island, Scott County, Iowa – Mississippi River Pool 14,
River Mile 502.5 – 506.5

Attachment 3: Upper Mississippi River Restoration Review Plan Checklist

MVD EMP Review Plan Checklist

Date:	
Originating District:	MVR
Project/Study Title:	UMRR - Steamboat Island HREP Feasibility Study
P2# and AMSCO#:	335015
District POC:	Rachel Perrine
MVD 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 UMRR Project?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<p>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?</p> <p>b. Does it include a table of contents?</p> <p>c. Is the purpose of the RP clearly stated?</p> <p>d. Does it reference the Project Management Plan of which the RP is a component?</p> <p>e. Does it succinctly describe the levels of review: DQCR and ATR?</p> <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>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> <p>f. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>g. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>

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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 DQCR 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 type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>e. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
5. Does the RP address review of sponsor in-kind contributions?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
6. Does the RP address how the review will be documented?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<p>a. Does the RP address the requirement to document ATR comments using DrChecksSM?</p> <p>Comments:</p>	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"/>
<p>a. Does it provide a schedule for ATR including review of the AFB materials and final report?</p> <p>b. Does it include cost estimates for the reviews?</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>

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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 Directory of Expertise Review?	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"/>

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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 DQCR, 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"/>

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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 DrChecks SM 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"/>

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Attachment 4: District Quality Control Review Approval

**STATEMENT OF DISTRICT REVIEW FOR DECISION DOCUMENTS
COMPLETION OF DISTRICT QUALITY CONTROL REVIEW**

District Quality Control Review (DQCR) has been completed for the <type of product> for <project name and location>. DQCR was conducted as defined in the project Review Plan to comply with the requirements of EC 1165-2-214. During the DQCR, 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 U.S. Army Corps of Engineers policy. The Project Delivery Team conducted a complete reading of the report and appendices to ensure coherence and consistency through the document. All comments resulting from the DQCR have been resolved and closed in DrChecksSM.

SIGNATURE

Name

DQCR Team Leader

Office Symbol

Date

SIGNATURE

Name

Project Manager

Office Symbol

Date

SIGNATURE

Name

Lead Planner

Office Symbol

Date

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CERTIFICATION OF DISTRICT QUALITY CONTROL 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 DQCR of the project have been fully resolved.

SIGNATURE

Name

Chief, Regional Planning and
Environment Division

Office Symbol

Date

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Attachment 5: Agency Technical Review Approval

COMPLETION OF AGENCY TECHNICAL REVIEW

The Agency Technical Review (ATR) has been completed for the *<product type & short description of item>* for *<project name and location>*. The ATR was conducted as defined in the project's Review Plan to comply with the requirements of EC 1165-2-214. During the ATR, compliance with established policy principles and procedures, utilizing justified and valid assumptions, was verified. This included review of: assumptions, methods, procedures, and material used in analyses, alternatives evaluated, the appropriateness of data used and level obtained, and reasonableness of the results, including whether the product meets the customer's needs consistent with law and existing U.S. Army Corps of Engineers policy. The ATR also assessed the District Quality Control Review (DQCR) documentation and made the determination that the employed DQCR activities appear to be appropriate and effective. All comments resulting from the ATR have been resolved and the comments have been closed in DrChecksSM.

SIGNATURE _____

[Name]

Date

ATR Team Leader

[Office Symbol or Name of AE Firm]

SIGNATURE _____

[Name]

Date

Project Manager (Home District)

[Office Symbol]

SIGNATURE _____

[Name]

Date

Architect Engineer Project Manager¹

[Company, location]

SIGNATURE _____

[Name]

Date

Review Management Office Representative

[Office Symbol]

¹ Needed only if some portion of the ATR was contracted

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CERTIFICATION OF AGENCY TECHNICAL REVIEW

Significant concerns and the explanation of the resolution are as follows:

[Describe the major technical concerns and their resolution and specifically list any agreed-upon deferrals to be completed in the next phase of work.]

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

SIGNATURE

Name

Chief, Engineering Division (Home District)

Office Symbol

Date

SIGNATURE

Name

Chief, Planning Division² (Home District)

Office Symbol

Date

Add appropriate additional signatures (Operations, Construction, AE principal for ATR solely conducted by AE, etc.) and/or modify to accommodate local organizational structure.

² Decision Documents Only.