

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

Beaver Island
Clinton County, IA – Mississippi River Pool 14
River Mile 513.0 – 513.5

Rock Island District

MSC Approval Date: None
Last Revision Date: None



**US Army Corps
of Engineers ®**

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

**Beaver Island, Clinton County, Iowa – Mississippi River Pool 14,
River Mile 513.0 – 515.5**

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1. Purpose and Requirements

a. Purpose

This Review Plan defines the scope and level of peer review for the *UMRR-EMP HREP Beaver Island, Clinton County, Iowa – Mississippi River Pool 14, River Mile 513.0 – 515.5. 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 (HREP) on the Upper Mississippi River System without specific Congressional authorization. This Review Plan is for the Beaver Island Definite Project Report (DPR) with integrated environmental assessment as well as the 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.

Beaver Island Project Management Plan, approved May 27, 2014.

2. Review Management Organization (RMO) Coordination

RMO coordination will be in accordance with the EMP 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 *Beaver Island 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 DOQR and ATR review.*

b. Study/Project Description

Beaver Island is located along the right descending bank of the UMRS in the southern portion of Clinton

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County, IA. The Project area is in Pool 14 between river miles 513.0 and 515.5 adjacent to the cities of Clinton and Camanche, Iowa. Lock and Dam 13 is located 5 miles upstream of the island system. Areas considered as part of this project include Beaver Slough, Grass Slough, and Lower Lake. The 2,300-acre Beaver Island Complex represents 16% of Pool 14 backwater habitat. Project lands are federally-owned by the Corps of Engineers and the U.S. Fish and Wildlife Service (USFWS). All the federally-owned lands are managed by USFWS as part of the Upper Mississippi River National Wildlife and Fish Refuge, Savanna District. Upstream portions of the island are privately owned, but are not included in the project area.

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: backwater and side channel excavation, water control structures, reforestation and mussel habitat restoration. Based upon the project features currently used in the UMRR-EMP Design Handbook (2012) the associated costs are estimated around \$16 million. 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 is 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. To assure independence, the leader of the ATR team shall be from outside the home MSC.

6. Independent External Peer Review (IEPR)

A programmatic exclusion for the Upper Mississippi River Restoration Program was approved 22 February 2012.

7. Policy and Legal Compliance Review

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

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8. 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.*

Table 1. Planning and Engineering Models that may be Used in the Development of Beaver Island HREP

<i>Model Name and Version</i>	<i>Brief Description of the Model and How It Will Be Applied in the Study</i>	<i>Certification/ Approval Status</i>
<i>IWR-Plan</i>	<i>The IWR-Plan was developed by the Institute of Water Resources as accounting software to compare habitat benefits among alternatives.</i> <i>This model will be used to determine best buy alternatives and incremental cost analysis of alternatives</i>	<i>Certified</i>
<i>Aquatic Habitat Appraisal Guide (AHAG)</i>	<i>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.</i> <i>This model may be used to determine the aquatic habitat units of the existing conditions, future without project conditions and alternative plans</i>	<i>ECO-PCX approved for single use</i>
<i>Micro-Computer Aided Cost Engineering System (MCACES) MII Version 3.0</i>	<i>MCACES is a cost estimation model.</i> <i>This model will be used to estimate costs for the HREP.</i>	<i>Certified</i>
<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>Certified</i>

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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>	21 Dec 2014	09 Jan 2015	23 Jan 2015	06 Feb 2015	19 Feb 2015
<i>P&S</i>	03 Oct 2016	24 Oct 2016	07 Nov 2016	21 Nov 2016	31 Nov 2016

2) DQC Estimated Cost

Reviewer	Feasibility	P&S	Total Cost
Real Estate	\$1,000	\$1,000	\$2,000
Geotechnical Engineer	\$1,500	\$3,000	\$4,500
Structural/Mechanical Engineer	\$3,000	\$2,000	\$5,000
Regulatory	\$1,200		\$1,200
Environmental	\$1,000		\$1,000
Plan Formulation	\$1,000		\$1,000
Civil Engineer	\$1,000	\$2,000	\$3,000
H&H Engineer	\$1,000	\$2,000	\$3,000
Cultural Resources	\$1,000		\$1,000
TOTAL	\$11,700	\$10,000	\$21,700

B. Agency Technical Review (ATR) Schedule and Cost

1) ATR Estimated Schedule

Event	Kick-off	Reviewer Comments End	PDT Evaluation	Back Check	Complete
<i>Pre-AFB ATR</i>	19 Feb 2015	12 Mar 2015	26 Mar 2015	13 Apr 2015	20 Apr 2015
<i>Pre-AFB Cost ATR</i>	19 Feb 2015	12 Mar 2015	26 Mar 2015	13 Apr 2015	20 Apr 2015
<i>AFB Conference with MVD</i>	20 Apr 2015	20 May 2015	03 Jun 2015	10 Jun 2015	24 Jun 2015
<i>Public Review</i>	24 Jun 2015	24 Jul 2015	n/a	n/a	24 Jul 2015
<i>Submit Final Report to MVD</i>	24 Aug 2015	21 Sep 2015	28 Sep 2015	30 Sep 2015	02 Oct 2015
<i>P&S ATR</i>	12 Dec 2016	02 Jan 2017	23 Jan 2017	06 Feb 2017	16 Feb 2017

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2) ATR Estimated Cost

Reviewer	ATR Pre AFB	ATR Pre Final	ATR P&S	COST
ATR Team Lead	\$3,000	\$2,500	\$2,500	\$8,000
Civil/Environmental Engineer	\$3,000	\$1000	\$3,000	\$7,000
Cultural	\$2,000	\$500	\$0	\$2,500
Cost	\$2,500	\$500	\$3,000	\$6,000
Economist	\$2,000	\$500	\$0	\$2,500
Geotechnical Engineer	\$2,500	\$500	\$2,500	\$5,500
H&H Engineer	\$5,500	\$500	\$3,000	\$9,000
Real Estate	\$2,000	\$500	\$2,000	\$4,500
TOTAL	\$22,500.00	\$6,500.00	\$16,000.00	\$45,000.00

C. Overall Estimated Review Schedule

Event	Kick-off	Reviewer Comments End	PDT Evaluation	Back Check	Complete
<i>Feasibility DQC</i>	21 Dec 2014	09 Jan 2015	23 Jan 2015	06 Feb 2015	19 Feb 2015
<i>Pre-AFB ATR</i>	19 Feb 2015	12 Mar 2015	26 Mar 2015	13 Apr 2015	20 Apr 2015
<i>Pre-AFB Cost ATR</i>	19 Feb 2015	12 Mar 2015	26 Mar 2015	13 Apr 2015	20 Apr 2015
<i>AFB Conference with MVD</i>	20 Apr 2015	20 May 2015	03 Jun 2015	10 Jun 2015	24 Jun 2015
<i>Public Review</i>	24 Jun 2015	24 Jul 2015	n/a	n/a	24 Jul 2015
<i>Submit Final Report to MVD</i>	24 Aug 2015	21 Sep 2015	28 Sep 2015	30 Sep 2015	02 Oct 2015
<i>P&S DQCR</i>	03 Oct 2016	24 Oct 2016	07 Nov 2016	21 Nov 2016	31 Nov 2016
<i>P&S ATR</i>	12 Dec 2016	02 Jan 2017	23 Jan 2017	06 Feb 2017	16 Feb 2017

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.

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12. 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 UMR-EMP Program Manager, 309-794-5428 - MVR](#)
- [Monique Savage, Rock Island Project Manager, 309-794-5342 - RPEDN](#)
- [Gabe Harris, Rock Island Program Manager, 601-634-5926 - MVD](#)

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Attachment 1: Team Rosters

Major Subordinate Command Roster – 2014

Name	Title	Contact
Gabe Harris, MVD	Rock Island Program Manager	William.G.Harris@usace.army.mil
Renee Turner, MVD	Deputy Chief DST	Renee.N.Turner@usace.army.mil

Project Delivery Team Roster – 2014

Name	Department	Email/Phone
Jon Duyvejonck	USFWS	Jon_Duyvejonck@fws.gov 309-757-5800
Ed Britton	USFWS	Ed_Britton@fws.gov 815-273-2732
Russ Engelke	USFWS	Russell_Engelke@fws.gov 815-273-2732
Sharonne Baylor	USFWS	Sharonne_Baylor@fws.gov 507-452-4232
Mike Griffin	IADNR	Michael.Griffin@dnr.iowa.gov 563-872-5700
Scott Gritters	IADNR	Scott.Gritters@dnr.iowa.gov 563-872-4976
Andrew Leichty	PM-M	andrew.l.leichty@usace.army.mil 309-794-5399
Darron Niles	PD-F	darron.l.niles@usace.army.mil 309-794-5400
Monique Savage	PD-F	monique.e.savage@usace.army.mil 309-794-5342
Kara Mitvalsky	EC-DN	kara.n.mitvalsky@usace.army.mil 309-794-5623
Lucie Sawyer	EC-HQ	lucie.m.sawyer@usace.army.mil 309-794-5836
Elizabeth Bruns	EC-HQ	david.p.bierl@usace.army.mil 309-794-5581
Chris De Pooter	EC-TE	christopher.j.depooter@usace.army.mil 309-794-
Fred Hanshaw	EC-TE	fred.c.hanshaw@usace.army.mil 309-794-5348
Nate Richards	PD-E	nathan.s.richards@usace.army.mil 309-794-5286
Brant Vollman	PD-E	brant.j.vollman@usace.army.mil 309-794-5857
Jon Schultz	OD-MN	jon.r.schultz@usace.army.mil 309-794-4537
Jason Appel	RE-P	jason.c.appel@usace.army.mil 309-794-5489
Justine Womboldt	CT	justine.a.womboldt@usacearmy.mil 309-794-5488
Pat Flynn	OC	patrick.j.flynn@usace.army.mil 309-794-5215
Rachel Perrine	OD-PE	rachel.perrine@usace.army.mil 309-794-5371
Mike Siadak	PM-M	michael.w.siadak@usace.army.mil 309-794-5343
Felix Castro	EC-G	felix.r.castro@usace.army.mil 309-794-5716

District Quality Control Roster – 2014

Name	Department	Email/Phone
Camie Knollenberg	PD-F	camie.a.knollenberg@usace.army.mil 309-794-5487
Julie Millhollin	EC-DN	julie.l.milhollin@usace.army.mil 309-794-5439
Tom Kirkeeng	EC-HQ	thomas.a.kirkeeng@usace.army.mil 309-794-5433
Dave Bierl	EC-HQ	david.p.bierl@usace.army.mil 309-794-5581
Garrett Mattila	EC-TE	garrett.p.mattila@usace.army.mil 309-794-5524
Steven Marruffo	EC-TE	steven.c.marruffo@usace.army.mil 309-794-5548
Ken Barr	PD-P	kenneth.a.barr@usace.army.mil 309-794-5349
Diane Karnish	PD-E	diane.e.karnish@usace.army.mil 309-794-5006
Ron Silver	RE-P	ronald.silver@usace.army.mil 309-794-5506
Chris Hawes	PM-M	christopher.c.hawes@usace.army.mil 309-794-5219
Tom Mack	EC-G	Thomas.e.mack@usace.army.mil 309-794-5716

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Agency Technical Review Roster – 2014

Name	Department	District	Email/Phone
Allen Holland	Lead	NWK	Allen.e.holland@usace.army.mil 816-389-
<u>TBD</u>	<u>Senior Plan Formulator with experience in large river ecosystem restoration projects.</u>		<u>TBD</u>
<u>TBD</u>	<u>Senior Environmental Specialist with experience in large river ecosystem restoration projects.</u>		<u>TBD</u>
<u>TBD</u>	<u>Senior Cultural Resource Specialist</u>		<u>TBD</u>
<u>TBD</u>	<u>Senior Environmental Engineer with experience in large river ecosystem restoration projects.</u>		<u>TBD</u>
<u>TBD</u>	<u>Senior H&H Engineer with experience with 2-dimensional models.</u>		<u>TBD</u>
<u>TBD</u>	<u>Senior Cost Estimator</u>		<u>TBD</u>
<u>TBD</u>	<u>Senior Real Estate Specialist with experience in Federal lands and MOU's.</u>		<u>TBD</u>

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Attachment 2: Review Plan Revisions

Revision Date	Description of Change	Page/Paragraph Number

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Attachment 3: EMP Review Plan Checklist

MVD EMP Review Plan Checklist

Date:	June 3, 2014
Originating District:	MVR
Project/Study Title:	Beaver Island HREP
P2# and AMSCO#:	134034
District POC:	Monique Savage
PCX Reviewer:	Jodi Creswell

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"/>
*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.	
Comments:	

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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 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 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"/>

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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 Dr Checks?</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 Alternative Formulation Briefing (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>
<p>9. Does the RP indicate the study will address Safety Assurance factors? Factors to be considered include:</p> <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 	<p>Yes <input type="checkbox"/> No <input type="checkbox"/> n/a <input checked="" type="checkbox"/></p> <p>Comments:</p>
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"/>

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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 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"/>
<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>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 address engineering model review requirements?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<p>a. Does it list the models and data anticipated to be used in developing recommendations?</p> <p>b. Does the RP identify any areas of risk and uncertainty associated with the use of the proposed models?</p> <p>c. Does it indicate the certification/approval status of those models and if review of any model(s) will be needed?</p> <p>d. If needed, does the RP propose the appropriate level of review 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>d. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
5. Does the RP explain how and when there will be opportunities for the public to comment on the study or project to be reviewed?	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 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"/>

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Attachment 4: ATR 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 US Army Corps of Engineers policy. The ATR also assessed the District Quality Control (DQC) documentation and made the determination that the DQC activities employed appear to be appropriate and effective. All comments resulting from the ATR have been resolved and the comments have been closed in DrCheckssm.

SIGNATURE

[Name] 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]

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] Date
Chief, Engineering Division (home district)
[Office Symbol]

REVIEW PLAN
*Beaver Island, Clinton County, Iowa – Mississippi River Pool 14,
River Mile 513.0 – 515.5*

SIGNATURE

[Name]

Date

Chief, Planning Division² (home district)

[Office Symbol]

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

1 Only needed if some portion of the ATR was contracted 2 Decision Documents Only.