



**DEPARTMENT OF THE ARMY**  
U.S. ARMY ENGINEER DISTRICT, LOUISVILLE  
CORPS OF ENGINEERS  
P.O. BOX 59  
LOUISVILLE, KENTUCKY 40201-0059

REPLY TO  
ATTENTION OF:

CELRL-PM-C

SEP 19 2013

MEMORANDUM FOR Commander, U. S. Army Engineer Division, Great Lakes and Ohio River Division (ATTN: CELRD-PDS-R/Adrienne Gordon), 550 Main Street, Cincinnati, Ohio 45202

SUBJECT: Rough River Dam, KY; Dam Safety Modification Project (P2# 145870); Implementation Phase; Request for Review Plan Update Approval

1. References:

a. Engineering Circular (EC) 1165-2-214, Water Resources Policies and Authorities, Civil Works Review, 15 December 2012.

b. Review Plan Update for the Rough River Dam, KY; Dam Safety Modification Project (P2# 145870); Implementation Phase

2. In accordance with EC 1165-2-214, the Louisville District requests review and approval of the Review Plan Update (enclosed) for the subject project.

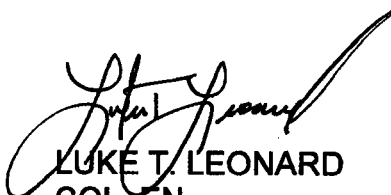
3. The initial Review Plan was approved by LRD in January 2013. The Review Plan was prepared for the implementation phase documents and includes plans and specifications for District Quality Control Reviews, Agency Technical Reviews, and Type II Independent External Peer Reviews (IEPR).

4. This update documents the decision that the Type II IEPR would not include a review of the first contract (KY Hwy 79 Relocation) since there is no life safety issue with this contract. This was decided at a meeting in June 2013 between the Risk Management Center leadership and Louisville District leadership. The Project Delivery Team concurred with this decision. Therefore, the Type II IEPR contract will be initiated prior to the completion of plans and specs for the Phase 1 grouting.

5. After your approval, the Review Plan will be posted to the CELRL Internet site.

6. The Louisville District point of contact for this action is Mr. Barry Schueler, Project Manager, 502-315-6780.

Encl

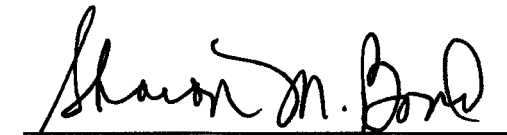
  
LUKE T. LEONARD  
COL, EN  
Commanding

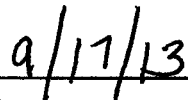
**Certification of Planning Policy and Quality Control Compliance**

**Rough River Dam, KY  
Dam Safety Modification Project  
Implementation Phase  
Review Plan Update**

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I certify that the Louisville District submission of the update to the Review Plan for the Rough River Dam, KY; Dam Safety Modification Project has been thoroughly reviewed in the District, and that all technical and policy issues have been resolved. The initial Review Plan was approved by LRD in January 2013. The Review Plan is for the implementation phase documents and includes plans and specifications for District Quality Control Reviews, Agency Technical Reviews, and Type II Independent External Peer Reviews (IEPR). This update documents the decision that the Type II IEPR would not include a review of the first contract (KY Hwy 79 Relocation) since there is no life safety issue with this contract. This was decided at a meeting in June 2013 between the Risk Management Center leadership and Louisville District leadership. The Project Delivery Team concurred with this decision. Therefore, the Type II IEPR contract will be initiated prior to the completion of plans and specs for the Phase 1 grouting.

  
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SHARON M. BOND  
Chief, Planning Branch

  
\_\_\_\_\_  
Date

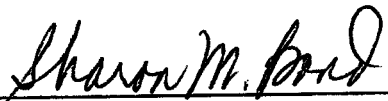
## Certification of Planning Policy and Quality Control Compliance

### Rough River Dam, KY Dam Safety Modification Project Implementation Phase Review Plan Update

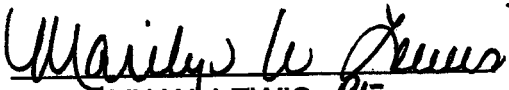
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I certify that the Louisville District submission of the update to the Review Plan for the Rough River Dam, KY; Dam Safety Modification Project has been thoroughly reviewed in the District, and that all technical and policy issues have been resolved. The initial Review Plan was approved by LRD in January 2013. The Review Plan is for the implementation phase documents and includes plans and specifications for District Quality Control Reviews, Agency Technical Reviews, and Type II Independent External Peer Reviews (IEPR). This update documents the decision that the Type II IEPR would not include a review of the first contract (KY Hwy 79 Relocation) based on the factors to consider for conducting a Type II IEPR review that are outlined in EC 1165-2-214, Appendix E, Section 2 (a) thru (c). This was decided at a meeting in June 2013 between the Risk Management Center leadership and Louisville District leadership. The Project Delivery Team concurred with this decision and the factors are discussed in the Review Plan Update.

Therefore, the Type II IEPR contract will be initiated prior to the completion of plans and specs for the Phase 1 grouting.

  
\_\_\_\_\_  
SHARON M. BOND  
Chief, Planning Branch

11/25/13  
Date

  
\_\_\_\_\_  
MARILYN W. LEWIS, PE  
Chief, Engineering Division

11/25/13  
Date



**DEPARTMENT OF THE ARMY**  
U.S. ARMY ENGINEER DIVISION, GREAT LAKES AND OHIO RIVER  
CORPS OF ENGINEERS  
550 MAIN STREET  
CINCINNATI, OH 45202

CELRD-PD-R

20 March 14

MEMORANDUM FOR Commander, U.S. Army Engineer District, Louisville, Attention, Mrs. Sharon Bond (CELRL-PM-P), Louisville District, U.S. Army Corps of Engineers, 600 Dr. Martin Luther King Jr. Place, Louisville, Kentucky

SUBJECT: Review Plan(Update) for Rough River Dam Safety Major Rehabilitation Approval Memorandum

1. The attached Review Plan (RP) Update for Rough River Dam Safety Major Rehabilitation was distributed for review at the Great Lakes and Ohio River Division (LRD) for approval in accordance with EC 1165-2-214 "Civil Works Review".
2. Rough River Dam is located in Breckinridge, Hardin and Grayson Counties in south central Kentucky. The dam is located on the Rough River, 89.3 miles above its confluence with the Green River, near the community of Falls of Rough, approximately 20 miles from Leitchfield and 95 miles southwest of Louisville. The dam is rolled earth and rockfill type, with gate-controlled outlet works and is 130 ft high and 1,590 ft long. The project was authorized as a multi-purpose flood control project with additional authorized responsibilities for recreation management, environmental stewardship, water supply and water quality.
3. The flood protection plan for the Ohio River Basin, which included the construction of the Rough River Dam, was authorized by the Flood Control Act approved on 28 June 1938 (Public Law 761, 75<sup>th</sup> Congress, 3<sup>rd</sup> Session). It was revised under a report titled "Rough River and Tributaries, Kentucky" and published as House Document No. 535, 78<sup>th</sup> Congress, 2<sup>nd</sup> Session, 1944. Construction began in November 1955 and ended in December 1960.
4. A Dam Safety Modification Report (DSMR) was approved on 27 August 2012. This report was prepared in response to a Dam Safety Action Classification (DSAC) Class II (urgent-unsafe or potentially unsafe) ranking for Rough River Dam. This ranking was established by the Senior Oversight Group subsequent to an evaluation through the Screening Portfolio Risk Assessment (SPRA) program conducted in 2005.
5. The Review Plan (RP) is the key to ensuring credibility and accountability for the Rough River Dam Safety Major Rehabilitation through the definition of scope and level of peer review for the decision document. Additionally, this RP is the basis for compliance with the Information Quality Act requirement to ensure and maximize the quality, objectivity, utility and integrity of information provided in this report to be disseminated by the agency.

CELRD-PD-R

SUBJECT: Review Plan (Update) for Rough River Dam Safety Major Rehabilitation

6. The original Review Plan was approved by LRD on 11 January 2013. As stated in the Louisville Transmittal Letter and in the Review Plan Update, "this update documents the decision that the Type II IEPR would not include a review of the first contract (KY Hwy 79 Relocation) since there is no life safety issue with this contract. This was decided at a meeting in June 2013 between the Risk Management Center leadership and Louisville District leadership. The Project Delivery Team concurred with this decision. Therefore, the Type II IEPR contract will be initiated prior to the completion of plans and specs for the Phase 1 grouting." The revisions are annotated in Attachment 4 of the Review Plan Update.
7. The USACE LRD Review Management Organization (RMO) has reviewed the attached RP and concurs that it describes the scope of review for work phases and addresses all appropriate levels of review consistent with the requirements described in EC 1165-2-214.
8. I concur with the recommendations of the RMO and approve the enclosed RP Update for the Rough River Dam Safety Major Rehabilitation.
9. The District is requested to post the RP Update to its website. Prior to posting, the names of all individuals identified in the RP Update should be removed.
10. If you have any questions or need additional information, please contact Mr. Phil Tilly, CELRD-PD-O, at (513) 684-3090, [Philip.r.tilly@usace.army.mil](mailto:Philip.r.tilly@usace.army.mil).

Encls

1. RMC Memo, dated 21 Nov 2013
2. Review Plan



MARGARET W. BURCHAM  
Brigadier General, USA  
Commanding



**DEPARTMENT OF THE ARMY**  
RISK MANAGEMENT CENTER, CORPS OF ENGINEERS  
12596 W. BAYAUD AVENUE SUITE 400  
LAKEWOOD, CO 80228

REPLY TO  
ATTENTION OF  
CEIWR-RMC-WD

CEIWR-RMC

21 November 2013

MEMORANDUM FOR: Commander, Louisville District, ATTN: CELRL-PM-C

SUBJECT: Risk Management Center Endorsement – Rough River Dam, KY – Dam Safety Modification Implementation Phase Review Plan - Revision 1

1. The Risk Management Center (RMC) has reviewed the revised Review Plan (RP) for the Rough River Dam, dated November 2013, and concurs that this RP provides for an adequate level of peer review and complies with the current peer review policy requirements outlined in EC 1165-2-214 “Civil Works Review”, dated 15 December, 2012.
2. This review plan was prepared by the Louisville District, reviewed by the Great Lakes and Ohio River Division and the RMC, and all review comments have been satisfactorily resolved.
3. The RMC endorses this document to be approved by the MSC Commander. Upon approval of the RP, please provide a copy of the approved RP, a copy of the MSC Commander’s approval memorandum, and a link to where the RP is posted on the District website to Tom Bishop, RMC Senior Review Manager ([thomas.w.bishop@usace.army.mil](mailto:thomas.w.bishop@usace.army.mil)).
4. Thank you for the opportunity to assist in the preparation of this RP. Please coordinate all aspects of the Agency Technical Review and the Type II IEPR. For further information, please do not hesitate to contact me at (303) 963-4556.

Sincerely,

BISHOP.THOMAS.WA  
LDRON.1228686030

Digitally signed by  
BISHOP.THOMAS.WA.LDRON.1228686030  
DN: cn=US, ou=U.S. Government, ou=DOD,  
ou=FAO, ou=USA,  
c=US, email=BISHOP.THOMAS.WA.LDRON.1228686030  
Date: 2013.11.21 07:45:28 -0600

THOMAS W. BISHOP, P.E.  
Senior Review Manager  
Risk Management Center

CF:  
CEIWR-RMC-ZA (Mr. Snorteland)  
CELRD (Division Quality Manager)



**DEPARTMENT OF THE ARMY**  
**U.S. ARMY ENGINEER DIVISION, GREAT LAKES AND OHIO RIVER**  
**CORPS OF ENGINEERS**  
**550 MAIN STREET**  
**CINCINNATI, OH 45202**

CELRD-PDS-R

11 Jan 13

MEMORANDUM FOR Commander, U.S. Army Engineer District, Louisville, Attention, Amy Babey (CELRD-PM-P), Louisville District, U.S. Army Corps of Engineers, 600 Dr. Martin Luther King Jr. Place, Louisville, Kentucky

**SUBJECT: Review Plan for Rough River Dam Safety Major Rehabilitation**

1. The attached Review Plan (RP) for Rough River Dam Safety Major Rehabilitation was distributed for review at the Great Lakes and Ohio River Division for approval in accordance with EC 1165-2-209 "Civil Works Review" on 17 December 2012.
2. Rough River Dam is located in Breckinridge, Hardin and Grayson Counties in south central Kentucky. The dam is located on the Rough River, 89.3 miles above its confluence with the Green River, near the community of Falls of Rough, approximately 20 miles from Leitchfield and 95 miles southwest of Louisville. The dam is rolled earth and rockfill type, with gate-controlled outlet works and is 130 ft high and 1,590 ft long. The project was authorized as a multi-purpose flood control project with additional authorized responsibilities for recreation management, environmental stewardship, water supply and water quality.
3. The flood protection plan for the Ohio River Basin, which included the construction of the Rough River Dam, was authorized by the Flood Control Act approved on 28 June 1938 (Public Law 761, 75<sup>th</sup> Congress, 3<sup>rd</sup> Session). It was revised under a report titled "Rough River and Tributaries, Kentucky" and published as House Document No. 535, 78<sup>th</sup> Congress, 2<sup>nd</sup> Session, 1944. Construction began in November 1955 and ended in December 1960.
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5. The Review Plan (RP) is the key to ensuring credibility and accountability for the Rough River Dam Safety Major Rehabilitation through the definition of scope and level of peer review for the decision document. Additionally, this RP is the basis for compliance with the Information Quality Act requirement to ensure and maximize the quality, objectivity, utility and integrity of information provided in this report to be disseminated by the agency.
6. The USACE LRD Review Management Organization (RMO) has reviewed the attached RP and concurs that it describes the scope of review for work phases and addresses all appropriate

CELRD-PDS-R

SUBJECT: Review Plan for Rough River Dam Safety Major Rehabilitation

levels of review consistent with the requirements described in EC 1165-2-209.


7. I concur with the recommendations of the RMO and approve the enclosed RP for the Rough River Dam Safety Major Rehabilitation.

8. The District is requested to post the RP to its website. Prior to posting, the names of all individuals identified in the RP should be removed.

9. If you have any questions or need additional information, please contact Dr. Hank Jarboe, CELRD-PDS-P, at (513) 684-6050.

Encls

1. RMC Memo, dated 8 Jan 2013
2. Review Plan

  
MARGARET W. BURCHAM  
Brigadier General, USA  
Commanding