

Dynamic Under Keel Clearance (UKC) Project PROTIDE

Welcome to the Port of Long Beach, California
Marathon Petroleum Terminal Berth 121.

Your vessel will be participating in the PROTIDE UKC Project due to the deep arrival or departure draft of greater than 16.7m (55 feet).

The Long Beach pilots, Port of Long Beach, NOAA, Marathon and others have been building this project over the last several years and have been bringing in deeper ships since April of 2017.

The Protide program software created by Charta Software predicts the vessels motion and under keel clearance with the prevailing sea conditions with a high degree of accuracy.

Long Beach Pilots boarding your vessel offshore will have a sensitive motion sensor device known as the Portable Surveyor Box or Octopus that will be used to measure and record your vessels actual ship motion (pitch and roll) as it transits into the Long Beach harbor.

The data recorded from this device will be used to compare the actual ship motion with the predicted motion coming from the PROTIDE program. We have done dozens of such transits and all with positive and accurate results.

You can expect up to three Long Beach Pilots to board your vessel. One pilot will act as the conning pilot, the second pilot will be the back-up or assistant to the conning pilot and the third pilot (if required) will be the PROTIDE pilot and will monitor the PROTIDE equipment. A Marathon representative (s) may also accompany the pilots boarding.

Please be ready to land the following equipment:
The PROTIDE equipment in a black case (25KG/55lbs) is comprised of a Laptop and the motion sensor or Portable Surveyor Box. Up to three (3) Personal Pilot Units, each housed in an orange case which they will use to supplement your vessels bridge equipment.

There will be a minimum of 4 assist tugboats:
One or two tugs will act as escorts that will meet your vessel offshore after the pilot's board; the other two tugs will be in attendance between the Long Beach Sea buoy and the breakwater harbor entrance.



charta software



Marathon Petroleum Contacts

Capt. Rob McCaughey

Marine Operations

RBMcCaughey@MarathonPetroleum.com

O-562-499-3363

M-949-632-0860

Capt. Thomas Mac Krell

Port Captain

WMacKrell@MarathonPetroleum.com

O-562-499-3309

M-949-395-0859