

Inland Waterways Users Board

Meeting No. 81

Linthicum Heights, Maryland

Financial Report & Project Summaries

Mr. Joseph Aldridge
USACE Headquarters

December 13, 2016



US Army Corps of Engineers
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FY 16 Status of Trust Fund

(31 October 2016)

IWTF

USACE

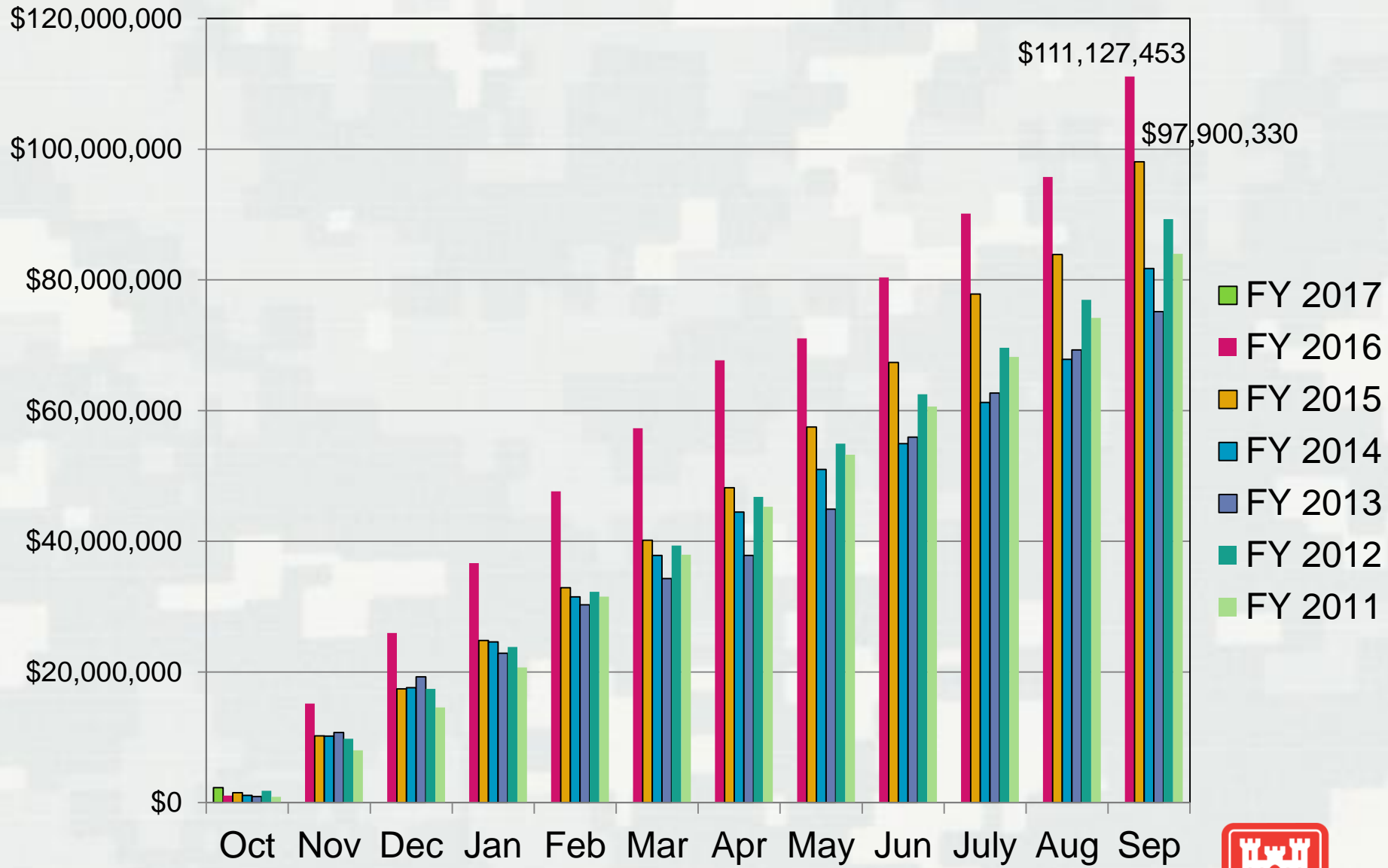
FY 16 Beginning Balance:	\$54,223,049	\$0
Previous Transfer Authority(SEQ/ATB)	\$0	\$0
Previous Transfer Authority(PTA)	\$0	\$0
Total FY Beginning Balance -	\$54,223,049	\$0
Transfers from Corps (8861) to IWTF	\$0	\$0
FY 16 Fuel Tax Revenue:	**\$110,901,747	\$0
FY 16 Interest:	\$225,706	\$0
Total Year Revenue -	\$111,127,453	\$0
Total Year Balance -	\$165,350,502	\$0
Transfers from IWTF to Corps (8861)	\$-108,000,000	\$108,000,000
Transfers from Corps (3122) to US Treasury	\$0	\$0
Total Activity -	\$-108,000,000	\$108,000,000
FY16 Year End Balance -	\$57,350,502	\$0

Source: IWTF statements from Dept. of Treasury, Bureau of Public Debt.

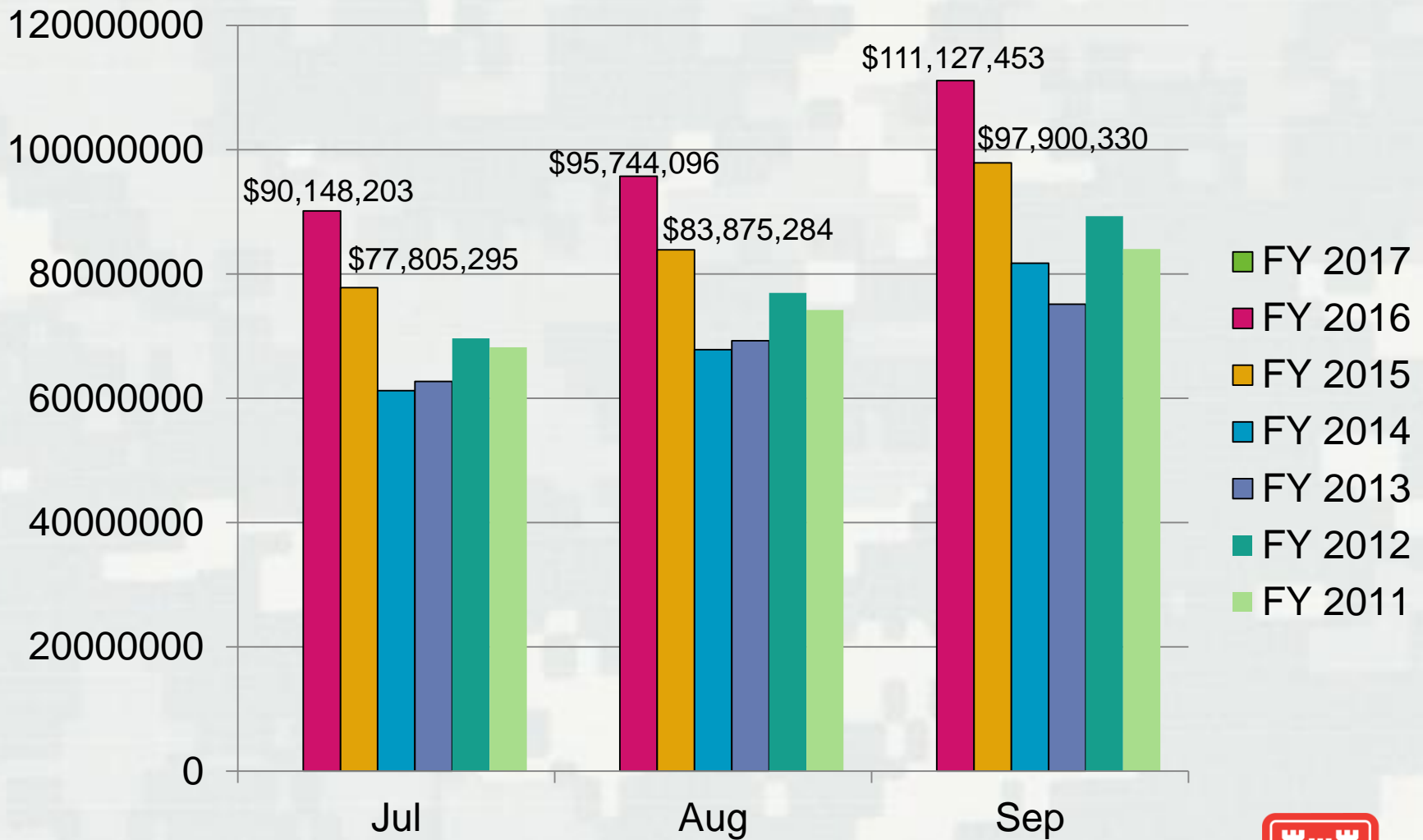
**Amount includes adjustment made by Bureau of Fiscal Service to bring appropriated estimates to actual taxes received.



INLAND WATERWAYS TRUST FUND REVENUE



INLAND WATERWAYS TRUST FUND REVENUE (QUARTER COMPARISON)



IWTF Projects – President’s Budget and Total Allocation

<u>Project</u>	<u>Funding Item</u>	<u>FY2012</u>	<u>¹FY2013</u>	<u>FY2014</u>	<u>FY2015</u>	<u>FY2016</u>	<u>FY2017</u>
<u>Olmsted</u>	President’s Bud	\$150,000,000	\$144,000,000	\$163,000,000	\$160,000,000	\$180,000,000	\$225,000,000
	Total allocation	\$149,287,623	\$143,712,000	² \$165,712,374	³ \$212,710,000	\$268,000,000	\$0
<u>Lower Mon</u>	President’s Bud	\$1,000,000	\$36,650,000	\$1,960,000	\$9,032,000	\$52,000,000	\$0
	Total allocation	\$1,158,000	\$23,697,311	^{2,4} \$72,673,000	² \$55,888,463	\$58,900,000	\$0
<u>Emsworth</u>	President’s Bud	\$0	\$0	\$0	\$0	\$0	\$0
	Total allocation	\$0	\$5,881,785	² \$2,000	² \$-2,715,701	\$0	\$0
<u>Kentucky L&D</u>	President’s Bud	\$0	\$0	\$0	\$0	\$0	\$0
	Total allocation	\$1,001.00	\$44,285,500	\$0.00	⁴ \$14,700,000	⁹ \$45,700,000	\$0
<u>Chick L&D</u>	President’s Bud	\$0	\$0	\$0	\$0	\$0	\$0
	Total allocation	\$1,001	(\$3,600)	⁵ \$1,815,000	⁶ \$3,000,000	⁹ \$29,600,000	\$0
<u>Lockport</u>	President’s Bud	\$0	\$3,600,000	\$11,400,000	\$0	\$0	\$0
	Total allocation	\$4,200,000	\$4,990,000	\$28,800,000	\$0	\$1,700,000	\$0
<u>IHNC</u>	President’s Bud	\$0	\$0	\$0	\$0	\$0	\$0
	Total allocation	\$0	\$0	\$0	\$0	\$0	\$0

1. FY13 was under a Continuing Resolution Act
2. Reflects reprogramming from Lower Mon (FY14: \$2M to Olmsted & 2K to Emsworth and FY15 \$2K to Emsworth), and withhold.
3. Reflects FY2015 PB (\$160M) & Funding Pot allocations (\$47.3M - NAV), (\$4.9M - Hydro), McAlpine reprogramming (\$510K)
4. Reflects \$2M reprogrammed from Lower Mon to KY L&D (Nov 2014) & FY2015 NAV Funding Pot allocations (\$12.7M).
5. Reflects withhold.
6. FY2015 NAV Funding Pot allocations (\$3M).
7. ARRA funds erroneously omitted.
8. Reflects \$2K reprogrammed from L&D 27 to Mel Price
9. **Reflects \$300K reprogramming from Chick L&D to KY Lock as a result of higher than anticipated bids for DS Cofferdam contract required for risk-based TPCE, FY17 construction contract design activities, and an Economic Update.**



Project Updates

(Mississippi Valley Division)

- Lockport
- Inner Harbor Navigation Canal (IHNC)



Lockport Pool Major Rehabilitation, Illinois Waterway, IL

	ARRA	CG	IWTF	Total
Total Project Cost:	\$59,372,414	\$76,253,161	\$15,250,000	\$150,875,575
FY13 Allocation:	\$0	\$4,990,000	\$0	\$4,990,000
FY14 Allocation:	\$0	\$14,400,000	\$14,400,000	\$28,800,000
FY15 Allocation:	\$0	\$0	\$0	\$0
FY16 Allocation:	\$0	\$850,000	\$850,000	\$1,700,000
FY 17 Budget:	\$0	\$0	\$0	\$0
Remaining Balance:		\$0	\$0	\$0
Remaining Balance Change From Last Meeting				\$0
<u>Changes</u>				

Funding Overview

- Original Authorized Cost: \$ 151M
- Sec 902 limit: \$ 163M
- ARRA Funding (FY09-11): \$ 59.4M
- Engineering & Design Cost: \$ 8.4M
- Supervision & Admin Cost: \$ 5.5M
- Mitigation: \$.8M
- Prior to FY14 - 100% CG Funds
- Post FY14 allocations 50-50 CG/IWTF

Current Status of the Project

- Forebay Wall construction on-going

Next Steps

- **Physical completion scheduled Feb 2017.**
- **Financial completion scheduled 1 Sep 2017.**



Lockport Pool Major Rehabilitation, Illinois Waterway, IL

Schedule of Remaining Work	Design Initiated	Contract Award	Construction Complete	Project Benefits	Capitalized Cost Closeout
Stage 1C Powerhouse Forebay Wall	(DD-MM-YY) 02-04-12	(DD-MM-YY) 11-09-14	(DD-MM-YY) 31-12-16	(DD-MM-YY) 31-12-16	(DD-MM-YY) 30-09-17



IHNC Lock Replacement, GIWW, LA

	ARRA	CG	IWTF	Total
Total Project Cost:	\$0	\$791,588,500	\$609,837,500	\$1,401,426,000
FY13 Allocation:	\$0	\$0	\$0	\$0
FY14 Allocation:	\$0	\$0	\$0	\$0
FY15 Allocation:	\$0	\$0	\$0	\$0
FY16 Allocation:	\$0	\$0	\$0	\$0
FY17 Budget:	\$0	\$0	\$0	\$0
Remaining Balance:		\$719,440,000	\$543,598,000	\$1,263,038,000
Remaining Balance Change From Last Meeting				\$0
<u>Changes</u>				
<ul style="list-style-type: none"> TSP Milestone was achieved October 2016. Targeting January 2017 for Draft Report Submittal. 				

Funding Overview

- Original Authorized Cost: \$714M
- Not applicable to Sec 902
- ARRA Funding (FY09-11): \$ 0M
- Engineering & Design Cost: \$39.8M
- Supervision & Admin Cost: \$ 2.5M
- Mitigation: \$ 4.0M

Current Status of the Project

- USACE performing a review of the interim project accounting.
- Continue Lock Replacement GRR.

Next Steps

- Continue GRR for lock replacement Scheduled completion June 2018.
- MVN will send formal funding request letter for the amount owed by the Port of New Orleans **February** 2017 to close out the construction project.



IHNC Lock Replacement, GIWW, LA

Schedule of Remaining Work	Design Initiated	Contract Award	Construction Complete	Project Benefits	Capitalized Cost Closeout
Task 1- last completed	N/A	N/A	N/A	N/A	N/A
Task 2- Next or ongoing	N/A	N/A	N/A	N/A	N/A
Task 3	N/A	N/A	N/A	N/A	N/A



Project Updates

(Great Lakes and Ohio River Division)

- Olmsted
- Monongahela River Locks 2, 3 and 4
- Emsworth
- Kentucky
- Chickamauga



Olmsted Locks and Dam, Ohio River, IL & KY

	ARRA	CG	IWTF	Total
Total Project Cost:				*\$3,059,266,000
FY14 Allocation:	\$0	\$124,106,000	\$41,606,000	\$165,712,000
FY15 Allocation:	\$0	\$180,803,500	\$31,906,000	\$212,710,000
FY16 Allocation:	\$0	\$227,800,000	\$40,200,000	\$268,000,000
FY17 Budget:	\$0	\$191,250,000	\$33,750,000	\$225,000,000
Remaining Balance:		**\$632,283,550	**\$111,579,450	**\$743,863,000
Remaining Balance Change From Last Meeting				\$0

Note: * Cost and Schedule data reflective of the latest Certified Cost Estimate (01 OCT 2015 price levels) completed in APR 2016.

** Remaining balance does not include projected FY17 Budget allocations.

Changes

None

Funding Overview

- Original Authorized Cost: \$ 775M
- 902 Limit: \$3,559M
- ARRA Funding (FY09-11): \$ 29.5M
- Engineering & Design Cost: \$168.5M
- Supervision & Admin Cost: \$131.0M
- Mitigation: \$ 16.0M

Next Steps

- Complete precast of NP-11
- Complete precast of RBA
- Set SB-3 & SB-4
- Schedule high water season maintenance efforts
- Continue 2017 LWS strategic planning efforts
- Design work packages for out-year contracts

LBA – Left Boat Abutment

LWS – Low Water Season (contractually 15 Jun – 30 Nov)

NP – Navigable Pass

PB – Paving Block

RBA – Right Boat Abutment

SB – Service Bridge

TG – Tainter Gates

Current Status of the Project

- PBs complete
- NP-10 set
- TG 1 thru 4 erected; 5th to arrive 2017
- LBA cofferdam work complete; finish LBA in 2017



Olmsted Locks and Dam, Ohio River, IL & KY

Schedule of Remaining Work	Design Initiated	Contract Award	Construction Complete	Project Benefits	Capitalized Cost Closeout
Dam	26-Aug-96	28-Jan-04	30-Sep-19	1-Oct-18	31-Mar-20
Wicket Lifter	1-Jan-15	2-Sep-16	13-Feb-18	14-Feb-18	30-Jun-18
Building & Grounds	1-Dec-15	15-Feb-17	30-Aug-18	1-Sep-18	31-Jan-19
Demolition L&D 52	1-Feb-17	1-Jul-19	1-Aug-21	N.A.	31-Dec-21
Demolition L&D 53	15-Oct-16	1-Nov-17	1-Dec-19	N.A.	30-Mar-20
River Dikes	12-Feb-15	12-Aug-16	31-Aug-21	1-Oct-21	31-Dec-21

NOTE: Green highlighted dates are actual dates.
Yellow highlighted dates are changes.



Locks and Dams 2, 3, and 4, Monongahela River, PA

Current Project Estimate: \$1.22B* (\$2.733B)	ARRA	CG	IWTF	Total
FY13 Allocation:	\$1,510,007	\$11,093,652	\$11,093,652	\$23,697,311
FY14 Allocation:	\$0	\$36,336,500	\$36,336,500	\$72,673,000
FY15 Allocation:	(\$141,537)	\$28,015,000	\$28,015,000	\$55,888,463
FY16 Allocation:	\$0	\$29,450,000	\$29,450,000	\$58,900,000
FY17 Budget:	NA	\$0	\$0	\$0
Remaining Balance:		\$237,228,750	\$237,228,750	**\$474,457,500
Remaining Balance Change From Last Meeting:				\$0

No Changes

Funding Overview

- Original Authorized Cost: \$556M
- 902 Limit: \$1.76B
- ARRA Funding (FY09-FY15): \$68.3M
- Engineering & Design Cost: \$603M**
- Supervision & Admin Cost: \$207M
- Mitigation: \$12M
- Fully Funded Estimate: \$2.733B

Next Steps

- Recertification of total project cost and schedule – **2017**
- Preparing dredging package for Award – FY17
- Award RCC Option 1 & **RCC Option 2 – FY17 (Work Plan)**

Current Status of the Project

- Charleroi M22 – M27 Construction – On schedule
- Charleroi RCC Construction – On schedule

* \$1.22B Excludes Charleroi Land Chamber & Port Perry Railroad Bridge Relocation

** \$603M includes all Engineering & Engineering During Construction



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Locks and Dams 2, 3, and 4, Monongahela River, PA

Schedule of Remaining Work	Design Initiated	Contract Award	Construction Complete *2	Project Benefits*3	Capitalized Cost Closeout*3
Charleroi River Wall	1-Oct-95	27-Sep-04	30-May-16	2023	2025
Charleroi Emptying Basin	1-Oct-95	30-Sep-13	11-Nov-15	2023	2025
Charleroi River Chamber (M22-M27)	1-Oct-95	15-Aug-14	2019 S	2023	2025
Charleroi Dam Stilling Basin	1-Oct-95	FY 2018 S	FY 2021 S	2023	2025
Charleroi River Chamber Completion	1-Oct-95	16-Sep-15	FY 2023 S	2023	2025
L/D 3 Removal	2020	2021 S	FY 2023 S	2023	2025
Dredging	1-Oct-95	2017 S	FY 2022 S	2023	2025
Municipal Relocations *1	1-Oct-95	Multiple	Multiple	NA	2025

- * 1: To complete all municipal relocations, multiple relocation agreements are required.
- * 2: Dates are achievable based on the most efficient funding profile.
- * 3: Project benefit and close out dates are based on the most efficient funding profile & breaching of Dam 3. Early contract completion for Dam 3 removal extends into 2023.
- 4: River Chamber Completion (RCC) Option 1 **and Option 2 are planned to be awarded in FY 2017, if work plan funding is available.**
- 5: Charleroi M22-M27 Construction on schedule.

Actual

"S"= Scheduled



Emsworth Locks & Dam, Ohio River, PA

	ARRA	CG	IWTF	Total
Total Project Cost:				\$160,000,000
FY13 Allocation:	\$403,215	\$5,061,070	\$417,500	\$5,881,785
FY14 Allocation:	\$0	\$3,983,912	-\$3,981,912	\$2,000
FY15 Allocation:	-\$2,717,701	\$1,000	\$1,000	-\$2,715,701
FY16 Allocation:	\$0	\$0	\$0	\$0
FY17 Budget:	\$0	\$0	\$0	\$0
Remaining Balance:		\$3,533,324	\$3,533,324	*\$7,066,648
Remaining Balance Change From Last Meeting				\$0

*Any remaining IWTF dollars will be reallocated/transferred to other IWTF requirements and will result in a reduced draw on the IWTF, which will be reflected as an adjustment in a future apportionment.

No Changes

Funding Summary

- Original Authorized Cost: \$ 160M
- 902 Limit: N/A*
- Wedge Funding (FY04-05): \$ 3.5M
- ARRA Funding (FY09-FY13): \$ 30.9M
- Engineering & Design Cost: \$ 14.1M**
- Supervision & Admin Cost : \$ 8.6M
- Mitigation: \$ 0.0M

* Actual project cost will be less than Approved Cost

** \$14.1M includes ALL Engineering & Engineering During Construction

Current Status of the Project

- PDT working with RMC Risk Cadre on Post Implementation Evaluation (PIE)
- PDT evaluating emergency bulkheads for deterioration due to Zebra Mussels

Next Steps

- Project will be fiscally complete in FY17



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Emsworth Locks & Dam, Ohio River, PA

Schedule of Remaining Work	Design Initiated	Contract Award	Construction Complete	Project Benefits	Capitalized Cost Closeout
Back Channel Right Abutment	31-Jan-09	31-Aug-09	31-Dec-10	1-Jan-11	31-Oct-11
Main Channel Gate & Scour Rehab	1-Jun-07	30-Jul-08	31-Jan-14	1-Feb-14	31-Jul-15
Main Channel Service Bridge Rehab	31-Aug-10	13-Jan-12	26-May-14	27-May-14	30-Sep-14
Back Channel Scour Protection	30-Sep-09	31-Mar-10	31-Oct-14	1-Nov-14	31-Jul-15
Back Channel Dam Under Apron Grouting, Gate Bays 12-14	01-Feb-15	31-Jul-15	4-Nov-15	4-Nov-15	31-Jan-16



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Kentucky Locks & Dam, Tennessee River, KY

	ARRA	CG	IWTF	Total
Total Project Cost:				*\$874,222,000
FY13 Allocation:	\$442,002	\$44,442,700	-\$137,200	\$44,285,500
FY14 Allocation:	\$0	\$0	\$0	\$0
FY15 Allocation:	\$0	\$7,350,000	\$7,350,000	\$14,700,000
FY16 Allocation:	\$0	\$22,850,000	\$22,850,000	**\$45,700,000
FY17 Budget:	\$0	\$0	\$0	\$0
Remaining Balance:				\$402,332,902
Remaining Balance Change From Last Meeting				-\$300,000

Note: * Project cost data is reflective of the latest annual price level adjustment (OCT 2016 \$'s), Fully Funded, 2023 completion

**\$300K reprogramming from Chick L&D as a result of higher than anticipated bids for KY Lock's Downstream Cofferdam construction contract will allow for risk-based TPCE, FY17 construction contract design activities, and an Economic Update.

Changes

- **Downstream Cofferdam award protest delayed construction start by 3 weeks prior to its resolution.**

Funding Overview

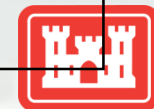
- **Authorized Cost:** \$796,318,000 (Oct16 \$)
- **902 Limit:** \$811,578,000 (Oct15 \$)
- **ARRA (FY09-13):** \$88,833,628
- **Engineering & Design Cost:** \$109,461,000
- **Supervision & Admin Cost:** \$18,015,000
- **Mitigation Cost:** TBD, alternative analysis on hold pending additional funding.

Current Status of the Project

- U/S Lock Monolith Contract **99% complete. Culvert bulkhead slots are last remaining features.**
- Risk based total project cost estimate (TPCE) update & **submitted to USACE Walla Walla Cost Engineering Center of Expertise (MCX); anticipate certification by Dec 2016.**

Next Steps

- **Complete U/S Lock Monoliths Contract by Dec 2016.**
- **Progress Downstream Cofferdam construction**
- **Complete TPCE update**
- **Initiate Economic Update**



Kentucky Locks & Dam, Tennessee River, KY

Schedule of Remaining Work	Design Initiated	Contract Award	Construction Complete	Project Benefits	Capitalized Cost Closeout
Task 1 – HWY / RR Superstructures	01-Oct-99	19-Sep-05	24-May-12		
Task 2 – Upstream Lock Monoliths (all Options)	01-Oct-00	29-Jan-10	30-Dec-16		
Task 3 – Upstream Miter Gate Fabrication	01-Oct-02	30-Sep-13	1-Mar-16		
Task 4 – Downstream Cofferdam	01-Oct-00	30-Sep-16	30-Sep-19		
Task 5 – Site, Demolition, & Utilities	01-Oct-00	30-Sep-17	30-Nov-18		
Task 6 – Downstream Lock Excavation	01-Oct-00	30-Sep-18	30-Mar-20		
Task 7 – Downstream Lock	01-Oct-00	30-Sep-19	8-Dec-23	8-Dec-23	
Task 8 – Approach Walls	01-Oct-02	30-Sep-21	12-May-23		



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Chickamauga Lock & Dam, Tennessee River, TN

	ARRA	CG	IWTF	Total
Total Project Cost:				*\$754,678,000
FY13 Allocation:	\$0	\$223,900	-\$227,500	-\$3,600
FY14 Allocation:	\$0	\$907,500	\$907,500	\$1,815,000
FY15 Allocation:	\$0	\$1,500,000	\$1,500,000	\$3,000,000
FY16 Allocation:	\$0	\$14,800,000	\$14,800,000	**\$29,600,000
FY17 Budget:	\$0	\$0	\$0	\$0
Remaining Balance:				\$539,259,000
Remaining Balance Change From Last Meeting				\$300,000

Note: *Cost & Schedule data reflect the FY2017 risked based total project cost update, Fully Funded.

- **\$300K reprogramming to KY L&D as a result of higher than anticipated bids for KY Lock's Downstream Cofferdam construction contract will allow for risk-based TPCE, FY17 construction contract design activities, and an Economic Update.

Changes

- **Notice to Proceed to be issued on Lock Excavation contract by 30 Nov 2016.**

Funding Overview

- **Authorized Cost:** \$420,451,000 (Oct 16 \$)
- **902 Limit:** \$475,854,000 (Oct 15 \$)
- **ARRA Funds:** \$49,330,043 (total FY09-12)
- **Engineering & Design Cost:** **\$44,934,000 (thru FY16)**
- **Supervision & Admin Cost:** **\$6,249,000 (thru FY16)**
- **Mitigation Cost:** TBD

Current Status of the Project

- Level 3 Economic Update **approved 11 Oct 16.**
- Awarded Lock Excavation (LE) Contract (Base & 2 Options) Sep '16.
- **Developing plans for FY17 award of Lock Chamber (LC) Contract.**

Next Steps

- Exercise remaining LE Options; pending funding
- Award LC contract Sep '17; pending funding
- Anticipate PACR submission – **Pending briefing to / approval from HQUSACE Change Control Board (CCB)**



Chickamauga Lock & Dam, Tennessee River, TN

Schedule of Remaining Work	Design Initiated	Contract Award	Construction Complete	Project Benefits	Capitalized Cost Closeout
Task 1 – Approach Walls Fabrication	30-Mar-04	05-Apr-10	08-Mar-13		
Task 2 – Cofferdam Stabilization	31-Sep-05	25-Sep-15	18-Jul-16		
Task 3 – Lock Excavation	31-Sep-05	Sept 2016	Sept 2018		
Task 4 – Lock Chamber	11-Aug-05	Sept 2017	Sept 2022	Sept 2022	
Task 5 – Site Work and Decommission Existing Lock	11-Aug-05	Sept 2020	Oct 2022		
Task 6 – Approach Walls	11-Aug-05	Sept 2021	Oct 2023		



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Questions

