JURONG ISLAND - SAKRA BASIN
PETROCHEMICAL CORPORATION OF SINGAPORE (OPCS)

<table>
<thead>
<tr>
<th>JETTY</th>
<th>DEPTH A/S (m)</th>
<th>APPROACH DEPTH (m)</th>
<th>MAX LOA (m)</th>
<th>MAX. DISPL. (tons)</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPCS1</td>
<td>1.5</td>
<td>2.5</td>
<td>41</td>
<td></td>
<td>Barge Pier.</td>
</tr>
<tr>
<td>OPCBA</td>
<td>3.0</td>
<td>3.0</td>
<td>100</td>
<td>8,000</td>
<td>Barge Pier. No night movement.</td>
</tr>
<tr>
<td>OPCS3</td>
<td>10.0</td>
<td>10.0</td>
<td>130</td>
<td></td>
<td>PCs shall ensure 60m overall clearance between vessels for daylight operations and 100m overall clearance for night operations.</td>
</tr>
<tr>
<td>OPCS4</td>
<td>11.8</td>
<td>12.0</td>
<td>140</td>
<td>14,000</td>
<td></td>
</tr>
<tr>
<td>OPCS5</td>
<td>11.9</td>
<td>11.9</td>
<td>140</td>
<td>45,760</td>
<td></td>
</tr>
<tr>
<td>OPCS6</td>
<td>14.2</td>
<td>14.2</td>
<td>259</td>
<td>145,000</td>
<td></td>
</tr>
</tbody>
</table>

GENERAL INFORMATION

1. No berthing if wind speed > 20 knots.
2. No movement above maximum displacement.
3. Please note the existence of submarine gas pipelines located in close proximity of OPCS6.
4. Vessel’s operator, master or person-in-charge, and pilot must immediately contact Port Operations Control Centre if their vessel causes, or is suspected to have caused, any damage to a submarine cable or pipeline or tunnel. Offenders whose vessels damage submarine cables, pipelines and tunnels may be prosecuted.
5. Tug requirements (for berthing/unberthing):
   - Day/Night: 1 tug for LPG Carriers and Chemical Carriers of LOA < 100m.
   - 2 tugs for LPG Carriers and Chemical Carriers of LOA > 100m and other types of vessels LOA > 122m.
6. The maximum LOA for vessels berthing at jetty 5 is 140m. This is due to piles supporting the dolphins are inclined and protruding towards the line of jetties.
7. Pilot Walkie-Talkie Channel: P03
PILOTAGE GUIDELINES

1. BERTHING / UNBERTHING (DAY)

a. OPCS1, OPCS3, OPCS4, OPCS5 and OPCBA

   No restriction.

b. OPCS6

Flood Tide

Tidal strength < 2.0 knots (Sinki Fairway – BANYAN Prediction)
   - No restriction.

Tidal strength > 2.0 knots (Sinki Fairway – BANYAN Prediction)
   - No berthing/unberthing.

Ebb Tide (Berthing)

Tidal strength < 0.5 knots (Sinki Fairway – BANYAN Prediction)
   - No restriction.

Tidal strength > 0.5 to 1.5 knots (Sinki Fairway – BANYAN Prediction)
   - LOA ≤ 122m.

Tidal strength > 1.5 knots (Sinki Fairway – BANYAN Prediction)
   - No berthing.

Ebb Tide (Unberthing)

Starboard A/S

Tidal strength > 1.0 knots (Sinki Fairway – BANYAN Prediction) and Draft > 12m
   - No unberthing.

Tidal strength > 2.0 knots (Sinki Fairway – BANYAN Prediction)
   - No unberthing.

Port A/S

Tidal strength < 0.5 knots (Sinki Fairway – BANYAN Prediction)
   - No restriction.

Tidal strength > 0.5 to 1.5 knots (Sinki Fairway – BANYAN Prediction)
   - LOA ≤ 122m.

Tidal strength > 1.5 knots (Sinki Fairway – BANYAN Prediction)
   - No unberthing.
2. **BERTHING / UNBERTHING (NIGHT)**

   **a. OPCS1 and OPCBA**
   
   No night movement.

   **b. OPCS3 to OPCS5**
   
   \[
   \begin{align*}
   &\text{i) } \text{LOA} \leq 122\text{m} & & \text{No restriction.} \\
   &\text{ii) } \text{LOA} > 122\text{m} & & \text{No berthing/unberthing.}
   \end{align*}
   \]

   **c. OPCS6**

   **Flood Tide**

   Tidal strength \(<2.0\) knots (Sinki Fairway – BANYAN Prediction)
   - No restriction.

   Tidal strength \(>2.0\) knots (Sinki Fairway – BANYAN Prediction)
   - No berthing/unberthing.

   **Ebb Tide (Berthing)**

   Tidal strength \(<0.5\) knots (Sinki Fairway – BANYAN Prediction)
   - No restriction.

   Tidal strength \(>0.5\) to \(1.5\) knots (Sinki Fairway – BANYAN Prediction)
   - \(\text{LOA} \leq 122\text{m}\).

   Tidal strength \(>1.5\) knots (Sinki Fairway – BANYAN Prediction)
   - No berthing.

   **Ebb Tide (Unberthing)**

   **Starboard A/S**

   Tidal strength \(<1.0\) knots (Sinki Fairway – BANYAN Prediction) and Draft \(>12\)m
   - No unberthing.

   Tidal strength \(>1.0\) knots (Sinki Fairway – BANYAN Prediction)
   - No unberthing.

   **Port A/S**

   Tidal strength \(<0.5\) knots (Sinki Fairway – BANYAN Prediction)
   - No restriction.

   Tidal strength \(>0.5\) to \(1.5\) knots (Sinki Fairway – BANYAN Prediction)
   - \(\text{LOA} \leq 122\text{m}\).
Tidal strength >1.5 knots (Sinki Fairway – BANYAN Prediction)
- No unberthing.

TUGS ASSIGNMENT GUIDELINES

The following are guidelines for assigning tugs to vessels berthing & unberthing at Jetties 3 to 6

<table>
<thead>
<tr>
<th>LENGTH OVERALL OF VESSEL (LOA)</th>
<th>NUMBER OF TUGS</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 100 metres</td>
<td>1 small tug</td>
<td></td>
</tr>
<tr>
<td>101 to 152 metres</td>
<td>2 small tugs</td>
<td></td>
</tr>
<tr>
<td>153 to 180 metres</td>
<td>2 medium tugs</td>
<td></td>
</tr>
<tr>
<td>181 metres and above</td>
<td>2 big tugs</td>
<td></td>
</tr>
</tbody>
</table>

Note: A vessel equipped with a thruster is **NOT** dispensed with the need for a tug in that position.

CHARTLET

Chartlet for illustration purposes only, not to be used for navigation. For navigation, mariners are advised to use the appropriate BA nautical charts.