



Memo to: Board of Directors

From: Chuck Etwert

Subject: Program Status Report for March 2019

Date: March 18, 2019

100-Year Certification Packages Status

On February 18th, the Illinois State Water Survey (ISWS) provided their comments to Woods' Hydrologic and Hydraulic (H&H) submittal of October 24, 2018. A follow-up conference call with FEMA and ISWS was held on February 21st.

Wood is currently evaluating the effort necessary to update the river/creek models to address recent the comments from ISWS and the conference call. There are generally two paths forward for each of the five waterways in question: certify against the existing, effective base flood elevations, or revise the newer/updated base flood modeling conducted by the Wood and the FPD Council to make that modeling the effective modeling. To certify against the current effective models will require additional geotechnical engineering analyses. Certification against the updated modeling will require revisions per ISWS comments. Wood is evaluating the time associated with each option for each waterway, and will recommend a path forward to the FPD Council shortly.

The timing of FEMA's issuance of continued accreditation letters for the Wood River East & West Forks, Lower Wood River, Upper Wood River, and Prairie Du Pont/Fish Lake Levee Systems will be dependent on the path recommended, but hopefully, will not be later than this summer.

FEMA's review of the Base Condition Risk Assessment (BCRA) for MESD and Chain of Rocks segments is moving along, with the Corps submitting a final report to FEMA within the next month, and FEMA anticipating a fast final review and acceptance.

It appears approval of the East St. Louis (MESD) package might be achieved sooner than expected.

500-Year Authorized Level Status

Wood River Levee System

Wood continues the design of Bid Package #8, which will be constructed by the Corps of Engineers. Wood has submitted the 65% design package and comments have been received from the Corps. Design is anticipated to be completed by the end of summer with a bid opening in October.

Approval of the new Project Partnership Agreement for the Wood River Levee System is expected in July. This will allow for the utilization of \$16,041,496 of Work In-Kind credit, which has already received preliminary approval.

The remaining \$4,256,759 dollars of Work In-Kind credit needed, will be achieved with eligible Wood design and a relief well abandonment package.

MESD Levee System

Wood continues to take the Corps' design of the Cahokia Relief Well Project, estimated cost \$10.6 million dollars, and develop the Council's Bid Package #18. Design is anticipated to be completed by the end May with Board approval in July.

Wood is also continuing the design of Bid Package #14, a shallow clay trench and filter blanket with an estimated construction cost of \$4.3 million dollars. Advertisement for bid is expected this summer with Board approval in September.

Wood is now in the 35% design phase of Bid Package #11. Design is anticipated to be completed in the fall, with Board approval in January 2020. The preliminary estimated construction cost has been reduced by \$2,000,000 to \$10,000,000 dollars.

With the reduction on Bid Package #11, there will need to be some design/construction completed on Bid Package #12, to satisfy Work In-Kind credit requirements.

Approval of the new Project Partnership Agreement, which will allow for the utilization of Work In-Kind credit, is anticipated in the next month. The Council has submitted Work In-Kind requests totaling \$11,887,414 for work performed thru fiscal year 2017.

Prairie Du Pont/Fish Lake Levee Systems

Wood is continuing the design of Bid Packages #15, #16, and #17. The design progress has slowed due to the Corps' risk assessment.

The first Potential Failure Mode Analysis (PFMA) has been rescheduled for the first week of April, with Wood in attendance. Once discussions are complete, a design, bid date schedule, and revised cost estimate will be developed.

The risk assessment review for possible funding not based on a benefit/cost ratio has a tentative report completion date of October 2019.

Mel Price Lock & Dam

The President's FY2020 Budget was released on Tuesday and finally after years for funding, the Corps of Engineers will be receiving \$24,087,000 of funding for the construction of the Mel Price Segment of Upper Wood River – Design Deficiency Project. This project will correct the uncontrolled under seepage that was discovered in 2009. I am sure Tracey Kelsey will discuss this in the Corps of Engineers Update.

Lastly, per the National Weather Service, the potential for widespread flooding remains high this spring as soils are nearly saturated and frozen, while cold and active weather has allowed the snowpack to increase across northern Iowa, Minnesota, and Wisconsin. Additionally, the weather pattern is expected to stay active through March with significant rainfall and possibly additional snow across the northern parts of the Upper Mississippi River basin.

Along the Mississippi River, the probabilities for more severe flooding have risen due to the increased snowpack. It is now likely that much of the mainstem Mississippi River will have a high chance of reaching major flood stage levels, with a potential for some locations to reach levels near previous record crests. Occurrence of near record levels will depend on the rate of snowmelt, along with receiving additional spring rains.

If a flood event were to occur, we will have Wood available to assist each Levee District in monitoring the stability of the levees and adjusting pump station operation levels as needed. The flood events of December/January 2016 and April/May 2017 tested the 100-Year Improvements built by the Council. All of the Council's projects performed as designed and no problems were experienced and the same is expected for future events.