



Chicago Harbor, IL

Project Features

- Located on Lake Michigan in the city of Chicago, Cook County, Illinois
- Authorization: The Rivers and Harbors Acts of 1870, 1880, 1912, 1919 and 1962.
- Authorized depths are 29 feet in the Lake Michigan harbor approach, 28 feet in the outer harbor, and 21 feet to Rush Street.
- The Federal channel within the harbor is 2.2 miles and it connects to the deep draft Chicago River channel extending 4.02 miles to the North Avenue Turning Basin.
- The harbor is a part of the Port of Chicago, and is the secondary link between the Great Lakes, the Inland Waterway System, and foreign ports.
- Five year average (2006-2010) tonnage is 22.1M tons of material shipped and received
- 37th leading U.S. port in 2010
- 20,357 lineal feet of timber crib, laid-up stone, and concrete caisson breakwater structures.
- Chicago Lock completes over 11,500 lockages annually, passing over 40,000 vessels.
- The harbor hosts a USCG Station, Chicago Marine Police, and Illinois Conservation Police, Chicago Fire Dept.'s Fire Boat and City tug.
- Tour and Charter Boat Operations – 20 companies operate 55 boats, and host approximately 370,000 passengers annually.
- Privately-owned marinas moor 1,450 recreational boats within the harbor.

Project Requirements

- The Federal channel is at authorized depths. The channel has not been dredged in 27 years.
- The 5,321 LF northeastern breakwater is the harbor's primary shield. It is in very poor condition, a 100' segment has failed, and the loss of further sections is expected.
- Chicago Lock has a Dam Safety Action Classification System rating of II. Several repairs are Urgent, and that the project is considered Very High Risk. Stabilization of the North Pier Utility tunnel, and the addition of gate winches as a fail-safe measure are unfunded requirements.



Consequences of Not Maintaining the Project

- The Jardine Water Purification Plant is located in the harbor and serves 5M consumers in 118 municipalities.
- The lock limits Lake Michigan water flow into the Illinois Waterway. It provides flood damage reduction to the downtown area from Chicago River, protecting \$1.40B in real estate.
- Navy Pier annually hosts 9M visitors and generates nearly \$138M in sales. Its operation employs 700 full-time and 2,000 part-time workers. Over 100 private businesses operate there, employing 750 workers.
- Reduction of bulk commodities that pass through the port and generate \$426M annually in direct revenue while supporting 6,934 direct, indirect, and induced jobs that produce over \$574M per year in personal income.
- If the port was closed to commercial traffic, commodities would have to be transported by rail and truck. This would increase annual emission rates by over 12,900 tons of harmful particulate matter (PM-10) and increase costs by \$1.2M due to increased railroad related accidents, and \$126.K due to increased trucking related accidents.

Transportation Importance

- The harbor is a safe refuge on southern Lake Michigan for barges and vessels traveling north from or south to the Port of Chicago.

**U.S. Army Corps of Engineers Fiscal Year (FY) 2012, 2013 and 2014
Chicago Harbor, IL
Project Requirements and President's Budget (\$1,000)**

Work Package	FY12 Requirement	FY12 Work Plan	FY13 Requirement	FY13 President's Budget	FY14 Requirement	FY14 President's Budget
Project Condition Surveys	96	95	100	95	102	102
Lock Operations	1,908	1,847	1,850	1,850	1,912	1,912
Routine Lock Maintenance	250	173	250	55	250	250
East and West Lock Gates Replacement & S&A						
Structural Repairs - Northeast Breakwater Crib Encapsulation of 100' failed segment by Contract	3,390		3,710		3,900	
Structural Repairs - Northeast Breakwater Crib Stabilization by Contract (900')	4,250		4,280		7,000	
Structural Repairs – Eastern Outer Breakwater Repairs by Gov't Floating Plant (500')	1,895		1,895		1,960	
Chicago Lock Asset Renewal						
Upgrade Lock Emergency Generator and Lockwall Lightning protection	450				1,000	
Concrete Resurfacing Chamber Walls, Guidewalls, walkways	7,170		7,170		7,420	
North Pier Tunnel Stabilization	10,320		10,320		10,680	
Lock Scour Hole Repairs	2,550					
Lock Facility Security Lighting, Fire & Intrusion Alarms, Security upgrades	1,480		1,930		990	
Installation of Emergency Winches Lock SectorGates	940		990		1,980	
To design a direct gas line to the Lock House to improve the efficiency.			137			
Investigate a geo-thermal cooling system for the Lock House to reduce energy consumption.			120			
TOTALS	34,699	2,115	32,752	2,000	37,194	2,264

Congressional Interests

- Representative Danny K. Davis, D-IL-7
- Senator Richard Durbin, D-IL
- Senator Mark Kirk, R-IL