



1700 t Floating Crane Design Review “Left Coast Lifter” American Bridge/Fluor Enterprises

Liftech provided design assistance and review services to American Bridge/Fluor Enterprises (ABF) for procurement of a shear leg derrick. The derrick is used to erect the major components of the San Francisco-Oakland Bay Bridge self-anchored suspension span.

The crane with a 100 m boom has 1700 t capacity at 60 degrees. The crane has two auxiliary hooks with capacities of 100 t and 10 t. The boom is configured to lay down for transport within the USA river system. The 100 ft wide x 400 ft long barge has removable floats for increased stability. The derrick and barge floats are made by ZPMC in China. The barge was fabricated by US Barge LLC in the United States and towed to ZPMC for mounting the crane.

Liftech’s services included development of the technical specifications, design review and assistance, and fabrication review assistance.

The project was awarded the Structural Engineers Association of Northern California (SEAONC) 2010 Excellence in Structural Engineering Award in the Study/Research Guidelines category.

Reference:
American Bridge Company
Coraopolis, Pennsylvania