

Inland Waterways Users Board Meeting No. 80

Chicago, IL

Financial Report & Project Summaries

Mr. Joseph Aldridge
USACE Headquarters

October 5, 2016



US Army Corps of Engineers
BUILDING STRONG®



FY 16 Status of Trust Fund

(31 August 2016)

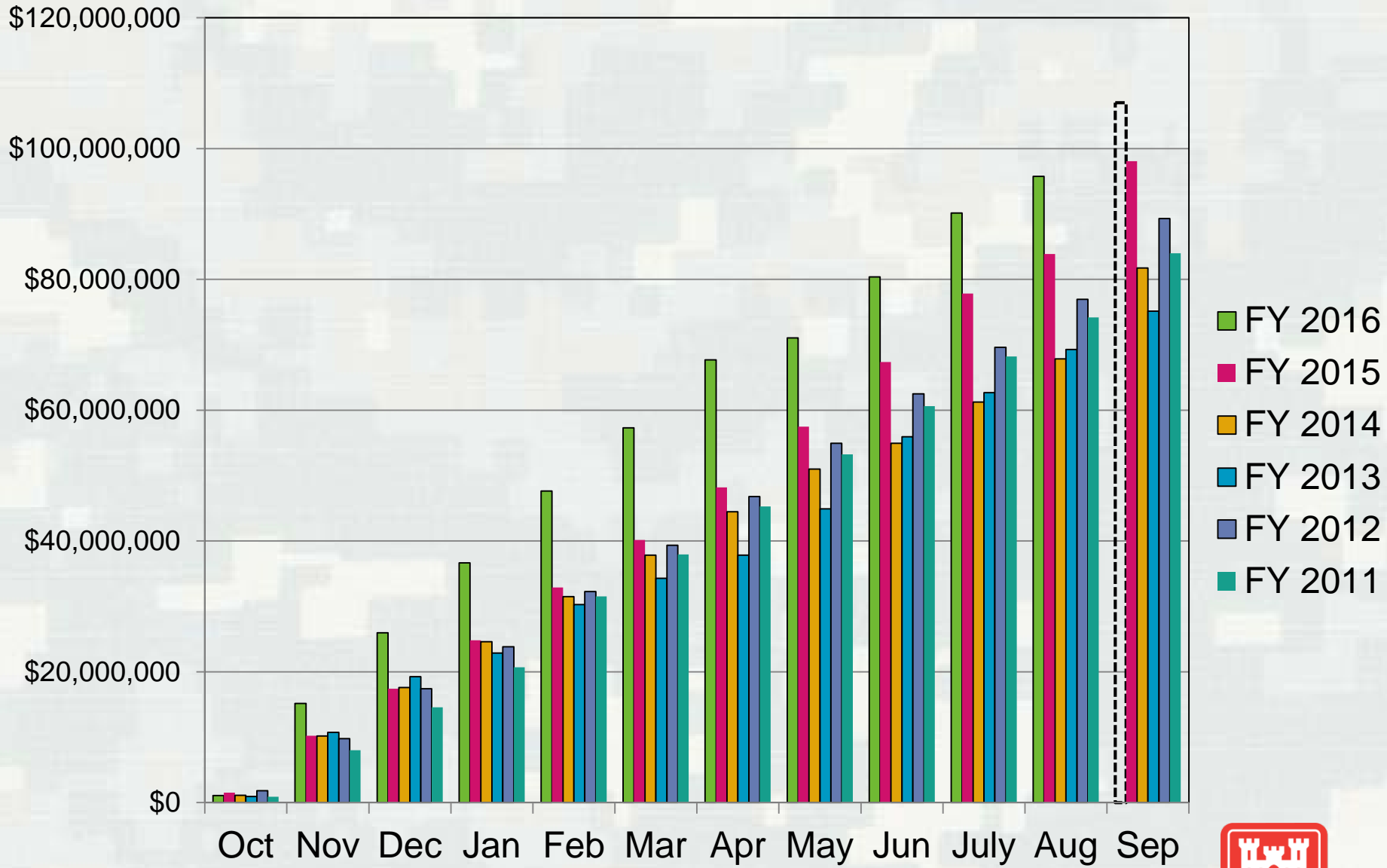
	IWTF	USACE
FY 16 Beginning Balance:	\$54,223,049	\$0
Previous Transfer Authority(SEQ/ATB)	\$0	\$0
Previous Transfer Authority(PTA)	\$0	\$0
Total FY Beginning Balance -	\$54,223,049	\$0
Transfers from Corps (8861) to IWTF	\$0	\$0
FY 16 Fuel Tax Revenue:	**\$95,543,641	\$0
FY 16 Interest:	\$200,455	\$0
Total Year to date Balance -	\$95,744,096	\$0
Transfers from IWTF to Corps (8861)	\$0	\$0
Transfers from Corps (3122) to US Treasury	\$0	\$0
Total Activity -	\$0	\$0
FY16 Current Total Available Balance -	\$149,967,145	\$0

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

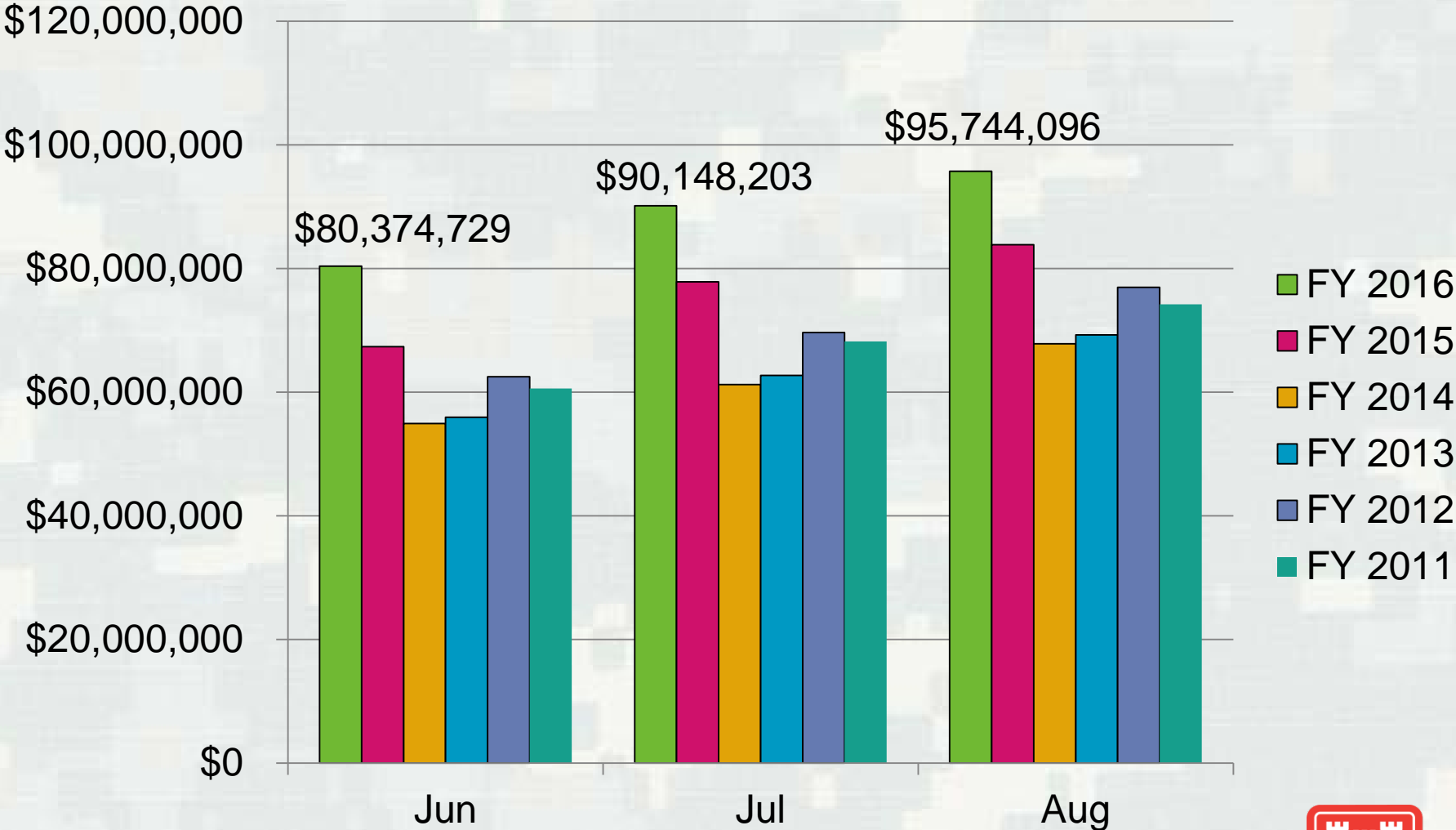
**Amount includes adjustment made by Bureau of Fiscal Service to bring appropriated estimates to actual taxes received.



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	\$45,400,000	\$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	\$29,900,000	\$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
<u>L/D 27</u>	President’s Bud	\$100,000	\$850,000	\$0	\$0	\$0	\$0
	Total allocation	\$98,000	⁷ \$607,743	⁸ (\$2,000)	\$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



Project Updates

(Mississippi Valley Division)

- Lockport
- Inner Harbor Navigation Canal (IHNC)
- Miss River L&D 27 [Completed]



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

- Complete construction in FY17



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) 30-09-18



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

Changes

- Delays encountered in the modeling process caused GRR report completion to slip.
- **Economic modeling results were received from the USACE Planning Center of Expertise for Inland Navigation and Risk-Informed Economics Division (PCXIN-RED) .**
- **GRR currently on target to achieve Tentatively Selected Plan (TSP) milestone of October 2016.**

Funding Overview

- Original Authorized Cost: **\$714M**
- Not applicable to Sec 902
- ARRA Funding (FY09-11): **\$ 0**
- 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 December 2016 **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



Locks & Dam 27 Major Rehabilitation, Mississippi River, IL

	ARRA	CG	IWTF	Total
Total Project Cost:	\$28,815,988	\$6,504,012	\$4,264,000	\$39,584,000
FY13 Allocation:	-\$340,357	\$474,050	\$474,050	\$607,743
FY14 Allocation:	\$0	-\$2,000	\$0	-\$2,000
FY15 Allocation:	\$0	\$0	\$0	\$0
FY16 Allocation:	\$0	(\$48)	(\$268,474)	(\$268,522)
FY17 Budget:	\$0	\$0	\$0	\$0
Remaining Balance:				
		\$0	\$0	\$0
Remaining Balance Change From Last Meeting				\$0

Changes

- Fiscal closeout completed 29 Jun 2016. Excess funds transferred to the IWTF 310 funds account which will result in a reduced draw of FY2016 IWTF.**

Funding Overview

- Original Authorized Cost: \$ 38.7M
- Not applicable to Sec 902
- ARRA Funding (FY09-11): \$ 28.8M
- Engineering & Design Cost: \$ 1.8M
- Supervision & Admin Cost: \$.8M
- Mitigation: N/A

Current Status of the Project

- All contracts completed in 2013
- Cost share allocations in balance

Next Steps

- **None**



Locks & Dam 27 Major Rehabilitation, Mississippi River, IL

Schedule of Remaining Work	Design Initiated	Contract Award	Construction Complete	Project Benefits	Capitalized Cost Closeout
Task 1- None	(DD-MM-YY)	(DD-MM-YY)	(DD-MM-YY)	(DD-MM-YY)	(DD-MM-YY)
Task 2- None					



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-10
- Set NP-9
- Unwater TG Bay No. 3
- Erect TG No. 4
- Complete foundation pile driving
- Complete LBA thin-wall cofferdam

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-8 set
- TG 1 thru 3 erected; 4th onsite; 5th to arrive 2017
- Precast SB Shell Nos. 3 & 4 ongoing



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	1-Feb-17	1-Nov-19	1-Dec-21	N.A.	30-Mar-22
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

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

** Excludes Charleroi Land Chamber & Port Perry Railroad Bridge Relocation.

Next Steps

- Recertification of total project cost and schedule – 2016
- Preparing dredging package for Award – FY17
- Award RCC Option 1 – FY17

Current Status of the Project

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



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: Reprioritization of project requirements & exclusion from the FY17 PresBud deferred award of RCC Option 1 on schedule.
- 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



BUILDING STRONG®

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



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	\$22,700,000	\$22,700,000	\$45,400,000
FY17 Budget:	\$0	\$0	\$0	\$0
Remaining Balance:				\$402,632,902
Remaining Balance Change From Last Meeting				\$0

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

Changes

- Downstream Cofferdam base contract awarded in Sep '16 – \$42.4M; remaining 6 Options will be exercised with FY17 funding.

Funding Overview

- Authorized Cost: \$393,200,000 (Oct '91 \$); \$796,318,000 (Oct '16 \$)
- 902 Limit: \$471,840,000 (Oct '91 \$); \$811,578,000 (Oct '15 \$)
- ARRA (FY09-13): \$88,833,628
- Engineering & Design Cost: \$100,240,000 (through FY15)
- Supervision & Admin Cost: \$19,077,000 (through FY15)
- Mitigation Cost: TBD, alternative analysis on hold pending additional funding

Current Status of the Project

- U/S Lock Monolith Contract 96% complete. U/S miter gates are being installed.
- Risk based total project cost estimate (TPCE) update initiated with receipt of funding in July 2015, expected completion in Fall 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 – Downstream Lock Excavation	01-Oct-00	30-Sep-17	30-Mar-20		
Task 6 – Downstream Lock	01-Oct-00	30-Sep-19	8-Dec-23	8-Dec-23	
Task 7 – Approach Walls	01-Oct-02	30-Sep-21	12-May-23		



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	\$14,950,000	\$14,950,000	\$29,900,000
FY17 Budget:	\$0	\$0	\$0	\$0
Remaining Balance:				\$538,959,000
Remaining Balance Change From Last Meeting				\$0

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

Changes

- Lock Excavation contract awarded Sep '16; Total contract amount of Base & 8 Options – \$33.2M

Funding Overview

- Authorized Cost: \$267,166,000 (Oct '02 \$); \$420,451,000 (Oct '16 \$)
- 902 Limit: \$320,600,000 (Oct '02 \$); \$475,854,000 (Oct '15 \$)
- ARRA Funds: \$49,330,043 (total FY09 – 12)
- Engineering & Design Cost: \$44,081,000 (actual through FY15)
- Supervision & Admin Cost: \$5,906,000 (actual through FY15)
- Mitigation Cost: TBD, alternative analysis underway

Current Status of the Project

- \$3.1M Cofferdam Stabilization construction contract awarded Sep 15; **physically complete 18 Jul 16.**
- Total Project Cost Estimate update (with 2023 projected completion date) certified 01 Jun 16.
- Level 3 Economic Update **undergoing final policy review by LRD, scheduled for approval by 30 Sep 16.**
- **Awarded Lock Excavation Contract (Base & 2 Options) in Sep '16.**

Next Steps

- **Exercise remaining Lock Excavation Options; pending funding**
- **Award Lock Chamber contract Sep '17; pending funding**
- Anticipate PACR submission – **Oct / Nov 2016**



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		



Questions

