Proposal Name: MCMICKEN DAM REHABILITATION CONSTRUCTION
Submission Date: 09/16/2016
Proposal ID Number: c81fbdfc-88d5-4c58-aaae-b3f0547281b4

Purpose of Proposal: The District and the USACE entered into a feasibility cost share agreement (Trilby Wash FCSA) for this project in 2004 and for more than seven years the Corps cost share of the funding could not be obtained. Due to the importance of the flood protection and public safety issues involved the District has since moved ahead unilaterally and has completed the planning phase for this Project and is currently in final design for two of the planned 5 projects phases.

This proposal is therefore for modification to an authorized feasibility study as follows:  • Conduct evaluations and studies in parallel with ongoing FCDMC McMicken Dam Rehabilitation Project designs in order to:  o Assess the extent of Federal interest in participating in a solution to the identified problem.
  o Evaluate federal cost share eligibility of the FCDMC McMicken Dam Rehabilitation Project as planned, selected and under design by FCDMC through a modified feasibility study if needed.  • Provide Federal cost share funding for construction of the McMicken Dam Rehabilitation Project.
1. Administrative Details

Proposal Name: MCMICHECK DAM REHABILITATION CONSTRUCTION

by Agency: Flood Control District of Maricopa County

Locations: AZ

Date Submitted: 09/16/2016

Confirmation Number: c81fbdfc-88d5-4c58-aaae-b3f0547281b4

Supporting Documents

<table>
<thead>
<tr>
<th>File Name</th>
<th>Date Uploaded</th>
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<tbody>
<tr>
<td>Trilby Wash Feasibility Study Handout.pdf</td>
<td>09/19/2016</td>
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</table>
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.**

<table>
<thead>
<tr>
<th>Sponsor</th>
<th>Letter of Support</th>
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<tbody>
<tr>
<td>Flood Control District of Maricopa County, Arizona (Primary)</td>
<td>Originally termed the Trilby Wash Detention Basin Dam, McMicken Dam, now owned and operated by the Flood Control District of Maricopa County (District) was constructed by the United States Army Corps of Engineers (USACE) in 1954 and 1955 to protect Luke Air Force Base, the Litchfield Park Naval Air Facility and agriculture activities in the area from flooding. The dam now protects a significant downstream population and developed properties from flooding. The Arizona Department of Water Resources (state regulator for this dam) has identified extensive dam safety deficiencies for this dam to the extent that for public safety reasons the dam will either need to undergo an overall rehabilitation or replacement or be taken out of service at some point in the future.</td>
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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.**

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.

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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.

<table>
<thead>
<tr>
<th></th>
<th>Federal</th>
<th>Non-Federal</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Study</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Construction</td>
<td>$62,000,000</td>
<td>$33,000,000</td>
<td>$95,000,000</td>
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**Explanation (if necessary)**

Planning study has been completed by FCDMC. Final design is in progress by FCDMC. Project construction is currently estimated at $95 million. This request is for 65% federal cost share of total construction cost or $62 million. The Flood Control District of Maricopa County (District) is empowered by Arizona Revised Statutes (A.R.S.) Section 48 3603, as revised, to enter into cost share agreements with local, state and federal agencies, including the USACOE. The District is funded by Maricopa County, Arizona secondary property tax.
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.**

Based on some work under the feasibility study by the USACE the benefit to cost of this project is anticipated to be greater than 3:1.

The following: population, infrastructure and development located downstream of the dam benefit by the flood protection the Project currently provides:

- Tens of thousands of downstream residents protected by the dam
- Luke Air Force Base
- Total number of buildings = 64,403
- Hospitals = 3
- Schools = 49
- Airports = 1
- Fire Stations = 9
- Law Enforcement Facilities = 3
- Water and Wastewater treatment plants
- BNSF Railroad
- Utilities – Southwest Gas, Transwestern Gas, Communications Companies, Kinder Morgan, AmeriGas, Central Arizona Project, Salt River Project (electric, water and irrigation), and Arizona Public Service
- Major Interstate/Highways (SR-Loop 303, US60, I-10, MC85) and a large number of major arterial roadways
- Additional non-monetary benefits include:
  - Opportunities for storm/flood water recharge and supply augmentation strategies within the project limits to assist the State and local communities in addressing continued drought and future water supply/demand imbalance
  - Preserve opportunities for future open space designation, through the City of Surprise
  - Protection of approximately 15 miles of existing regional trail through Maricopa County Parks
7. Does local support exist? If ‘Yes’, describe the local support for the proposal.

[x] Yes

Local Support Description

Opportunities to continue existing and foster new recreational opportunities and protection of valued Sonoran Desert landscapes for wildlife and the community, as identified in the City of Surprise’s Parks and Recreation Master Plan describe local support for the proposal. The primary purpose of McMicken Dam (Trilby Wash Project) was to protect Luke Air Force Base from flooding. Today Luke Air Force Base strongly supports this Project as well. The District has had three public meetings on this project and all commenting on the project have indicated support or strong support. The City of Surprise has expressed support for this important flood protection project and in designating the project area as conservation open space and has expressed interest in groundwater recharge and replenishment opportunities for treated wastewater and stormwater on District-owned lands.

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

[x] Yes
Additional Proposal Information

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Purpose
The Trilby Wash Feasibility Study is a joint partnership between the U.S. Army Corps of Engineers (USACE) and the Flood Control District of Maricopa County (District). The study will evaluate flooding issues in the Trilby Wash watershed upstream and downstream from the McMicken Dam Project, and develop nonstructural and engineered solutions to address those issues. The study will also investigate opportunities for ecosystem restoration and recreation consistent with flood risk management. The study area includes the cities of Surprise, Sun City, El Mirage, Litchfield Park and Goodyear, and unincorporated Maricopa County.

Study Participants
The feasibility study is being prepared by the USACE in cooperation with the District (the non-federal cost-sharing sponsor). Coordination will also be conducted with federal agencies, Native American tribes, state and local governments, the general public, and other interested parties.

Feasibility Study
A feasibility study is conducted to define problems and opportunities, evaluate alternative plans and fully describe a recommended solution(s). The feasibility report is a decision document that presents study results and findings, ensures compliance with applicable statutes and regulations, and provides a sound and documented basis for decision-makers at all levels to judge the need and justification for the recommended solution(s). Depending on complexity and available funding, a feasibility study typically lasts between three to five years. This study is anticipated to be completed within three years.

The District has completed numerous dam safety and area drainage analyses in the study area and those efforts will be incorporated into this feasibility study as appropriate. Alternatives that have been developed will also be considered in the federal planning process.

Public Participation
The District and USACE have implemented a public outreach and involvement process as part of the study. The public is encouraged to participate and provide input through public meetings as the preliminary alternatives and draft Feasibility Report are developed. Public meetings are tentatively scheduled for spring 2011 and spring 2012.

Contact
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