



Oil Companies International Marine Forum

MTIS Programme

Terminal TPQ

Terminal TPQ: REPSOL BUTANO ALCUDIA

ReportName cd3683aa-7f4f-47e1-875a-bc90306d796d

Terminal Name: REPSOL BUTANO ALCUDIA

Terminal Port: PUERTO DE ALCUDIA

**Terminal Port Authority: AUTORIDAD PORTUARIA DE
BALEARES**

Country: Spain

19 July 2017

1 General

| | | |
|-----|--|--------------------------|
| 1.1 | Date this TPQ document was completed/updated | 19 July 2017 |
| 1.2 | Specify units used | Metres and Metric Tonnes |

2 Port Details

| | | |
|-----|---|--|
| 2.1 | Port Name | PUERTO DE ALCUDIA |
| 2.2 | UN LOCODE | ESALK |
| 2.3 | Country | Spain |
| 2.4 | Latitude and Longitude of Port | |
| 1 | Latitude | 395006 North |
| 2 | Longitude | 0030818 East |
| 2.5 | Is this location affected by ice? | No |
| 2.6 | Name of port authority | AUTORIDAD PORTUARIA DE BALEARES |
| 2.7 | Port authority contact name and title | JOAN GILI MULET; RESPONSABLE DE OPERACIONES Y SERVICIOS PORTUARIOS |
| 2.8 | Port authority full style contact address | |
| 1 | Address Line 1 | Moll de Pescadors, S/N |
| 2 | Address Line 2 | N/A |
| 3 | Address Line 3 | N/A |
| 4 | City | Puerto de Alcudia(Mallorca) |
| 5 | County/State | Baleares/Spain |
| 6 | Postcode/Zipcode | 07410 |
| 7 | Phone | +34 971545076 |
| 8 | Fax | +34 971 549167 |
| 9 | Email | jgili@portsdebalears.com |
| 10 | Website | www.portsdebalears.com |

3 Terminal Details

| | | |
|-----|---|--|
| 3.1 | Terminal name | REPSOL BUTANO ALCUDIA |
| 3.2 | Terminal owner | AUTORIDAD PORTUARIA DE BALEARS |
| 3.2 | Number of berths included in this TPQ | 1 |
| 3.3 | Name of first point of contact for terminal owner | JOAN GILI MULET ;RESPONSABLE DE OPERACIONES Y SERVICIOS PORTUARIOS |
| 3.4 | Terminal owner full style contact address | |
| 1 | Address Line 1 | Moll de Pescadors, S/N |
| 2 | Address Line 2 | N/A |
| 3 | Address Line 3 | N/A |
| 4 | City | Puerto de Alcudia(Mallorca) |
| 5 | County/State | Baleares/Spain |

| | | |
|-----|--|------------------------------|
| 6 | Postcode/Zipcode | 07410 |
| 7 | Phone | +34 971545076 |
| 8 | Fax | +34 971 549167 |
| 9 | Email | jgili@portsdebalears.com |
| 10 | Website | www.portsdebalears.com |
| 3.5 | Terminal operator, if different from owner | REPSOL BUTANO SA |
| 3.6 | Name of first point of contact for terminal operator | LUIS DAVID FERNANDEZ CHOCRON |
| 3.7 | Terminal operator full style contact address | |
| 1 | Address Line 1 | Crta. Aucanada, S/N |
| 2 | Address Line 2 | N/A |
| 3 | Address Line 3 | N/A |
| 4 | City | Alcudia(Mallorca) |
| 5 | County/State | Baleares/Spain |
| 6 | Postcode/Zipcode | 07400 |
| 7 | Phone | +34 971897200 |
| 8 | Fax | +34 971548155 |
| 9 | Email | lfernandezc@repsol.com |
| 10 | Website | www.repsol.com |

4 TPQ Accountability

| | | |
|-----|--|--|
| 4.1 | Name and title of person completing this TPQ | LUIS DAVID FERNANDEZ CHOCRON& JEFE DE FACTORIA |
| 4.2 | Full style contact details of person completing this TPQ | |
| 1 | Address Line 1 | Crta. Aucanada, S/N |
| 2 | Address Line 2 | N/A |
| 3 | Address Line 3 | N/A |
| 4 | City | Alcudia(Mallorca) |
| 5 | County/State | Baleares/Spain |
| 6 | Postcode/Zipcode | 07400 |
| 7 | Phone | +34 971897200 |
| 8 | Fax | +34 971548155 |
| 9 | Email | lfernandezc@repsol.com |

5 Port Facility Security Officer Details

| | | |
|-----|---|-------------------------|
| 5.1 | Does the port facility comply with the ISPS code? | |
| 1 | | Yes |
| 2 | Port Facility Security Officer contact name | JOSEP AUBAREDA FIGUERAS |
| 5.2 | Port Facility Security Officer full style contact details | |
| 1 | Address Line 1 | Moll de Pescadors, S/N |
| 2 | Address Line 2 | N/A |
| 3 | Address Line 3 | N/A |

| | | |
|---|------------------|---|
| 4 | City | Puerto de Alcudia(Mallorca) |
| 5 | County/State | Baleares/Spain |
| 6 | Postcode/Zipcode | 07410 |
| 7 | Phone | +34 971724749/+34 971712865/+34 665857350 |
| 8 | Fax | +34 971549167 |
| 9 | Email | ccontrol@portsdebalears.com / mespinosa@portsdebalears.com |

6 Operational Integrity Details

| | | |
|-----|--|---|
| 6.1 | State details of any pre-arrival/operational clearance formalities for vessels | Repsol Vetting clearance confirmation Port Authority clearance required Pre-arrival information Repsol Butano Alcudia |
| 6.2 | Has the terminal completed an assessment using the standard industry process? | |
| 1 | | No |
| 2 | If 'Yes', state date completed | |
| 6.3 | Additional comments or information | None. |



Oil Companies International Marine Forum

MTIS Programme

Berth TPQ

Berth TPQ: PANTALAN DE REPSOL BUTANO

ReportName 628e1fdb-8f7d-4163-a92e-9c0bab93b2de

Terminal Name: REPSOL BUTANO ALCUDIA

Terminal Port: PUERTO DE ALCUDIA

**Terminal Port Authority: AUTORIDAD PORTUARIA DE
BALEARES**

Country: Spain

Berth Name: PANTALAN DE REPSOL BUTANO

19 July 2017

1 Berth General

| | | |
|-----|---|---------------------------|
| 1.1 | Berth name or number | PANTALAN DE REPSOL BUTANO |
| 1.2 | Berth type | |
| 1 | | Jetty - 'T' finger |
| 2 | If 'Other' please specify | |
| 1.3 | Terrestrial co-ordinates of manifold centreline | |
| 1 | Latitude | 395006 North |
| 2 | Longitude | 0030817 East |
| 1.4 | Berth users for liquid and gas cargoes | REPSOL BUTANO SA |
| 1.5 | Has a structural survey of the berth been undertaken, including its underwater structure? | |
| 1 | | No |
| 2 | If 'Yes', state date of last survey | |
| 1.6 | Has an engineering (mooring and fendering) analysis of berth been undertaken? | |
| 1 | | No |
| 2 | If 'Yes', state date of last analysis | |
| 1.7 | Additional comments or information | None. |

2 Berth Approaches

| | | |
|-----|--|---|
| 2.1 | Is pilotage compulsory? | |
| 1 | | Yes |
| 2 | If 'Yes', state if any vessels are exempted | No vessels exempted |
| 2.2 | State distance from pilot station(s) to berth | 504 Metres |
| 2.3 | Is a waiting anchorage available? | |
| 1 | | Yes |
| 3 | If 'Yes', state distance from waiting anchorage to berth | 1880 Metres |
| 2.4 | Controlling depth of water for transit to and from berth | |
| 1 | Water depth | 8.00 Metres |
| 2 | State datum used | Chart Datum (CD) |
| 3 | If 'Other' please specify datum | |
| 2.5 | Date of latest survey from which transit depth has been determined | 01 December 2002 |
| 2.6 | Date next survey is due | 01 January 2099 |
| 2.7 | State Maximum Tidal Range in berth approaches | 0.40 |
| 2.8 | Is laden transit to and/or from the berth conducted using the tide? | |
| 1 | | No |
| 2 | If 'Yes', state optimum transit window (i.e. at High Water, HW +/- 1 hr) | |
| 2.9 | State details of any specific berthing and/or unberthing restrictions | Night time berthing no permitted and unberthing at night permitted. |

| | | |
|----------|---|--|
| 2.10 | Minimum under keel clearance (UKC) in berth approaches | |
| 1 | Value | 0.90 Meters |
| 2 | Percentage | 16.00 Vessel static draft |
| 3 | Specify other UKC criterion where applicable | None |
| 2.11 | Absolute maximum draught in berth approaches, if applicable | 5.20 |
| 2.12 | State minimum vertical clearance of any bridges/power cables/vertical obstructions | |
| 1 | Vertical clearance | 999.00 Metres |
| 2 | State datum used | Other (Specify) |
| 3 | If 'Other' specify other datum used | NO RESTRICTIONS. |
| 4 | Further details | Figure of 999 m. used as no possibility to select Not Applicable. There are no bridges or cables under which to transit and consequently no air draft limitations. |
| 2.13 | Does the port require tankers and gas carriers to be escorted by tugs? | |
| 1 | | Yes |
| 2 | If 'Yes', state whether Active or Passive escort is employed and the maximum towline force that the tug is able to generate | Passive escort is employed. Usually no towline required. Maximum pulling force 24 tons. |
| 2.14 | Additional comments or information | None |
| 3 | Water Depth Alongside | |
| 3.1 | Minimum controlled water depth alongside berth at chart datum | |
| 1 | Water depth | 6.10 Metres |
| 2 | State datum used | Chart Datum (CD) |
| 3 | If 'Other' specify datum | |
| 3.2 | Date of latest survey from which alongside depth has been determined | 30 June 2016 |
| 3.3 | Date next survey is due | 01 January 2025 |
| 3.4 | Minimum static under keel clearance (UKC) alongside berth | |
| 1 | Value | 0.90 Meters |
| 2 | Percentage | 16.00 Vessel static draft |
| 3 | Specify other UKC criterion where applicable | None |
| 3.5 | State range of water densities at berth | |
| 1 | From | 1026.00 |
| 2 | To | 1026.00 |
| 3 | Further details | None |
| 3.6 | Type of bottom alongside berth | |
| 1 | | Sand |
| 2 | If 'Other' please specify | |
| 3.7 | Absolute maximum draft alongside, if applicable | 5.20 |
| 3.8 | State maximum tidal range at berth, if applicable | 0.40 |

| | | |
|------|---|------|
| 3.9 | Are 'over-the-tide' cargo handling operations permitted at the berth? | No |
| 3.10 | Does the berth location experience water-level anomalies? | |
| 1 | | No |
| 2 | Provide details | |
| 3.11 | Additional comments or information | None |

4 Limiting Vessel Dimensions

| | | |
|-----|--|--------------------|
| 4.1 | Summer deadweight | |
| 1 | TPQ NA Selector | No restrictions |
| 2 | Minimum | 0.00 Metric Tonnes |
| 3 | Maximum | 0.00 Metric Tonnes |
| 4.2 | Berthing displacement | |
| 1 | TPQ NA Selector | No restrictions |
| 2 | Minimum | 0.00 Metric Tonnes |
| 3 | Maximum | 0.00 Metric Tonnes |
| 4.3 | Alongside displacement | |
| 1 | TPQ NA Selector | No restrictions |
| 2 | Minimum | 0.00 Metric Tonnes |
| 3 | Maximum | 0.00 Metric Tonnes |
| 4.4 | State any deadweight/displacement exceptions | |
| 1 | TPQ NA Selector | No restrictions |
| 2 | | No exceptions |
| 4.5 | Cubic capacity (gas carriers) | |
| 1 | TPQ NA Selector | No restrictions |
| 2 | Minimum | 0.00 Cubic metres |
| 3 | Maximum | 0.00 Cubic metres |
| 4.6 | Length over all (LOA) | |
| 1 | TPQ NA Selector | Applicable |
| 2 | Minimum | 60.00 Metres |
| 3 | Maximum | 120.00 Metres |
| 4.7 | Beam | |
| 1 | TPQ NA Selector | No restrictions |
| 2 | Minimum | 0.00 Metres |
| 3 | Maximum | 0.00 Metres |
| 4.8 | Minimum parallel body length (PBL) | |
| 1 | TPQ NA Selector | Applicable |
| 2 | | 60.00 |
| 4.9 | Minimum PBL forward of manifold | |
| 1 | TPQ NA Selector | Applicable |

| | | | |
|------|--|--|-------------------------------|
| | 2 | | 30.00 |
| 4.10 | Minimum PBL aft of manifold | | |
| | 1 | TPQ NA Selector | Applicable |
| | 2 | | 30.00 |
| 4.11 | Bow to centre of manifold (BCM) | | |
| | 1 | TPQ NA Selector | No restrictions |
| | 2 | Minimum | 0.00 Metres |
| | 3 | Maximum | 0.00 Metres |
| 4.12 | Stern to centre of manifold (SCM) | | |
| | 1 | TPQ NA Selector | No restrictions |
| | 2 | Minimum | 0.00 Metres |
| | 3 | Maximum | 0.00 Metres |
| 4.13 | Freeboard | | |
| | 1 | TPQ NA Selector | No restrictions |
| | 2 | Minimum | 0.00 Metres |
| | 3 | Maximum | 0.00 Metres |
| 4.14 | Manifold height above water | | |
| | 1 | TPQ NA Selector | No restrictions |
| | 2 | Minimum | 0.00 Metres |
| | 3 | Maximum | 0.00 Metres |
| 4.15 | Manifold to shipside rail distance | | |
| | 1 | TPQ NA Selector | No restrictions |
| | 2 | Minimum | 0.00 Metres |
| | 3 | Maximum | 0.00 Metres |
| 4.16 | Height of manifold above deck or drip tray | | |
| | 1 | TPQ NA Selector | No restrictions |
| | 2 | Minimum | 0.00 Metres |
| | 3 | Maximum | 0.00 Metres |
| | 4 | Specify whether height is from the deck or the drip tray | No restriction. As per OCIMF. |
| 4.17 | Manifold spacing | | |
| | 1 | TPQ NA Selector | No restrictions |
| | 2 | Minimum | 0.00 Metres |
| | 3 | Maximum | 0.00 Metres |
| 4.18 | Maximum air draft alongside | | |
| | 1 | TPQ NA Selector | Not applicable |
| | 2 | | 0.00 |
| 4.19 | Vessel's minimum derrick/crane Safe Working Load (SWL) | | |
| | 1 | TPQ NA Selector | Applicable |
| | 2 | | 2.00 Metric Tonnes |
| 4.20 | Additional comments or information | | None |

5 Mooring and Berthing Information

| | | |
|------|--|--|
| 5.1 | State availability and specifications of tugs and mooring craft required for berthing and/or unberthing. | Two mooring boats whit 250 hp engines One tugboat of 27.17 meters LOA, 2400 hp, 24 tons bollard pull. One tugboat always required. |
| 5.2 | Are ship's or tug's lines used? | |
| 1 | Ship/Tug | Not required |
| 2 | Comments | In case towing line required this line can be provided either by the ship or by the tugboat depending on agreement by the parts. |
| 5.3 | Type of fenders installed at berth | |
| 1 | | Other |
| 2 | If 'Other' please specify | Cylinder marine Rubber Fender |
| 5.4 | State orientation of vessel alongside berth | Either Port & Starboard Side To |
| 5.5 | At buoy moorings, state which side hose is normally connected | |
| 1 | | Not applicable |
| 2 | If 'Other' please specify | No buoy moorings |
| 5.6 | Minimum mooring arrangement | Two headlines, two spring lines forward and two sternlines and two spring lines aft. |
| 5.7 | Describe any additional mooring requirements | None |
| 5.8 | Are there any restrictions using wire mooring ropes? | |
| 1 | | Yes |
| 2 | If 'yes', provide details of restrictions in wire moorings as part of the mooring pattern | Not accepted by mooring gang. |
| 5.9 | Are there any restrictions using synthetic mooring ropes? | |
| 1 | | No |
| 2 | If 'yes'; provide details of restrictions in synthetic mooring ropes as part of the mooring pattern | They should be in good condition |
| 5.10 | Are there any restrictions on using high modulus synthetic mooring ropes? | |
| 1 | | No |
| 2 | If 'yes' provide details | They should be in good condition. |
| 5.11 | Details of any specific mooring equipment required for any vessel utilising the berth | None |
| 5.12 | Does the terminal require the vessel to rig Emergency Towing Off Pennants (ETOPs) while at the berth? | |
| 1 | | Yes |
| 2 | If 'Yes', provide details of particular requirements regarding ETOPs. | Secured on board and hanging between 1 and 2 meters above sea water level. According Flag Administratrion procedures BOE 145/89 |
| 5.13 | Details of any shore-provided mooring equipment | None |
| 5.14 | Are berthing aids provided? | |
| 1 | | No |

| | | |
|----------|---|---|
| 2 | If 'Yes', state type of aids | |
| 5.15 | State allowable speed of approach if applicable | |
| 1 | | Max. speed allowed 0.8 m/s |
| 1 | | 1.60 Knots |
| 5.16 | Is a mooring tension monitor fitted? | No |
| 5.17 | Are mooring hook quick release arrangements provided? | No |
| 5.18 | Chain stopper requirements | |
| 1 | Applicable | No |
| 2 | | Not an SBM |
| 5.19 | Largest ship handled at berth to date | CELANOVA IMO 9268394 |
| 5.20 | Additional comments or information | None |
| 6 | Berth Equipment and Facilities | |
| 6.1 | Number, type and size of cargo transfer connections | Flexible hose of 4" ASA/ANSI 300 |
| 6.2 | List grades handled at berth | Commercial LPG |
| 2 | State specific grades handled at berth (e.g. Ekofisk crude oil, Unleaded Gasoline, Jet A1). | Butane and Propane |
| 6.3 | State transfer rate restrictions and back pressure for each cargo grade | Max. Back Pressure Propane 7,5 Kg/cm ² . Max. Back Pressure Butane 5 Kg/cm ² . Max. Discharging rate for both grades 160 ton/h. Only one cargo line for both grades. |
| 6.4 | Are transfer connections fitted with insulation flanges? | |
| 1 | | Yes |
| 2 | Provide details | Only one cargo line. Insulation gasket provided between buried pipeline and aboveground pipeline. |
| 6.5 | State storage type for LPG | Semi-Pressurised |
| 6.6 | Describe any terminal-specific requirements for vessel manifolds | None |
| 6.7 | Is berth fitted with a vapour manifold connection? | |
| 1 | | No |
| 2 | If 'Yes' state type and size of vapour connection | |
| 3 | State cargo types for which it is required to use vapour connection (if applicable) | |
| 6.8 | State throughput rate(s) of vapour recovery system | Vapor connection provided but not used for discharge operation. |
| 6.9 | Are Powered Emergency Release Couplings (PERCS) installed to the cargo transfer arms? | |
| 1 | | Yes |
| 2 | Supply details | Initiation by wire connection between manifold connection and ERC. Valve will close immediately. |

| | | |
|----------|---|---|
| 6.10 | Does the berth have an emergency shutdown (ESD) capability that can be activated by the ship? | |
| 1 | | No |
| 2 | If 'yes' provide details | |
| 6.11 | Describe access arrangements between ship and shore. | Ship gangway used. Ship provided safety net. |
| 6.12 | Does the berth have pollution response equipment? | |
| 1 | | Yes |
| 2 | If 'yes' provide details | Containment boom provided at adjacent berth, which belongs to port authority. Absorbent materials available for minor hydraulic leaks. |
| 6.13 | Additional comments or information | None |
| 7 | Berth Operations | |
| 7.1 | What is the primary and backup communication system between ship and terminal during cargo operations? | Walkytalky provided by terminal. |
| 7.2 | Is it required that terminal or shore representatives stay on board during operations? | |
| 1 | | No |
| 2 | If 'Yes', state requirements including number of persons and their roles | |
| 7.3 | Specify weather/environmental restrictions for stopping cargo operations, disconnecting hoses or arms and vacating the berth? | No defined environmental restrictions. |
| 7.4 | Are there any restrictions regarding tank cleaning/Crude Oil Washing (COW) operations at the berth? | |
| 1 | | No |
| 2 | If 'Yes' provide full details of these restrictions | |
| 7.5 | Are there any berth specific requirements regarding tanker inerting procedures? | |
| 1 | | No |
| 2 | If 'Yes', state requirements | |
| 7.6 | Is there a temperature limit for cargo handled? | |
| 1 | | Yes |
| 2 | If 'Yes', state temperature limits | T > 0°C |
| 7.7 | Is it permitted for vessels to undertake double-banked operations alongside the berth? | |
| 1 | | No |
| 2 | If 'Yes', state limiting criteria | |
| 7.8 | Is vessel required to pump water ashore or receive water on board for line clearance purposes? | |
| 1 | | No |
| 2 | If 'Yes', provide operational details | |
| 7.9 | Can the berth be used for Ship-to-Ship transfers using terminal facilities? | |
| 1 | | No |

| | | |
|------|--|---|
| 2 | Provide details | |
| 7.10 | State details regarding any environmental restrictions applicable at the berth | No cargo vapor emissions allowed. No heavy smoke from engine funnel allowed. |
| 7.11 | Are there any restrictions regarding Hydrogen Sulphide content in Cargo Tanks? | |
| 1 | | No |
| 2 | If 'Yes', state restriction | |
| 7.12 | Are there any restrictions regarding Mercaptan content in Cargo Tanks? | |
| 1 | | No |
| 2 | If 'Yes', state restriction | |
| 7.13 | Are there any restrictions on handling stores when a ship is moored alongside berth? | |
| 1 | | Yes |
| 2 | If 'Yes', state restriction | Not permitted |
| 7.14 | Additional comments or information | None |

8 Available Services

| | | |
|-----|---|---------------------|
| 8.1 | Are Fuel Oil bunkers available? | |
| 1 | | No |
| 2 | If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck) | |
| 8.2 | Are Diesel Oil bunkers available? | |
| 1 | | No |
| 2 | If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck) | |
| 8.3 | Are Intermediate Oil bunkers available? | |
| 1 | | No |
| 2 | If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck) | |
| 8.4 | Is fresh water available? | |
| 1 | | No |
| 2 | If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck) | |
| 8.5 | Are slop reception facilities available? | |
| 1 | | No |
| 2 | If 'Yes', state how received (e.g. Ex-Pipe, barge, truck) | |
| 3 | State capacity of slop reception facilities (if applicable) | Cubic metres |
| 4 | State any specific exclusions for slop receipts (e.g. chemicals, detergents, cleaning agents) | No store facilities |
| 8.6 | Are dirty ballast reception facilities available? | |
| 1 | | No |
| 2 | If 'Yes', state how received | |
| 3 | State capacity of dirty ballast reception facilities | |
| 8.7 | Are engine room sludge and bilge reception facilities available? | |
| 1 | | No |
| 2 | If 'Yes', state how received (e.g. Ex-pipe, barge, truck) | |

| | | |
|-----|--|---|
| 8.8 | Are garbage reception facilities available at the berth. | |
| 1 | | Yes |
| 2 | If 'Yes', provide details | Service provided by Serviport Balear, S.L.. No restrictions of quantity and received via berth in truck. |
| 8.9 | Additional comments or information | None |

9 Berth Low Temperature Impact

| | | |
|------|---|----|
| 9.1 | What is the typical range of temperatures the terminal operates in during a winter season? | |
| 9.2 | Which months of the year can ice be expected? | |
| 9.3 | Specify any terminal requirements for vessel Ice Class notation and winterisation capabilities | |
| 9.4 | State any limitations for cargo operations in sub-zero temperatures | |
| 9.5 | State the minimum allowable ambient temperature for safe cargo operations | |
| 9.6 | State the minimum temperature of cargoes handled | |
| 9.7 | State the minimum temperature for the emergency shut-down system to operate safely | |
| 9.8 | Does the terminal have its own resources for conducting icebreaker escort | |
| 1 | | No |
| 2 | If 'Yes' provide details and specify how they can be requested | |
| 9.9 | Are there icebreakers available to operate in the terminal area | |
| 1 | | No |
| 2 | Specify details (e.g. Name/IMO Nr/GRT/Power/Ice Class) | |
| 9.10 | Does the terminal have ice-capable tugs and support craft | |
| 1 | | |
| 2 | Specify details (e.g. Name/IMO Nr/GRT/Power/Ice Class) | |
| 9.11 | Does the terminal have specific requirements for the vessel speed and manoeuvrability characteristics in ice? | |
| 1 | | |
| 2 | If 'Yes', provide details | |
| 9.12 | Does the terminal provide its own ice navigator/advisor? | |
| 1 | | |
| 2 | If 'Yes', provide details of how the service may be requested | |
| 9.13 | Additional comments or information | |

10 Supplementary Information

| | | |
|------|--|------------------|
| 10.1 | Berth transparency | Piled jetty. |
| 10.2 | Specify datum used for height and depth measurements in this section | |
| 1 | | Chart Datum (CD) |
| 2 | If 'Other' please specify other | |

| | | |
|------|--------------------------|------|
| 10.3 | Berth height above datum | 8.40 |
|------|--------------------------|------|

| | | |
|------|---------------|------|
| 10.4 | Berth heading | 316° |
|------|---------------|------|

| | | |
|------|--|-------|
| 10.5 | Width of the channel adjacent to the berth | 50.00 |
|------|--|-------|

| | | | | | |
|------|--|-----------------------------|-----------------------------|------------|--------------|
| 10.6 | Position of mooring bollards and hooks | | | | |
| | Hook/Bollard ID Number and Type | 'x' dist to Fender Face (m) | 'y' dist to Target Line (m) | Height (m) | SWL (tonnes) |
| | Bollard 1 | 77.00 | 37.00 | 0.30 | 50.00 |
| | Bollard 2 | 30.00 | 1.50 | 0.30 | 50.00 |
| | Bollard 3 | 3.00 | 1.50 | 0.30 | 50.00 |
| | Bollard 4 | -3.00 | 1.50 | 0.30 | 50.00 |
| | Bollard 5 | -30.00 | 1.50 | 0.30 | 50.00 |
| | Bollard 6 | -70.00 | 8.00 | 0.30 | 50.00 |

| | | | | | |
|------|---------------------------|---------------------------------------|---|------------|--------------------------|
| 10.7 | Position of mooring buoys | | | | |
| | Mooring Buoy ID Number | 'x' Distance to Target Line F & A (m) | 'y' Distance to Target Line athwart (m) | Height (m) | Max. Allow Load (tonnes) |
| | n/A | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | |
|------|------------------|-----------------------------|--------------------------|------------------|-------------------|--------------------------|
| 10.8 | Fender Location | | | | | |
| | Fender ID Number | 'x' Dist to Target Line (m) | Elevation of Fenders (m) | Fender Width (m) | Fender Height (m) | Fender Contact Area (m2) |
| | Fender 1 | 30.00 | -1.40 | 3.00 | 1.20 | 0.80 |
| | Fender 2 | 0.00 | -1.40 | 3.00 | 1.20 | 0.80 |
| | Fender 3 | -30.00 | -1.40 | 3.00 | 1.20 | 0.80 |

| | | | | |
|------|----------------------|-----------|----------------------|---------------|
| 10.9 | Fender Reaction Data | | | |
| | Fender Id Number | Point No. | Compression (metres) | Load (tonnes) |
| | 1 | 1 | 0.80 | 157.40 |
| | 3 | 1 | 0.80 | 157.40 |
| | 2 | 1 | 0.80 | 157.40 |

| | | |
|-------|---------------------------------------|------|
| 10.10 | Fender friction coefficient (μ) | 0.20 |
|-------|---------------------------------------|------|

| | | | | | | |
|-------|--|--------------------------|--------------------------|---------------------|--------------------|---------------------|
| 10.11 | State identity and horizontal position of loading arms | | | | | |
| | Loading Arm/Shore Connection ID Number | Horizontal co-ordinate X | Horizontal co-ordinate Y | Max Excursion Surge | Max Excursion Sway | Max Excursion Heave |
| | NO LOADING ARMS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | |
|-------|------------------------------------|---------------|---------------|---------------------|--------------------|---------------------|
| 10.12 | State loading arm operating limits | | | | | |
| | Loading Arm ID Number | Max Op Height | Min Op Height | Max Excursion Surge | Max Excursion Sway | Max Excursion Heave |

| | | | | | |
|---------|------|------|------|------|------|
| NO HARD | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ARM BUT | | | | | |
| HOSES | | | | | |

10.13 Additional comments or information

No hard arms. Operations using flexible cargo hoses.
No mooring buoys.