



DEPARTMENT OF THE ARMY

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

REPLY TO  
ATTENTION

CEMVD-PD-SP

12 APR 2012

MEMORANDUM FOR Commander, Rock Island District

SUBJECT: Review Plan Approval for Environmental Management Program (EMP) Huron Island Complex Habitat Rehabilitation and Enhancement Project, Des Moines County, Iowa

1. References:

a. Memorandum, CEMVR-PD-F, 13 December 2012, subject: Environmental Management Program (EMP) Huron Island Complex Habitat Rehabilitation and Enhancement Project Review Plan (encl 1).

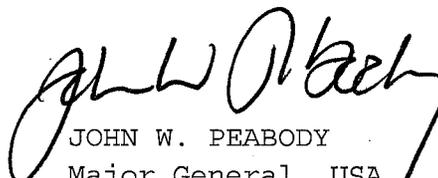
b. Memorandum, CEMVD-RB-T, 13 January 2012, subject: Huron Island Review Plan (encl 2).

2. The enclosed Review Plan is a combined decision document and implementation document review plan. It includes the MVD Review Plan Checklist for CAP and has been prepared in accordance with EC 1165-2-209. The Review Plan has been coordinated between the Business Technical Division and the Upper District Support Team.

3. I hereby approve the current Huron Island Complex, Habitat Rehabilitation and Enhancement Project Review Plan, which complies with all applicable policy, engineering, and environmental analyses, and other aspects of plan development. Once the Programmatic Review Plan is approved at HQUSACE, this project specific review plan will need to be revised accordingly. Non-substantive changes to this Review Plan do not require further approval. The district should post the approved Review Plan to its website.

4. My point of contact for this action is Mrs. Renee Turner, CEMVD-PD-SP, (601) 634-5818.

2 Encls

  
JOHN W. PEABODY  
Major General, USA  
Commanding



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

REPLY TO  
ATTENTION OF

DEC 13 2011

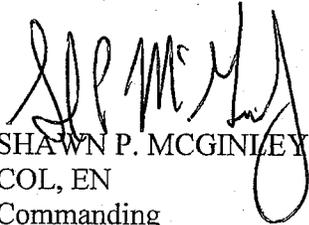
CEMVR-PD-F

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

SUBJECT: Environmental Management Program (EMP) Huron Island Complex Habitat  
Rehabilitation and Enhancement Project Review Plan.

1. The subject Model Review Plan (Encl 1) and MVD CAP Review Plan Checklist (Encl 2) for Huron Island Complex 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 CAP Review Plan Checklist has been sent to Mr. Fred Ragan, CEMVD-PD-SP.
2. The points of contact are Mrs. Monique Savage, Study Manager, at (309)794-5342, or e-mail: [monique.e.savage@usace.army.mil](mailto:monique.e.savage@usace.army.mil) or Mr. Marvin Hubbell, EMP Program Manager, at (309)794-5428, or e-mail: [marvin.e.hubbell@usace.army.mil](mailto:marvin.e.hubbell@usace.army.mil).

Encls  
as

  
SHAWN P. MCGINLEY  
COL, EN  
Commanding

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

**Huron Island Complex Des Moines County, Iowa – Mississippi River, Pool 18,**  
**River Mile 421.2-425.4**

**Rock Island District**

**MSC Approval Date: Pending**  
**Last Revision Date: None**



**US Army Corps  
of Engineers®**

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

**Huron Island Complex Des Moines County, Iowa – Mississippi River, Pool 18, River Mile 421.2-425.4**

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## REVIEW PLAN

### Huron Island Complex Des Moines County, Iowa – Mississippi River, Pool 18, River Mile 421.2-425.4

#### 1. Purpose and Requirements

##### a. Purpose

This Review Plan defines the scope and level of peer review for the UMRS-EMP HREP Huron Island Complex Des Moines County, Iowa – Mississippi River, Pool 18, River Mile 421.2-425.4. 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 Huron Island Complex Definite Project Report (DPR) as well as the Huron Island Complex Plans and Specification (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 1165-2-209, Civil Works Review Policy. The request to exclude Huron Island Complex from IEPR was approved by Headquarters on January 6, 2012.

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

##### c. References

Reference materials are shown in the EMP PRP.

#### 2. Review Management Organization (RMO) Coordination

RMO coordination will be in accordance with the EMP PRP, Sections I, III, VI, and VIII.

#### 3. Project Information

##### a. Decision and Implementation Document

The Huron Island Complex Des Moines County, Iowa – Mississippi River, Pool 18, River Mile 421.2-425.4 decision document and implementation 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), will also be prepared and will undergo DQC and ATR review.

##### b. Study/Project Description

## REVIEW PLAN

### Huron Island Complex Des Moines County, Iowa – Mississippi River, Pool 18, River Mile 421.2-425.4

Huron Island Complex is a 2,000 acre area federally owned by the Corps of Engineers and managed by the US Fish and Wildlife Service. The US Fish and Wildlife Service has granted management of the project area to the Iowa Department of Natural Resource through a cooperative agreement. The project includes 164 acres of backwater areas and 500 acres of secondary channels. Sedimentation in these areas has negatively affected fish and wildlife habitat by decreasing depth and reducing water clarity when fine sediments are resuspended by waves. The Huron Island Complex is a heavily forested island complex. The forested area has declined from a diverse forested wetland to a mono-typical silver maple forested wetland. Potential project features to address these problems are dredging (mechanical or hydraulic), water control structures, berm, potholes, J-hooks, tree plantings, and vanes. Based upon the project features currently used in the EMP handbook the associated costs are estimated around \$8 mil. HQ approval for IEPR exclusion was granted on 6 Jan 2012 for Huron Island, no other existing policy waiver requests 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, Sections III.B and VI.C.

#### **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.

**REVIEW PLAN**

**Huron Island Complex Des Moines County, Iowa – Mississippi River, Pool 18, River Mile 421.2-425.4**

**Table 1. Planning Models That May Be Used in the Development of Huron Island Complex**

| <b><u>Model Name and Version</u></b>   | <b><u>Brief Description of the Model and How It Will Be Applied in the Study</u></b>  | <b><u>Certification / Approval Status</u></b>                                       |
|--|---|---|
| <u>IWR-Plan</u>  | <p><u>The IWR-Plan was developed by Institute of Water Resources as accounting software to compare habitat benefits among alternatives.</u></p> <p><u>This model will be used to determine best buy plans and incremental cost analysis of alternatives</u></p>   | <u>Certified</u>  |
| <u>Wildlife Habitat Appraisal Guide (WHAG)</u>                                     | <p><u>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. 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.</u></p> <p><u>This model may be used to determine the floodplain habitat units of Huron Island's existing conditions, future without project conditions and alternative plans.</u></p>                      | <u>Review In Process</u>  |
| <u>Aquatic Habitat Appraisal Guide (AHAG)</u>                                      | <p><u>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. 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.</u></p> <p><u>This Model may be used to determine the aquatic habitat units of Huron Island's existing conditions, future without project conditions and alternative plans.</u></p>                  | <u>Review In Process</u>  |
| <u>USFWS Habitat Suitability Index Models for other species (HEP or Bluebooks)</u> | <p><u>Habitat Evaluation Procedure (HEP) is a species-habitat approach to impact assessment and habitat quality for selected evaluation species document with an index, the Habitat Stability Index (HIS). This value is derived from an evaluation of the ability of key habitat components to compare existing habitat conditions and optimum habitat conditions for the species of interest. There are currently 166 models for invertebrates, fish, amphibians, reptiles, birds, mammals, and communities.</u></p> <p><u>Since the review process is not complete on WHAG and AHAG the HEP procedure is an alternative model choice to determine the wetland and aquatic habitat units associated with the project. As the project progresses a determination will be made as to which model is more appropriate.</u></p> | <u>Approved, pending certification of spreadsheets or other accounting software</u> |

**REVIEW PLAN**

Huron Island Complex Des Moines County, Iowa – Mississippi River, Pool 18, River Mile 421.2-425.4

**Table 2. Engineering Models That Are Being Used in the Development of EMP Projects**

| <u>Model</u>                             | <u>Brief Description of the</u>   | <u>Status</u>                          |
|--|---|--|
| <u>ADH 2-dimensional hydraulic model</u> | <u>Adaptive Hydraulics Modeling (ADH) system developed by the Coastal and Hydraulics Laboratory, ERDC, USACE (and is capable of handling both saturated and unsaturated groundwater, overland flow, three-dimensional Navier-Stokes flow, and two- or three-dimensional shallow water problems. One of the major benefits of ADH is its use of adaptive numerical meshes that can be employed to improve model accuracy without sacrificing efficiency. It also</u> | <u>Community of Practice preferred</u> |

**9. Review Schedules and Costs**

a. DQC Schedule and Cost.

(1) DQC Estimated Schedule

| <u>Event</u>       | <u>Kick-off</u> | <u>Reviewer Comments End</u> | <u>PDT Evaluation</u> | <u>Back Check</u> | <u>Complete</u> |
|--------------------|-----------------|------------------------------|-----------------------|-------------------|-----------------|
| <u>Feasibility</u> | <u>03/10/12</u> | <u>03/24/12</u>              | <u>04/01/12</u>       | <u>04/10/12</u>   | <u>04/16/12</u> |
| <u>P&amp;S DQC</u> | <u>04/08/13</u> | <u>04/22/13</u>              | <u>04/30/13</u>       | <u>05/10/13</u>   | <u>05/17/13</u> |

(2) DQC Estimated Cost

| <u>Reviewer</u>          | <u>Feasibility</u> | <u>P&amp;S</u> | <u>Total Cost</u> |
|--------------------------|--------------------|----------------|-------------------|
| <u>Planner</u>           | <u>\$1,000</u>     |                | <u>\$1,000</u>    |
| <u>Engineer</u>          | <u>\$1,000</u>     | <u>\$2,000</u> | <u>\$3,000</u>    |
| <u>Natural Resources</u> | <u>\$1,000</u>     |                | <u>\$1,000</u>    |
| <u>Cost Estimate</u>     | <u>\$1,500</u>     | <u>\$2,000</u> | <u>\$3,500</u>    |
| <u>Real Estate</u>       | <u>\$1,000</u>     |                | <u>\$1,000</u>    |
| <u>Geotech</u>           | <u>\$1,000</u>     | <u>\$2,000</u> | <u>\$3,000</u>    |
| <u>H&amp;H</u>           | <u>\$1,500</u>     | <u>\$2,000</u> | <u>\$3,500</u>    |
| <u>TOTAL</u>             | <u>\$8,000</u>     | <u>\$8,000</u> | <u>\$16,000</u>   |

**REVIEW PLAN**

**Huron Island Complex Des Moines County, Iowa – Mississippi River, Pool 18, River Mile 421.2-425.4**

**b. ATR Schedule and Cost**

(1) ATR Estimated Schedule

| <u>Event</u>             | <u>Kick-off</u> | <u>Reviewer Comments End</u> | <u>PDT Evaluation</u> | <u>Back Check</u> | <u>Complete</u> |
|--------------------------|-----------------|------------------------------|-----------------------|-------------------|-----------------|
| <u>Pre AFB ATR</u>       | <u>04/17/12</u> | <u>05/04/12</u>              | <u>05/18/12</u>       | <u>06/02/12</u>   | <u>06/12/12</u> |
| <u>AFB Conference</u>    | <u>06/13/12</u> | <u>NA</u>                    | <u>NA</u>             | <u>NA</u>         | <u>07/13/12</u> |
| <u>Pre Final DPR ATR</u> | <u>07/14/12</u> | <u>NA</u>                    | <u>NA</u>             | <u>NA</u>         | <u>07/30/12</u> |
| <u>P&amp;S ATR</u>       | <u>05/20/13</u> | <u>06/15/13</u>              | <u>06/30/13</u>       | <u>07/19/13</u>   | <u>08/13/13</u> |

(2) ATR Estimated Cost

| <u>Reviewer</u>                       | <u>ATR Pre AFB</u> | <u>ATR Feasibility</u> | <u>ATR P&amp;S</u> | <u>Cost</u>     |
|---------------------------------------|--------------------|------------------------|--------------------|-----------------|
| <u>ATR Lead (AFB review included)</u> | <u>\$2,000</u>     | <u>\$1,000</u>         | <u>\$2,000</u>     | <u>\$5,000</u>  |
| <u>Planner</u>                        | <u>\$2,000</u>     | <u>\$1,000</u>         |                    | <u>\$3,000</u>  |
| <u>Engineer</u>                       | <u>\$2,000</u>     | <u>\$1,000</u>         | <u>\$2,000</u>     | <u>\$5,000</u>  |
| <u>Natural Resources</u>              | <u>\$2,000</u>     | <u>\$1,000</u>         |                    | <u>\$3,000</u>  |
| <u>Cost Estimate</u>                  | <u>\$2,500</u>     | <u>\$500</u>           | <u>\$2,500</u>     | <u>\$5,500</u>  |
| <u>Real Estate</u>                    | <u>\$2,000</u>     | <u>\$500</u>           | <u>\$2,000</u>     | <u>\$4,500</u>  |
| <u>Geotech</u>                        | <u>\$2,000</u>     | <u>\$500</u>           | <u>\$2,000</u>     | <u>\$4,500</u>  |
| <u>H&amp;H</u>                        | <u>\$3,000</u>     | <u>\$500</u>           | <u>\$3,000</u>     | <u>\$6,500</u>  |
| <u>TOTAL</u>                          | <u>\$17,500</u>    | <u>\$6,000</u>         | <u>\$13,500</u>    | <u>\$37,000</u> |

**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:

- Steve Rumple, Rock Island District Program Manager, (309)794-5565 - MVR
- Monique Savage, Rock Island District Plan Formulator, (309) 794-5342 - MVR
- Fred Ragan, Rock Island Program Manager, (601) 634-5926 -MVD

**REVIEW PLAN**

**Huron Island Complex Des Moines County, Iowa – Mississippi River, Pool 18, River Mile 421.2-425.4**

**Attachment 1: Team Rosters**

**PRODUCT DELIVERY TEAM ROSTER - 2012**

| <b><u>Name</u></b>           | <b><u>Title</u></b>                        | <b><u>Contact Information</u></b>             |
|------------------------------|--|---|
| <u>Kathy Henry</u>           | <u>Sponsor- FWS Service</u>                | <u>319-523-6982</u>                           |
| <u>Bernie Schonhoff</u>      | <u>Proponent - IA DNR</u>                  | <u>563-263-5062</u>                           |
| <u>Mike Griffin</u>          | <u>Proponent - IA DNR</u>                  | <u>563-872-5700</u>                           |
| <u>Marv Hubbell</u>          | <u>Regional Program Manager</u>            | <u>Marvin.E.Hubbell@usace.army.mil</u>        |
| <u>Steve Rumble</u>          | <u>Program Manager</u>                     | <u>Stephen.T.Rumble@usace.army.mil</u>        |
| <u>Monique Savage</u>        | <u>Plan Formulator</u>                     | <u>Monique.E.Savage@usace.army.mil</u>        |
| <u>Heather Anderson</u>      | <u>Senior Project Engineer</u>             | <u>Heather.L.anderson@usace.army.mil</u>      |
| <u>Kara Mitvalsky</u>        | <u>Project Engineer</u>                    | <u>Kara.N.Mitvalsky@usace.army.mil</u>        |
| <u>Lucie Sawyer</u>          | <u>Hydraulic &amp; Hydrologic Engineer</u> | <u>Lucie.M.Sawyer@usace.army.mil</u>          |
| <u>Felix Castro-Calderon</u> | <u>Geotechnical Engineer</u>               | <u>Felix.R.Castro-Calderon@usace.army.mil</u> |
| <u>Mike Cummings</u>         | <u>Cost Engineer</u>                       | <u>Michael.R.Cummings@usace.army.mil</u>      |
| <u>Nate Richards</u>         | <u>NEPA Compliance Specialist</u>          | <u>Nathan.S.Richards@usace.army.mil</u>       |
| <u>Brant Vollman</u>         | <u>Cultural Resources Specialist</u>       | <u>Brant.J.Vollman@usace.army.mil</u>         |
| <u>Jason Appel</u>           | <u>Real Estate Specialist</u>              | <u>Jason.C.Appel@usace.army.mil</u>           |
| <u>Mark Pratt</u>            | <u>Construction POC</u>                    | <u>Mark.R.PRatt@usace.army.mil</u>            |
| <u>Allen Giger</u>           | <u>Survey Engineer</u>                     | <u>Allen.Giger@usace.army.mil</u>             |
| <u>Tom Minear</u>            | <u>District Counsel</u>                    | <u>Thomas.B.Minear@usace.army.mil</u>         |
| <u>LaShell Harper</u>        | <u>Lead Technician</u>                     | <u>LaShell.L.Harper@usace.army.mil</u>        |
| <u>Emily Johnson</u>         | <u>Support Technician</u>                  | <u>Emily.J.Johnson@usace.army.mil</u>         |
| <u>Donna Jones</u>           | <u>Regulatory</u>                          | <u>Donna.M.Jones@usace.army.mil</u>           |

**DISTRICT QUALITY CONTROL ROSTER - 2012**

| <b><u>Name</u></b>           | <b><u>Title</u></b>                        | <b><u>Email</u></b>                          |
|------------------------------|--|--|
| <u>Darron Niles</u>          | <u>Senior Plan Formulator</u>              | <u>Darron.L.Niles@usace.army.mil</u>         |
| <u>Ken Barr</u>              | <u>Senior Environmental Specialist</u>     | <u>Kenneth.A.Barr@usace.army.mil</u>         |
| <u>Ken Barr</u>              | <u>Senior Cultural Resource Specialist</u> | <u>Kenneth.A.Barr@usace.army.mil</u>         |
| <u>Rachel Fellman</u>        | <u>Senior Environmental Engineer</u>       | <u>Rachel.C.Fellman@usace.army.mil</u>       |
| <u>Tom Kirkeeng</u>          | <u>Senior H&amp;H Engineer</u>             | <u>Thomas.A.Kirkeeng@usace.army.mil</u>      |
| <u>Jotham Povich</u>         | <u>Senior Geotechnical Engineer</u>        | <u>Jotham.K.Povich@usace.army.mil</u>        |
| <u>Charlie Van Laarhoven</u> | <u>Senior Cost Estimator</u>               | <u>Charles.R.VanLaarhoven@usace.army.mil</u> |
| <u>Debra VanOpdorp</u>       | <u>Senior Real Estate Specialist</u>       | <u>Debra.J.VanOpdorp@usace.army.mil</u>      |

**REVIEW PLAN**

**Huron Island Complex Des Moines County, Iowa – Mississippi River, Pool 18, River Mile 421.2-425.4**

**AGENCY TECHNICAL REVIEW ROSTER - 2012**

| <u>Name</u>          | <u>Title</u>                               | <u>Email</u>                          | <u>District</u> |
|----------------------|--|---------------------------------------|-----------------|
| <u>John Grothaus</u> | <u>ATR Team Leader</u>                     | <u>John.J.Grothaus@usace.army.mil</u> | <u>NWK</u>      |
| <u>TBD</u>           | <u>Senior Plan Formulator</u>              | <u>TBD</u>                            |                 |
| <u>TBD</u>           | <u>Senior Environmental Specialist</u>     | <u>TBD</u>                            |                 |
| <u>TBD</u>           | <u>Senior Cultural Resource Specialist</u> | <u>TBD</u>                            |                 |
| <u>TBD</u>           | <u>Senior Environmental Engineer</u>       | <u>TBD</u>                            |                 |
| <u>TBD</u>           | <u>Senior H&amp;H Engineer</u>             | <u>TBD</u>                            |                 |
| <u>TBD</u>           | <u>Senior Geotechnical Engineer</u>        | <u>TBD</u>                            |                 |
| <u>TBD</u>           | <u>Senior Cost Estimator</u>               | <u>TBD</u>                            |                 |
| <u>TBD</u>           | <u>Senior Real Estate Specialist</u>       | <u>TBD</u>                            |                 |

**MAJOR SUBORDINATE COMMAND ROSTER - 2012**

| <u>Name</u>              | <u>Title</u>            | <u>Email</u>                         |
|--------------------------|-------------------------|--------------------------------------|
| <u>Fred Ragan, MVD</u>   | <u>Program Manager</u>  | <u>Fredrick.Ragan@usace.army.mil</u> |
| <u>Renee Turner, MVD</u> | <u>Deputy Chief DST</u> | <u>Renee.N.Turner@usace.army.mil</u> |

**REVIEW PLAN**

**Huron Island Complex Des Moines County, Iowa – Mississippi River, Pool 18, River Mile 421.2-425.4**

**Attachment 2: Review Plan Revisions**

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

### MVD CAP Review Plan Checklist

|   |                             |
|---|-----------------------------|
| <b>Date:</b>  | 06 SEP 2011                 |
| <b>Originating District:</b>  | MVR                         |
| <b>Project/Study Title:</b>   | Huron Island Complex        |
| <b>P2# and AMSCO#:</b>  | 134085                      |
| <b>District POC:</b>  | Monique Savage/Steve Rumble |
| <b>MSC Reviewer:</b>  |                             |
| <b>CAP Authority:</b>   | N/A                         |
| <b>Other Program Directed to follow CAP Processes:</b> Environmental Management Program (EMP) |                             |

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   |
|---|--|
| <b>1. Is the Review Plan (RP) for a Continuing Authorities Project? Or Other Program Directed to follow CAP Processes?</b>  | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/><br>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), Agency Technical Review (ATR), and Independent External Peer Review (IEPR) if applicable for Sec 103 or Sec 205? | 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"/>   |
| <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>                             |  |
| <b>Comments:</b>  |  |

|   |  |
|---|--|
| <p><b>2. Is the RP detailed enough to assess the necessary level and focus of the reviews?</b></p>  | <p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>   |
| <p><b>3. Does the RP define the appropriate level of review for the project/study?</b></p>  | <p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>   |
| <p>a. Does it state that DQC will be managed by the home district in accordance with the MVD and district Quality Management Plans?</p> <p>b. Does it state that ATR will be managed by MVD?</p> <p>c. Does it state whether IEPR will be performed? For Sec 103 and Sec 205, see additional questions in 5. below.</p> <p><b>Comments:</b></p>   | <p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>c. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>  |
| <p><b>4. Does the RP explain how ATR will be accomplished?</b></p>  | <p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>   |
| <p>a. Does it identify the anticipated number of reviewers?</p> <p>b. Does it provide a succinct description of the primary disciplines or expertise needed for the review (not simply a list of disciplines)?</p> <p>c. Does it indicate that ATR team members will be from outside the home district?</p> <p>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><b>Comments:</b> Anwer to question e. is NA since names of ATR team are not included</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 type="checkbox"/></p> |
| <p><b>5. For Sec 103 and Sec 205 projects, does the RP explain how IEPR will be accomplished?</b></p>   | <p>Yes <input type="checkbox"/> No <input type="checkbox"/><br/>n/a <input checked="" type="checkbox"/></p>  |
| <p>a. Is an exclusion being requested, requiring CG approval?</p> <p>b. Does it provide a defensible rationale for the decision on IEPR?</p> <p>c. If IEPR is required, does it state that IEPR will be managed by an Outside Eligible Organization, external to the Corps of Engineers?</p> <p>d. If IEPR is required, does the RP indicate which PCX will manage the IEPR and whether any coordination with the PCX has occurred?</p> <p><b>Comments:</b></p>   | <p>a. Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>c. Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>d. Yes <input type="checkbox"/> No <input type="checkbox"/></p>  |
| <p><b>6. Does the RP address review of sponsor in-kind contributions?</b></p>   | <p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>   |

|   |  |
|---|--|
| <b>7. Does the RP address how the review will be documented?</b>  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>  |
| <p>a. Does the RP address the requirement to document ATR and IEPR comments using Dr Checks?</p> <p>b. Does the RP explain how the IEPR will be documented in a Review Report?</p> <p>c. Does the RP document how written responses to the IEPR Review Report will be prepared?</p> <p>c. Does the RP detail how the district will disseminate the final IEPR Review Report, USACE response, and all other materials related to the IEPR on the internet and include them in the applicable decision document?</p> <p><b>Comments:</b></p>                              | <p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input type="checkbox"/> No <input type="checkbox"/><br/>n/a <input checked="" type="checkbox"/></p> <p>c. Yes <input type="checkbox"/> No <input type="checkbox"/><br/>n/a <input checked="" type="checkbox"/></p> <p>d. Yes <input type="checkbox"/> No <input type="checkbox"/><br/>n/a <input checked="" type="checkbox"/></p> |
| <b>8. Does the RP address Policy Compliance and Legal Review?</b>   | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>  |
| <b>9. Does the RP present the tasks, timing and sequence (including deferrals), and costs of reviews?</b>   | 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 present the timing and sequencing for IEPR?</p> <p>c. 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 type="checkbox"/> No <input type="checkbox"/><br/>n/a <input checked="" type="checkbox"/></p> <p>c. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>   |
| <p><b>10. Does the RP indicate the study will address Safety Assurance factors?</b><br/>Factors to be considered include:</p> <ul style="list-style-type: none"> <li>● Where failure leads to significant threat to human life</li> <li>● Novel methods\complexity\ precedent-setting models\policy changing conclusions</li> <li>● Innovative materials or techniques</li> <li>● Design lacks redundancy, resiliency of robustness</li> <li>● Unique construction sequence or acquisition plans</li> <li>● Reduced\overlapping design construction schedule</li> </ul> | <p>Yes <input type="checkbox"/> No <input type="checkbox"/><br/>n/a <input checked="" type="checkbox"/></p> <p><b>Comments:</b></p>  |
| <b>11. Does the RP address opportunities for public participation?</b>  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>  |
| <b>12. 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?</b>  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>  |
| <b>13. Has the approval memorandum been prepared and does it accompany the RP?</b>  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>  |

## 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 type="checkbox"/> No <input type="checkbox"/><br/>NA</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"/>   |
| <p>6. Does the RP address expected in-kind contributions to be provided by the sponsor?</p> <p>If expected in-kind contributions are to be provided by the sponsor, does the RP list the expected in-kind contributions to be provided by the sponsor?</p>  | <p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Yes <input type="checkbox"/> No <input type="checkbox"/><br/>NA</p>   |

|   |   |
|---|---|
| <b>7. Does the RP explain how the reviews will be documented?</b>   | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>   |
| <p>a. Does the RP address the requirement to document ATR comments using Dr Checks and Type II IEPR published comments and responses pertaining to the design and construction activities summarized in a report reviewed and approved by the MSC and posted on the home district website?</p> <p>b. Does the RP explain how the Type II IEPR will be documented in a Review Report?</p> <p>c. Does the RP document how written responses to the Type II IEPR Review Report will be prepared?</p> <p>d. Does the RP detail how the district/MVD will disseminate the final Type II IEPR Review Report, USACE response, and all other materials related to the Type II IEPR on the internet?</p> | <p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input type="checkbox"/> No <input type="checkbox"/><br/>NA</p> <p>c. Yes <input type="checkbox"/> No <input type="checkbox"/><br/>NA</p> <p>d. Yes <input type="checkbox"/> No <input type="checkbox"/><br/>NA</p> |
| <b>8. Has the approval memorandum been prepared and does it accompany the RP?</b>   | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>   |

13 Jan 2012

MEMORANDUM FOR CEMVD-PD-SP (Charles Barton)

SUBJECT: Huron Island Review Plan

1. Subject Review Plan was reviewed by RB-T and RB-W with the following comments.
2. The model review plan makes several references to the Environmental Management Program (EMP) Programmatic Review Plan (PRP). It is stated that ATR will be conducted in accordance with the EMP PRP, Sections III.B and VI.C. Section VI.C states "The Home District will propose the ATR team and lead to MVD for its approval". This does not agree with EC 1165-2-209 paragraph 7b which states "With the exception of District Quality Control/Quality Assurance, all reviews shall be managed by an office outside the home district..." Unless an exception has been made by HQUSACE, the RMO is responsible for coordination/selection of ATR team members.
3. Table 2 lists the ADH 2-dimensional hydraulic model as an engineering model that is being used in the development of EMP projects. The certification/approval status of this hydraulic model should be provided similar to that provided for the planning models' status in table 1.
4. The RB-T point of contact is Mr. Allen Perry, 601-634-5883.

  
ROBERT H. FITZGERALD, P.E.  
Chief, Business Technical  
Division

CF: CEMVD-RB-W