#### **PULAU SEBAROK - VOPAK TERMINAL (OSV)**

JETTY	DEPTH A/S (m)	APPROACH DEPTH (m)	MAX LoA (m)	MAX DISPL (tonnes)	REMARKS
OSV2	11.3	16.6	264	45,800	
OSV3	16.9	16.6	370	210,000	see para. 3 under
0073	10.5	10.0	370	210,000	General Information
					11.5m patch located
OSV4	12.9	16.6	250	80,000	50m SE of southern
					most dolphin
OSV5	17.6	17.0	280	106,000	See General Information
OSV6	10.3	7.6	116	13,000	
OSV7	10.1	7.6	110	12,000	
OSV8	17.0	17.0	280	210,000	See General Information
OSV9	17.0	11.1	145	19,500	
OSV10	11.7	10.0	145	19,500	

#### **GENERAL INFORMATION**

- 1. No berthing of vessels above the maximum displacement.
- 2. Berthing of VLCC to be carried out only during daylight and on slack tide.

#### 3. OSV3

A 12.0m patch is located 14m off the northernmost mooring dolphin. An additional tug may be considered when berthing deep draft vessels.

#### 4. OSV5

- a) The tidal predictions are based on Main Strait off Shell SBM Buoy Tidal Predictions.
- b) Vessels should keep clear of the SBM mooring area (SBM buoy and floating hoses).

#### 5. OSV8

- a) Shallow waters of depths 11.1m lie 100m west of the transit of W. Jambi Beacon and the yellow dolphin marker at the western end of berth 9.
- b) For berthing on a flood, it is recommended to turn and stem the flood tide off OSV5 first then followed by backing in to berth at OSV8

Note: Anchoring in the area is prohibited due to the Shell SBM pipeline.

#### 6. OSV6 and 7

- a) Generally during the beginning of the flood stream at Main Strait off Shell SBM Buoy, the tidal stream at jetty flows in a 345°T direction.
- b) A counter tidal stream occurs and flows in the opposite direction (-165°T) at around the time of the maximum flood prediction at Main Strait off Shell SBM Buoy.
- c) The tidal stream would continue in the direction of 165°T till the time of the

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maximum (Main Strait – off Shell SBM Buoy Prediction) when it would reverse its direction and flow in a direction of  $345^{\circ}$ T right through the next flood.

d) The recommended approach to and from the jetty is via the channel south of Sebarok Beacon.

### 7. Pilot walkie talkie channel - 05

Terminal	OSV2-8(Vopak)	+65-9127 3169;	+65-9126-7210
contact	OSV2(SPC)	+65-6272 0611	
number	OSV2(Clean sea)	+65-9828 0538	

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## **PILOTAGE GUIDELINES**

# 1. BERTHING (DAY)

## a) Flood Tide

(i)	OSV3, 4, 6, 7, 9 & 10	No restriction	
	OSV5		
/;;\	LOA <u>&lt;</u> 210m	No restriction	
(ii)	LOA >210 to 260m	Tidal strength ≤2.0 kt	
	LOA >260m	Tidal strength ≤1.0kt	
	OSV8		
	LOA <u>&lt;</u> 210m	No restriction	
(iii)	LOA >210 to 260m	Tidal strength ≤1.5 kt	
(111)	LOA >210 to 20011	Tidal strength >1.5 to 2.0kt1	
	LOA >260m	Tidal strength ≤1.0kt	
	LOA >200111	Tidal strength >1.0 to 1.5kt <sup>2</sup>	

# b) Ebb Tide

	OSV3, 4, 6, 7, 9 & 10		
(i)	When no counter current exists	No restriction	
	When counter current exists	Vessel's displ to be ≤40,000GT	
(ii)	<u>OSV5</u>	No restriction	
	OSV8		
	LOA <u>&lt;</u> 210m	No restriction	
(iii)	LOA >210 to 260m	Tidal strength ≤2.0kt	
	LOA >260m	Tidal strength ≤1.0kt	
	LOA >20011	Tidal strength >1.0 to 1.5kt <sup>3</sup>	

<sup>&</sup>lt;sup>1</sup> Flood - Vessel with draft >11.6 metres - 3 big tugs

<sup>&</sup>lt;sup>2</sup> Flood - Vessel with draft >11.6 metres - 3 big tugs

<sup>&</sup>lt;sup>3</sup> Ebb - Vessel with draft >11.6 metres - 3 big tugs with at least 45 tonnes bollard pull Revised: 24 April 2020 3

## 2. UNBERTHING (DAY)

### a) Flood Tide

(i)	OSV3, 4, 6 ,7, 9 & 10	No restriction		
	<u>OSV 5</u>			
	Stbd side a/s:			
	LOA <u>&lt;</u> 210m	No restriction		
/ii\	LOA >210 to 260m draft ≤11.6m	Tidal strength <u>&lt;</u> 1.5kt		
(ii)	LOA >210m to 260m draft >11.6m	Tidal strength ≤1.0kt		
	LOA >260m	Tidal strength <0.5kt		
	Port side a/s	No restriction		
	OSV8 Stbd side a/s: LOA <210m	No restriction		
(iii)	LOA >210 to 260m	Tidal strength ≤1.5kt		
(111)	LOA >210 to 20011	Tidal strength >1.5 to 2.0kt <sup>4</sup>		
	LOA >260m	Tidal strength ≤0.5kt		
	LOA /200111	Tidal strength >0.5 to 1.0kt <sup>5</sup>		

### b) Ebb Tide

(i)	OSV3, 4, 6, 7, 9 & 10	No restriction	
	<u>OSV 5</u>		
	Stbd side a/s	No restriction	
	Port side a/s		
(ii)	LOA <u>&lt;</u> 210m	No restriction	
	LOA >210 to 260m draft ≤11.6m	Tidal strength ≤1.5kt	
	LOA >210 to 260m draft >11.6m	Tidal strength ≤1.0kt	
	LOA >260m	Tidal strength ≤0.5kt	
	OSV 8		
	Stbd side a/s	No restriction	
	Port side a/s: LOA <210m	No restriction	
(iii)	LOA >210 to 260m	Tidal strength ≤1.5kt	
	LOA >210 to 200111	Tidal strength >1.5 to 2.0kt <sup>6</sup>	
	LOA >260m	Tidal strength <0.5kt	
	LOA /20011	Tidal strength >0.5 to 1.0kt <sup>7</sup>	

<sup>&</sup>lt;sup>4</sup> Flood - Vessel with draft >11.6 metres - 3 big tugs

<sup>&</sup>lt;sup>5</sup> Flood - Vessel with draft >11.6 metres - 3 big tugs

<sup>&</sup>lt;sup>6</sup> Ebb - Vessel with draft >11.6 metres - 3 big tugs with at least 45 tonnes bollard pull

<sup>&</sup>lt;sup>7</sup> Ebb - Vessel with draft >11.6 metres - 3 big tugs with at least 45 tonnes bollard pull Revised: 24 April 2020 4

## **BERTHING (NIGHT)**

## a) Flood Tide

	OSV3 & 4		
(i)	Tidal strength ≤1.0 kt	No restriction	
	Tidal strength >1.0 kt	Vessel's displ. to be ≤50,000 GT	
	OSV5		
(ii)	LOA <u>&lt;</u> 210m	No restriction	
(ii)	LOA >210 to 260m	Tidal strength ≤2.0 kt	
	LOA >260m	Tidal strength ≤1.0kt	
(iii)	OSV6, 7 ,9 & 10	No restriction	
	OSV8		
	LOA <u>&lt;</u> 210m	No restriction	
(i. a)	LOA >210 to 260m	Tidal strength ≤1.5 kt	
(iv)	LOA >210 to 20011	Tidal strength >1.5 to 2.0kt <sup>8</sup>	
	LOA >260m	Tidal strength ≤1.0kt	
	LOA >20011	Tidal strength >1.0 to 1.5kt <sup>9</sup>	

# b) Ebb Tide

	OSV3 & 4		
(i)	When no counter current exists	No restriction	
	When counter current exists	Vessel's displ. to be ≤40,000GT	
(ii)	OSV5, 6, 7, 9 & 10	No restriction	
/iii\	OSV8	No restriction	
(iii)	LOA <u>&lt;</u> 210m	NO restriction	
	LOA >210 to 260m	Tidal strength ≤2.0kt	
(iv)	LOA >260m	Tidal strength ≤1.0kt	
		Tidal strength >1.0 to 1.5kt <sup>10</sup>	

<sup>&</sup>lt;sup>8</sup> Flood - Vessel with draft >11.6 metres - 3 big tugs

<sup>&</sup>lt;sup>9</sup> Flood - Vessel with draft >11.6 metres - 3 big tugs

 $<sup>^{10}</sup>$  Ebb - Vessel with draft >11.6 metres - 3 big tugs with at least 45 tonnes bollard pull Revised: 24 April 2020 5

## 3. UNBERTHING (NIGHT)

### a) Flood Tide

(i)	OSV3, 4, 6, 7, 9 & 10	No restriction	
	OSV5		
	Stbd side a/s: LOA ≤210m	No restriction	
(ii)	LOA >210 to 260m draft ≤11.6m	Tidal strength ≤1.5kt	
	LOA >210m to 260m draft >11.6m	Tidal strength ≤1.0kt	
	LOA >260m	Tidal strength ≤0.5kt	
	OSV8	No restriction	
	Stbd side a/s: LOA ≤210m		
(iii)	LOA >210 to 260m	Tidal strength <u>&lt;</u> 1.5kt	
(111)	LOA 2210 to 200111	Tidal strength >1.5 to 2.0kt11	
	LOA >260m	Tidal strength ≤0.5kt	
	LOA /200111	Tidal strength >0.5 to 1.0kt <sup>12</sup>	

### b) Ebb Tide

(i)	OSV3, 4, 6, 7, 9 & 10	No restriction	
	OSV5 Stbd side a/s	No restriction	
/ii\	Port side a/s: LOA <210m	No restriction	
(ii)	LOA >210 to 260m draft ≤11.6m	Tidal strength ≤1.5kt	
	LOA >210m to 260m draft >11.6m	Tidal strength ≤1.0kt	
	LOA >260m	Tidal strength ≤0.5kt	
/:::\	OSV8	No restriction	
(iii)	Stbd side a/s		
	Port side a/s: LOA <210m	No restriction	
	LOA >210 to 260m	Tidal strength ≤1.5kt	
	LOA >210 to 200111	Tidal strength >1.5 to 2.0kt <sup>13</sup>	
	LOA >260m	Tidal strength ≤0.5kt	
		Tidal strength >0.5 to 1.0kt <sup>14</sup>	

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<sup>&</sup>lt;sup>11</sup> Flood - Vessel with draft >11.6 metres - 3 big tugs

<sup>&</sup>lt;sup>12</sup> Flood - Vessel with draft >11.6 metres - 3 big tugs

 $<sup>^{13}</sup>$  Ebb - Vessel with draft >11.6 metres - 3 big tugs with at least 45 tonnes bollard pull

Ebb - Vessel with draft >11.6 metres - 3 big tugs with at least 45 tonnes bollard pull
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### **TUG ASSIGNMENT GUIDELINES**

The following guidelines are for assigning tugs to vessels berthing and unberthing at jetties at **OSV2** to **OSV9**:

LENGTH OVERALL OF VESSEL (LOA)	NUMBER OF TUGS	REMARKS
Up to 70 metres	Pilot, in consultation with the master, may order a tug from the tug company nominated by the ship's agent	
71 to 122 metres	1 small tug	A veget equipped with a
123 to 152 metres	Z Small tugs	A vessel equipped with a suitable bow/stern thruster(s),
153 to 180 metres	2 medium tuas	in good working condition, may
181 to 220 metres	2 hig tilge*	dispense with the need for a
221 to 280 metres	2 hia tuae*	tug in that position.
281 metres and above	4 big tugs	

<sup>\*</sup> Pilot, in consultation with the master, may order an additional tug from the tug company nominated by the ship's agent

The following guidelines are for assigning tugs to vessels berthing and unberthing at jetty **OSV10**:

LENGTH OVERALL OF VESSEL (LoA)	NUMBER OF TUGS	REMARKS
Up to 70 metres	1 small tug	Pilot, in consultation with the master, may order a additional tug from the tug company nominated by the ship's agent during strong ebb stream
71 metres and above	2 small tugs	A vessel equipped with a suitable bow/stern thruster(s), in good working condition, may dispense with the need for a tug in that position.

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