

# Yanbu Industrial Port

**General Rules & Information,  
Yanbu Terminals,  
Including Contents Page**



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# Yanbu Industrial Port

## RULES REGULATIONS AND GENERAL INFORMATION

### 1 General Rules & Information

#### 1.1 Port Description & Definition

Yanbu Industrial Port is situated in the Western Province of Kingdom of Saudi Arabia on the shore of the Red Sea.

#### 1.2 Port Boundaries

Yanbu Port boundaries includes three separate installations which form Saudi Aramco's Yanbu Terminals.

#### 1.3 Yanbu North Crude Terminal

Yanbu North Crude Terminal comprises a jetty trestle with four loading berths. Terminal can accept vessels up to 500,000 DWT with dredged depth of 32 meters below LAT. The jetty trestle is connected to shore by a free-standing trestle and a causeway. All four loading berths are fixed structures with fixed loading platforms, breasting dolphins and mooring dolphins. There are four 20-inch crude oil loading arms and two 12-inch fuel oil loading arms at each of the loading platforms at berths 61, 62, 63, and 64. The fuel oil loading arms are also used to receive ships slops to retain at Saudi Aramco Mobil Refinery (SAMREF) slop reception facility. Each crude oil loading arm is capable of handling 32,500 bph maximum. Using four arms, the maximum flow rate per berth is 130,000 bph: and the min. topping-off rate is 20,000 bph. The maximum loading rate per fuel oil loading arm is 14,500 bph. For more information refer to the Berth Parameters section of this publication.

#### 1.4 Yanbu North Refined Product Terminal

A jetty trestle with four loading berths (berth No. 91 and 92 Outer) with maximum depth of 16 meters and (berth No. 93 and 94 Inner) with maximum depth of 11.5 meters) connected to shore by a causeway. All four loading berths are fixed structures with fixed loading platforms, breasting dolphins and mooring dolphins. For more information refer to the Berth Parameters section of this publication.

#### 1.5 Yanbu South Terminal

Yanbu' South Terminal comprises a jetty trestle with three loading berths (101, 102, 103). Terminal can accept vessels from 35,000 DWT up to 500,000 DWT with maximum sailing draft of 27.0 m. The jetty trestle is connected to shore by a free-standing trestle and a causeway. All three loading berths are fixed structures with fixed loading platforms, breasting dolphins and mooring dolphins. There are four 20-inch crude oil loading arms. Each crude oil loading arm is capable of handling 33,000 bph maximum.

Using four arms, the maximum flow rate per berth is 132,000 bph. For more information refer to the Berth Parameters section of this publication.

The terminal consists of the following:

- Three (3) loading berths (101, 102 & 103).
- Loading Berth # 101 & 103 can accommodate tankers in the size range from 35,000t DWT to 320,000t DWT.
- Loading Berth # 102 can accommodate tankers in the size range from 100,000t DWT to 500,000t DWT.
- Four (4) 20" hydraulically operated loading arms per berth

## 2 Navigational Information

### 2.1 Meteorology

#### 2.1.1 Climate

The climatic conditions affecting Yanbu' Terminal are seasonal. In winter onshore, air temperatures range from 25 °C during the day to about 12 °C at night. In summer air temperatures range from 35 °C during the day to about 25 °C at night. Extreme air temperatures recorded in recent years in the area have been 49 °C in May and 6 °C in February.

Temperatures offshore are generally several degrees lower. Relative humidity varies throughout the year with average values between 65% and 70% in winter and 50% - 55% in summer, however values of 100% may occur for short periods around dawn. The average annual rainfall taken over a 4-year period is 3.2 mm.

#### 2.1.2 Winds

The prevailing wind throughout the year is westerly, with a wind speed 6 kts and above, increasing during the afternoon. Storms occur as frequently as every 50 days, and sometimes can last as long as two weeks, although there is little drop in the barometric pressure, and very rarely any precipitation during these storms. Wind speeds of up to 50 kts may occur from the northwest and the northeast directions and during the spring and winter months.

#### 2.1.3 Tides & Currents

The tidal range is about 1 meter at spring tides, but fluctuations due to non-tidal effects are up to 3 meters. Fluctuations due to non-tidal effects are caused by storms, which can cause a mean sea level drop of 0.5 meter, and a significant increase in mean sea level after the storm or as it subsides. Generally, the tides are semidiurnal with a period of 12hr 25 minutes.

Currents in the area are influenced by local wind conditions, tide, and the general circulatory pattern of the Red Sea. See Admiralty Sailing Directions for specific information.

#### 2.1.4 Sea Conditions

Sea conditions can vary considerably within the port limits. Wave heights in the port area are usually lower than 2 meters during sea breezes.

#### 2.1.5 Sea Salinity and Sea Water Temperature

Seawater temperature is similar to air temperatures and range between 20°C and 31°C. Salinity varies between 35-39 parts per thousand.

#### 2.1.6 Visibility

The incidence of fog is rare, but should it occur, it is more likely during the period from November to April. Fog horns are provided at both terminals to alert ships in cases of poor visibility. During the summer months from May to September incidents of poor visibility (less than 5 miles) can be quite high due to mist and haze. Throughout the year, dust storms may occur obscuring the coastline.

#### 2.1.7 Extreme Weather

The extreme temperature occurs in summer time with readings above 49 °C. The rainy season extend from October to April. The maximum rainfall occurs in winter months. Wind speed can reach more than 48 kts associated with the thunderstorms.

### 2.2 Navigational Aids

The shape and colors of the buoys in the terminal area and approaches comply with the IALA System, Region A.

### 2.3 Anchorage Areas

#### 2.3.1 Anchorage

Anchorage within the harbor boundaries:

23° 55' 00" N      38° 12' 30" E

23° 56' 00" N      38° 12' 48" E

23° 57' 18" N      38° 12' 36" E

23° 56' 36" N      38° 10' 42" E

23° 56' 12" N      38° 11' 18" E

### 2.4 Entering the Harbor

#### 2.4.1 Navigation & Arrival

Vessels calling at the Saudi Aramco Yanbu Oil Terminals are assigned berths based on a variety of factors, including: nomination date, time of arrival, product to be loaded, vessel size, and available berths.

#### 2.4.2 Routing to The Terminal

Arrival and Departure of Vessels Notification to the Port Management

The Masters of vessels bound for a port within the jurisdiction of these rules must give preliminary notice of the vessel's intended arrival, as per Saudi Aramco standard arrival telex, and in compliance with Saudi Ports Authority (MAWANI) regulations.

## 2.5 Charts and Publications

### 2.5.1 Charts

Charts are available in various forms, including paper-based tables and digital from worldwide Hydrographic agencies. Vessels should always use with the largest scale chart available maintained in an up to date format with the latest corrections and Notices to Mariners applied.

### 2.5.2 Tide Tables / Tidal Stream Atlas

Tide tables are published in various forms, including paper-based tables and digital tables. When using tide tables for Saudi Arabian waters the validity of data should be supplied by a trusted source for example Saudi Aramco or UK Admiralty, and should be maintained in an up to date format with the latest corrections applied.

### 2.5.3 Pilot Books / Sailing Directions

Pilot Books / Sailing Directions are published in various forms, including paper-based or digital booklets. When using information for Saudi Arabian waters the validity of data should be supplied by a trusted source for example UKHO, and should be maintained in an up to date format with the latest corrections applied.

### 2.5.4 List of Lights / fog signals and Lists of Radio signals

Lists of Lights / Fog signals and Radio Signals are published in various forms, including paper-based or digital booklets.

When using information for Saudi Arabian waters the validity of data should be supplied by a trusted source for example UKHO, and should be maintained in an up to date format with the latest corrections applied.

## 3 Arrival Procedures

### 3.1 Arrival Directions

Approaching from the North

24°02'00" N 37°45'00" E

Approaching from the South

23°27'00" N 38°27'00" E

## 4 Arrival Communications

Refer To "Common Rules & Information," Section 6.0 "Radio Communications & Messages," And in Particular Section 6.4 "The Standard Messages."

## 4.1 VHF Communications

### Early Contact

VHF contact with Yanbu' Industrial Port Control Center should be established within 100 miles of the Port on VHF CH.16 or CH. 11 (or more in good propagation conditions) and maintained when anchored.

### Maintaining Contact

Radio watch must be maintained on channel 16 and 11 at all times. The following VHF Channels are used

Channel	Freq. (MHz)	Usage
16	156-800	International calling and distress.
<b>Yanbu' Port Channels</b>		
67,68	(156,375), (156.425)	Pilotage and berthing operations
10, 11, 13		Signal station - working channel.
71, 73		Pilotage and berthing operations.
<b>Saudi Aramco Yanbu' Terminal Channels</b>		
6	800	General calling and operations
67, 68	(156,375) (156,425)	General calling and operations

## 5 Documentary Procedures

Documentation must comply with Saudi Ports Authority (MAWANI) regulations.

Notice of Readiness

Notice of Readiness (N.O.R.) should be addressed to the applicable Saudi Aramco terminal.

## 6 Traffic Movements & Maneuvering

### 6.1 Vessel Traffic System

Vessels are forbidden to enter or navigate within the harbor limits without the approval of the King Fahad Industrial Port Control Center.

All marine services and shipping movements within King Fahad Industrial Port limits are monitored and controlled by King Fahad Industrial Port Control Center. The station is manned 24 hours a day and maintains a continuous VHF watch. Information can be provided to Masters and Pilots on all navigational aspects, including wind and visibility, navigational aids and shipping movements within the port area. The station will also provide a liaison with the terminal operators and emergency services.



## 7 Berthing of Vessels

### 7.1 Pilot Boarding Area

Ships should contact Yanbu Industrial Port Control Center on VHF CH. 16 or CH. 11 two (2) hours before arrival.

Approaching from the North

24°02'00" N 37°45'00" E

Approaching from the South

23°46'2" N 38° 24'1" E

### 7.2 Limiting Weather Conditions

#### 7.2.1 Berthing

Terminal	Wind Speed
Yanbu North Crude Terminal	30 Knots
Yanbu South Terminal	30 Knots
Yanbu North Refined Product Terminal	25 Knots

#### 7.2.2 Unberthing

There are no wind restrictions for unberthing. The above limits are to be considered as guidelines only, and the final decision will rest with the pilot. Limiting conditions for the Pilot to board the vessel are wave height of 3 meters or wind over 30 knots. Limiting conditions for berthing and mooring operations are wind speed over 25 - 30 knots depending on berth assignment.

For berthing and unberthing purposes, wind, sea, and tidal conditions have to be assessed and within acceptable limits in order that during the final docking, maximum approach speed and angle are within tolerable limits of the berth Approach Speed Monitoring system (ASM).

### 7.3 Pilotage

Pilotage is compulsory for all vessels entering, navigating within or leaving the pilot zones in all Saudi Aramco Oil Ports and Terminals. Pilotage and marine operations for ships calling Saudi Aramco terminals at Yanbu are provided by the Saudi Port Authority (MAWANI).

The Master of every vessel when approaching the Pilot Boat for the purpose of picking up a pilot must reduce speed to the minimum required to maintain steerage way, maintain VHF contact with the pilot boat and provide a good lee if necessary.

## 8 Berth Information

### 8.1 Information Common to All Berths

#### 8.1.1 Products Available

North Terminal products loaded include Crude Oil and Fuel Oil South Terminal product loads Crude Oil Refinery products loaded including Diesel Oil, Fuel Oil, Kerosene, MTBE, Naphtha, PG and BAS.

#### 8.1.2 Bunkers

North Terminal bunkers: Available - Fuel Oil

South Terminal bunkers: Not available

Refinery Terminal bunkers available - Fuel Oil, Diesel Oil

#### 8.1.3 Fresh Water

Not available.

#### 8.1.4 Ballast & Slop Reception

Bunker fuel oil loading arms are used to receive ships' slops for retention at SAMREF slop reception facility. Masters should, consistent with requirements for safe stress and segregation, keep the propeller submerged and minimize stern trim.

#### 8.1.5 Dock Water Density

The specific gravity of seawater is approximately 1.025.

## 9 Berth Operations

### 9.1 Loading Documents

Loading/Discharge Agreement

Prior to loading/discharge, the Terminal Shift Supervisor will contact the officer in-charge for the loading/discharge operation on board the tanker and discuss and agree on the loading/discharge plan. Cargo Inspectors will board to take samples and measure the cargo.

## 10 Shipping Agent Contact Details

The following companies are available to act as ships agents at the Saudi Aramco Terminals.

Information contained in the below table may be altered by the organizations without notice or warning.

Yanbu Shipping Agencies							
Agency	Services	Phone	Mobile 1	Mobile 2	24 Hours	Fax	E Mail
Yusuf Bin Ahmed Kanoo (S5 Agency world)	1	(014) 322 2123 (014) 322 4754 Ext 0, 201, 215, 217	(050) 334 5582	(055) 390 0332	-	(014) 322 2011	yanbu@kanooshipping.com saudiarabia@kanooshipping.com
Faisal M Higgi and Associates Co Ltd	1	(014) 322 2046 Ext : 114/133	(050) 439 8008	-	(014) 322 2046 Ext : 114/133	(014) 322 4388	Ops01@faisal-higgi.com main@faisal-higgi.com
Sharaf Shipping Agency Co. Ltd (Pride)	1	(014) 393 3284 (014) 393 3285 (014) 393 3286	(053) 142 7268	-	-	(014) 393 3287	redseaops@ssajeddah.com
Gulf Agency Company, Saudi Arabia	1	(014) 322 3992 (014) 322 8765	(055) 880 1790	-	-	(014) 321 1231	yanbu@gac.com
Alkhomeasia Shipping & Trading Est.	1 2	(014) 396 0049 (014) 396 0052	(054) 524 4054	-	-	(014) 396 0041	talmalki@alkhomeasia.com
Arabian Establishment for Trade and Shipping	1 2	(014) 322 2109	-	-	(055) 536 2522	(014) 391 1439	aetyanbu@aetshipping.com hussain.hamden@aetshipping.com
<p>Shipping Agencies are locally licensed to provide services for - 1. Maritime Support Services 2. Chandlery services 3. Bunker Services</p> <p>If dialing from an International destination: All landline / Mobile / Fax numbers must be preceded by Saudi Arabian country code. (00 966) or (+966) and then remove the first zero of the number. For example: Local (014) *** ***** will become either 00 966 13 *** ***** or +966 13 *** *****</p>							