

Update from Consultant Team


Neches Regional Flood Planning Group

November 14, 2024

1

Agenda

- 1st Cycle Amendment Process for RFPG Consideration
 - Anticipated FMXs to be Submitted
- 2nd Cycle Overview



The map displays the Neches River basin, including counties such as Van Zandt, Henderson, Smith, Cherokee, Rusk, Anderson, Houston, Trinity, Polk, Tyler, Hardin, Orange, Liberty, Jefferson, Chambers, and Galveston. The river is highlighted in blue, and a blue circle with the number '5' is positioned in the upper right corner of the map area.

2

5

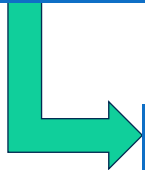
1st Cycle Amendment

3

5

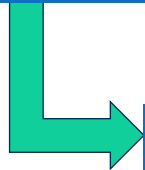
RFPs and FIF Funding

FMXs Recommended in 2023 RFPs (due July 2023)



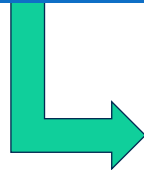
FY24-25 FIF competition opened early 2024

FMXs Recommended in Amended 2023 RFPs (due to TWDB April 1, 2025)



FY26-27 FIF competition opened early 2026

FMXs Recommended in 2028 RFPs (due January 2028)



Future FIF competitions

4

1st Cycle Amendment Highlights

5



- The Amendment Process is an opportunity to expand funding eligibility in the Neches Region



- While the Amendment is covered under Task 10, it is a significant effort and will need to be balanced with ongoing flood planning scoped activities



- Call for Sponsor FMXs should begin as early as possible

5

TWDB Amendment Guidance

5

TWDB issued RFP Amendment Submittal Guidance Oct 2nd.

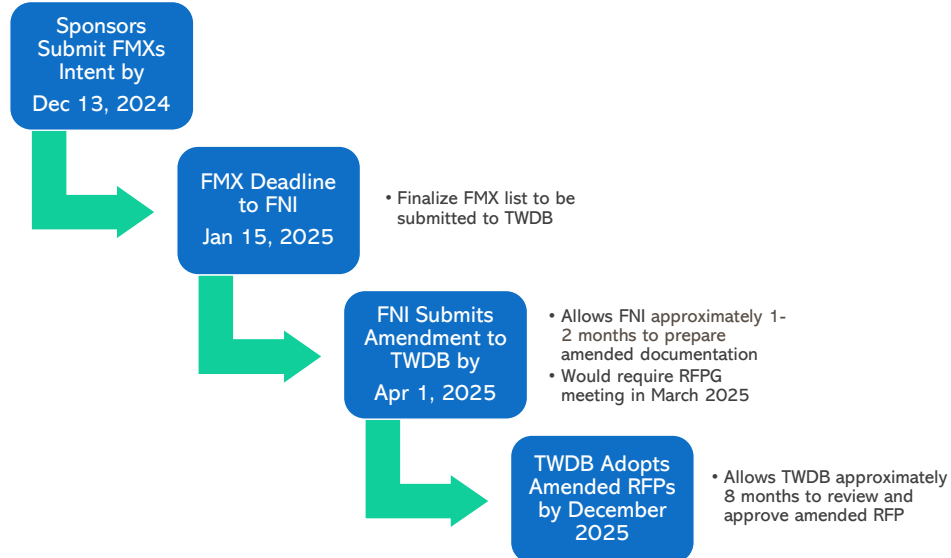
General Submission requirements include:

1. 1-page Summary of changes
2. 1 electronic copy of single amended document including all changes to text, tables, and appendices
3. 1 electronic copy of supporting files
4. Compiled geodatabase
5. TWDB geodatabase change log
6. Certification that amendment prepared according to administrative rules

6

Amendment Process for RFPG Consideration

5



7

Anticipated FMXs to be Submitted

5

- Projects have been identified from FIF Category 1 Studies occurring within the region
 - Chambers-Liberty County Regional Watershed Study
 - Jefferson County Drainage District #6 Regional Watershed Plan
- 7 out of 25 projects have been identified from the Chambers Regional Watershed Study as having benefit area within the Neches region.
- Projects identified from the JCDD6 Regional Watershed Plan are scheduled to be included in the Amendment to the RFP.

8

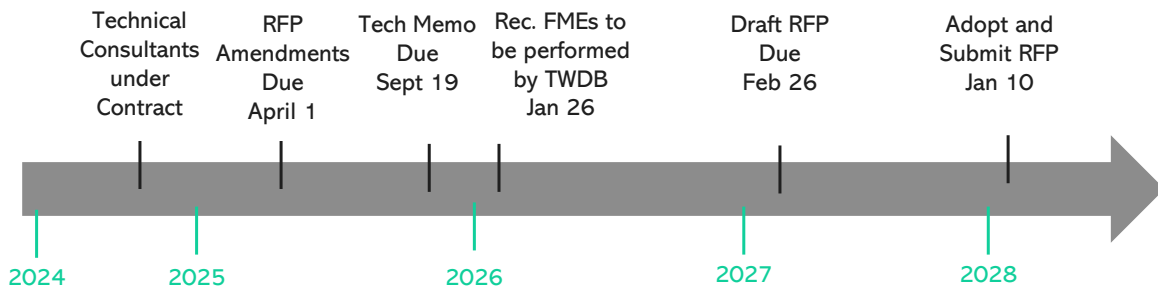
5

2nd Cycle Overview

9

2028 RFP Timeline/Deadlines

5



10

2028 RFP Meeting Schedule

5

Meeting Date	Milestone Goals/Action
November 2024	RFPG Meeting General Update – Contracting, Kickoff, First Steps
January 2025	RFPG Action Needed Updates – Outreach/Initial, Updates/Amendment, BLE Overview
March 2025	RFPG Action Needed 2023 RFP Amendment Approval (Task 10) (April 1) Planning Area Description (Task 1) Ex & Future Condition Flood Risk Analysis (Task 2A/B)
May 2025	RFPG Action Needed Eval/Recs on FP Mgmt (Task 3A) Needs Analysis (Task 3B)
July 2025	RFPG Action Needed Adoption of Goals (Task 3C) ID of FMXs (Task 4A)
August 2025	RFPG Action Needed Tech Memo Update and Approval (Task 4B)
September 2025	Tech Memo Due (Sept 19)

11

2nd Cycle Scope Overview

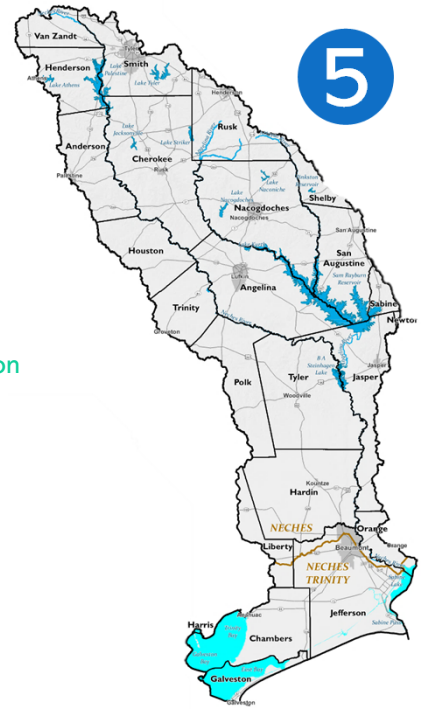
5

First Cycle	Second Cycle	Key Changes/Notes
1 Planning Area Description	1 Planning Area Description	•Simplified Table 1 •Addition of dam and levee inventory •Specific inventory of low water crossings
2A Existing Flood Risk Analysis	2A Existing Flood Risk Analysis	•Addition of 10% ACE event
2B Future Flood Risk Analysis	2B Future Flood Risk Analysis	•Ability to use BLE models rather than Fathom for existing conditions flood quilt. •Option to modify existing hydraulic models to create future condition run
3A Eval/Rec MIT & Mgmt Practices	3A Eval/Rec MIT & Mgmt Practices	-
4A Flood MIT Needs Analysis	3B Flood MIT Needs Analysis	-
3B Flood MIT & Mgmt Goals	3C Flood MIT & Mgmt Goals	-
4B ID and Eval Potential Feasible FMXs	4A ID and Eval Potential Feasible FMXs	•Consideration of avoidance of future flood risk •Option to perform FMEs under this task
4C Technical Memorandum	4B Technical Memorandum	-
5 Recommend FMXs	4C Perform FMEs	New Task (similar to Task 12) to perform FMEs
	5A Recommend FMXs	-
	5B Rec FMEs for TWDB to perform	New Task
6A Impacts of RFP	6A Impacts of RFP	-
6B Cont & Impacts State Water Plan	6B Cont & Impacts State Water Plan	-
7 Flood Response Info & Activities	7 Flood Response Info & Activities	-
8 Admin, Reg, Leg Recommendations	8 Admin, Reg, Leg Recommendations	-
9 FIF Analysis	9 FIF Analysis	-
10 Plan Adoption & Public Participation	10 Plan Adoption & Public Participation	-
11 Outreach & Data for Tasks 1-9	11 Comparison to Prior Flood Plans	New Task
12 Perform FMEs for Recom. FMPs		
13 Prep&Adoption of Amended RFP		

12

Task 1 – Planning Area Description

- Region 5 by the numbers:
 - **11,542** square miles
 - **1,019,184** people in the region (2020 Census)
 - **3.5% of Texas population**
 - **24** counties and **79** municipalities
 - **Harris and Newton County have minimal areas within region**
 - **92%** rural by land area
 - **2** urbanized areas account for over **60%** of the region's population
 - **9,673** stream miles
 - Addition of dam & levee inventory
 - Specific inventory of low water crossings



13

Task 2A/B – Flood Risk Analyses

- Flood risks evaluated for the existing and future 1% and 0.2% annual chance exceedance events (ACEs)
 - Addition of 10% ACE in 2nd Cycle
- Risks associated with riverine, coastal, and pluvial flooding
- ~~Additional Flood Prone areas incorporated from Fathom data~~
 - Can now use BLE models rather than Fathom data for compiling existing conditions floodplains.
- Future flood hazard is anticipated to increase in extent under a “no-action” scenario
 - Now have the option to modify existing hydraulic models to create a future condition run.

Future Flood Hazard Area	Source
1% ACE (100-year)	Existing 0.2% ACE
0.2% ACE (500-year)	Horizontal/Vertical Buffer method
Additional Flood Prone Areas	0.2% ACE Fathom data

14

Task 4 – Identification and Evaluation of Potential FMEs and Potentially Feasible FMPs and FMSs

5

- 26 FMPs identified when the Amended Regional Flood Plan was submitted in July 2023.

• When estimating benefits for FMPs and FMSs, avoidance of future flood risk can now be considered.

• RFPG can use funding under this task to perform a portion of the identified FMEs to elevate their status into FMPs (similar to Task 12 in Cycle 1).

Flood Mitigation Action	Number of Recommended Actions	Total Flood Mitigation Action Cost
FME	157	\$88,895,824
FMS	147	\$175,036,700
FMP	26	\$4,326,840,085
Total	330	\$4,590,772,609

15

Key Task 10 Scope Change

5

“At the discretion of the RFPG, the grant funding may be used to amend the Board-approved, most recent 2023 amended regional flood plan.”

- Initiated by the RFPG or an entity (Political Subdivision)
- For changed conditions or new information
- RFPG must formally consider an amendment request from a political subdivision in the FPR within 180 days
- Amendments must meet all the requirements related to development of an RFP
- Up to two amendments during the current planning cycle.
- Direct Technical Consultants to perform and submit the data required in Exhibit C for consideration of a new or revised FMX per Task 4A
- No amendments submittal of draft 2028 RFP and adoption of the final 2028 RFP
- Amendments should be timed to coincide with anticipated TWDB amendments to the State Flood Plan, which will be aligned with TWDB flood funding program application periods (TBD)

16

Planning Schedule

5

December

- Sponsors to submit FMX intent for inclusion in the RFP Amendment

January

- Technical Consultant to commence finalizing FMX list to be submitted to TWDB

Feb - Mar

- Technical Consultant to prepare Amended Documentation
- RFPG to meet in March to approve Amendment
- Technical Consultant to submit RFP Amendment by April 1st, 2025