

Planning Committee Agenda

Diversion Authority Planning Committee

February 11, 2025 @ 1:00p.m. CST

This meeting will be in-person at the Cass County Commission Chambers (211 9th Street South, Fargo, ND 58103).

1. Call to Order
 - a. Roll call of Members
2. Approve minutes – January 7, 2025
[Attachment 01.00] (Pg. 2)
3. Approve Order of Agenda
4. Detention Funding Policy Update
[Attachment 02.00] (Pg. 3)
5. P3 Technical Dispute Review Board Update
6. Executive Director Update
7. Other Business
8. Next Meeting: March 11, 2025
9. Adjournment

MEDIA AND PUBLIC PARTICIPATION INFORMATION

This meeting is an in-person public meeting.



Metro Flood Diversion Authority Planning Committee Meeting Minutes

1:00 PM – January 7, 2025

Cass County Commission Chambers

A meeting of the Metro Flood Diversion Authority Planning Committee was held on January 7, 2025. The following members were present: Tony Grindberg, Cass County Commissioner; Dr. Tim Mahoney, Mayor, City of Fargo; Bernie Dardis, Mayor, City of West Fargo and Kevin Campbell, Clay County Commissioner.

Member(s) absent: Shelly Carlson, Mayor, City of Moorhead and Rick Steen, Cass County Joint Water Resource District.

1. CALL TO ORDER

Mr. Grindberg called the meeting to order at 12:59 PM. Roll call was taken, and a quorum was present.

2. APPROVAL OF THE DECEMBER 2024 MINUTES

MOTION PASSED

Mayor Dardis moved to approve the minutes from the December 3, 2024, meeting and Mr. Campbell seconded the motion. On a voice vote, the motion carried.

3. APPROVE THE ORDER OF THE AGENDA

MOTION PASSED

Mr. Campbell moved to approve the order of the agenda and Mayor Dardis seconded the motion. On a voice vote, the motion carried.

4. CLASSIFICATION & COMPENSATION STUDY UPDATE

Mr. Redlinger reported that MRA has completed the MFDA staff compensation study. Mr. Redlinger and Ms. Peters will meet individually with staff to advise them of the study outcome in relation to their positions.

5. 2025 GOVERNANCE PLAN

Mr. Grindberg reported that the final updated governance plan will be presented at the January 23, 2025, board meeting.

6. CO-EXECUTIVE DIRECTOR UPDATES

Mr. Redlinger reported that Jason Benson will be starting on February 1, and he anticipates the transition to be seamless.

7. OTHER BUSINESS

Mr. Grindberg reported that he, Mr. Shockley, Mr. Wilson and Mr. Nicholson will be going to Bismarck to appear before the appropriations committee on January 9, to discuss the Project and Minnesota funding efforts.

8. NEXT MEETING

The next meeting will be February 11, 2025.

9. ADJOURNMENT

Mayor Mahoney moved to adjourn, and Mr. Campbell seconded the motion. The meeting adjourned at 1:13 PM.

Member _____ introduced the following resolution and moved its adoption:

RESOLUTION TO REPEAL THE FARGO-MOORHEAD DIVERSION AUTHORITY
DETENTION FUNDING POLICY MANUAL DATED NOVEMBER 12, 2015

WHEREAS, the Metro Flood Diversion Authority (the “Authority”) entered into a Settlement Agreement dated February 1, 2021, with the Wilkin Joint Powers Authority, the Buffalo-Red River Watershed District, the City of Wolverton, Minnesota, and the City of Comstock, Minnesota (the “Settlement Agreement”), in which the parties agreed to terms and conditions for a global settlement of all of the parties’ disputes and litigation pertaining to the Fargo-Moorhead Metropolitan Area Flood Risk Management Project (the “Comprehensive Project”); and

WHEREAS, one of the conditions of the Settlement Agreement was that the parties agreed to set forth a policy for detention project funding; and

WHEREAS, the Authority currently has a policy in place titled the FARGO-MOORHEAD DIVERSION AUTHORITY DETENTION FUNDING POLICY MANUAL, which is dated November 12, 2015 (the “Current Policy Manual”); and

WHEREAS, Article XXXI of the Settlement Agreement sets forth the requirements for Detention Project cost share/participation by the Authority; and

WHEREAS, the Authority will repeal the Current Policy Manual and will adhere to the standards set forth in the Settlement Agreement.

NOW, THEREFORE, BE IT RESOLVED BY THE DIVERSION AUTHORITY BOARD AS FOLLOWS:

1. The capitalized terms in this resolution shall have the same meaning as given to them in the Settlement Agreement.
2. The FARGO-MOORHEAD DIVERSION AUTHORITY DETENTION FUNDING POLICY MANUAL, dated November 12, 2015, and attached as **Exhibit A** hereto, is hereby repealed, and shall have no force or effect.
3. The Authority supports the development of detention projects in the Red River Basin that are modeled to materially lower and/or reduce the frequency of the storage of water in the Staging Area of the Comprehensive Project as defined in Exhibit C of the Settlement Agreement.
4. The Diversion Authority Board will review a proposed detention project to determine if said project meets the criteria set forth in the Settlement Agreement and this Policy.
5. The Diversion Authority Board may provide reasonable funds in an amount not to exceed fifty percent (50%) of the cost not funded by federal and/or state funds of a detention project’s engineer’s estimate when such detention project materially lowers and/or reduces the frequency of the storage of water in the Staging Area of the Comprehensive Project as defined in Exhibit C of the Settlement Agreement.

6. The Diversion Authority Board has discretion to determine the percentage of cost share for an approved detention project up to fifty percent (50%) and may provide for a lower cost share percentage.
7. To receive funds under this policy, a detention project must be sponsored by a political subdivision and/or state/federal agency and the political subdivision and/or state/federal agency must be able to secure the appropriate real estate interests (fee simple, easement, or other necessary property rights) to construct the detention project.
8. In the event the Diversion Authority Board determines that a detention project meets the criteria set forth in the Resolution, it may direct Authority staff to prepare, or receive and modify with the Applicant if required, and present to the Diversion Authority Board a Detention Project Cost Share Agreement, containing all of the specific requirements necessary for the detention project to receive the cost share funding percentage approved by the Diversion Authority Board.
9. Funds under this policy will be provided a minimum of thirty (30) days after construction of an approved detention project has commenced by the sponsoring political subdivision and/or state/federal agency and in accordance with the terms and conditions of the Detention Project Cost Share Agreement approved for the detention project.
10. This resolution shall be effective immediately upon adoption.

Dated: February 27, 2025

METRO FLOOD DIVERSION
AUTHORITY

APPROVED:

Tony Grindberg, Chair

ATTEST:

Dawn Lindblom, Secretary

The motion for adoption of the foregoing resolution was duly seconded by Member _____, and upon roll call vote, the following Members voted in favor thereof: _____ . The following were absent and not voting: _____. The following voted against the same: _____. A majority of the Members having voted aye, the resolution was declared duly passed and adopted.

EXHIBIT A

FARGO-MOORHEAD DIVERSION AUTHORITY DETENTION
FUNDING POLICY MANUAL, dated November 12, 2015

FARGO-MOORHEAD DIVERSION AUTHORITY

DETENTION FUNDING

POLICY MANUAL

FINAL

(11/12/2015)

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INTRODUCTION

Distributed upstream retention is established by the Red River Basin Commission's Long Term Flood Solutions Report (RRBC LTFS) as one component of the overall strategy to provide flood protection for the Red River Basin. The RRBC completed the Halstad Upstream Retention (HUR) Study to analyze regional impacts of locally identified impoundment locations on the Red River mainstem above Halstad, MN.

Since completion of the HUR Study, the Fargo-Moorhead Diversion Authority (FMDA) has allocated a total \$24.5 million to further incentivize development and implementation of impoundments located in the Red River Basin above Halstad, MN. This document establishes the criteria and procedure for determining funding eligibility for FMDA funds.

SECTION I – General Criteria

Below lists general criteria to qualify for FMDA funds. Proposed impoundments must meet all of listed items to meet eligibility for FMDA funding:

- Qualifying impoundments must detain flood waters within the Red River Basin above USGS Gage 05064500 (Red River of the North at Halstad, MN).
- Qualifying Project Sponsors include:
 - Watershed Districts (Minnesota)
 - County Water Resource Districts (North Dakota)
 - Joint Powers Authorities which include membership from Watershed Districts and/or Water Resource Districts
- The proposed impoundment site must be identified prior to submission.
- Proposed Impoundments must provide a minimum of 1,000 acre-feet of combined gated storage and un-gated storage during the HUR Study Standardized Melt Progression Event.

A summary of FMDA Funding Eligibility and Process is provided on the next page, as well as discussed in greater detail in the following sections.

FMDA FUNDING SUMMARY TABLE

| Category | Phase I <i>Preliminary Design</i> | Phase II <i>Land Acquisition and/or Final Design</i> | Phase III <i>Construction</i> |
|-----------------------------------|---|--|--|
| Eligible Applicants | Watershed Districts and Water Resource Districts, or Joint Power Authorities comprised of local governing bodies from the area of the basin above Halstad, MN | | |
| Modeling Requirements | Initial estimated 8-Day prioritized flood volume reduction in acre-feet (±4 days from the peak discharge) at the following locations: - USGS Gage 05054000 (Red River at Fargo, ND) - USGS Gage 05064500 (Red River at Halstad, MN) (Fill and Spill Methodology) | Preliminary estimated 8-Day prioritized flood volume reduction in acre-feet (±4 days from the peak discharge) at the following locations: - USGS Gage 05054000 (Red River at Fargo, ND) - USGS Gage 05064500 (Red River at Halstad, MN) (Operation based on results of Feasibility Study) | Final 8-Day prioritized flood volume reduction in acre-feet (±4 days from the peak discharge) at the following locations: - USGS Gage 05054000 (Red River at Fargo, ND) - USGS Gage 05064500 (Red River at Halstad, MN) (Operation based on Final O&M Plan) |
| Maximum Funding | Up to 5% of \$400 / Acre-foot reduced from the initially estimated 8-day prioritized flood volume. | Up to 90% of \$400 / Acre-foot reduced from the preliminary estimated 8-day prioritized flood volume, less FMDA funds advanced during Phase I. | Up to 100% of \$400 / Acre-foot reduced from the final estimated 8-day prioritized flood volume, less FMDA funds advanced during Phases I & II. |
| Match Requirements | 50% of Non-Federal/Non-State | 50% (Federal/State/Local may be used as match) | No Match Required |
| Eligible Activities | - Preliminary Design - Geotechnical Review | - Final Design Report & Plans/Specs - O&M Plan - Permitting - Land Acquisition | - Land Acquisition - Construction |
| Timeline Requirements | Maximum of 2-years to complete: - Feasibility Report - Geotechnical Review - Approved Phase II Submittal | Maximum of 3-years to complete: - Final Design Report & Plans/Specs - O&M Plan - Permitting - Approved Phase III Submittal | Maximum of 1-year to award construction contract. |
| Application Deadline | Applications must be provided to the FMDA a minimum of 60 days prior to a determination on FMDA funding commitment. RRRR will provide funding commitment recommendations during FMDA regularly scheduled meetings. | | |
| Application Review Process | All submittals will undergo technical review by the FMDA upon receipt of application. | | |
| Available Funding | Total of \$24.5 million to be allocated over a 10-year period. Annual amount expected to vary depending on eligible applications and prior year funding levels. | | |
| Progress Reporting | Quarterly progress reports required to FMDA for all Phases of funding. | | |

SECTION II – Procedures for Review and Approval

Impoundments qualifying for FMDA Funds are required to provide submittals at three phases during the development of the proposed impoundment. The proposed impoundment will be reviewed and funding determinations will be made at each Submittal Phase. Each submittal and the general activities are listed below. Eligible activities are defined in greater detail in the following sections.

- Phase I Submittal – Preliminary Design
- Phase II Submittal – Land Acquisition and Final Design
- Phase III Submittal – Construction

Each submittal will be used to reaffirm FMDA Funding commitment to the proposed impoundment. Information required of the applicant during each submittal phase will undergo technical review including, but not limited to, an assessment of the following criteria:

- All eligibility requirements are fulfilled.
- Anticipated timeline for implementation.
- Potential adverse impacts.
- Flood damage reduction benefit downstream.
- Other funding sources.
- Technical modeling data to determine estimated FMDA funding.

Review of each phase of submittals will be used to provide a recommendation to the FMDA to approve or disapprove a continued commitment to the proposed impoundment. Final determinations on FMDA funding commitment to proposed impoundments will be made the FMDA during regularly scheduled meetings. Applications must be submitted a minimum of 60 days prior to determination on FMDA commitment to the proposed impoundment.

SECTION III – Timeline for Project Implementation

FMDA Funds provided to successful Project Applicants are intended to, in part, assist in expediting project development for impoundments proposed above Halstad, MN. As such, successful applicants are required to progress from preliminary project development to construction in over a maximum 6-year timeframe. Specific milestones for each Phase of FMDA Funding are discussed below. Also, refer to the chart below for an illustration of required milestones for FMDA funded projects.

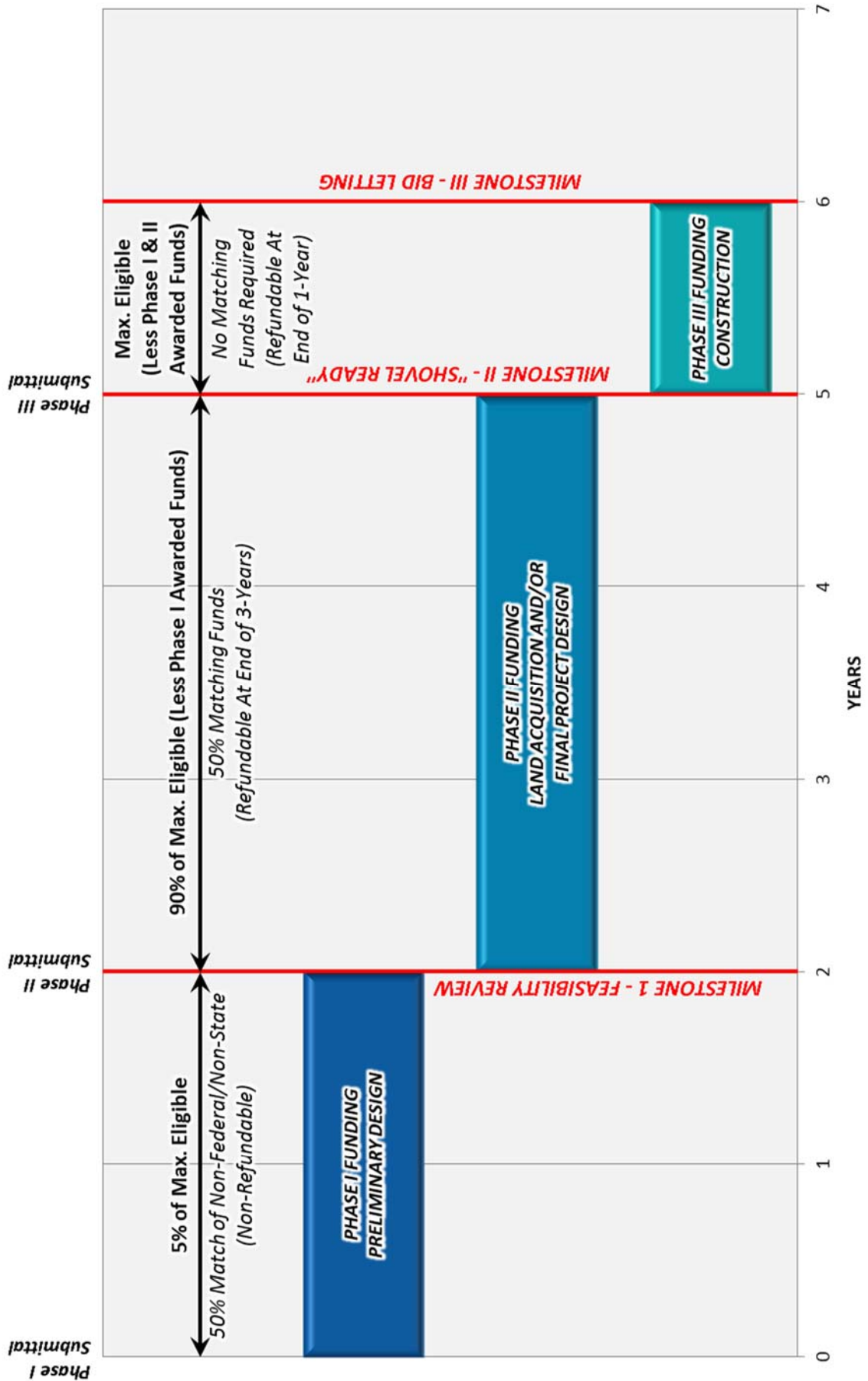
- PHASE I Submittal – All eligible activities under the Phase I Submittal must be completed within two years of an approved FMDA Phase I Submittal.

- PHASE II Submittal –The following eligible Phase II Submittal activities must be completed within three years of an approved FMDA Phase II Submittal:
 - Development of Final Design Report
 - Construction Plans and Specifications
 - Development of Operation and Maintenance Plan
 - Permitting

- PHASE III Submittal – Bid letting must occur within one year of an approved FMDA Phase III Submittal.

Regardless of whether funds are requested at each Phase, a successful submittal will be required for all three Phases to reaffirm FMDA commitment. A detailed explanation to the FMDA is required in the event that any of the milestones discussed above are unable to be met. This explanation must include reason for the delayed timeline, and how the project sponsor proposes to get the project back on the required timeline. Failure to meet any of the milestone timelines presented above may require funds allocated as a result of successful Phase II & III Submittals to be reimbursed to the FMDA over a maximum period of 10-years.

FMDA FUNDING MILESTONES



SECTION IV - PHASE I Submittal – Preliminary Design

FMDA Phase I funding is intended to provide assistance to complete preliminary design on the proposed impoundment, including geotechnical evaluation. A project concept must already be identified in order to qualify for Phase I FMDA Funding. Eligible activities and applicant requirements for Phase I FMDA Funding are summarized below.

Eligible Activities

- Preliminary Design
- Geotechnical Review

Applicant Requirements

- Meet general criteria requirements in **SECTION I** of this policy manual.
- Project concept identified.
- Quarterly reporting on project status. (*Attached Form*)
- Two year maximum to apply for Phase II FMDA Funding.

Application Procedure

- Complete & Provide *FMDA PHASE I Submittal*.
- Complete & Provide *Phase I Estimated FMDA Funding Allocation Worksheet* based on conceptual assumptions for dam or impoundment operation.

Funding Level

The amount of FMDA Funds available for successful Phase I Applicants will be the lesser of:

- 5% of total eligible funding, as determined from *FMDA Funding Calculation Spreadsheet*.
- 50% of the portion of project costs not eligible for Federal or State Cost-Share.

FMDA Phase I Submittals will be reviewed and recommended for FMDA Funding based on criteria described in **SECTION III** of this policy manual.

SECTION V - PHASE II Submittal - Land Acquisition and/or Final Design

Phase II FMDA Funding is to reaffirm funding commitment level based on additional project development and design data completed since the Phase I Submittal. A Feasibility Study, including a geotechnical evaluation, is required for Phase II Submittals. Eligible activities and applicant requirements for Phase II FMDA Funding are summarized below.

Eligible Activities

- Development of Final Design Report
- Construction Plans and Specifications
- Development of Operation and Maintenance Plan
- Permitting
- Land appraisals
- Preparation of Purchase and/or Easement Agreements
- Land Acquisition

Applicant Requirements

- Successful PHASE I FMDA Submittal
- Meet general criteria requirements in **SECTION I** of this policy manual.
- Feasibility Study Complete (Including Geotechnical Evaluation).
- Quarterly reporting on project status. (*Attached Form*)
- Three year maximum to apply for Phase III FMDA Funding.

Application Procedure

- Complete & Provide *FMDA PHASE II Submittal*.
- Update & Provide *Estimated FMDA Funding Allocation Worksheet* based on assumed operation in Preliminary Engineer's Report.

Funding Level

The amount of FMDA Funds available for successful Phase II Applicants will be the lesser of:

- 90% Total Eligible Funding, as determined from *Phase II FMDA Funding Calculation Spreadsheet*, less Funds awarded during Phase I FMDA Funding.
- 50% of total costs.

FMDA Phase II Submittals will be reviewed and recommended for FMDA Funding based on criteria described in **SECTION III** of this policy manual.

SECTION VI - PHASE III Submittal - Construction

Phase III FMDA Funding determines the final level of funding commitment. All final design documents and a copy of any completed easement/purchase agreements are required to be included in Phase III submittals. Eligible activities and applicant requirements for Phase II FMDA Funding are summarized below.

Eligible Activities

- Land appraisals
- Preparation of Purchase and/or Easement Agreements
- Land Acquisition
- Construction Administration

Applicant Requirements

- Successful PHASE II FMDA Submittal
- Meet general criteria requirements in **SECTION I** of this policy manual.
- Meet technical requirements described in **SECTION VII** of this policy manual.
- All Phase I Eligible Activities Complete.
- The following Phase II Eligible Activities Complete:
 - Development of Final Design Report
 - Construction Plans and Specifications
 - Development of Operation and Maintenance Plan
 - Permitting
- Quarterly reporting on project status. (*Attached Form*)
- Three year maximum to apply for Phase III FMDA Funding.

Application Procedure

- Complete & Provide *FMDA PHASE III Submittal*.
- Update & Provide *Estimated FMDA Funding Allocation Worksheet* based on final operation plan.

Funding Level

The amount of FMDA Funds available for successful Phase III Applicants will be the lesser of:

- Total Eligible Funding, as determined from *Phase III FMDA Funding Calculation Spreadsheet*, less Funds awarded during Phase I and Phase II FMDA Funding.
- Project costs less other available funding sources.

FMDA Phase III Submittals will be reviewed and recommended for FMDA Funding based on criteria described in **SECTION III** of this policy manual.

SECTION VII – Final Design Technical Criteria for Dams and Impoundments

The following summarizes technical requirements for eligibility for FMDA funding. The *Final Design Report* summarizing how the following considerations are met before FMDA funds can be used for project construction.

- **Engineering Design:** Structural and hydraulic design of all dams and impoundments considered for FMDA funding must be performed by a registered professional engineer of the State of Minnesota and/or North Dakota, depending on project location.
- **Hydrologic and Hydraulic Adequacy:** Dams and impoundments considered for FMDA funding must be sized in accordance the appropriate governing Dam Safety Rules for Minnesota or North Dakota, depending on the location of the proposed project location. These factors include, but are not limited to, the following:
 - Appropriate determination of Dam Safety Classification.
 - Appropriate capacity principal spillway and emergency spillway components based on Dam Safety Classification.
 - Appropriate capacity principal spillway and emergency spillway components based on Dam Safety Classification.
 - Ability of the proposed dam or impoundment to provide sufficient freeboard before overtopping based on Dam Safety Classification.
 - Erosion protection for dam or impoundment earthen embankments and spillways.
 - Adequate measures to control downstream channel erosion.
 - Considerations for sediment yield over the project life.
 - Site drawdown procedures for projects featuring gated storage.
- **Structural Stability:** The structural design of the proposed dams or impoundments must consider the following:
 - Gravity forces; Hydrostatic pressure; Uplift forces; Overturning moment; Resistance to sliding; Ice pressures; Earthquake forces; Slope stability including consolidation and pore pressures; Seepage collection or prevention; Foundation conditions including appropriate borings and determination of the strength of foundation materials; Specifications for materials of construction and their placement or installation; Adequate construction inspection to assure conformance with design assumptions; and Adequacy of the cofferdam, if any.

In addition to items listed above, the FMDA reserves the right to request additional information from the Project Sponsor for any other technical considerations relevant to the project.

Fargo-Moorhead Diversion Authority
Detention Funding
Phase I Submittal

Instructions:

- 1) Complete and provide *Phase I FMDA Funding Allocation Worksheet* based on conceptual assumptions for dam or impoundment operation to determine maximum FMDA Funding.
- 2) Provide supporting documentation detailing the development of the overall concept.
- 3) Fill out this Application Form.
- 4) Provide map illustrating the proposed dam or impoundment location and drainage area.
- 5) Provide models used to complete the *Phase I FMDA Funding Allocation Worksheet*.

Application Date: _____

Project Name: _____

Project Location: *(Provide Location Map)*

HUC12 Watershed Code: _____ State: _____

County: _____ Legal Description: _____

Project Sponsor: _____

Mailing Address: _____

Phone No: () _____ E-Mail: _____

Authorized Agent: _____

Mailing Address: _____

Phone No: () _____ E-Mail: _____

CONCEPT BACKGROUND

1) Describe the general project purpose:

2) Is proposed concept identified in Comprehensive Detention Plans (ND) or Expanded Distributed Detention Strategies (MN)?

Yes No

If Yes, indicate the *Report Name* and *Storage Site ID* as defined in the Detention Plan/Strategy:

Report Name: _____

Storage Site ID: _____

3) Is proposed concept included other Local, Regional, or State Water Plans?

Yes No

If yes, indicate which Plan(s) below:

4) Have impacted landowners been made aware of the proposed concept?

Yes No If yes, indicate any potential issues as concept develops:

CONCEPT TECHNICAL/MODELING INFORMATION

1) Drainage Area: _____ Mi² (As determined from Standardized Modeling Approach contributing areas)

2) Maximum Gated Storage Capacity: _____ Acre-Feet _____ Inches

3) Maximum Un-gated Storage Capacity: _____ Acre-Feet _____ Inches

4) Maximum Pool Depth: _____ Feet

5) Maximum Gated Pool Inundation Area: _____ Acres

6) Maximum Un-gated Pool Inundation Area: _____ Acres

7) Red River Mainstem Analysis Results:

Gated Storage Utilized: _____ Acre-Feet _____ Inches

Un-gated Storage Utilized: _____ Acre-Feet _____ Inches

Impacted area a peak pool elevation: _____ Acre-Feet

Describe the operational assumptions used to determine Red River impacts.

8) Are copies of the models used complete the *Phase I Estimated FMDA Funding Allocation Worksheet* included?

Yes No

Explain naming conventions used for the proposed impoundments within the model:

FUNDING INFORMATION

1) Total Estimated Eligible FMDA Funding Amount: \$ _____

2) Total Requested Phase I Submittal Advancement Amount: \$ _____
(Not to exceed 5% of item No. 1 above)

3) Indicate Anticipated Funding Sources:

| FUNDING SOURCE | ANTICIPATED FUNDS AVAILABLE |
|------------------------------|------------------------------------|
| Federal | \$ _____ |
| State | \$ _____ |
| Regional/Joint Boards | \$ _____ |
| Local | \$ _____ |
| Other | \$ _____ |
| FMDA Amount | \$ _____ |
| Total | \$ _____ |

4) Describe any potential issues or complications that may arise based on previously completed analysis on the proposed concept?

PHASE I ESTIMATED FMDA FUNDING ALLOCATION WORKSHEET

Project Name:

Project Sponsor:

Date:

Instructions:

1. Populate *Project Name* , *Project Sponsor* , and *Date* fields above.
2. Model the dam or impoundment to determine Red River mainstem impacts.
3. Use Step 2 results to determine the 8-day volume reduction (Acre-Feet) at USGS Gage No. 05064500 (Red River at Halstad, MN) based on ±4 Days from the present day (2013) peak discharge. Populate volume in [2] below.
4. Use Step 2 results to determine the 8-day volume reduction (Acre-Feet) at USGS Gage No. 05054000 (Red River at Fargo, ND) based on ±4 Days from the present day (2013) peak discharge. Populate volume in [3] below.
6. [6] indicates maximum potential FMDA Funding available for eligible Phase I activities.

| | |
|---|----------------------|
| Fargo-Moorhead Diversion Authority Funding | |
| FMDA Funding Rate (8-Day Volume Removal) | \$ 400 Per Ac-Ft [1] |

| | |
|--|-----------------|
| Proposed Project Information | |
| Proposed Impoundment Funded 8-Day Runoff Volume Removed | |
| USGS Gage No. 05064500 (Red River at Halstad, MN) | [2] |
| USGS Gage No. 05054000 (Red River at Fargo, ND) | [3] |
| Total | [4] = [2] + [3] |

| | | | |
|--|-----|---|-----------|
| Maximum Eligible FMDA Funds | [5] | = | [1] × [4] |
| Max. Eligible FMDA Advancement Available for Phase I Activities | [6] | = | [5] × 5% |

Fargo-Moorhead Diversion Authority
Detention Funding
Phase II Submittal

Instructions:

- 1) Update and provide *Phase II FMDA Funding Allocation Worksheet* based on preliminary assumptions for dam or impoundment operation to determine maximum FMDA Funding.
- 2) Provide Feasibility Study including Geotechnical Evaluation. (*Eligible Phase I Activities*)
- 3) Fill out this Application Form.
- 4) Provide map illustrating the proposed dam or impoundment location and drainage area.
- 5) Provide models used to complete the *Phase II FMDA Funding Allocation Worksheet*.

Application Date: _____

Project Name: _____

Project Location: (*Provide Location Map*)

HUC12 Watershed Code: _____ State: _____

County: _____ Legal Description: _____

Project Sponsor: _____

Mailing Address: _____

Phone No: () _____ E-Mail: _____

Authorized Agent: _____

Mailing Address: _____

Phone No: () _____ E-Mail: _____

PROJECT TECHNICAL/MODELING INFORMATION

1) Drainage Area: _____ Mi² (As determined from Standardized Modeling Approach contributing areas)

2) Maximum Gated Storage Capacity: _____ Acre-Feet _____ Inches

3) Maximum Un-gated Storage Capacity: _____ Acre-Feet _____ Inches

4) Maximum Pool Depth: _____ Feet

5) Maximum Gated Pool Inundation Area: _____ Acres

6) Maximum Un-gated Pool Inundation Area: _____ Acres

7) Red River Mainstem Analysis Results:

Gated Storage Utilized: _____ Acre-Feet _____ Inches

Un-gated Storage Utilized: _____ Acre-Feet _____ Inches

Impacted area a peak pool elevation: _____ Acre-Feet

Describe the operational assumptions used to determine Red River impacts.

8) Are copies of the models used complete the *Phase II Estimated FMDA Funding Allocation Worksheet* included?

Yes No

Explain naming conventions used for the proposed impoundments within the model:

LAND ACQUISITION/FINAL DESIGN FUNDING REQUESTS

- 1) Have impacted landowners been made aware of the proposed project?
 Yes No If yes, indicate any potential issues as concept develops:

- 2) How much area requires an easement agreement and/or to be purchased in order to implement the proposed project?

_____Acres _____% Complete To Date

- 3) Will FMDA Funds be requested to purchase land or acquire easements in order to implement the proposed project?
 Yes No If yes, indicate anticipated methods and amount requested:

- 4) Will FMDA Funds be requested for final design of the proposed project?
 Yes No

- 5) Do you understand that an funding for land acquisition and/or final design must be refunded in whole to the FMDA in the event that the project doesn't advance to Phase III Approval within three years?
 Yes No

FUNDING INFORMATION

1) Total Estimated Eligible FMDA Funding Amount: \$ _____

2) Total Requested Phase II Submittal Advancement Amount: \$ _____
(Not to exceed 90% of item No. 1 above)

3) Indicate Other Anticipated Funding Sources:

| FUNDING SOURCE | ANTICIPATED FUNDS AVAILABLE |
|--|-----------------------------|
| Federal | \$ _____ |
| State | \$ _____ |
| Regional/Joint Boards | \$ _____ |
| Local | \$ _____ |
| Other | \$ _____ |
| FMDA Phase I <i>(Previously Awarded)</i> | \$ _____ |
| FMDA Phase II & III | \$ _____ |
| Total | \$ _____ |

4) Is the Maximum Available FMDA Phase II Funds requested? Yes No

If no, indicate the amount requested for FMDA Phase II Funding: \$ _____

5) Describe any potential issues or complications that may arise based on previously completed analysis on the proposed concept?

PHASE II ESTIMATED FMDA FUNDING ALLOCATION WORKSHEET

Project Name:

Project Sponsor:

Date:

Instructions:

1. Populate *Project Name* , *Project Sponsor* , and *Date* fields above.
2. Model the dam or impoundment to determine Red River mainstem impacts.
3. Use Step 2 results to determine the 8-day volume reduction (Acre-Feet) at USGS Gage No. 05064500 (Red River at Halstad, MN) based on ±4 Days from the present day (2013) peak discharge. Populate volume in [2] below.
4. Use Step 2 results to determine the 8-day volume reduction (Acre-Feet) at USGS Gage No. 05054000 (Red River at Fargo, ND) based on ±4 Days from the present day (2013) peak discharge. Populate volume in [3] below.
5. Indicate FMDA Funds expended during Phase I Eligible Activities in [6].
6. [7] indicates maximum potential FMDA Funding available for eligible Phase II activities.

| Fargo-Moorhead Diversion Authority Funding | |
|---|----------------------|
| FMDA Funding Rate (8-Day Volume Removal) | \$ 400 Per Ac-Ft [1] |

| Proposed Project Information | |
|--|---|
| Proposed Impoundment Funded 8-Day Runoff Volume Removed | |
| USGS Gage No. 05064500 (Red River at Halstad, MN) | <input style="width: 100%; height: 20px;" type="text"/> [2] |
| USGS Gage No. 05054000 (Red River at Fargo, ND) | <input style="width: 100%; height: 20px;" type="text"/> [3] |
| Total | <input style="width: 100%; height: 20px;" type="text"/> [4] = [2] + [3] |

| | |
|---|---|
| Maximum Eligible FMDA Funds | <input style="width: 100%; height: 20px;" type="text"/> [5] = [1] × [4] |
| FMDA Funds Advanced During for Phase I Activities | <input style="width: 100%; height: 20px;" type="text"/> [6] |
| Max. Eligible FMDA Advancement Available for Phase II Activities | <input style="width: 100%; height: 20px;" type="text"/> [7] = ([5] × 90%) - [6] |

Fargo-Moorhead Diversion Authority
Detention Funding
Phase III Submittal

Instructions:

- 1) Update and provide *Phase III FMDA Funding Allocation Worksheet* based on final Operation and Maintenance Plan for dam or impoundment operation to determine maximum FMDA Funding.
- 2) Provide Final Design Report and Construction Plans and Specifications.
- 3) Provide copies of easement and/or purchase agreements for land acquired for the project.
- 4) Fill out this Application Form.
- 5) Provide map illustrating the proposed dam or impoundment location and drainage area.
- 6) Provide models used to complete the *Phase III FMDA Funding Allocation Worksheet*.

Application Date: _____

Project Name: _____

Project Location: *(Provide Location Map)*

HUC12 Watershed Code: _____ State: _____

County: _____ Legal Description: _____

Project Sponsor: _____

Mailing Address: _____

Phone No: () _____ E-Mail: _____

Authorized Agent: _____

Mailing Address: _____

Phone No: () _____ E-Mail: _____

PROJECT TECHNICAL/MODELING INFORMATION

1) Drainage Area: _____ Mi² (As determined from Standardized Modeling Approach contributing areas)

2) Maximum Gated Storage Capacity: _____ Acre-Feet _____ Inches

3) Maximum Un-gated Storage Capacity: _____ Acre-Feet _____ Inches

4) Maximum Pool Depth: _____ Feet

5) Maximum Gated Pool Inundation Area: _____ Acres

6) Maximum Un-gated Pool Inundation Area: _____ Acres

7) Red River Mainstem Analysis Results:

Gated Storage Utilized: _____ Acre-Feet _____ Inches

Un-gated Storage Utilized: _____ Acre-Feet _____ Inches

Impacted area a peak pool elevation: _____ Acre-Feet

Describe the operational assumptions used to determine Red River impacts.

8) Are copies of the models used complete the *Phase III Final FMDA Funding Allocation Worksheet* included?

Yes No

Explain naming conventions used for the proposed impoundments within the model:

FUNDING INFORMATION

1) Total Estimated Eligible FMDA Funding Amount: \$ _____

2) Total Requested Phase III Submittal Funding Amount: \$ _____
(Not to exceed item No. 1 above, less FMDA Funds expended in Phases I & II)

3) Indicate Other Anticipated Funding Sources:

| FUNDING SOURCE | ANTICIPATED FUNDS AVAILABLE |
|---|------------------------------------|
| Federal | \$ _____ |
| State | \$ _____ |
| Regional/Joint Boards | \$ _____ |
| Local | \$ _____ |
| Other | \$ _____ |
| FMDA Phase I & II <i>(Previously Awarded)</i> | \$ _____ |
| FMDA Phase III | \$ _____ |
| Total | \$ _____ |

4) Provide the estimated Month and Year in which each activity listed below will begin:

Bid Letting: _____

Construction Start: _____

Construction Completion: _____

PHASE III FINAL FMDA FUNDING ALLOCATION WORKSHEET

Project Name:

Project Sponsor:

Date:

Instructions:

1. Populate *Project Name* , *Project Sponsor* , and *Date* fields above.
2. Model the dam or impoundment to determine Red River mainstem impacts.
3. Use Step 2 results to determine the 8-day volume reduction (Acre-Feet) at USGS Gage No. 05064500 (Red River at Halstad, MN) based on ±4 Days from the present day (2013) peak discharge. Populate volume in [2] below.
4. Use Step 2 results to determine the 8-day volume reduction (Acre-Feet) at USGS Gage No. 05054000 (Red River at Fargo, ND) based on ±4 Days from the present day (2013) peak discharge. Populate volume in [3] below.
5. Indicate FMDA Funds expended during Phases I & II Eligible Activities in [6] and [7], respectively.
6. [8] indicates maximum potential FMDA Funding available for eligible Phase II activities.

| Fargo-Moorhead Diversion Authority Funding | |
|---|----------------------|
| FMDA Funding Rate (8-Day Volume Removal) | \$ 400 Per Ac-Ft [1] |

| Proposed Project Information | |
|--|---|
| Proposed Impoundment Funded 8-Day Runoff Volume Removed | |
| USGS Gage No. 05064500 (Red River at Halstad, MN) | <input style="width: 100%; height: 20px;" type="text"/> [2] |
| USGS Gage No. 05054000 (Red River at Fargo, ND) | <input style="width: 100%; height: 20px;" type="text"/> [3] |
| Total | <input style="width: 100%; height: 20px;" type="text"/> [4] = [2] + [3] |

| | |
|---|---|
| Maximum Eligible FMDA Funds | <input style="width: 100%; height: 20px;" type="text"/> [5] = [1] × [4] |
| FMDA Funds Advanced During for Phase I Activities | <input style="width: 100%; height: 20px;" type="text"/> [6] |
| FMDA Funds Advanced During for Phase II Activities | <input style="width: 100%; height: 20px;" type="text"/> [7] |
| Max. Eligible FMDA Funds Available for Phase III Activities | <input style="width: 100%; height: 20px;" type="text"/> [8] = [5] - ([6] + [7]) |