

PACIFIC PILOTAGE AUTHORITY

1000 – 1130 West Pender Street
Vancouver, B.C
V6E 4A4



NOTICE TO INDUSTRY

Date Issued: 06 June 2016 **Notice Number:** 05/2016
Subject: Harmac Terminal, East
Geographic Area: Vancouver Island, BC
Details: Tug requirements for ship berthing/unberthing based on bollard pull rating

Guideline:

1. Port or Starboard side alongside; no bow thruster

Length Overall	Current strength	Wind Speed	Tug Bollard Pull Berthing	Tug Bollard Pull Unberthing
151m - 180m	0 - 1 knots	0 - 20 Knots	2 x 20	2 x 20
		> 20 knots	1 x 20t + 1 x 30t	2 x 20
	1 - 1.5 knots	0 - 20 knots	1 X 30t + 1 X 35t	2 x 30t
		>20 knots	Pilots Discretion	

Note: Above 1.5 knots current and 25 knots wind, required tug force for berthing/unberthing exceeds 40 tonnes

181m - 215m	0 - 1 knots	0 - 20 Knots	1 X 25t + 1 X 30t	2 x 20t
		> 20 knots	1 x 25t + 1 x 35t	1 x 20t + 1 x 25t
	1 - 1.5 knots	0 - 20 knots	2 x 40t	2 x 30t
		> 20 knots	Pilots Discretion	

Note: Above 1.5 knots current and 25 knots wind, required tug force for berthing/unberthing exceeds 40 tonnes

2. Port or Starboard side alongside; 1500 horsepower bow thruster operating at 100% capacity

Length Overall	Current strength	Wind Speed	Tug Bollard Pull Berthing	Tug Bollard Pull Unberthing
151m - 180m	0 - 1 knots	0 - 20 Knots	1 x 25t	1 x 20t
		> 20 knots	1 x 30t	1 x 20t
	1 -1.5 knots	0 - 20 knots	1 x 15t + 1 x 40t	1 x 15t + 1 x 30t
		>20 knots	Pilots Discretion	
Note: Above 1.5 knots current and 25 knots wind, required tug force for berthing/unberthing exceeds 40 tonnes				
181m - 215m	0 - 1 knots	0 - 20 Knots	1 x 30t	1 x 20t
		> 20 knots	1 x 15t + 1 x 35t	1 x 15t + 1 x 30t
	1 -1.5 knots	0 - 20 knots	1 x 15t + 1 x 40t	1 x 15t + 1 x 30t
		>20 knots	Pilots Discretion	
Note: Above 1.5 knots current and 25 knots wind, required tug force for berthing/unberthing exceeds 40 tonnes				

3. Port or Starboard side alongside; 2500 horsepower bow thruster operating at 100% capacity

Length Overall	Current strength	Wind Speed	Tug Bollard Pull Berthing	Tug Bollard Pull Unberthing
151m - 180m	0 - 1 knots	0 - 20 Knots	1 x 20t	1 x 20t
		> 20 knots	1 x 30t	1 x 20t
	1 -1.5 knots	0 - 20 knots	1 x 25t	1 x 15t + 1 x 30t
		>20 knots	1 x 15t + 1 x 40t	1 x 15t + 1 x 30t
Note: Above 1.5 knots current and 25 knots wind, required tug force for berthing/unberthing exceeds 40 tonnes				
181m - 215m	0 - 1 knots	0 - 20 Knots	1 x 30t	1 x 20t
		> 20 knots	1 x 15t + 1 x 30t	1 x 15t + 1 x 25t
	1 -1.5 knots	0 - 20 knots	1 x 15t + 1 x 35t	1 x 15 + 1 x 25t
		>20 knots	Pilots Discretion	
Note: Above 1.5 knots current and 25 knots wind, required tug force for berthing/unberthing exceeds 40 tonnes				

Notes:

1. All ship berthing tugs must have certification indicating sustained bollard pull rating in metric tonnes.
2. Tug requirements will be reviewed annually by the PPA.
3. In all cases, pilot's discretion will apply, taking into consideration the weather, sea conditions, predicted current, freshet, draft, manoeuvring characteristics, fender capacity at the berth, and mechanical history of the vessel.
4. This berth is a starboard landing berth unless port side alongside is requested.
5. There is always a line boat at this berth which may be part of the berthing tug package.

Please contact the PPA at marineops@ppa.gc.ca if there are any queries or concerns.

Brian Young
Director, Marine Operations