



Great Lakes
Navigation System



US Army Corps
of Engineers.



St. Marys River Project Soo Locks Update

Objective

Sault Ste Marie Locks Re-Capitalization



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Recapitalize and modernize the locks and supporting infrastructure at Sault Ste. Marie from FY08-FY13 in order to provide reliable infrastructure through the year 2035 and beyond

- ✓ System wide approach with the Poe Lock as the main effort
- ✓ MacArthur Lock
- ✓ Hydropower improvements
- ✓ Rock Cut – St. Marys River
- ✓ Sabin & Davis Locks - Decommission

Overview

Sault Ste Marie Locks Re-Capitalization

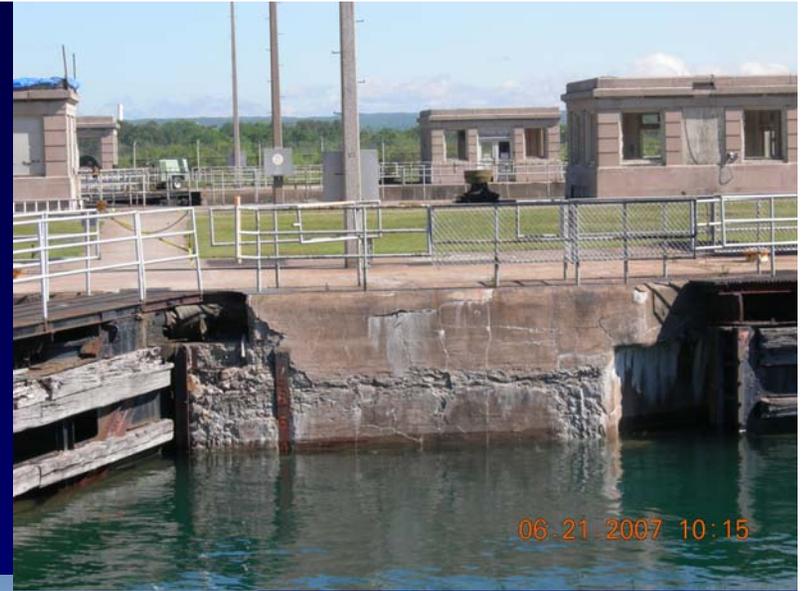
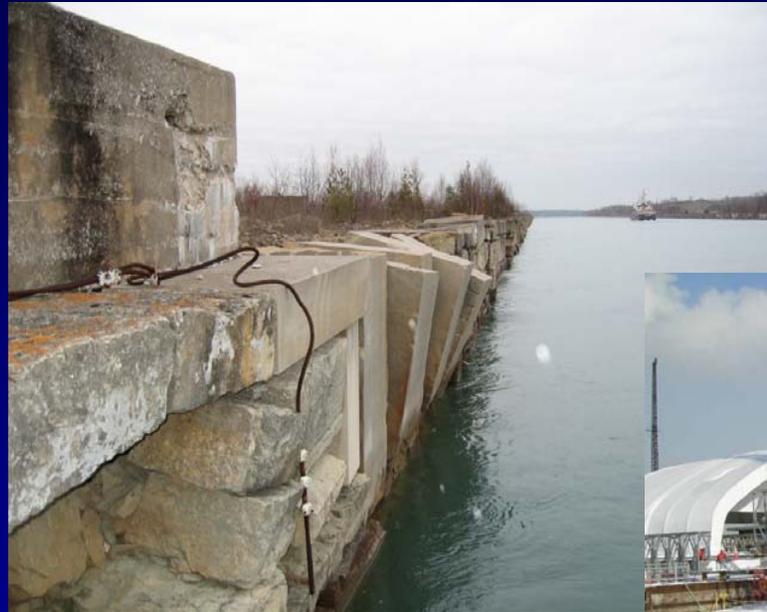


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FY	Base O&M	Re-CAP	Unmet Need
FY08	\$17,561	\$8,727	\$5,100
FY09	\$18,126	\$10,986	\$10,986
FY10	\$18,671	\$11,239	-
FY11	\$19,263	\$10,422	-
FY12	\$19,345	\$14,405	-
FY13	\$19,500	\$12,700	-
total	\$112,466	\$68,479	-



\$ X 1000



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New Poe-Sized Lock



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-Construction of a second, large replacement lock (same size as the Poe Lock) on the site of the existing Sabin and Davis Locks. The purpose is to have a two lock system that can accommodate the large lake vessels to avoid any disruption of service that might be caused if the existing Poe Lock were not operational for any reason.

- Such a break in service would cause serious problems for industries and companies that rely on shipments of raw material using the 1000-foot vessels.

- WRDA 2007 included a provision for construction of the new lock at full federal expense at a total authorized cost of \$341,714,000 (2007 dollars). Construction could begin as early as 2009 if funding is provided.





FY 08 Activities

- **Complete Cofferd Dam Plans & Specifications**
- **Complete NEPA Compliance Efforts**
- **Update the Project Cost Estimate**
- **Obtain Additional Geotechnical Data**
- **Complete Filling & Emptying Model Testing**
- **Continue Detailed Design Reports for the Channel Excavation/Guide Walls and Lock Chamber**

Sault Ste. Marie, MI, Replacement Lock FY 09 Activities



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- **Award Cofferdam Construction Contract & Initiate Construction**
- **Complete Detailed Design Reports for the Channel Excavation/Guide Walls and Lock Chamber**
- **Initiate Plans & Specifications for the Channel Excavation/Guide Walls and Lock Chamber**

Sault Ste. Marie, MI, Replacement Lock



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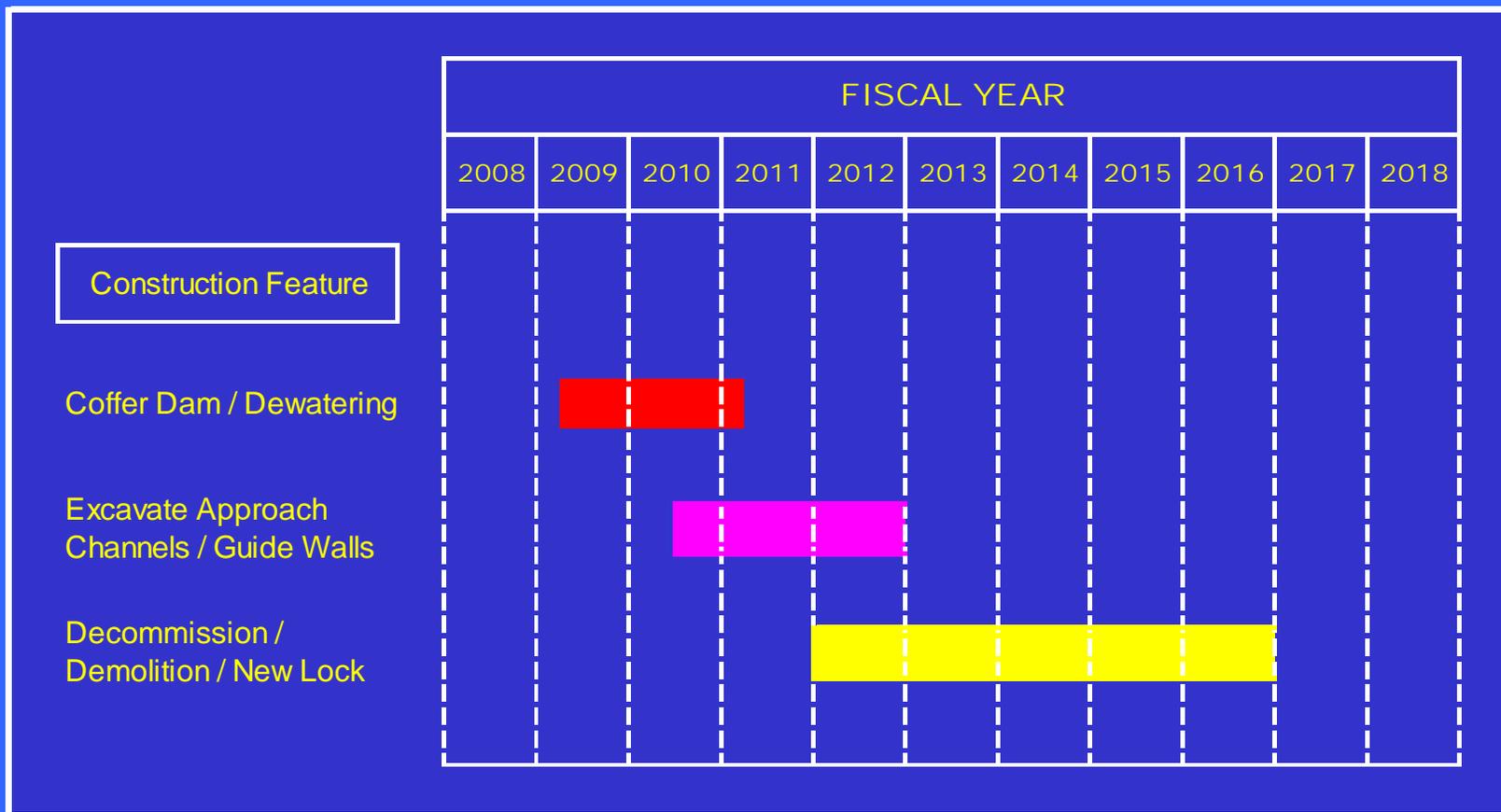
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Sault Ste. Marie, MI, Replacement Lock

Optimal Schedule



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Rendition of New Lock



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LRE Sault Ste Marie Locks Re-Capitalization Plan

Sault Locks Re-Capitalization Plan			FY2008				FY2009				FY2010				FY2011				FY2012				FY2013				
Description of Work	Est		1st	2nd	3rd	4th																					
Additional Set of Skip Logs for Poe Lock (w/tilting arm)	\$ 7,000	contract																									
Compressed Air System	\$ 100	PSS																									
	\$ 2,000	contract																									
Fountain Rehabilitation	\$ 50	PSS																									
	\$ 250	contract																									
MacArthur Lock Gate Coaling Replacement	\$ 50	PSS																									
	\$ 1,500	contract																									
MacArthur Lock Tahler Valve Bulkheads	\$ 100	PSS																									
	\$ 755	contract																									
Mac Lock Automation & Upgrade 450V Controls	\$ 100	PSS																									
	\$ 1,100	contract																									
MPP Crib Dam Repair	\$ 112	PSS																									
	\$ 1,188	contract																									
MPP Mainbin and Bury Power Cables	\$ 62	PSS																									
	\$ 618	contract																									
MPP Repair Spalling of Spiral Cores of Main Turbines	\$ 91	PSS																									
	\$ 808	contract																									
MPP (Sandblast/Paint) Repair Gantry Crane	\$ 200	contract																									
Poe Lock Gate Coaling Replacement	\$ 50	PSS																									
	\$ 1,500	contract																									
Poe Lock Hydraulic Replacement	\$ 100	PSS																									
	\$ 4,000	contract																									
Poe Gilling Derrick (Sandblast & Paint)	\$ 200	contract																									
Replace Pump Guldgear Sec (Assembly A)	\$ 250	contract																									
Rock Cut/Wall Stabilization	\$ 50	PSS																									
	\$ 1,200	est																									
	\$ 9,000	contract																									
South Canal Air Curtain for Upper Approach	\$ 65	PSS																									
	\$ 1,000	contract																									