

Notice To Mariner No. 72

SUBJECT : SPM - VOPAK ENOC FUJAIRAH TERMINAL

Further to our Notice to Mariners No. 67, 68 & 70, Mariners are kindly be informed that the pipeline and CALM Buoy have been installed at above Oil Terminal at Port of Fujairah.

1- Definition

SPM : Single Point Mooring
CALM : Category Anchor Leg Mooring.

2- Buoy Position

25⁰ 12' 44.117" North & 056⁰ 23' 9.362"East (in WGS84)

3- Buoy Colour : Yellow

4- Characteristics of buoy light

4.1 Light Colour : White.
4.2 Morse Code : "A" every 10 seconds.
Duration of "dot" : 1.0 second
Duration of pause : 1.0 second.
Duration of "dash" : 3.0 seconds.
Duration of pause : 5.0 seconds.
Overall period duration : 10 seconds.
4.3 Light Range : 5.7 Nautical Miles.

5- The Characteristics of the hose lights

5.1 Colour : White.
5.2 Period : 5.0 seconds
5.3 Duration : 0.25 second.

Notice to Mariner No.72, Dated 03/11/02.

6- Buoy Specification

6.1 SPM Design Criteria

Design Life	:	25 years
Discharge Capability	:	167,400m ² /day.

6.2 Buoy Dimensions

Buoy body diameter (including skirt)	:	13.5 m
Buoy body diameter (excluding skirt)	:	10.25m
Hull Height	:	4.1 m
Projection of spider below hull	:	1.8 m
Total height (including fog horn)	:	13.4 m
Weight	:	216 mt
Centre of Gravity above keel	:	3.3 m
Free floating draft	:	3.9 m

6.3 Certification

The system has been built and will be maintained as a 01 100 AT Single Point Mooring and Loading Terminal with Lloyd's Register of Shipping.

6.4 Anchor System

Anchor legs	:	6
Pattern	:	3 x 2
Length	:	300 m
Chain size (studless links)	:	76 m
Anchor points	:	6 x drag anchors
Pretension angle	:	45 ⁰

6.5 Submarine Hose System

Strings	:	1
Size	:	20"
Hose length	:	35 ft or 40 ft.
No. of hoses	:	3
Pressure rating	:	225 psi

6.6 Mooring Equipment

Hawser length	:	50 m
No. of hawsers	:	1
Circumference	:	15"
Hawser type	:	single
OCIMF chafe Chain	:	Type A,B+C

6.7 Buoy Piping System

Design pressure	:	225 psi
Turret piping	:	2 x 24"
Turret product valves	:	2 x 24"
Swivel	:	1 x 36" + 1 x 24"
Buoy body piping	:	2 x 24"
Buoy body product valves	:	3 x 24"

6.8 Floating Hose System

Strings	:	1
Size	:	20"/16"
Hose length	:	35 ft or 40 ft.
Pressure rating	:	225 psi

7. Effected Admiralty Charts 3521 & 3526.

8. Anchoring only allowed for Tankers calling at Vopak ENOC Fujairah Terminal at "V" area, please refer our Notice to Mariner No. 71 dated 27/10/2002.