



# 2011 LRD LOCK AND DAM MAINTENANCE CONFERENCE



Pittsburgh, PA

February 15-17, 2011

Marine Design Center

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# Presentation Overview



- MDC Projects Update
- Technical Advancements



# POTTER DECK HOUSE





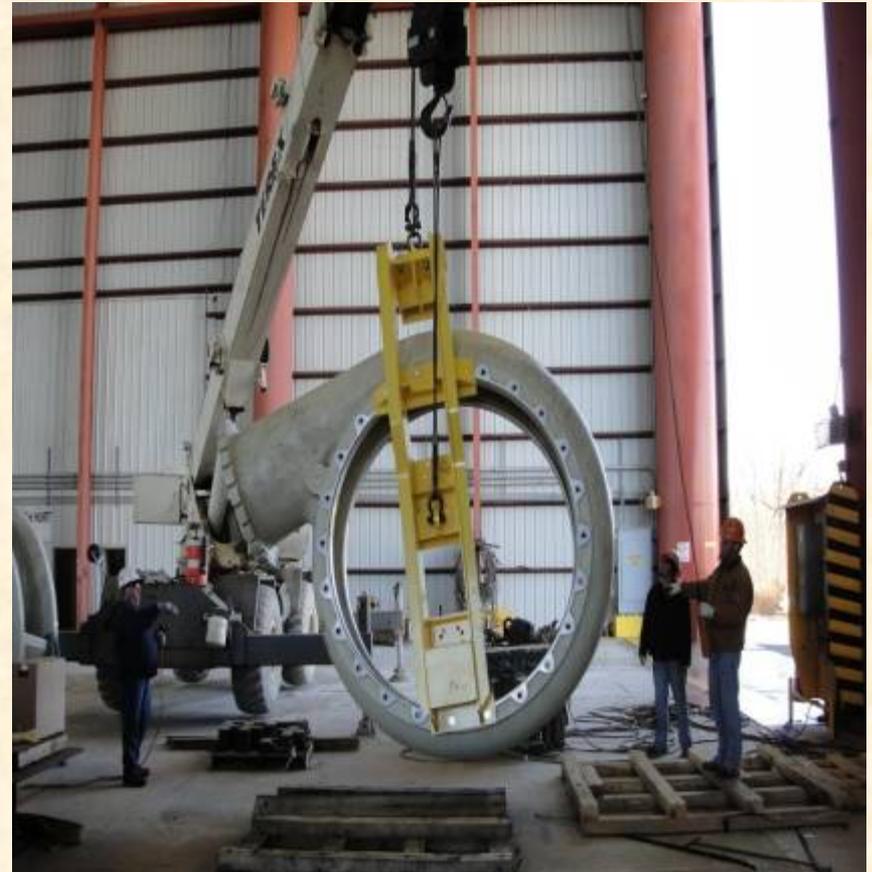
# POTTER PUMP CASING



**OLD**



**NEW**



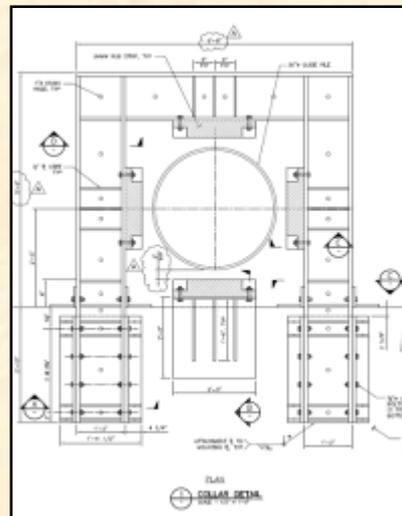
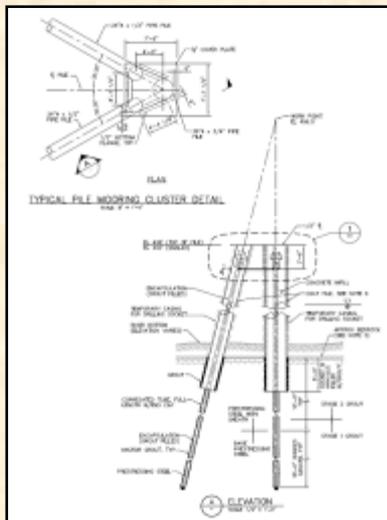
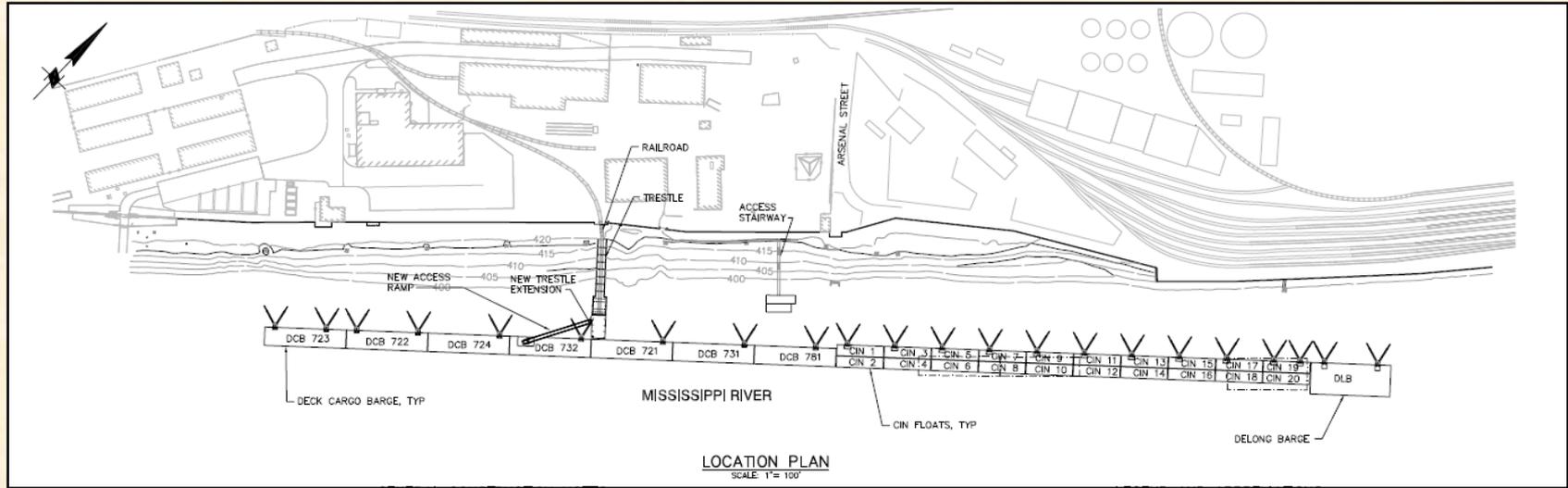


# SHALLOW DRAFT





# St. Louis Service Base Mooring Replacement

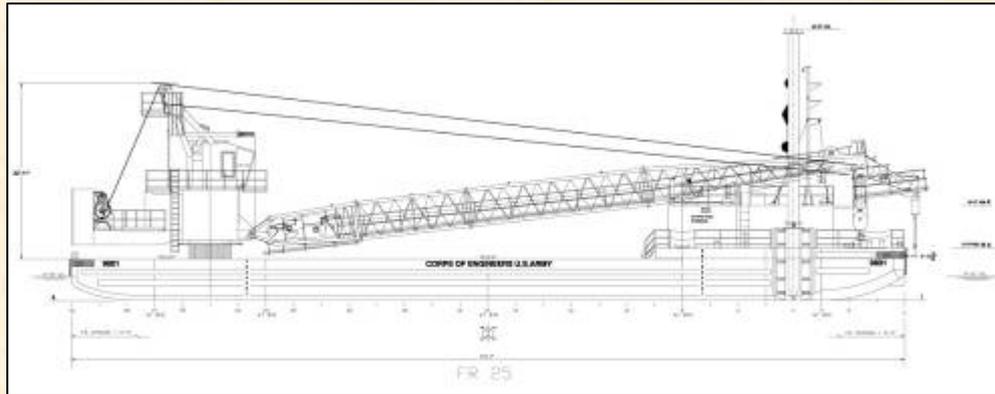


## PROJECT HIGHLIGHTS

- 22- 3 pile Clusters
- 45' Extension of Railroad Trestle
- Trestle-Fleet Access Ramp
- 30-Ton Telescoping Boom Crane
- 2,100 ft Wharf
- Electric and Water Supplied to Fleet

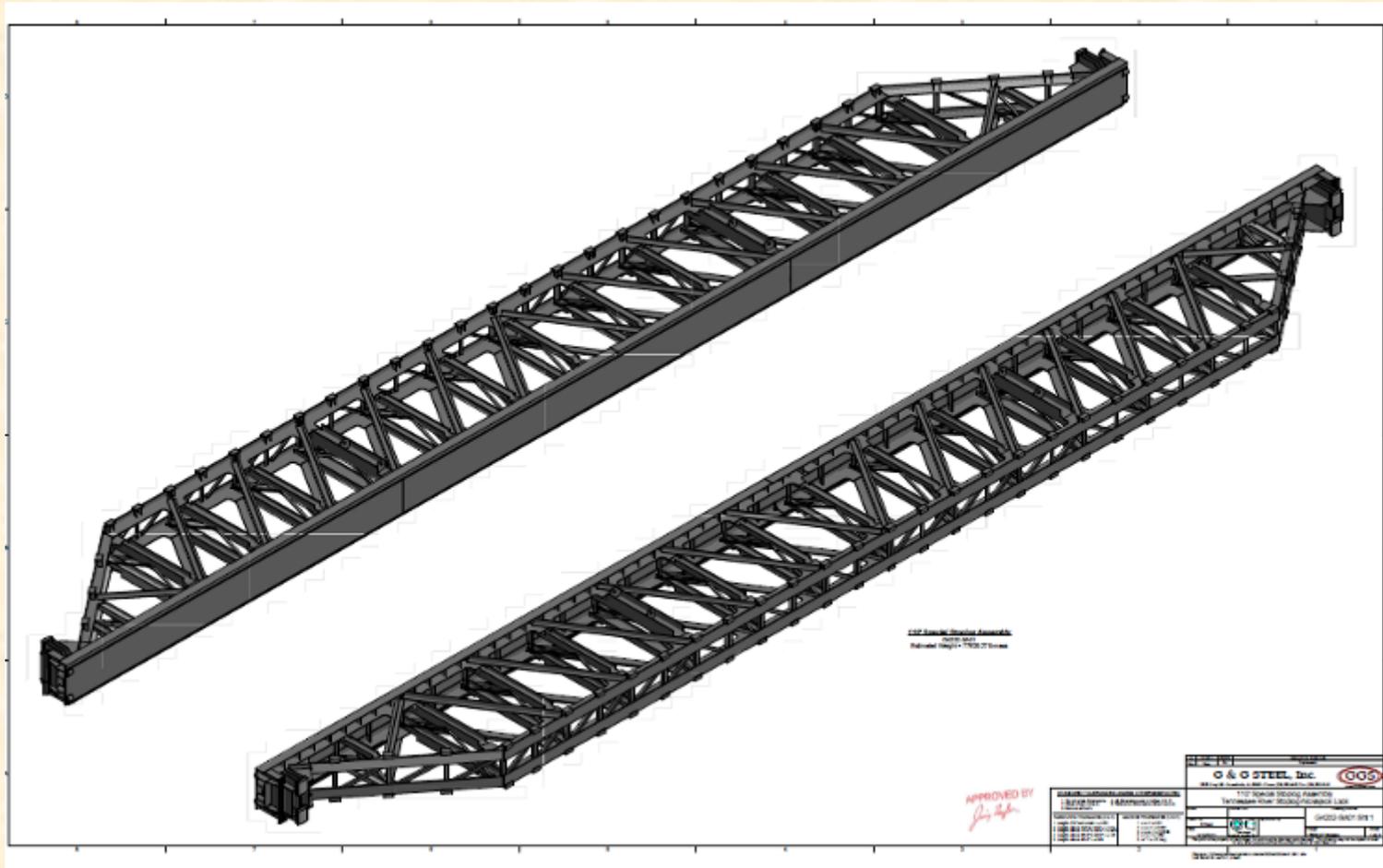


# ST. PAUL CRANE BARGE





# NASHVILLE STOP LOGS

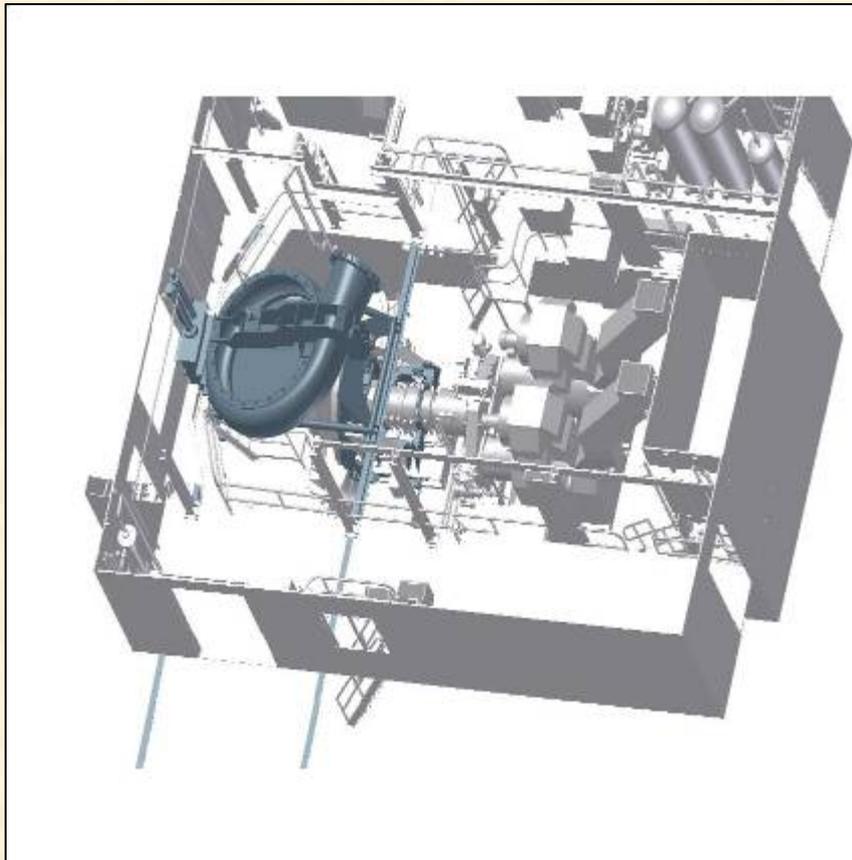




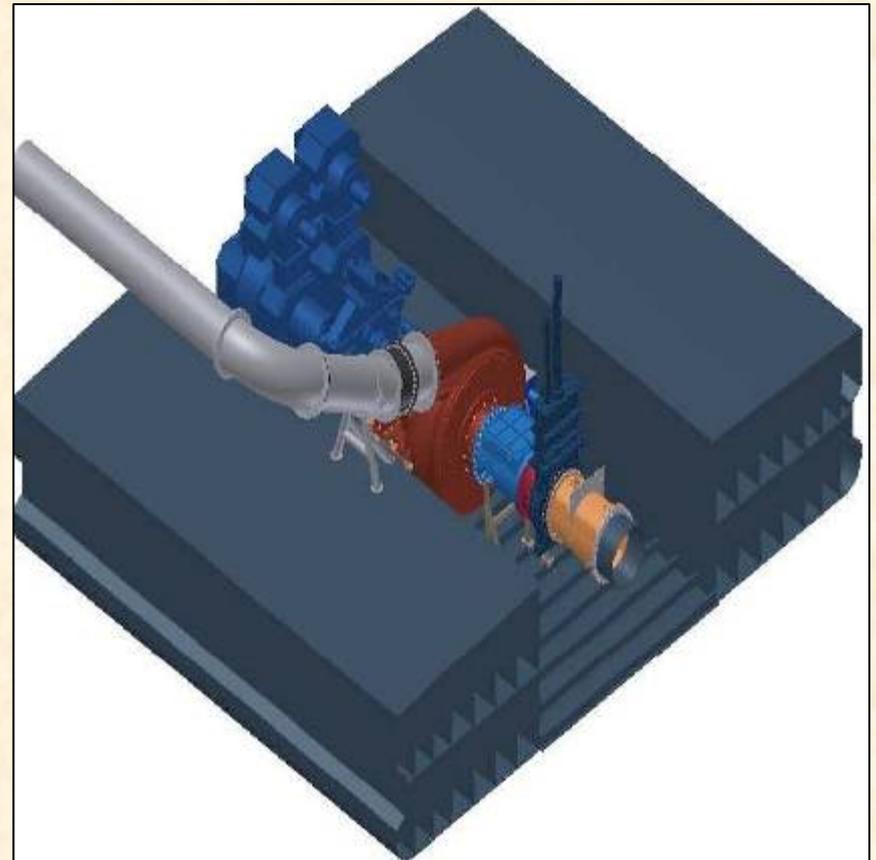
# SCANNING (POTTER)



## HOISTING



## NEW COMPONENTS



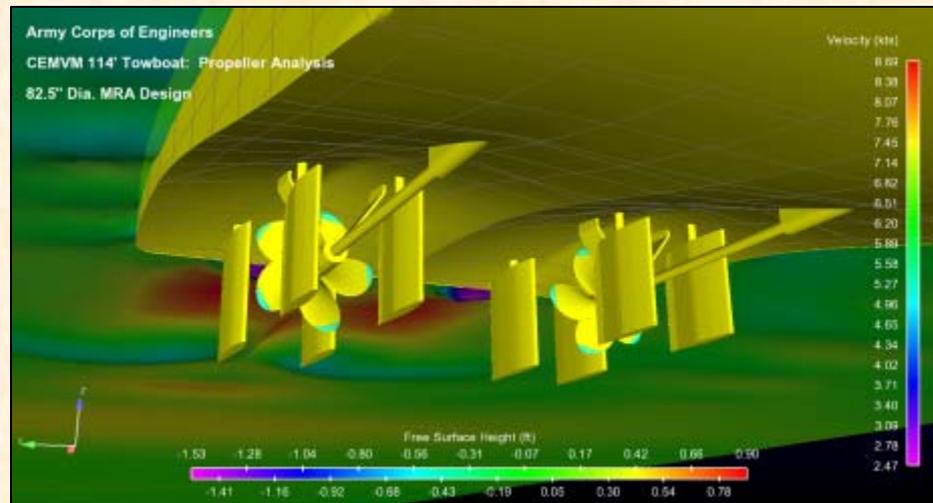
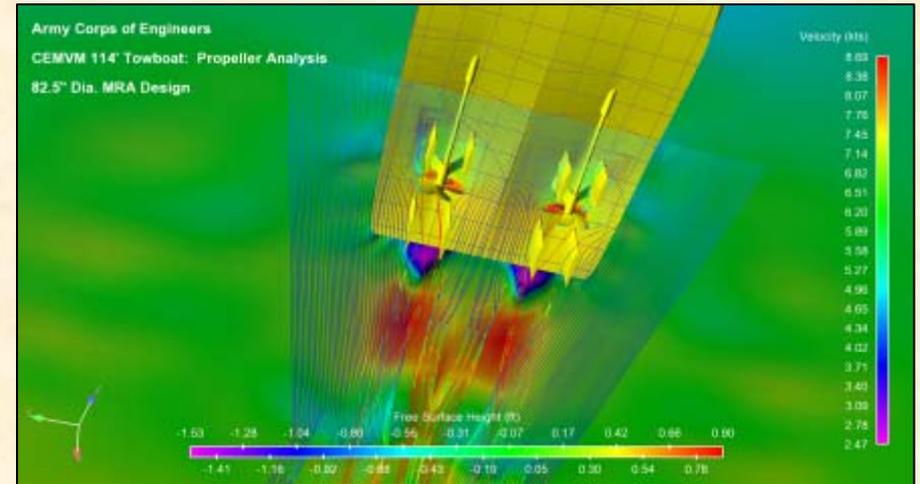
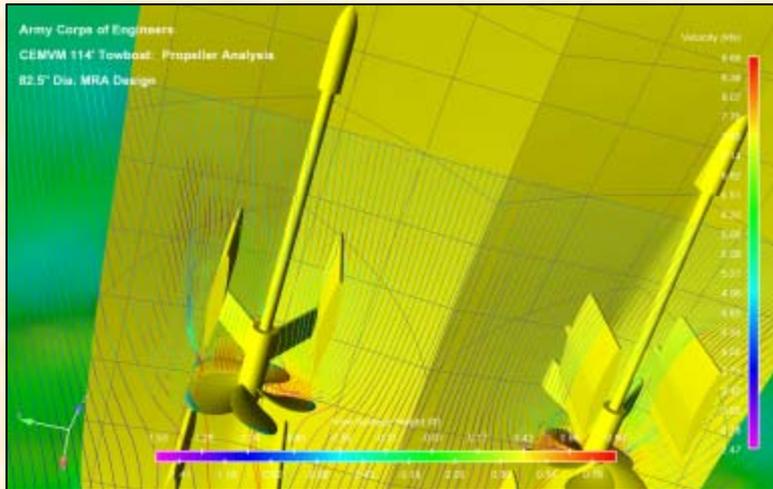


# SURVEYBOAT REDLINGER





# ACOE RANS RESULTS





# EPA MARINE REMANUFACTURE RULE



The remanufacture program currently applies to engines meeting all of the following criteria:

It is a commercial marine diesel engine.

It was manufactured between 1973 and the last Tier 2 model year.

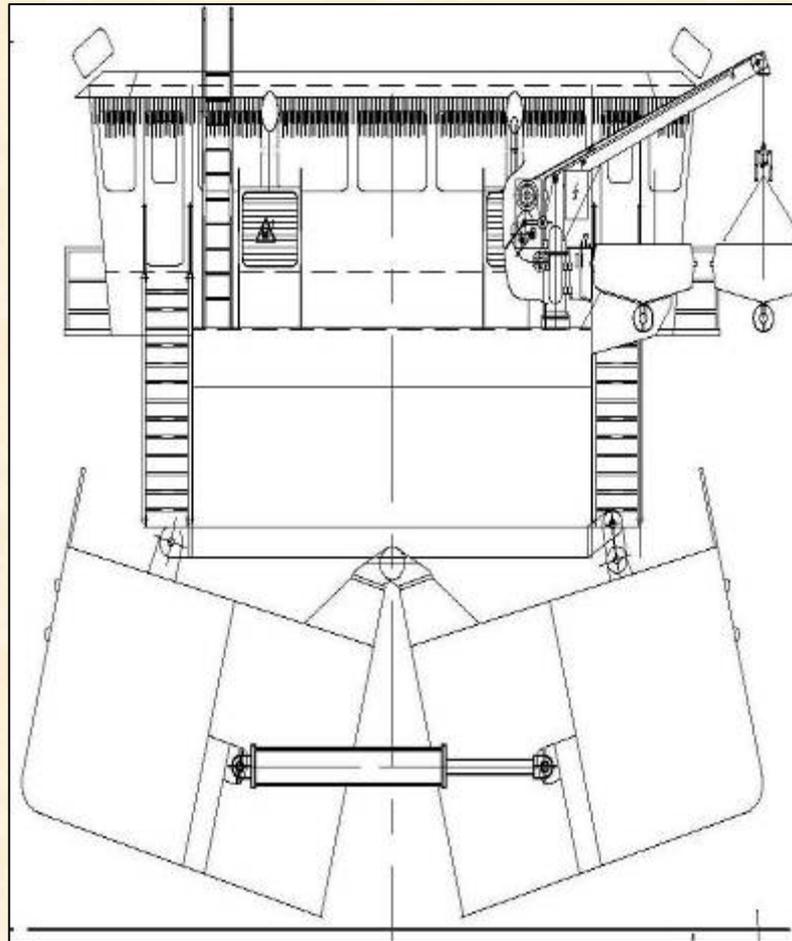
It has power at or above 600 kilowatts (kW).

It has a displacement of less than 30 liters per cylinder.

It is installed on a vessel that is flagged or registered in the United States.



# BOC WATER HYDRAULICS





# ENVIRONMENTAL FLUIDS

