

1. Administrative Details

Proposal Name: Modification of Missouri River Federal Levee System R-613 and R-616

by Agency: Papio-Missouri River Natural Resources District

Locations: NE

Date Submitted: 09/23/2015

Confirmation Number: d81499cf-0039-4b69-82ac-6baed3bfbe07

Supporting Documents

File Name	Date Uploaded
150922-USACE-WRDA-Request-2015 letter.pdf	09/23/2015

2. Provide the name of the primary sponsor and all non-Federal interests that have contributed or are expected to contribute toward the non-Federal share of the proposed feasibility study or modification.

Sponsor	Letter of Support
Papio-Missouri River Natural Resources District(Primary)	attached

3. State if this proposal is for a feasibility study, a modification to an authorized USACE feasibility study or a modification to an authorized USACE project. If it is a proposal for a modification, provide the authorized water resources development feasibility study or project name.

[x] Modification to an Authorized USACE Project : R-613 Platte River Left Bank, R-613 Missouri River Right Bank, R-613 Papillion Creek Left and Right Bank, R-616 Missouri River Right Bank (FC System ID 47050000093 and 4705000090)

4. Clearly articulate the specific project purpose(s) of the proposed study or modification. Demonstrate that the proposal is related to USACE mission and authorities and specifically address why additional or new authorization is needed.

The proposed modifications to the Missouri River R-613 and R-616 federal levee systems are designed to meet minimum U.S. Army Corps of Engineers levee safety standards for risk and reliability and would be certified under FEMA requirements for accredited levees in 44 CFR 65.10. These minimum standards require that the levee crest be elevated above existing elevations and that seepage protection measures such as seepage berms be constructed. Improvements to the 18.5 miles of levees is anticipated to cost \$25 million based on 90% design data.

Additional authorization is needed for this levee system to correct design deficiencies created when the USACE authorized and constructed Levee Units L-611 and L-614 in Iowa. As stated in a 1976 design memorandum, section 4.11, the USACE notes that the L-611 levee is 1.5 to 2 feet above the grade of the right bank Levee Unit R-613 and concludes that the possible need for upgrading the existing (actual) level of protection of adjacent levee units (which now appear to now provide a lower degree of protection than intended) be evaluated. Additionally, new hydrologic and hydraulic studies have been revised and have increase the required design standard, not only for the Missouri River, but for the Platte River and Papillion Creek as well. In fact, the Papillion Creek levees were both built as tie-backs for the R-613 Unit and never fully addressed the flash flood elevations possible from the Papillion Creek. All of these previous unknowns or oversights are now being addressed as part of FEMA recertification.

The project will improve the flood risk reduction for the protected areas against levee overtopping or failure at or above a 1% annual chance flood (100-yr flood) with a statistical confidence of 95%. Existing facilities protected by the levees include Offutt Air Force Base, the City of Omaha Papillion Creek Wastewater Treatment facility, and major transportation routes including U.S. Highway 34 and 75.

5. To the extent practicable, provide an estimate of the total cost, and the Federal and non-Federal share of those costs, of the proposed study and, separately, an estimate of the cost of construction or modification.

	Federal	Non-Federal	Total
Study	\$0	\$0	\$0
Construction	\$5,000,000	\$20,000,000	\$25,000,000

Explanation (if necessary)

Based on 90% design data

6. To the extent practicable, describe the anticipated monetary and nonmonetary benefits of the proposal including benefits to the protection of human life and property; improvement to transportation; the national economy; the environment; or the national security interests of the United States.

Project benefits increase the flood risk reduction for the area protecting Offutt Air Force Base, the City of Omaha Papillion Creek Wastewater Treatment Plant and major U.S. highways at or above the levels originally intended when the levees were first constructed. Changes or impacts which have changes the flood risk reduction of the projects include the implementation of the L-611 and L-614 levees in Iowa, changes in projected Missouri River hydrology from 1993 flooding and increased historical record, and the revision of updated flood risk data for the Papillion Creek and Platte River. A full economic analysis of realizing these intended benefits against the increased costs has not currently been evaluated, but the presence of such significant infrastructure indicates high monetary justification. The increased protection of STRATCOM at Offutt Air Force Base is a national security interest.

7. Does local support exist? If 'Yes', describe the local support for the proposal.

Yes

Local Support Description

Support for the project begins with the local municipalities of Omaha and Bellevue and Sarpy County. The State of Nebraska legislature, Department of Roads, and Department of Natural Resources are also strong supporters. It is anticipated that Water Sustainability Funding from state funds will be approximately \$10 million.

8. Does the primary sponsor named in (2.) above have the financial ability to provide for the required cost share?

Yes

Primary Sponsor Letter of Support

(As uploaded)

150922-USACE__WRDA__Request-2015 letter.pdf



September 22, 2015

Ms. Lisa Kiefel, Planning Portfolio Manager
U.S. Army Corps of Engineers
441 G Street NW
Attn: CECW-CE
Washington, DC 20314-1000

RE: Section 7001 of the Water Resources Reform and Development Act 2014 Non-Federal Project Request

Dear Ms. Kiefel:

On behalf of the Papio-Missouri River Natural Resources District, I am requesting that proposed modifications to the Missouri River Federal Levee Systems R-613 and R-616 be considered for federal funding under Section 7001 of the Water Resources Reform and Development Act (WRRDA) 2014. The P-MRNRD would serve as the non-federal sponsor for this project.

The proposed modifications to the Missouri River R-613 and R-616 federal levee systems are designed to meet minimum U.S. Army Corps of Engineers levee safety standards for risk and reliability and would be certified under FEMA requirements for accredited levees in 44 CFR 65.10. These minimum standards require that the levee crest be elevated above existing elevations and that seepage protection measures such as seepage berms be constructed. Improvements to the 18.5 miles of levees is anticipated to cost \$25 million based on 90% design data.

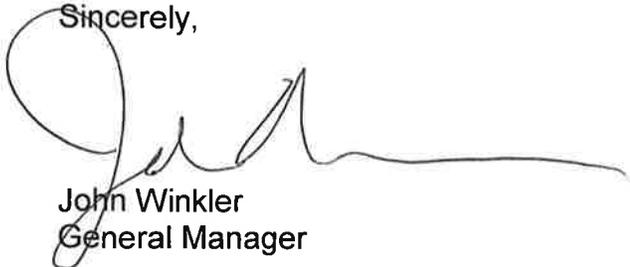
The project will improve the flood risk reduction for the protected areas against levee overtopping or failure at or above a 1% annual chance flood (100-yr flood) with a statistical confidence of 95%. Existing facilities protected by the levees include Offutt Air Force Base, the City of Omaha Papillion Creek Wastewater Treatment facility, and major transportation routes including U.S. Highway 34 and 75.

The P-MRNRD has requested funding from the Department of Defense through the Air Force for protection of Offutt Air Force Base, but has been informed that improvements to the levees should be considered a new civil works project and fall under the authorities of the U.S. Army Corps of Engineers.

The P-MRNRD is working to provide or secure \$20 million in state and local funding for the approximately \$25 million project. We hereby respectfully request that you consider the remaining \$5 million as part of non-federal interests per WRRDA 2014.

Please contact me (402) 444-6222 if you have questions or comments about this request.

Sincerely,



John Winkler
General Manager

Enclosure

CC: Nebraska Congressional Delegates
Marlin Petermann and Paul Woodward, P-MRNRD
Steve Grasz, Attorney, Husch Blackwell
Steven L. Stockton, Director of Civil Works, Headquarters, USACE

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