

Oil Companies International Marine Forum MTIS Programme

Terminal TPQ

Terminal TPQ: PANTALÁN DE REPSOL TARRAGONA

ReportName 96964e90-0253-44f6-b002-c9cc18bce967

Terminal Name: PANTALÁN DE REPSOL TARRAGONA

Terminal Port: PANTALÁN DE REPSOL PETRÓLEO TARRAGONA
Terminal Port Authority: PORT AUTHORITY OF TARRAGONA

Country: SPAIN

County/State

1	General	
1.1	Date this TPQ document was completed/updated	10 May 2014
1.2	Specify units used	Metres and Metric Tonnes
2	Port Details	
2.1	Port Name	PANTALÁN DE REPSOL PETRÓLEO TARRAGONA
2.2	UN LOCODE	ESTAR
2.3	Country	Spain
2.4 1 2	Latitude and Longitude of Port Latitude Longitude	410528 North 0011149 East
2.5	Is this location affected by ice?	No
2.6	Name of port authority	PORT AUTHORITY OF TARRAGONA
2.7	Port authority contact name and title	TARRAGONA PORT CONTROL
2.8 1 2 3 4 5 6 7 8 9	Port authority full style contact address Address Line 1 Address Line 2 Address Line 3 City County/State Postcode/Zipcode Phone Fax Email Website	PASSEIG DE L'ESCULLERA S/N N/A N/A TARRAGONA SPAIN 43004 (34) 977 52 79 34 N/A sac@porttarragona.cat www.porttarragona.cat
3	Terminal Details	
3.1	Terminal name	PANTALÁN DE REPSOL TARRAGONA
3.2	Terminal owner	REPSOL
3.2	Number of berths included in this TPQ	6
3.3	Name of first point of contact for terminal owner	EL QUIEBRO BUILDING
3.4 1 2 3 4	Terminal owner full style contact address Address Line 1 Address Line 2 Address Line 3 City	C/ CARRETERA DE LA PINEDA S/N N/A N/A TARRAGONA

SPAIN

_			c9cc18bce967
	6	Postcode/Zipcode	43080
	7	Phone	977559801 / 977559811
	8	Fax	977559807
	9	Email	RPTINSMARINAS@REPSOL.COM
	10	Website	WWW.REPSOL.COM
3.5		Terminal operator, if different from owner	NOT APPLICABLE
3.6		Name of first point of contact for terminal operator	JORDI MAS RUBIO
3.7		Terminal operator full style contact address	
	1	Address Line 1	C/ CARRETERA DE LA PINEDA S/N
	2	Address Line 2	N/A
	3	Address Line 3	N/A
	4	City	TARRAGONA
	5	County/State	SPAIN
	6	Postcode/Zipcode	APARTADO (P.O. BOX) 472 – 43080 TARRAGONA
	7	Phone	977559811
	8	Fax	977559807
	9	Email	RPTINSMARINAS@REPSOL.COM
	10	Website	WWW.REPSOL.COM
4		TPQ Accountability	
4.1		Name and title of person completing this TPQ	ARTURO DE LAS HERAS (LOADING MASTER)
4.1 4.2		Name and title of person completing this TPQ Full style contact details of person completing this TPQ	ARTURO DE LAS HERAS (LOADING MASTER)
	1		ARTURO DE LAS HERAS (LOADING MASTER) C/ CARRETERA DE LA PINEDA S/N
	1 2	Full style contact details of person completing this TPQ	
		Full style contact details of person completing this TPQ Address Line 1	C/ CARRETERA DE LA PINEDA S/N
	2	Full style contact details of person completing this TPQ Address Line 1 Address Line 2	C/ CARRETERA DE LA PINEDA S/N N/A
	2	Full style contact details of person completing this TPQ Address Line 1 Address Line 2 Address Line 3	C/ CARRETERA DE LA PINEDA S/N N/A N/A
	2 3 4	Full style contact details of person completing this TPQ Address Line 1 Address Line 2 Address Line 3 City	C/ CARRETERA DE LA PINEDA S/N N/A N/A TARRAGONA
	2 3 4 5	Full style contact details of person completing this TPQ Address Line 1 Address Line 2 Address Line 3 City County/State	C/ CARRETERA DE LA PINEDA S/N N/A N/A TARRAGONA SPAIN
	2 3 4 5 6	Full style contact details of person completing this TPQ Address Line 1 Address Line 2 Address Line 3 City County/State Postcode/Zipcode	C/ CARRETERA DE LA PINEDA S/N N/A N/A TARRAGONA SPAIN 43080
	2 3 4 5 6 7	Full style contact details of person completing this TPQ Address Line 1 Address Line 2 Address Line 3 City County/State Postcode/Zipcode Phone	C/ CARRETERA DE LA PINEDA S/N N/A N/A TARRAGONA SPAIN 43080 (34) 977559811
	2 3 4 5 6 7 8	Full style contact details of person completing this TPQ Address Line 1 Address Line 2 Address Line 3 City County/State Postcode/Zipcode Phone Fax	C/ CARRETERA DE LA PINEDA S/N N/A N/A TARRAGONA SPAIN 43080 (34) 977559811 N/A
4.2	2 3 4 5 6 7 8	Full style contact details of person completing this TPQ Address Line 1 Address Line 2 Address Line 3 City County/State Postcode/Zipcode Phone Fax Email	C/ CARRETERA DE LA PINEDA S/N N/A N/A TARRAGONA SPAIN 43080 (34) 977559811 N/A
4.2	2 3 4 5 6 7 8	Full style contact details of person completing this TPQ Address Line 1 Address Line 2 Address Line 3 City County/State Postcode/Zipcode Phone Fax Email Port Facility Security Officer Details	C/ CARRETERA DE LA PINEDA S/N N/A N/A TARRAGONA SPAIN 43080 (34) 977559811 N/A
4.2	2 3 4 5 6 7 8 9	Full style contact details of person completing this TPQ Address Line 1 Address Line 2 Address Line 3 City County/State Postcode/Zipcode Phone Fax Email Port Facility Security Officer Details	C/ CARRETERA DE LA PINEDA S/N N/A N/A TARRAGONA SPAIN 43080 (34) 977559811 N/A rptinsmarinas@repsol.com
4.2	2 3 4 5 6 7 8 9	Full style contact details of person completing this TPQ Address Line 1 Address Line 2 Address Line 3 City County/State Postcode/Zipcode Phone Fax Email Port Facility Security Officer Details Does the port facility comply with the ISPS code?	C/ CARRETERA DE LA PINEDA S/N N/A N/A TARRAGONA SPAIN 43080 (34) 977559811 N/A rptinsmarinas@repsol.com
4.255.1	2 3 4 5 6 7 8 9	Full style contact details of person completing this TPQ Address Line 1 Address Line 2 Address Line 3 City County/State Postcode/Zipcode Phone Fax Email Port Facility Security Officer Details Does the port facility comply with the ISPS code? Port Facillity Security Officer contact name	C/ CARRETERA DE LA PINEDA S/N N/A N/A TARRAGONA SPAIN 43080 (34) 977559811 N/A rptinsmarinas@repsol.com
4.255.1	2 3 4 5 6 7 8 9	Full style contact details of person completing this TPQ Address Line 1 Address Line 2 Address Line 3 City County/State Postcode/Zipcode Phone Fax Email Port Facility Security Officer Details Does the port facility comply with the ISPS code? Port Facility Security Officer contact name Port Facility Security Officer full style contact details	C/ CARRETERA DE LA PINEDA S/N N/A N/A TARRAGONA SPAIN 43080 (34) 977559811 N/A rptinsmarinas@repsol.com
4.255.1	2 3 4 5 6 7 8 9	Full style contact details of person completing this TPQ Address Line 1 Address Line 2 Address Line 3 City County/State Postcode/Zipcode Phone Fax Email Port Facility Security Officer Details Does the port facility comply with the ISPS code? Port Facility Security Officer contact name Port Facility Security Officer full style contact details Address Line 1	C/ CARRETERA DE LA PINEDA S/N N/A N/A TARRAGONA SPAIN 43080 (34) 977559811 N/A rptinsmarinas@repsol.com Yes JORDI MAS RUBIO C/ CARRETERA DE LA PINEDA S/N

Additional comments or information

6.3

TARRAGONA 4 City 5 County/State **SPAIN** 6 Postcode/Zipcode 43080 7 Phone (34) 977559801 8 Fax N/A 9 Email jmasr@repsol.com 6 **Operational Integrity Details** 6.1 State details of any pre-arrival/operational clearance formalities for vessels 1- PRIOR ARRIVAL ALL THE VESSELS MUST BE ACCEPTED BY REPSOL VETTING 2- ALL THE VESSELS MUST SEND PRIOR ARRIVAL THE ISPS DOCUMENTS 3- ALL THE VESSELS MUST SEND ETA 72, 48 AND 24 HOURS PRIOR ARRIVAL 6.2 Has the terminal completed an assessment using the standard industry process? 1 Yes 2 If 'Yes', state date completed 10 June 2010

N/A



Oil Companies International Marine Forum MTIS Programme Berth TPQ

Berth TPQ: 80T

ReportName 25b1210a-0c4f-47ef-81b1-0257cc84dfa3

Terminal Name: PANTALÁN DE REPSOL TARRAGONA

Terminal Port: PANTALÁN DE REPSOL PETRÓLEO TARRAGONA
Terminal Port Authority: PORT AUTHORITY OF TARRAGONA

Country: SPAIN

Berth Name: 80T

1 Berth General

1.1		Berth name or number	80T
1.2		Berth type	
	1		Jetty - 'T' finger
	2	If 'Other' please specify	
1.3		Terrestrial co-ordinates of manifold centreline	440502 N I
	1	Latitude Longitude	410502 North 0011237 East
1.4		Berth users for liquid and gas cargoes	REPSOL PETROLEO REPSOL QUIMICA DOW
1.5	1	Has a structural survey of the berth been undertaken, including its underwater structure?	Yes
	2	If 'Yes', state date of last survey	15 June 2009
1.6	1	Has an engineering (mooring and fendering) analysis of berth been undertaken?	Yes
	2	If 'Yes', state date of last analysis	15 June 2009
1.7		Additional comments or information	N/A
2		Berth Approaches	
2.1		Is pilotage compulsory?	
	1	If 'Yes', state if any vessels are exempted	Yes NO
2.2		State distance from pilot station(s) to berth	1.5 NM
2.3		Is a waiting anchorage available?	
	1		Yes
	3	If 'Yes', state distance from waiting anchorage to berth	3 NM
2.4		Controlling depth of water for transit to and from berth	
	1	Water depth	18.00 Metres
	2	State datum used If 'Other' please specify datum	Chart Datum (CD)
2.5		Date of latest survey from which transit depth has been determined	01 November 2008
2.6		Date next survey is due	15 January 2020
2.7		State Maximum Tidal Range in berth approaches	0.20
2.8		Is laden transit to and/or from the berth conducted using the tide?	
	1 2	If 'Yes', state optimum transit window (i.e. at High Water, HW +/- 1 hr)	No

2.9	State details of any specific berthing and/or unberthing restrictions	WEATHER RESTRICTIONS DAYTIME: WIND SPEED: 40 KNOTS MAXIMUM WAVE HEIGHT: 2,5 METERS MAXIMUM WEATHER RESTRICTIONS NIGHTTIME: WIND SPEED: 15 KNOTS MAXIMUM WAVE HEIGHT: 0,8 METERS MAXIMUM NO NIGHT TIME BERTHING PERMITTED FOR VESSEL MORE THAN 200 METERS OF LENGTH OVER ALL
2.10	Minimum under keel clearance (UKC) in berth approaches	
1	Value	3.80 Meters
2	Percentage	20.50 Vessel static draft
3	Specify other UKC criterion where applicable	THE RESTRICTION IS VESSEL'S DRAFT
2.11	Absolute maximum draught in berth approaches, if applicable	14.25
2.12	State minimum vertical clearance of any bridges/power cables/vertical obstructions	
1	Vertical clearance	999.00 Metres
2	State datum used	Chart Datum (CD)
3	If 'Other' specify other datum used	
4	Further details	N/A
2.13	Does the port require tankers and gas carriers to be escorted by tugs?	Yes
2	If 'Yes', state whether Active or Passive escort is employed and the maximum towline force that the tug is able to generate	ACTIVE ESCORT MAXIMUM TOWLINE FORCE: 85 MT
2.14	Additional comments or information	N/A
3	Water Depth Alongside	
3.1	Minimum controlled water depth alongside berth at chart datum	
1	Water depth	18.00 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	27 November 2008
3.3	Date next survey is due	15 January 2020
3.4	Minimum static under keel clearance (UKC) alongside berth	
1	Value	3.75 Meters
2	Percentage	20.80 Vessel static draft
3	Specify other UKC criterion where applicable	THE RESTRICTION IS VESSEL'S DRAFT (14.25 METERS)
3.5	State range of water densities at berth	
1	From	1025.00
2	То	1025.00
3	Further details	BERTH IS IN OPEN WATER

3.6	Type of bottom alongside berth	Sand	
1 2	If 'Other' please specify	Sand	
3.7	Absolute maximum draft alongside, if applicable	14.25	
3.8	State maximum tidal range at berth, if applicable	0.20	
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	N/A	
4	Limiting Vessel Dimensions		
4.1	Summer deadweight		
1 2	TPQ NA Selector Minimum	0.00 Metric Tonnes	
3	Maximum	80000.00 Metric Tonnes	
4.2	Berthing displacement		
1	TPQ NA Selector		
2	Minimum	0.00 Metric Tonnes	
3	Maximum	125000.00 Metric Tonnes	
4.3	Alongside displacement		
1 2	TPQ NA Selector Minimum	0.00 Metric Tonnes	
3	Maximum	125000.00 Metric Tonnes	
4.4	State any deadweight/displacement exceptions		
1	TPQ NA Selector	Not applicable	
2			
4.5	Cubic capacity (gas carriers)		
1 2	TPQ NA Selector Minimum	0.00 Cubic metres	
3	Maximum	6000.00 Cubic metres	
4.6	Length over all (LOA)		
1	TPQ NA Selector		
2	Minimum	140.00 Metres	
3	Maximum	290.00 Metres	
4.7	Beam TRO NA Colortor	No voetvistis	
1 2	TPQ NA Selector Minimum	No restrictions	
3	Maximum		

		023700440183
4.8 1 2	Minimum parallel body length (PBL) TPQ NA Selector	Not applicable
4.9 1 2	Minimum PBL forward of manifold TPQ NA Selector	Not applicable
4.10 1 2	Minimum PBL aft of manifold TPQ NA Selector	Not applicable
4.11 1 2 3	Bow to centre of manifold (BCM) TPQ NA Selector Minimum Maximum	Applicable 70.00 Metres 148.00 Metres
4.12 1 2 3	Stern to centre of manifold (SCM) TPQ NA Selector Minimum Maximum	Not applicable
4.13 1 2 3	Freeboard TPQ NA Selector Minimum Maximum	2.00 Metres 11.70 Metres
4.14 1 2 3	Manifold height above water TPQ NA Selector Minimum Maximum	3.20 Metres 16.80 Metres
4.15 1 2 3	Manifold to shipside rail distance TPQ NA Selector Minimum Maximum	Not applicable
4.16 1 2 3 4	Height of manifold above deck or drip tray TPQ NA Selector Minimum Maximum Specify whether height is from the deck or the drip tray	Not applicable
4.17 1 2 3	Manifold spacing TPQ NA Selector Minimum Maximum	Not applicable
4.18 1	Maximum air draft alongside TPQ NA Selector	Not applicable

		023700441183
2		
4.19	Vessel's minimum derrick/crane Safe Working Load (SWL)	N
2	TPQ NA Selector	Not applicable
4.20	Additional comments or information	N/A
5	Mooring and Berthing Information	
5.1	State availability and specifications of tugs and mooring craft required for berthing and/or unberthing.	IS COMPULSORY USE TUGS DURING BERTHING MANEUVERINGS NAME: CAMBRILS, LENGTH: 29.5 M, BOLLARD PULL: 60 T NAME: GETXO, LENGTH: 29.5 M, BOLLARD PULL: 46 T NAME: POBLET, LENGTH: 29.5 M, BOLLARD PULL: 55 T NAME: GUERNICA, LENGTH: 29.5 M, BOLLARD PULL: 46 T NAME: ROMULO, LENGTH: 33 M, BOLLARD PULL: 85.5 T NAME: REMO, LENGTH: 33 M, BOLLARD PULL:
5.2	Are ship's or tug's lines used?	
1	Ship/Tug	Tug's Lines
2	Comments	Line forward: 1 x 200 meters Bollard Pull: 67,2 MT maximum
5.3	Type of fenders installed at berth	
1		Other
2	If 'Other' please specify	SEYBU 150 H TYPE B
5.4	State orientation of vessel alongside berth	Starboard Side To
5.5	At buoy moorings, state which side hose is normally connected	
1		Not applicable
2	If 'Other' please specify	
5.6	Minimum mooring arrangement	4 X 2 FORE AND AFT
5.7	Describe any additional mooring requirements	N/A
5.8	Are there any restrictions using wire mooring ropes?	
1		No
2	If 'yes', provide details of restrictions in wire moorings as part of the mooring pattern	
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	
5.10	Are there any restrictions on using high modulus synthetic mooring ropes?	
1		No

2	If 'yes' provide details	
5.11	Details of any specific mooring equipment required for any vessel utilising the berth	N/A
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.	1 M ABOVE THE WATER
5.13	Details of any shore-provided mooring equipment	N/A
5.14	Are berthing aids provided?	
2	If 'Yes', state type of aids	Yes ELECTRONIC INDICATOR OF: DISTANCE TO FENDERS AND APPROACH VELOCITY
5.15	State allowable speed of approach if applicable	
1		0,20 KNOTS
1		0.20 Knots
5.16	Is a mooring tension monitor fitted?	Yes
5.17	Are mooring hook quick release arrangements provided?	Yes
5.18 1 2	Chain stopper requirements Applicable	No
5.19	Largest ship handled at berth to date	UNKNOWN
5.20	Additional comments or information	N/A
3.20	Additional comments of information	14//
6	Berth Equipment and Facilities	
6.1	Number, type and size of cargo transfer connections	3 CARGO ARMS: - 2 CARGO ARMS WOODFIELD, 1 OF 12 INCHES AND 1 OF 8 INCHES 1 CARGO ARM CHIKSAN OF 8 INCHES.
6.2	List grades handled at berth	Gasoils, Diesels and Kerosenes, Naphtha, Platformate, Raffinate, Reformate, Commercial LPG
2	State specific grades handled at berth (e.g. Ekofisk crude oil, Unleaded Gasoline, Jet A1).	NAPHTHA KEROSENE BUTADIENE PROPANE
6.3	State transfer rate restrictions and back pressure for each cargo grade	NAFTA: 2.500 M3/H KEROSENE: 1.600 M3/H PROPANE. 200 M3/H BUTADIENE: 150 M3/H
6.4	Are transfer connections fitted with insulation flanges?	
1		Yes
2	Provide details	ALL CARGO ARMS
6.5	State storage type for LPG	Pressurised

6.6	Describe any terminal-specific requirements for vessel manifolds	FOR LOADING NAFTA VESSEL MUST PROVIDE ONE CONNECTION OF VAPOR RETURN LINE.
6.7 1 2 3	Is berth fitted with a vapour manifold connection? If 'Yes' state type and size of vapour connection State cargo types for which it is required to use vapour connection (if applicable)	No
6.8	State throughput rate(s) of vapour recovery system	300 M3/H
6.9 1 2	Are Powered Emergency Release Couplings (PERCS) installed to the cargo transfer arms? Supply details	Yes CARGO ARM CHIKSAN 101 1- CLOSE THE VALVE 2- ACTIVATE PERC IN BOTH MANIFOLDS LIQUID AND GAS
6.10 1 2	Does the berth have an emergency shutdown (ESD) capability that can be activated by the ship? If 'yes' provide details	No
6.11	Describe access arrangements between ship and shore.	IF POSSIBLE, SHORE GANGWAY
6.12 1 2	Does the berth have pollution response equipment? If 'yes' provide details	Yes Containment boom(s), skimming equipment, absorbent materials and dispersant stocks.
6.13	Additional comments or information	N/A
7	Berth Operations	
7.1	What is the primary and backup communication system between ship and terminal during cargo operations?	PRIMARY: VERBAL, BY VOICE WITH THE JETTY MAN BACK UP: VHF CH-10
7.2 1 2	Is it required that terminal or shore representatives stay on board during operations? If 'Yes', state requirements including number of persons and their roles	No
7.3	Specify weather/environmental restrictions for stopping cargo operations, disconnecting hoses or arms and vacating the berth?	STOPPING CARGO OPERATIONS: 30 KNOTS WIND SPEED DISCONNECTING HOSES: 35 KNOTS WIND SPEED VACATING THE BERTH: 40 KNOTS WIND SPEED
7.4	Are there any restrictions regarding tank cleaning/Crude Oil Washing (COW) operations at the berth?	Yes
2	If 'Yes' provide full details of these restrictions	NO CRUDE OIL CARGO IN THIS BERTH
7.5	Are there any berth specific requirements regarding tanker inerting procedures?	

	1		Yes
	2	If 'Yes', state requirements	ALL THE VESSELS OPERATE PRODUCTS WITH FLASH POINT EQUAL TO OR LOWER THAN 60°C, THE LOADING OR DISCHARGING OPERATION WILL BE CARRIED OUT ON TANKS WITH INERT ATMOSPHERE.
7.6		Is there a temperature limit for cargo handled?	
	1		Yes
	2	If 'Yes', state temperature limits	PROPANE, BETWEEN 0 AND - 6 ºC
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	If IV-al consider an emphisical debails	No
	2	If 'Yes', provide operational details	
7.9	1	Can the berth be used for Ship-to-Ship transfers using terminal facilities?	Vac
	1	Provide details	Yes ONLY FOR SLUDGES, AND NEVER
	2	riovide details	SIMULTANOUSLY WITH LOADING OR DISCHARGING LIGHT PRODUCTS OPERATIONS.
7.10)	State details regarding any environmental restrictions applicable at the berth	EMISSIONS OF CARGO VAPOURS, INERT GAS OR ENGINE SMOKE IS NOT PERMITTED.
7.11	L	Are there any restrictions regarding Hydrogen Sulphide content in Cargo Tanks?	
	1		No
	2	If 'Yes', state restriction	
7.12	2	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	If Was state vestvistion	Yes
	2	If 'Yes', state restriction	STORES ALONGSIDE ARE FORBIDDEN
7.14	1	Additional comments or information	N/A
8		Available Services	
8.1		Are Fuel Oil bunkers available?	
	1	If Work state how delivered (a.g. Ev Bine, horge truck)	No
	2	If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck)	
8.2	1	Are Diesel Oil bunkers available?	No
	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	1	Is fresh water available?	Vos
	1 2	If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck)	Yes BY HOSES OF THE VESSEL
8.5	_	Are slop reception facilities available?	27.110323 07.1112 723322
0.5	1	Are stop reception racinties available:	Yes
	2	If 'Yes', state how received (e.g. Ex-Pipe, barge, truck)	PIPE
	3	State capacity of slop reception facilities (if applicable)	6000.00 Cubic metres
	4	State any specific exclusions for slop receipts (e.g. chemicals, detergents, cleaning agents)	N/A
8.6		Are dirty ballast reception facilities available?	
	1		No
	2	If 'Yes', state how received	
	3	State capacity of dirty ballast receiption facilities	
8.7		Are engine room sludge and bilge reception facilities available?	Voc
	1 2	If 'Yes', state how received (e.g. Ex-pipe, barge, truck)	Yes BARGE
8.8		Are garbage reception facilities available at the berth.	2, 11,62
0.0	1	Are garbage reception facilities available at the bertil.	Yes
	2	If 'Yes', provide details	BARGE
8.9		Additional comments or information	N/A
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	1	Does the terminal have its own resources for conducting icebreaker escort	
	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 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	9.60
10.4	Berth heading	133
10.5	Width of the channel adjacent to the berth	550.00
10.6	Position of mooring bollards and hooks	

Hook/Bollard ID Number and Type	'x' dist to Target Line (m)	'y' dist to Fender Face (m	Height (m))	SWL (tonnes)
M-1A	202.75	18.00	8.00	100.00
M-3	138.75	18.00	8.00	100.00
M-5	78.75	18.00	8.00	60.00
B-1	44.00	1.00	5.00	60.00
B-7	-44.00	1.00	5.00	60.00
M-7	-78.75	18.00	8.00	60.00
M-9	-138.75	18.00	8.00	100.00
M-11	-202.75	18.00	8.00	100.00

10.7 Position of mooring buoys

10.8 **Fender Location**

Fender ID Number	'x' Dist to Target Line (m)	Elevation of Fenders (m)		Fender Height (m)	Fender Contact Area (m2)
B-1	44.00	-0.50	5.54	5.51	19.05
B-3	24.00	0.00	3.06	3.12	6.20
B-5	-24.00	0.00	3.06	3.12	6.20

		B-7	-44.00	-0.50	5.54	5.51	19.05	
10.9	Fender Reaction Da	ita						
		Fender Id	l Number	Point No.	Compre (metres		oad (tonnes)	
		B-1		1	2.40	1	33.00	
		B-3		2	2.40	3	5.00	
		B-5		2	2.40	3	5.00	
		B-7		1	2.40	1	33.00	
10.10	Fender friction coef	fficient (μ)				0.5	0	
10.11	State identity and h	orizontal pos	ition of load	ling arms				
		Loading Arm/Shore Connection ID Number		Horizontal e co-ordinate Y	Max Excursion Surge	Max Excursion Sway	Max Excursion Heave	
		BC-102	7.00	2.00				
		BC-101	7.00	-1.00				
		BC-103	7.00	-4.00				
10.12	State loading arm o	perating limit	ts					
		Loading Arm ID Number	Max Op Height	Min Op Height	Max Excursion Surge	Max Excursion Sway	Max Excursion Heave	
		102	16.80	3.20				
		101	16.80	3.20				
		103	16.80	3.20				
10.13	Additional commen	its or informa	tion			N/	A	



Oil Companies International Marine Forum MTIS Programme

Berth TPQ

Berth TPQ: SBM

ReportName 17a24563-f6a0-4e14-95e7-1bef5a67efa4

Terminal Name: PANTALÁN DE REPSOL TARRAGONA

Terminal Port: PANTALÁN DE REPSOL PETRÓLEO TARRAGONA
Terminal Port Authority: PORT AUTHORITY OF TARRAGONA

Country: SPAIN

Berth Name: SBM

1 Berth General

_		Bertif General	
1.1		Berth name or number	SBM
1.2		Berth type	
	1	If lost and release are sife.	
	2	If 'Other' please specify	
1.3	1	Terrestrial co-ordinates of manifold centreline Latitude	410403 North
	2	Longitude	0011320 East
1.4		Berth users for liquid and gas cargoes	REPSOL PETROLEO
1.5		Has a structural survey of the berth been undertaken, including its underwater	
	1	structure?	Yes
	2	If 'Yes', state date of last survey	01 April 2013
1.6		Has an engineering (mooring and fendering) analysis of berth been	•
	1	undertaken?	No
	1 2	If 'Yes', state date of last analysis	No
1.7		Additional comments or information	2 BOW CHAIN STOPPERS, SWL 200 MT.
			2 BOW CLOSED FAIRLEADS OF OCIMF
			RECOMMENDED SIZE (600mm x 450mm). 4 METRES MAXIMUM DISTANCE BRACKET TO
			BOW FAIRLEADS 30 METRES MAXIMUM HEIGHT CHAIN
			STOPPERS TO SEA-WATER.
2		Berth Approaches	
2.1		Is pilotage compulsory?	
	1		Yes
	2	If 'Yes', state if any vessels are exempted	NO
2.2		State distance from pilot station(s) to berth	1.0 NM
2.3	4	Is a waiting anchorage available?	Voc
	1	If 'Yes', state distance from waiting anchorage to berth	Yes 2.5 NM
2.4	J		2.3 (4)
2.4	1	Controlling depth of water for transit to and from berth Water depth	40.00 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 November 2008
2.6		Date next survey is due	15 January 2020
2.7		State Maximum Tidal Range in berth approaches	0.20
2.8		Is laden transit to and/or from the berth conducted using the tide?	
			- 1

		100130070144
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	WEATHER RESTRICTIONS DAYTIME: WIND SPEED: 40 KNOTS MAXIMUM WAVE HEIGHT: 2,5 METERS MAXIMUM
		NO NIGHT TIME BERTHING PERMITTED
2.10	Minimum under keel clearance (UKC) in berth approaches	
1	Value	10.00 Meters
2	Percentage	25.00 Vessel static draft
3	Specify other UKC criterion where applicable	THE RESTRICTION IS VESSEL'S DRAFT
2.11	Absolute maximum draught in berth approaches, if applicable	30.00
2.12	State minimum vertical clearance of any bridges/power cables/vertical obstructions	
1	Vertical clearance	999.00 Metres
2	State datum used	Chart Datum (CD)
3	If 'Other' specify other datum used	
4	Further details	N/A
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	ACTIVE ESCORT MAXIMUM TOWLINE FORCE: 85 MT
2.14	Additional comments or information	N/A
3	Water Depth Alongside	
3.1	Minimum controlled water depth alongside berth at chart datum	
1	Water depth	40.00 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	27 November 2008
3.3	Date next survey is due	15 January 2020
3.4	Minimum static under keel clearance (UKC) alongside berth	
1	Value	10.00 Meters
2	Percentage	25.00 Vessel static draft
3	Specify other UKC criterion where applicable	THE RESTRICTION IS VESSEL'S DRAFT (30.00 METERS)
3.5	State range of water densities at berth	
1	From	1025.00
2	То	1025.00
3	Further details	BERTH IS IN OPEN WATER
3.6	Further details Type of bottom alongside berth	BERTH IS IN OPEN WATER

		10et5a6/eta
2	If 'Other' please specify	
3.7	Absolute maximum draft alongside, if applicable	30.00
3.8	State maximum tidal range at berth, if applicable	0.20
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	N/A
4	Limiting Vessel Dimensions	
4.1	Summer deadweight	
1 2	TPQ NA Selector Minimum	0.00 Metric Tonnes
3	Maximum	325000.00 Metric Tonnes
4.2 1 2 3	Berthing displacement TPQ NA Selector Minimum Maximum	No restrictions
4.3 1 2 3	Alongside displacement TPQ NA Selector Minimum Maximum	Not applicable
4.4 1 2	State any deadweight/displacement exceptions TPQ NA Selector	Not applicable
4.5 1 2 3	Cubic capacity (gas carriers) TPQ NA Selector Minimum Maximum	Not applicable
4.6 1 2 3	Length over all (LOA) TPQ NA Selector Minimum Maximum	0.00 Metres 350.00 Metres
4.7 1 2 3	Beam TPQ NA Selector Minimum Maximum	No restrictions
4.8	Minimum parallel body length (PBL) TPQ NA Selector	Not applicable

			1bef5a67efa4
2			
4.9 1 2	Minimum PBL forward of manifold TPQ NA Selector	Not applicable	
4.10 1 2	Minimum PBL aft of manifold TPQ NA Selector	Not applicable	
4.11 1 2 3	Bow to centre of manifold (BCM) TPQ NA Selector Minimum Maximum	Not applicable	
4.12 1 2 3	Stern to centre of manifold (SCM) TPQ NA Selector Minimum Maximum	Not applicable	
4.13 1 2 3	Freeboard TPQ NA Selector Minimum Maximum	Not applicable	
4.14 1 2 3	Manifold height above water TPQ NA Selector Minimum Maximum	Not applicable	
4.15 1 2 3	Manifold to shipside rail distance TPQ NA Selector Minimum Maximum	Not applicable	
4.16 1 2 3 4	Height of manifold above deck or drip tray TPQ NA Selector Minimum Maximum Specify whether height is from the deck or the drip tray	Not applicable	
4.17 1 2 3	Manifold spacing TPQ NA Selector Minimum Maximum	Not applicable	
4.18 1 2	Maximum air draft alongside TPQ NA Selector	Not applicable	
4.19	Vessel's minimum derrick/crane Safe Working Load (SWL)		

		1ber5a6/era4
1	TPQ NA Selector	
2		15.00 Metric Tonnes
4.20	Additional comments or information	N/A
5	Mooring and Berthing Information	
5.1	State availability and specifications of tugs and mooring craft required for berthing and/or unberthing.	IS COMPULSORY USE TUGS DURING BERTHING MANEUVERINGS NAME: CAMBRILS, LENGTH: 29.5 M, BOLLARD PULL: 60 T NAME: GETXO, LENGTH: 29.5 M, BOLLARD PULL: 46 T NAME: POBLET, LENGTH: 29.5 M, BOLLARD PULL: 55 T NAME: GUERNICA, LENGTH: 29.5 M, BOLLARD PULL: 46 T NAME: ROMULO, LENGTH: 33 M, BOLLARD PULL: 85.5 T NAME: REMO, LENGTH: 33 M, BOLLARD PULL: 85.5 T
5.2	Are ship's or tug's lines used?	
1	Ship/Tug	Tug's Lines
2	Comments	Line forward: 1 x 200 meters Bollard Pull: 67,2 MT maximum After complete berthing at SBM, Vessel will change tug's line for ship's line astern.
5.3	Type of fenders installed at berth	
1		Other
2	If 'Other' please specify	NO FENDERS INSTALLED, THE BERTH IS DONE TO A SBM BY 2 SINGLE POINT MOORING
5.4	State orientation of vessel alongside berth	Not applicable
5.5	At buoy moorings, state which side hose is normally connected	
1		Port
2	If 'Other' please specify	
5.6	Minimum mooring arrangement	2 CHAINS STOPPER
5.7	Describe any additional mooring requirements	N/A
5.8	Are there any restrictions using wire mooring ropes?	
1		No
2	If 'yes', provide details of restrictions in wire moorings as part of the mooring pattern	
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	
5.10	Are there any restrictions on using high modulus synthetic mooring ropes?	
1		No
2	If 'yes' provide details	

5.11	Details of any specific mooring equipment required for any vessel utilising the berth	N/A
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.	1 M ABOVE THE WATER
5.13	Details of any shore-provided mooring equipment	N/A
5.14	Are berthing aids provided?	
1	If Wash state to use of side	No
2	If 'Yes', state type of aids	
5.15	State allowable speed of approach if applicable	0.20 (4) 0.75
1		0,20 KNOTS
1		0.20 Knots
5.16	Is a mooring tension monitor fitted?	No
5.17	Are mooring hook quick release arrangements provided?	No
5.18 1 2	Chain stopper requirements Applicable	Yes - 2 BOW CHAIN STOPPERS, SWL 200 MT - 2 BOW CLOSED FAIRLEADS OF OCIMF RECOMMENDED SIZE (600 mm X 450 mm) - MAXIMUM DISTANCE STOPPER BRACKET TO BOW FAIRLEADS ACCORDING OCIMF (2700 mm X 3700 mm) - 30 METRES MAXIMUM HEIGHT CHAIN STOPPERS TO SEA-WATER
5.19	Largest ship handled at berth to date	UNKNOWN
5.20	Additional comments or information	N/A
6	Berth Equipment and Facilities	
6.1	Number, type and size of cargo transfer connections	2 CARGO HOSES - 1 CARGO HOSES OF 16 INCHES FOR CARGO OPERATIONS - 1 CARGO HOSES OF 16 INCHES FOR BLOW THE LINE WITH FRESH WATER AFTER COMPLETE DISCHARGE OPERATIONS
6.2	List grades handled at berth	Crude Oils/Condensates
2	State specific grades handled at berth (e.g. Ekofisk crude oil, Unleaded Gasoline, Jet A1).	CRUDE OIL
6.3	State transfer rate restrictions and back pressure for each cargo grade	MAX. DISCHARGE RATE: 9.000 M3/H
6.4	Are transfer connections fitted with insulation flanges?	
1		No
2	Provide details	
6.5	State storage type for LPG	Not applicable

6.6	Describe any terminal-specific requirements for vessel manifolds	HOSES CONNECTION ALWAYS IS DONE IN PORT SIDE.
6.7 1 2 3	Is berth fitted with a vapour manifold connection? If 'Yes' state type and size of vapour connection State cargo types for which it is required to use vapour connection (if applicable)	No
6.8	State throughput rate(s) of vapour recovery system	N/A
6.9 1 2	Are Powered Emergency Release Couplings (PERCS) installed to the cargo transfer arms? Supply details	No
6.10 1 2	Does the berth have an emergency shutdown (ESD) capability that can be activated by the ship? If 'yes' provide details Describe access arrangements between ship and shore.	No COMBINATION LADDER, 1 METER ABOVE THE
6.12	Does the berth have pollution response equipment? If 'yes' provide details	No
6.13	Additional comments or information	N/A
7	Berth Operations	
7.1	What is the primary and backup communication system between ship and terminal during cargo operations?	VERBAL WITH THE LOADING MASTER
7.2 1 2	Is it required that terminal or shore representatives stay on board during operations? If 'Yes', state requirements including number of persons and their roles	Yes - 1 LOADING MASTER - 1 COW SURVEYOR 5 MOORING ASSISTANCE
7.3	Specify weather/environmental restrictions for stopping cargo operations, disconnecting hoses or arms and vacating the berth?	STOPPING CARGO OPERATIONS: 35 KNOTS WIND SPEED DISCONNECTING HOSES: 40 KNOTS WIND SPEED VACATING THE BERTH: 45 KNOTS WIND SPEED
7.4 1 2	Are there any restrictions regarding tank cleaning/Crude Oil Washing (COW) operations at the berth? If 'Yes' provide full details of these restrictions	No
7.5	Are there any berth specific requirements regarding tanker inerting procedures?	Yes

	2	If 'Yes', state requirements	ALL THE VESSELS OPERATE PRODUCTS WITH FLASH POINT EQUAL TO OR LOWER THAN 60°C, THE LOADING OR DISCHARGING OPERATION WILL BE CARRIED OUT ON TANKS WITH INERT ATMOSPHERE.
7.6		Is there a temperature limit for cargo handled?	
	1		No
	2	If 'Yes', state temperature limits	
7.7		Is it permitted for vessels to undertake double-banked operations alongside the	
	1	berth?	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		Yes
	2	If 'Yes', provide operational details	AFTER COMPLETE DISCHARGE OPERATIONS, SHORE FLUSHING THE LINE WITH 200 M3 OF FRESH WATER
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	EMISSIONS OF CARGO VAPOURS, INERT GAS OR ENGINE SMOKE IS NOT PERMITTED.
7.13		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 2	If 'Yes', state restriction	No
- 4		·	
7.13	3	Are there any restrictions on handling stores when a ship is moored alongside berth?	
	1		Yes
	2	If 'Yes', state restriction	STORES NOT PERMITTED AT THE BERTH
7.14	4	Additional comments or information	N/A
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	1	Is fresh water available?	No
	2	If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck)	
8.5		Are slop reception facilities available?	
	1		Yes
	2	If 'Yes', state how received (e.g. Ex-Pipe, barge, truck) State capacity of slop reception facilities (if applicable)	CARGO HOSE 6000.00 Cubic metres
	4	State any specific exclusions for slop receipts (e.g. chemicals, detergents,	N/A
		cleaning agents)	'
8.6		Are dirty ballast reception facilities available?	
	1	If Was state how received	No
	2	If 'Yes', state how received State capacity of dirty ballast receiption facilities	
8.7		Are engine room sludge and bilge reception facilities available?	
0.7	1	The engine room studge and singe reception racinates available.	No
	2	If 'Yes', state how received (e.g. Ex-pipe, barge, truck)	
8.8		Are garbage reception facilities available at the berth.	
	1		No
	2	If 'Yes', provide details	
8.9		Additional comments or information	N/A
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	1	Does the terminal have its own resources for conducting icebreaker escort	
	2	If 'Yes' provide details and specify how they can be requested	
9.9	1	Are there icebreakers available to operate in the terminal area	
	2	Specify details (e.g. Name/IMO Nr/GRT/Power/Ice Class)	

10.13

Additional comments or information

9.10	Does the terminal have ice-capable tugs and support craft	
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?	
2	If 'Yes', provide details	
9.12	Does the terminal provide its own ice navigator/advisor?	
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	OPEN WATER
10.2	Specify datum used for height and depth measurements in this section	Chart Datum (CD)
2	If 'Other' please specify other	
10.3	Berth height above datum	
10.4	Berth heading	N/A
10.5	Width of the channel adjacent to the berth	
10.6	Position of mooring bollards and hooks	
10.7	Position of mooring buoys	
10.8	Fender Location	
10.9	Fender Reaction Data	
10.10	Fender friction coefficient (μ)	
10.11	State identity and horizontal position of loading arms	
10.12	State loading arm operating limits	

N/A



Oil Companies International Marine Forum MTIS Programme Berth TPQ

Berth TPQ: 11S

ReportName 5c7446c0-da23-48a2-8be7-5d6ae8f90391

Terminal Name: PANTALÁN DE REPSOL TARRAGONA

Terminal Port: PANTALÁN DE REPSOL PETRÓLEO TARRAGONA
Terminal Port Authority: PORT AUTHORITY OF TARRAGONA

Country: SPAIN

Berth Name: 11S

1		Berth General	
1.1		Berth name or number	115
	1 2	Berth type If 'Other' please specify	Jetty - 'T' finger
	1	Terrestrial co-ordinates of manifold centreline Latitude Longitude Berth users for liquid and gas cargoes	410521 North 0011204 East REPSOL PETROLEO REPSOL QUIMICA DOW
	1	Has a structural survey of the berth been undertaken, including its underwater structure? If 'Yes', state date of last survey	Yes 15 June 2009
	1 2	Has an engineering (mooring and fendering) analysis of berth been undertaken? If 'Yes', state date of last analysis Additional comments or information	Yes 15 June 2009 N/A
2		Berth Approaches	N/A
	1 2	Is pilotage compulsory? If 'Yes', state if any vessels are exempted	Yes NO
2.2		State distance from pilot station(s) to berth	1,5 NM
	1	Is a waiting anchorage available? If 'Yes', state distance from waiting anchorage to berth	Yes 3 NM
2	1 2 3	Controlling depth of water for transit to and from berth Water depth State datum used If 'Other' please specify datum	11.00 Metres Chart Datum (CD)
2.5		Date of latest survey from which transit depth has been determined	01 November 2008
2.6		Date next survey is due	15 January 2020
2.7		State Maximum Tidal Range in berth approaches	0.20
	1	Is laden transit to and/or from the berth conducted using the tide? If 'Yes', state optimum transit window (i.e. at High Water, HW +/- 1 hr)	No

2.9	State details of any specific berthing and/or unberthing restrictions	WEATHER RESTRICTIONS DAYTIME: WIND SPEED: 40 KNOTS MAXIMUM WAVE HEIGHT: 2 METERS MAXIMUM WEATHER RESTRICTIONS NIGHTTIME: WIND SPEED: 15 KNOTS MAXIMUM WAVE HEIGHT: 0,8 METERS MAXIMUM
2.10	Minimum under keel clearance (UKC) in berth approaches	Wive Heldin. 6,6 Welens IVII william
2.10	Value	2.80 Meters
2	Percentage	25.00 Vessel static draft
3	Specify other UKC criterion where applicable	THE RESTRICTION IS VESSEL'S DRAFT
2.11	Absolute maximum draught in berth approaches, if applicable	8.20
2.12	State minimum vertical clearance of any bridges/power cables/vertical obstructions	
1	Vertical clearance	999.00 Metres
2	State datum used	Chart Datum (CD)
3	If 'Other' specify other datum used	
4	Further details	N/A
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	ACTIVE ESCORT MAXIMUM TOWLINE FORCE: 85 MT
2.14	Additional comments or information	N/A
3	Water Depth Alongside	
3.1	Minimum controlled water depth alongside berth at chart datum	
1	Water depth	11.00 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	27 November 2008
3.3	Date next survey is due	15 January 2020
3.4	Minimum static under keel clearance (UKC) alongside berth	
1	Value	2.80 Meters
2	Percentage	25.00 Vessel static draft
3	Specify other UKC criterion where applicable	THE RESTRICTION IS VESSEL'S DRAFT (8.20 METERS)
3.5	State range of water densities at berth	
1	From	1025.00
2	То	1025.00
3	Further details	BERTH IS IN OPEN WATER
3.6	Type of bottom alongside berth	
1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Sand

			200960130231
2	If 'Other' please specify		
3.7	Absolute maximum draft alongside, if applicable	8.20	
3.8	State maximum tidal range at berth, if applicable	0.20	
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	N/A	
4	Limiting Vessel Dimensions		
4.1	Summer deadweight		
1 2	TPQ NA Selector Minimum	0.00 Metric Tonnes	
3	Maximum	11000.00 Metric Tonnes	
4.2	Berthing displacement		
1	TPQ NA Selector		
2	Minimum	0.00 Metric Tonnes	
3	Maximum	18700.00 Metric Tonnes	
4.3	Alongside displacement		
1	TPQ NA Selector		
2	Minimum	0.00 Metric Tonnes	
3	Maximum	18700.00 Metric Tonnes	
4.4	State any deadweight/displacement exceptions TPQ NA Selector	Not applicable	
2	TPQ NA Selector	ног аррисаые	
4.5	Cubic capacity (gas carriers)		
1	TPQ NA Selector		
2	Minimum	0.00 Cubic metres	
3	Maximum	8500.00 Cubic metres	
4.6	Length over all (LOA)		
1	TPQ NA Selector		
2	Minimum	74.00 Metres	
3	Maximum	155.00 Metres	
4.7	Beam TRO NA Selector	No voctrictions	
1 2	TPQ NA Selector Minimum	No restrictions	
3	Maximum		
4.8	Minimum parallel body length (PBL)		
1	TPQ NA Selector	Not applicable	

		5d6ae8f903
2		
4.9 1 2	Minimum PBL forward of manifold TPQ NA Selector	Not applicable
4.10 1 2	Minimum PBL aft of manifold TPQ NA Selector	Not applicable
4.11 1 2 3	Bow to centre of manifold (BCM) TPQ NA Selector Minimum Maximum	37.00 Metres 80.00 Metres
4.12 1 2 3	Stern to centre of manifold (SCM) TPQ NA Selector Minimum Maximum	Not applicable
4.13 1 2 3	Freeboard TPQ NA Selector Minimum Maximum	1.80 Metres 10.00 Metres
4.14 1 2 3	Manifold height above water TPQ NA Selector Minimum Maximum	1.40 Metres 11.60 Metres
4.15 1 2 3	Manifold to shipside rail distance TPQ NA Selector Minimum Maximum	Not applicable
4.16 1 2 3 4	Height of manifold above deck or drip tray TPQ NA Selector Minimum Maximum Specify whether height is from the deck or the drip tray	Not applicable
4.17 1 2 3	Manifold spacing TPQ NA Selector Minimum Maximum	Not applicable
4.18 1 2	Maximum air draft alongside TPQ NA Selector	Not applicable
4.19	Vessel's minimum derrick/crane Safe Working Load (SWL)	

			500de6190591
	1 2	TPQ NA Selector	Not applicable
4.20)	Additional comments or information	N/A
5		Mooring and Berthing Information	
5.1		State availability and specifications of tugs and mooring craft required for berthing and/or unberthing.	IS COMPULSORY USE TUGS DURING BERTHING MANEUVERINGS NAME: CAMBRILS, LENGTH: 29.5 M, BOLLARD PULL: 60 T NAME: GETXO, LENGTH: 29.5 M, BOLLARD PULL: 46 T NAME: POBLET, LENGTH: 29.5 M, BOLLARD PULL: 55 T NAME: GUERNICA, LENGTH: 29.5 M, BOLLARD PULL: 46 T NAME: ROMULO, LENGTH: 33 M, BOLLARD PULL: 85.5 T NAME: REMO, LENGTH: 33 M, BOLLARD PULL: 85.5 T
5.2		Are ship's or tug's lines used?	
	1	Ship/Tug	Tug's Lines
	2	Comments	Line forward: 1 x 200 meters Bollard Pull: 67,2 MT maximum
5.3		Type of fenders installed at berth	
	1		Other
	2	If 'Other' please specify	SEYBU 150 H TYPE B
5.4		State orientation of vessel alongside berth	Port Side To
5.5		At buoy moorings, state which side hose is normally connected	
	1		Not applicable
	2	If 'Other' please specify	
5.6		Minimum mooring arrangement	3 X 2 FORE AND AFT
5.7		Describe any additional mooring requirements	N/A
5.8		Are there any restrictions using wire mooring ropes?	
	1		No
	2	If 'yes', provide details of restrictions in wire moorings as part of the mooring pattern	
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	
5.10)	Are there any restrictions on using high modulus synthetic mooring ropes?	
	1		No
	2	If 'yes' provide details	
5.11		Details of any specific mooring equipment required for any vessel utilising the berth	N/A
		OCI UI	

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.	1 M ABOVE WATER
5.13	Details of any shore-provided mooring equipment	N/A
5.14	Are berthing aids provided?	
1		Yes
2	If 'Yes', state type of aids	ELECTRONIC INDICATOR OF: DISTANCE TO FENDERS AND APPROACH VELOCITY
5.15	State allowable speed of approach if applicable	
1		0,25 KNOTS
1		0.25 Knots
5.16	Is a mooring tension monitor fitted?	Yes
5.17	Are mooring hook quick release arrangements provided?	Yes
5.18	Chain stopper requirements	
1	Applicable	No
2		
5.19	Largest ship handled at berth to date	UNKNOWN
5.20	Additional comments or information	N/A
6	Berth Equipment and Facilities	
6.1	Number, type and size of cargo transfer connections	4 CARGO ARMS: - 2 WOODFIELD OF 8 INCHES, AND - 2 CHIKSAN OF 8 INCHES
6.2	List grades handled at berth	Black Petroleum Products, Gasoils, Diesels and Kerosenes, Gasolines and Gasoline Blendstocks, Naphtha, Commercial LPG, Chemical Gases, Biodiesel/Biosiesel Blends, Vegetable Oils
2	State specific grades handled at berth (e.g. Ekofisk crude oil, Unleaded Gasoline, Jet A1).	PROPYLENE PROPYLENE KEROSENE BUTADIENE GASOLINE GAS OIL FAME NAPHTHA PYGAS FUEL OIL PROPANE FC-4

6.13	Additional comments or information	N/A
2	If 'yes' provide details	Containment boom(s), skimming equipment, absorbent materials and dispersant stocks.
6.12	Does the berth have pollution response equipment?	Yes
6.11	Describe access arrangements between ship and shore.	SHIP'S GANGWAY IS COMPULSORY
2	If 'yes' provide details	CARGO ARM ETHYLENE: CLOSE IN 25 SEC. CARGO ARM PROPYLENE: CLOSE IN 35 SEC.
6.10	Does the berth have an emergency shutdown (ESD) capability that can be activated by the ship?	No
6.9	Are Powered Emergency Release Couplings (PERCS) installed to the cargo transfer arms? Supply details	Yes CARGO ARM CHIKSAN 20 CARGO ARM CHIKSAN 21 1- CLOSE THE VALVE 2- ACTIVATE PERC IN BOTH MANIFOLDS LIQUID AND GAS
6.8	State throughput rate(s) of vapour recovery system	300 M3/H
6.7123	Is berth fitted with a vapour manifold connection? If 'Yes' state type and size of vapour connection State cargo types for which it is required to use vapour connection (if applicable)	Yes CARGO ARM OF 8 INCHES PRODUCTS WITH FLASHPOINT EQUAL TO OR LOWER THAN 60°C
6.5	State storage type for LPG Describe any terminal-specific requirements for vessel manifolds	Pressurised PRODUCTS WITH FLASHPOINT EQUAL TO OR LOWER THAN 60°C, VAPOR RETURN LINE MUST BE CONNECTED.
6.4 1 2	Are transfer connections fitted with insulation flanges? Provide details	Yes ALL CARGO ARMS
6.3	State transfer rate restrictions and back pressure for each cargo grade	ETHYLENE: 300 M3/H PROPYLENE: 300 M3/H, BACKPRESSURE: 5 KG/CM2 PROPANE: 200 M3/H BUTADIENE: 150 M3/H KEROSENE: 1.600 M3/H CAR: 2.000 M3/H GASOIL: 2.500 M3/H GASOLINE: 2.500 M3/H FUEL: 1.800 M3/H

7 Berth Operations

7.1		What is the primary and backup communication system between ship and terminal during cargo operations?	PRIMARY: VERBAL, BY VOICE WITH THE JETTY MAN BACK UP: VHF CH-10
7.2	1	Is it required that terminal or shore representatives stay on board during operations?	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?	STOPPING CARGO OPERATIONS: 30 KNOTS WIND SPEED DISCONNECTING HOSES: 35 KNOTS WIND SPEED VACATING THE BERTH: 40 KNOTS WIND SPEE
7.4	1	Are there any restrictions regarding tank cleaning/Crude Oil Washing (COW) operations at the berth?	Yes
	2	If 'Yes' provide full details of these restrictions	NO CRUDE OIL CARGO IN THIS BERTH
7.5		Are there any berth specific requirements regarding tanker inerting procedures?	
	1		Yes
	2	If 'Yes', state requirements	ALL THE VESSELS OPERATE PRODUCTS WITH FLASH POINT EQUAL TO OR LOWER THAN 60°C, THE LOADING OR DISCHARGING OPERATION WILL BE CARRIED OUT ON TANKS WITH INERT ATMOSPHERE.
7.6	1	Is there a temperature limit for cargo handled?	Voc
	1 2	If 'Yes', state temperature limits	Yes ETHYLENE103ºC
7.7		Is it permitted for vessels to undertake double-banked operations alongside the berth?	
	1 2	If 'Yes', state limiting criteria	No
7.8		Is vessel required to pump water ashore or receive water on board for line clearance purposes?	
	1	If 'Yes', provide operational details	No
7.9	1	Can the berth be used for Ship-to-Ship transfers using terminal facilities?	Yes
	2	Provide details	ONLY FOR SLUDGES, AND NEVER SIMULTANOUSLY WITH LOADING OR DISCHARGING LIGHT PRODUCTS OPERATIONS.
7.10)	State details regarding any environmental restrictions applicable at the berth	EMISSIONS OF CARGO VAPOURS, INERT GAS OR ENGINE SMOKE IS NOT PERMITTED.
7.11	1	Are there any restrictions regarding Hydrogen Sulphide content in Cargo Tanks?	No
	2	If 'Yes', state restriction	

7.12	2 1 2	Are there any restrictions regarding Mercaptan content in Cargo Tanks? If 'Yes', state restriction	No
7.13	1 2	Are there any restrictions on handling stores when a ship is moored alongside berth? If 'Yes', state restriction	Yes STORES ALONGSIDE ARE FORBIDDEN
7.14		Additional comments or information	N/A
8	•	Available Services	
8.1	1 2	Are Fuel Oil bunkers available? If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck)	No
8.2	1 2	Are Diesel Oil bunkers available? If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck)	No
8.3	1 2	Are Intermediate Oil bunkers available? If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck)	No
8.4	1 2	Is fresh water available? If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck)	Yes BY HOSES OF THE VESSEL
8.5	1 2 3 4	Are slop reception facilities available? If 'Yes', state how received (e.g. Ex-Pipe, barge, truck) State capacity of slop reception facilities (if applicable) State any specific exclusions for slop receipts (e.g. chemicals, detergents, cleaning agents)	Yes BY PIPE 6000.00 Cubic metres N/A
8.6	1 2 3	Are dirty ballast reception facilities available? If 'Yes', state how received State capacity of dirty ballast receiption facilities	No
8.7	1 2	Are engine room sludge and bilge reception facilities available? If 'Yes', state how received (e.g. Ex-pipe, barge, truck)	Yes BARGE
8.8	1 2	Are garbage reception facilities available at the berth. If 'Yes', provide details	Yes BARGE
8.9		Additional comments or information	N/A

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 2	If 'Yes' provide details and specify how they can be requested	
9.9	Are there icebreakers available to operate in the terminal area	
2	Specify details (e.g. Name/IMO Nr/GRT/Power/Ice Class)	
9.10	Does the terminal have ice-capable tugs and support craft	
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?	
2	If 'Yes', provide details	
9.12	Does the terminal provide its own ice navigator/advisor?	
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		Lowest Astronomical Tide (LAT)
2	If 'Other' please specify other	
10.3	Berth height above datum	9.60
10.4	Berth heading	133
10.5	Width of the channel adjacent to the berth	800.00
10.6	Position of mooring bollards and hooks	

								506ae8f90391
		Hook/Bol Number a		'x' dist to Targe Line (m)		to H Face (m)	eight (m)	SWL (tonnes)
		M-16		90.00	18.00	8	.00	100.00
		M-18		60.00	18.00	8	.00	60.00
		B-18		27.25	1.00	5	.00	60.00
		B-24		-27.25	1.00	5	.00	60.00
		M-20		-60.00	18.00	8	.00	60.00
		M-22		-120.00	18.00	8	.00	60.00
10.7	Position of mooring	g buoys						
10.8	Fender Location							
		Fender ID Number	'x' Dist to Target Line (m)	Elevation of e Fenders (m)		Fender Height (m	Fender) Contact Area (m2)	
		B-18	27.25	-0.32	4.16	3.76	11.25	
		B-20	9.50	0.00	3.06	3.12	6.20	
		B-22	-9.50	0.00	3.06	3.12	6.20	
		B-24	-27.25	-0.32	4.16	3.68	10.96	
10.9	Fender Reaction Da	ita						
		Fender Id	Number	Point No.	Compre (metres		oad (tonnes)	
		B-18		1	2.00	3.	5.00	
		B-20		2	2.00	2	0.00	
		B-22		2	2.00	2	0.00	
		B-24		1	2.00	3.	5.00	
10.10	Fender friction coef	fficient (μ)				0.5	0	
10.11	State identity and h	orizontal pos	ition of load	ling arms				
		Loading Arm/Shore Connection ID Number		Horizontal e co-ordinate Y	Max Excursion Surge	Max Excursion Sway	Max Excursion Heave	
		BC-17	7.00	8.00				
		BC-21	7.00	5.00				
		BC-20	7.00	2.00				
		BC-19	7.00	-1.00				
10.12	State loading arm o	perating limit	:S					
		Loading Arm ID Number	Max Op Height	Min Op Height	Max Excursion Surge	Max Excursion Sway	Max Excursion Heave	
		17	11.60	1.40				
		21	11.60	1.40				
		20	11.60	1.40				
		19	11.60	1.40				
10.13	Additional commen	its or informa	tion			N/A	4	



Oil Companies International Marine Forum MTIS Programme

Berth TPQ

Berth TPQ: 35S

ReportName dd7cd1e0-a78c-4fd2-baa2-78b5a7ec3ad2

Terminal Name: PANTALÁN DE REPSOL TARRAGONA

Terminal Port: PANTALÁN DE REPSOL PETRÓLEO TARRAGONA
Terminal Port Authority: PORT AUTHORITY OF TARRAGONA

Country: SPAIN

Berth Name: 35S

1		Berth General	
1.1		Berth name or number	35S
1.2	1 2	Berth type If 'Other' please specify	Jetty - 'T' finger
1.3	1 2	Terrestrial co-ordinates of manifold centreline Latitude Longitude Berth users for liquid and gas cargoes	410512 North 0011217 East REPSOL PETROLEO REPSOL QUIMICA DOW
1.5	1 2	Has a structural survey of the berth been undertaken, including its underwater structure? If 'Yes', state date of last survey	Yes 15 June 2009
1.6	1 2	Has an engineering (mooring and fendering) analysis of berth been undertaken? If 'Yes', state date of last analysis	Yes 15 June 2009
1.7		Additional comments or information	N/A
2		Berth Approaches	
2.1	1 2	Is pilotage compulsory? If 'Yes', state if any vessels are exempted	Yes NO
2.2		State distance from pilot station(s) to berth	1.5 NM
2.3	1 3	Is a waiting anchorage available? If 'Yes', state distance from waiting anchorage to berth	Yes 3 NM
2.4	1 2 3	Controlling depth of water for transit to and from berth Water depth State datum used If 'Other' please specify datum	14.40 Metres Chart Datum (CD)
2.5		Date of latest survey from which transit depth has been determined	01 November 2008
2.6		Date next survey is due	15 January 2020
2.7		State Maximum Tidal Range in berth approaches	0.20
2.8	1 2	Is laden transit to and/or from the berth conducted using the tide? If 'Yes', state optimum transit window (i.e. at High Water, HW +/- 1 hr)	No

2.9	State details of any specific berthing and/or unberthing restrictions	WEATHER RESTRICTIONS DAYTIME: WIND SPEED: 40 KNOTS MAXIMUM WAVE HEIGHT: 2 METERS MAXIMUM WEATHER RESTRICTIONS NIGHTTIME: WIND SPEED: 15 KNOTS MAXIMUM WAVE HEIGHT: 0,8 METERS MAXIMUM NO NIGHT TIME BERTHING PERMITTED FOR VESSEL MORE THAN 200 METERS OF LENGTH OVER ALL
2.10 1 2 3	Minimum under keel clearance (UKC) in berth approaches Value Percentage Specify other UKC criterion where applicable	3.20 Meters 21.80 Vessel static draft THE RESTRICTION IS VESSEL'S DRAFT
2.11	Absolute maximum draught in berth approaches, if applicable	11.25
2.12 1 2 3 4	State minimum vertical clearance of any bridges/power cables/vertical obstructions Vertical clearance State datum used If 'Other' specify other datum used Further details	999.00 Metres Chart Datum (CD) N/A
2.13	Does the port require tankers and gas carriers to be escorted by tugs?	.,
2 2.14	If 'Yes', state whether Active or Passive escort is employed and the maximum towline force that the tug is able to generate Additional comments or information	Yes ACTIVE ESCORT MAXIMUM TOWLINE FORCE: 85 MT N/A
3	Water Depth Alongside	
3.1 1 2 3	Minimum controlled water depth alongside berth at chart datum Water depth State datum used If 'Other' specify datum	14.40 Metres Chart Datum (CD)
3.2	Date of latest survey from which alongside depth has been determined	27 November 2008
3.3	Date next survey is due	15 January 2020
3.4 1 2 3	Minimum static under keel clearance (UKC) alongside berth Value Percentage Specify other UKC criterion where applicable	3.15 Meters 21.80 Vessel static draft THE RESTRICTION IS VESSEL'S DRAFT (11.25 METERS)
3.5 1 2 3	State range of water densities at berth From To Further details	1025.00 1025.00 BERTH IS IN OPEN WATER

3.6	Type of bottom alongside berth	
1	If IOther ledence are sife.	Sand
2	If 'Other' please specify	
3.7	Absolute maximum draft alongside, if applicable	11.25
3.8	State maximum tidal range at berth, if applicable	0.20
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	N/A
4	Limiting Vessel Dimensions	
4.1	Summer deadweight	
1	TPQ NA Selector	0.0014
2	Minimum Maximum	0.00 Metric Tonnes 40000.00 Metric Tonnes
		40000.00 Wethe formes
4.2	Berthing displacement TPQ NA Selector	
2	Minimum	0.00 Metric Tonnes
3	Maximum	55000.00 Metric Tonnes
4.3	Alongside displacement	
1	TPQ NA Selector	
2	Minimum	0.00 Metric Tonnes
3	Maximum	55000.00 Metric Tonnes
4.4	State any deadweight/displacement exceptions	
1	TPQ NA Selector	Not applicable
2		
4.5	Cubic capacity (gas carriers)	
1 2	TPQ NA Selector Minimum	0.00 Cubic metres
3	Maximum	8500.00 Cubic metres
4.6		
4.6	Length over all (LOA) TPQ NA Selector	
2	Minimum	85.00 Metres
3	Maximum	230.00 Metres
4.7	Beam	
1	TPQ NA Selector	No restrictions
2	Minimum	
3	Maximum	

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4.8 1 2	Minimum parallel body length (PBL) TPQ NA Selector	Not applicable
4.9 1 2	Minimum PBL forward of manifold TPQ NA Selector	Not applicable
4.10 1 2	Minimum PBL aft of manifold TPQ NA Selector	Not applicable
4.11 1 2 3	Bow to centre of manifold (BCM) TPQ NA Selector Minimum Maximum	43.00 Metres 118.00 Metres
4.12 1 2 3	Stern to centre of manifold (SCM) TPQ NA Selector Minimum Maximum	Not applicable
4.13 1 2 3	Freeboard TPQ NA Selector Minimum Maximum	1.55 Metres 10.75 Metres
4.14 1 2 3 4.15 1 2 3	Manifold height above water TPQ NA Selector Minimum Maximum Manifold to shipside rail distance TPQ NA Selector Minimum Maximum	2.30 Metres 14.30 Metres Not applicable
4.16 1 2 3 4	Height of manifold above deck or drip tray TPQ NA Selector Minimum Maximum Specify whether height is from the deck or the drip tray	Not applicable
4.17 1 2 3	Manifold spacing TPQ NA Selector Minimum Maximum	Not applicable
4.18 1	Maximum air draft alongside TPQ NA Selector	Not applicable

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2		
4.19	Vessel's minimum derrick/crane Safe Working Load (SWL)	
1 2	TPQ NA Selector	Not applicable
4.20	Additional comments or information	N/A
5	Mooring and Berthing Information	
5.1	State availability and specifications of tugs and mooring craft required for berthing and/or unberthing.	IS COMPULSORY USE TUGS DURING BERTHING MANEUVERINGS NAME: CAMBRILS, LENGTH: 29.5 M, BOLLARD PULL: 60 T NAME: GETXO, LENGTH: 29.5 M, BOLLARD PULL: 46 T NAME: POBLET, LENGTH: 29.5 M, BOLLARD PULL: 55 T NAME: GUERNICA, LENGTH: 29.5 M, BOLLARD PULL: 46 T NAME: ROMULO, LENGTH: 33 M, BOLLARD PULL: 85.5 T NAME: REMO, LENGTH: 33 M, BOLLARD PULL:
5.2	Are ship's or tug's lines used?	
1	Ship/Tug	Tug's Lines
2	Comments	Line forward: 1 x 200 meters Bollard Pull: 67,2 MT maximum
5.3	Type of fenders installed at berth	
1	If lOsbani places are sife.	Other
2	. ,	SEYBU 150 H TYPE B
5.4	State orientation of vessel alongside berth	Port Side To
5.5 1	At buoy moorings, state which side hose is normally connected	Not applicable
2	If 'Other' please specify	The applicable
5.6	Minimum mooring arrangement	3 X 2 FORE AND AFT
5.7	Describe any additional mooring requirements	N/A
5.8	Are there any restrictions using wire mooring ropes?	
1		No
2	If 'yes', provide details of restrictions in wire moorings as part of the mooring pattern	
5.9	Are there any restrictions using synthetic mooring ropes?	
2	If 'yes'; provide details of restrictions in synthetic mooring ropes as part of the mooring pattern	No
5.10	Are there any restrictions on using high modulus synthetic mooring ropes?	
1		No

2	If 'yes' provide details	
5.11	Details of any specific mooring equipment required for any vessel utilising the berth	N/A
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.	1 M ABOVE THE WATER
5.13	Details of any shore-provided mooring equipment	N/A
5.14	Are berthing aids provided?	
1		Yes
2	If 'Yes', state type of aids	ELECTRONIC INDICATOR OF: DISTANCE TO FENDERS AND APPROACH VELOCITY
5.15	State allowable speed of approach if applicable	
1		0,20 KNOTS
1		0.20 Knots
5.16	Is a mooring tension monitor fitted?	Yes
5.17	Are mooring hook quick release arrangements provided?	Yes
5.18	Chain stopper requirements	
1	Applicable	No
2		
5.19	Largest ship handled at berth to date	UNKNOWN
5.20	Additional comments or information	N/A
6	Berth Equipment and Facilities	
6.1	Number, type and size of cargo transfer connections	5 CARGO ARMS: - 4 WOODFIELD, 3 OF 12 INCHES AND 1 OF 8 INCHES, - 1 CHIKSAN OF 8 INCHES.
6.2	List grades handled at berth	Crude Oils/Condensates, Black Petroleum Products, Gasoils, Diesels and Kerosenes, Gasolines and Gasoline Blendstocks, Naphtha, Platformate, Raffinate, Reformate, Commercial LPG, Chemical Gases, Biodiesel/Biosiesel Blends, Vegetable Oils

2	State specific grades handled at berth (e.g. Ekofisk crude oil, Unleaded Gasoline, Jet A1).	VGO CRUDE OIL FAME KEROSENE ETHYLENE PROPYLENE NAPHTHA GASOLINE GAS OIL PYGAS FUEL OIL BIA RHC
6.3	State transfer rate restrictions and back pressure for each cargo grade	ETHYLENE: 300 M3/H PROPYLENE: 300 M3/H, BACK PRESSURE: 5 KG/CM2 NAFTA: 2.500 M3/H VGO-RHC: 2.000 M3/H CAR: 2.000 M3/H GASOIL: 2.500 M3/H GASOLINE: 2.500 M3/H FUEL: 1.800 M3/H CRUDE: 3.000 M3/H
6.4	Are transfer connections fitted with insulation flanges?	
1		Yes
2	Provide details	ALL CARGO ARMS
6.5	State storage type for LPG	Pressurised
6.6	Describe any terminal-specific requirements for vessel manifolds	PRODUCTS WITH FLASHPOINT EQUAL TO OR LOWER THAN 60°C, VAPOR RETURN LINE MUST BE CONNECTED.
6.7	Is berth fitted with a vapour manifold connection?	Yes
2	If 'Yes' state type and size of vapour connection	CARGO ARM OF 8 INCHES
3	State cargo types for which it is required to use vapour connection (if applicable)	PRODUCTS WITH FLASHPOINT EQUAL TO OR LOWER THAN 60°C
6.8	State throughput rate(s) of vapour recovery system	900 M3/H
6.9	Are Powered Emergency Release Couplings (PERCS) installed to the cargo transfer arms?	Yes
2	Supply details	CARGO ARM CHIKSAN 121-A
		1- CLOSE THE VALVE 2- ACTIVATE PERC IN BOTH MANIFOLDS LIQUID AND GAS
6.10	Does the berth have an emergency shutdown (ESD) capability that can be activated by the ship?	No
2	If 'yes' provide details	
6.11	Describe access arrangements between ship and shore.	IF POSSIBLE SHORE GANGWAY

6.12	Does the berth have pollution response equipment?	
2	If 'yes' provide details	Yes Containment boom(s), skimming equipment, absorbent materials and dispersant stocks.
6.13	Additional comments or information	N/A
7	Berth Operations	
7.1	What is the primary and backup communication system between ship and terminal during cargo operations?	PRIMARY: VERBAL, BY VOICE WITH THE JETTY MAN BACK UP: VHF CH-10
7.2	Is it required that terminal or shore representatives stay on board during operations?	Na
1 2	If 'Yes', state requirements including number of persons and their roles	No
7.3	Specify weather/environmental restrictions for stopping cargo operations, disconnecting hoses or arms and vacating the berth?	STOPPING CARGO OPERATIONS: 30 KNOTS WIND SPEED DISCONNECTING HOSES: 35 KNOTS WIND SPEED VACATING THE BERTH: 40 KNOTS WIND SPEED
7.4	Are there any restrictions regarding tank cleaning/Crude Oil Washing (COW) operations at the berth?	
1	If 'Yes' provide full details of these restrictions	No
7.5	Are there any berth specific requirements regarding tanker inerting procedures?	Waa
2	If 'Yes', state requirements	Yes ALL THE VESSELS OPERATE PRODUCTS WITH FLASH POINT EQUAL TO OR LOWER THAN 60°C, THE LOADING OR DISCHARGING OPERATION WILL BE CARRIED OUT ON TANKS WITH INERT ATMOSPHERE.
7.6	Is there a temperature limit for cargo handled?	
1	If Novel about a superior limite	Yes
7.7	If 'Yes', state temperature limits Is it permitted for vessels to undertake double-banked operations alongside the	-103 ºC
	berth?	
1 2	If 'Yes', state limiting criteria	No
7.8	Is vessel required to pump water ashore or receive water on board for line	
1	clearance purposes?	No
2	If 'Yes', provide operational details	-
7.9	Can the berth be used for Ship-to-Ship transfers using terminal facilities?	Yes

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2	Provide details	ONLY FOR SLUDGES, AND NEVER SIMULTANOUSLY WITH LOADING OR DISCHARGING LIGHT PRODUCTS OPERATIONS.
7.10	State details regarding any environmental restrictions applicable at the berth	EMISSIONS OF CARGO VAPOURS, INERT GAS OR ENGINE SMOKE IS NOT PERMITTED.
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	STORES ALONGSIDE ARE FORBIDDEN
7.14	Additional comments or information	N/A
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		Yes
2	If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck)	BY HOSES OF THE VESSEL
8.5	Are slop reception facilities available?	
1		Yes
2	If 'Yes', state how received (e.g. Ex-Pipe, barge, truck)	PIPE
3	State capacity of slop reception facilities (if applicable)	6000.00 Cubic metres
4	State any specific exclusions for slop receipts (e.g. chemicals, detergents, cleaning agents)	N/A
8.6	Are dirty ballast reception facilities available?	
1		No
2	If 'Yes', state how received	
3	State capacity of dirty ballast receiption facilities	
8.7	Are engine room sludge and bilge reception facilities available?	

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1		Yes
2	If 'Yes', state how received (e.g. Ex-pipe, barge, truck)	BARGE
8.8	Are garbage reception facilities available at the berth.	
1		Yes
2	If 'Yes', provide details	BARGE
8.9	Additional comments or information	N/A
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		
2	If 'Yes' provide details and specify how they can be requested	
9.9	Are there icebreakers available to operate in the terminal area	
2	Specify details (e.g. Name/IMO Nr/GRT/Power/Ice Class)	
9.10 1	Does the terminal have ice-capable tugs and support craft	
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	
1	manoeuvrability characteristics in ice?	
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)

												78	3b5a7e	ec3ad2
2	If 'Other' please sp	ecify other												
10.3	Berth height above	datum						9	.60					
10.4	Berth heading							1	33					
10.5	Width of the chann	el adjacent to	the berth					8	00.00)				
10.6	Position of mooring	; bollards and	hooks											
		Hook/Bol Number a			dist to Target e (m)	-	dist to nder F	ace (m)	Heig	ht (m)	SW	L (tonn	es)	
		M-10		146	5.25	18.	.00		8.00		100	0.00		
		M-12		86.	25	18.	.00		8.00		60.	00		
		B-10		38.	50	1.0	00		5.00		60.	00		
		B-16		-38	3.50	1.0	00		5.00		60.	00		
		M-14		-86	.25	18.	.00		8.00		60.	00		
		M-16		-14	6.25	18.	.00		8.00		100	0.00		
10.7	Position of mooring	buoys												
10.8	Fender Location													
		Fender ID Number	'x' Dist to Target Lin (m)		Elevation of Fenders (m)			Fender Height (m)	Fender Contact Area (m2)				
		B-10	38.50		-0.32	4.16		3.76		11.25				
		B-12	17.00	(0.00	3.06		3.12		6.20				
		B-14	-17.00	(0.00	3.06		3.12		6.20				
		B-16	-38.50	-	-0.32	4.16		3.76		11.25				
10.9	Fender Reaction Da	ta												
		Fender Id	Number	Poi	nt No.		mpres etres)		Load	l (tonnes)				
		B-10		1		2.1	LO		60.0	0				
		B-12		2		2.1	LO		30.0	0				
		B-14		2		2.1			30.0					
		B-16		1		2.1	LO		60.0	0				
10.10	Fender friction coef	ficient (µ)						0	.50					
10.11	State identity and h	orizontal pos	ition of load	ding	garms									
		Loading Arm/Shore Connection ID Number		te d	Horizontal co-ordinate Y	Max Excursion Surge	on	Max Excursic Sway	n	Max Excursion Heave				
		BC-7	7.00	(6.00									
		BC-8	7.00	3	3.00									
		BC-121B	7.00		0.10									
		BC-10	7.00	•	-3.00									

10.12 State loading arm operating limits

BC-11

7.00

-6.00

		Loading Arm ID Number	Max Op Height	Min Op Height	Max Excursion Surge	Max Excursion Sway	Max Excursion Heave
		7	14.30	2.30			
		8	14.30	2.30			
		121-B	14.30	2.30			
		10	14.30	2.30			
		11	14.30	2.30			
10.13	Additional commer	nts or inform	ation			N/A	



Oil Companies International Marine Forum MTIS Programme Berth TPQ

Berth TPQ: 35T

ReportName c1e3107a-051d-43e1-b867-7d852cbdebfb

Terminal Name: PANTALÁN DE REPSOL TARRAGONA

Terminal Port: PANTALÁN DE REPSOL PETRÓLEO TARRAGONA
Terminal Port Authority: PORT AUTHORITY OF TARRAGONA

Country: SPAIN

Berth Name: 35T

1		Berth General	
1.1		Berth name or number	35T
1.2	1 2	Berth type If 'Other' please specify	Jetty - 'T' finger
1.3	1 2	Terrestrial co-ordinates of manifold centreline Latitude Longitude Berth users for liquid and gas cargoes	410515 North 0011220 East REPSOL PETROLEO
		beran asers for inquia and gas cargoes	REPSOL QUIMICA DOW
1.5	1	Has a structural survey of the berth been undertaken, including its underwater structure?	Yes
	2	If 'Yes', state date of last survey	15 June 2009
1.6	1	Has an engineering (mooring and fendering) analysis of berth been undertaken?	Yes
	2	If 'Yes', state date of last analysis	15 June 2009
1.7		Additional comments or information	N/A
2		Berth Approaches	
2.1	1	Is pilotage compulsory?	Yes
	2	If 'Yes', state if any vessels are exempted	NO
2.2		State distance from pilot station(s) to berth	1.5 NM
2.3	1	Is a waiting anchorage available?	Yes
	3	If 'Yes', state distance from waiting anchorage to berth	3 NM
2.4	1 2 3	Controlling depth of water for transit to and from berth Water depth State datum used If 'Other' please specify datum	14.40 Metres Chart Datum (CD)
2.5		Date of latest survey from which transit depth has been determined	01 November 2008
2.6		Date next survey is due	15 January 2020
2.7		State Maximum Tidal Range in berth approaches	0.20
2.8	1 2	Is laden transit to and/or from the berth conducted using the tide? If 'Yes', state optimum transit window (i.e. at High Water, HW +/- 1 hr)	No

2.9	State details of any specific berthing and/or unberthing restrictions	WEATHER RESTRICTIONS DAYTIME: WIND SPEED: 40 KNOTS MAXIMUM WAVE HEIGHT: 2 METERS MAXIMUM WEATHER RESTRICTIONS NIGHTTIME: WIND SPEED: 15 KNOTS MAXIMUM WAVE HEIGHT: 0,8 METERS MAXIMUM NO NIGHT TIME BERTHING PERMITTED FOR VESSEL MORE THAN 200 METERS OF LENGTH OVER ALL
2.10 1 2 3	Minimum under keel clearance (UKC) in berth approaches Value Percentage Specify other UKC criterion where applicable	3.20 Meters 21.80 Vessel static draft THE RESTRICTION IS VESSEL'S DRAFT
2.11	Absolute maximum draught in berth approaches, if applicable	11.25
2.12 1 2 3	State minimum vertical clearance of any bridges/power cables/vertical obstructions Vertical clearance State datum used If 'Other' specify other datum used	999.00 Metres Chart Datum (CD)
4	Further details	N/A
2.13 1 2 2.14	Does the port require tankers and gas carriers to be escorted by tugs? If 'Yes', state whether Active or Passive escort is employed and the maximum towline force that the tug is able to generate Additional comments or information	Yes ACTIVE ESCORT MAXIMUM TOWLINE FORCE: 85 MT N/A
3	Water Depth Alongside	
3.1 1 2 3	Minimum controlled water depth alongside berth at chart datum Water depth State datum used If 'Other' specify datum	14.40 Metres Chart Datum (CD)
3.2	Date of latest survey from which alongside depth has been determined	27 November 2008
3.3	Date next survey is due	15 January 2020
3.4 1 2 3	Minimum static under keel clearance (UKC) alongside berth Value Percentage Specify other UKC criterion where applicable	3.15 Meters 21.80 Vessel static draft THE RESTRICTION IS VESSEL'S DRAFT (11.25 METERS)
3.5 1 2 3	State range of water densities at berth From To Further details	1025.00 1025.00 BERTH IS IN OPEN WATER

			740320040010
3.6	Type of bottom alongside berth	Sand	
2	If 'Other' please specify	Sund	
3.7	Absolute maximum draft alongside, if applicable	11.25	
3.8	State maximum tidal range at berth, if applicable	0.20	
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 2	Provide details	No	
3.11	Additional comments or information	N/A	
3.11	Additional comments of information	IV/A	
4	Limiting Vessel Dimensions		
4.1	Summer deadweight		
1 2	TPQ NA Selector Minimum	0.00 Metric Tonnes	
3	Maximum	40000.00 Metric Tonnes	
4.2	Berthing displacement		
1	TPQ NA Selector		
2	Minimum	0.00 Metric Tonnes	
3	Maximum	55000.00 Metric Tonnes	
4.3	Alongside displacement TPQ NA Selector		
2	Minimum	0.00 Metric Tonnes	
3	Maximum	55000.00 Metric Tonnes	
4.4	State any deadweight/displacement exceptions		
1 2	TPQ NA Selector	Not applicable	
4.5	Cubic conscitu (cos corriero)		
4.5	Cubic capacity (gas carriers) TPQ NA Selector		
2	Minimum	0.00 Cubic metres	
3	Maximum	8500.00 Cubic metres	
4.6	Length over all (LOA)		
1 2	TPQ NA Selector Minimum	85.00 Metres	
3	Maximum	230.00 Metres	
4.7	Beam		
1	TPQ NA Selector	No restrictions	
2	Minimum		
3	Maximum		

		/d852cbdebtb
4.8	Minimum parallel body length (PBL) TPQ NA Selector	Not applicable
4.9 1 2	Minimum PBL forward of manifold TPQ NA Selector	Not applicable
4.10 1 2	Minimum PBL aft of manifold TPQ NA Selector	Not applicable
4.11 1 2 3 4.12 1 2	Bow to centre of manifold (BCM) TPQ NA Selector Minimum Maximum Stern to centre of manifold (SCM) TPQ NA Selector Minimum	43.00 Metres 118.00 Metres Not applicable
3 4.13 1 2 3	Maximum Freeboard TPQ NA Selector Minimum Maximum	1.55 Metres 10.75 Metres
4.14 1 2 3	Manifold height above water TPQ NA Selector Minimum Maximum	2.30 Metres 14.30 Metres
4.15 1 2 3	Manifold to shipside rail distance TPQ NA Selector Minimum Maximum	Not applicable
4.16 1 2 3 4	Height of manifold above deck or drip tray TPQ NA Selector Minimum Maximum Specify whether height is from the deck or the drip tray	Not applicable
4.17 1 2 3	Manifold spacing TPQ NA Selector Minimum Maximum	Not applicable
4.18 1	Maximum air draft alongside TPQ NA Selector	Not applicable

		/d852cbdebtb
2		
4.19	Vessel's minimum derrick/crane Safe Working Load (SWL)	
1 2	TPQ NA Selector	Not applicable
4.20	Additional comments or information	N/A
5	Mooring and Berthing Information	
5.1	State availability and specifications of tugs and mooring craft required for berthing and/or unberthing.	IS COMPULSORY USE TUGS DURING BERTHING MANEUVERINGS NAME: CAMBRILS, LENGTH: 29.5 M, BOLLARD PULL: 60 T NAME: GETXO, LENGTH: 29.5 M, BOLLARD PULL: 46 T NAME: POBLET, LENGTH: 29.5 M, BOLLARD PULL: 55 T NAME: GUERNICA, LENGTH: 29.5 M, BOLLARD PULL: 46 T NAME: ROMULO, LENGTH: 33 M, BOLLARD PULL: 85.5 T NAME: REMO, LENGTH: 33 M, BOLLARD PULL: 85.5 T
5.2	Are ship's or tug's lines used?	
1	Ship/Tug	Tug's Lines
2	Comments	Line forward: 1 x 200 meters Bollard Pull: 67,2 MT maximum
5.3	Type of fenders installed at berth	
1		Other
2	If 'Other' please specify	SEYBU 150 H TYPE B
5.4	State orientation of vessel alongside berth	Starboard Side To
5.5	At buoy moorings, state which side hose is normally connected	New control le
1 2	If 'Other' please specify	Not applicable
5.6	Minimum mooring arrangement	3 X 2 FORE AND AFT
5.7	Describe any additional mooring requirements	N/A
5.8	Are there any restrictions using wire mooring ropes?	N/A
J.8 1	Are there any restrictions using wire mooning ropes:	No
2	If 'yes', provide details of restrictions in wire moorings as part of the mooring pattern	
5.9	Are there any restrictions using synthetic mooring ropes?	
1 2	If 'yes'; provide details of restrictions in synthetic mooring ropes as part of the mooring pattern	No
5.10	Are there any restrictions on using high modulus synthetic mooring ropes?	
1		No

2	If 'yes' provide details	
5.11	Details of any specific mooring equipment required for any vessel utilising the berth	N/A
5.12	Does the terminal require the vessel to rig Emergency Towing Off Pennants (ETOPs) while at the berth?	Yes
2	If 'Yes', provide details of particular requirements regarding ETOPs.	1 M ABOVE THE WATER
5.13	Details of any shore-provided mooring equipment	N/A
5.14 1 2	Are berthing aids provided? If 'Yes', state type of aids	Yes ELECTRONIC INDICATOR OF: DISTANCE TO FENDERS AND APPROACH VELOCITY
5.15 1 1	State allowable speed of approach if applicable	0,20 KNOTS 0.20 Knots
5.16	Is a mooring tension monitor fitted?	Yes
5.17	Are mooring hook quick release arrangements provided?	Yes
5.18 1 2	Chain stopper requirements Applicable	No
5.19	Largest ship handled at berth to date	UNKNOWN
5.20	Additional comments or information	N/A
6	Berth Equipment and Facilities	
6.1	Number, type and size of cargo transfer connections	5 CARGO ARMS: - 4 WOODFIELD, 2 OF 12 INCHES AND 2 OF 10 INCHES, - 1 CHIKSAN OF 8 INCHES.
6.2	List grades handled at berth	Crude Oils/Condensates, Black Petroleum Products, Gasoils, Diesels and Kerosenes, Gasolines and Gasoline Blendstocks, Naphtha, Platformate, Raffinate, Reformate, Commercial LPG, Chemical Gases, Biodiesel/Biosiesel Blends, Vegetable Oils
2	State specific grades handled at berth (e.g. Ekofisk crude oil, Unleaded Gasoline, Jet A1).	VGO FAME KEROSENE ETHYLENE PROPYLENE NAPHTHA GASOLINE GAS OIL PYGAS FUEL OIL BIA RHC

6.3	State transfer rate restrictions and back pressure for each cargo grade	ETHYLENE: 300 M3/H PROPYLENE: 300 M3/H, BACK PRESSURE: 5 KG/CM2 NAFTA: 2.500 M3/H VGO-RHC: 2.000 M3/H CAR: 2.000 M3/H GASOIL: 2.500 M3/H GASOLINE: 2.500 M3/H FUEL: 1.800 M3/H CRUDE: 3.000 M3/H
6.4	Are transfer connections fitted with insulation flanges?	
1		Yes
2	Provide details	ALL CARGO ARMS
6.5	State storage type for LPG	Pressurised
6.6	Describe any terminal-specific requirements for vessel manifolds	PRODUCTS WITH FLASHPOINT EQUAL TO OR LOWER THAN 60°C, VAPOR RETURN LINE MUST BE CONNECTED.
6.7	Is berth fitted with a vapour manifold connection?	
1		Yes
2	If 'Yes' state type and size of vapour connection	CARGO ARM OF 10 INCHES
3	State cargo types for which it is required to use vapour connection (if applicable)	PRODUCTS WITH FLASHPOINT EQUAL TO OR LOWER THAN 60°C
6.8	State throughput rate(s) of vapour recovery system	900 M3/H
6.9	Are Powered Emergency Release Couplings (PERCS) installed to the cargo transfer arms?	Yes
1 2	Supply details	CARGO ARM CHIKSAN 121-B
_	Supply details	1- CLOSE THE VALVE 2- ACTIVATE PERC IN BOTH MANIFOLDS LIQUID AND GAS
6.10	Does the berth have an emergency shutdown (ESD) capability that can be activated by the ship?	
1	activated by the ship:	No
2	If 'yes' provide details	
6.11	Describe access arrangements between ship and shore.	IF POSSIBLE, SHORE GANGWAY
6.12	Does the berth have pollution response equipment?	
1		Yes
2	If 'yes' provide details	Containment boom(s), skimming equipment, absorbent materials and dispersant stocks.
6.13	Additional comments or information	N/A
7	Berth Operations	
7.1	What is the primary and backup communication system between ship and terminal during cargo operations?	PRIMARY: VERBAL, BY VOICE WITH THE JETTY MAN BACK UP: VHF CH-10

7.2	1	Is it required that terminal or shore representatives stay on board during operations?	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?	STOPPING CARGO OPERATIONS: 30 KNOTS WIND SPEED DISCONNECTING HOSES: 35 KNOTS WIND SPEED VACATING THE BERTH: 40 KNOTS WIND SPEED
7.4	1	Are there any restrictions regarding tank cleaning/Crude Oil Washing (COW) operations at the berth?	No
	2	If 'Yes' provide full details of these restrictions	
7.5		Are there any berth specific requirements regarding tanker inerting procedures?	
	2	If 'Yes', state requirements	Yes ALL THE VESSELS OPERATE PRODUCTS WITH FLASH POINT EQUAL TO OR LOWER THAN 60°C, THE LOADING OR DISCHARGING OPERATION WILL BE CARRIED OUT ON TANKS WITH INERT ATMOSPHERE.
7.6		Is there a temperature limit for cargo handled?	
	1		Yes
	2	If 'Yes', state temperature limits	-103 ºC
7.7	1	Is it permitted for vessels to undertake double-banked operations alongside the berth?	No
	2	If 'Yes', state limiting criteria	
7.8	1 2	Is vessel required to pump water ashore or receive water on board for line clearance purposes? If 'Yes', provide operational details	No
7.9		Can the berth be used for Ship-to-Ship transfers using terminal facilities?	
7.5	1 2	Provide details	Yes ONLY FOR SLUDGES, AND NEVER SIMULTANOUSLY WITH LOADING OR DISCHARGING LIGHT PRODUCTS OPERATIONS.
7.10)	State details regarding any environmental restrictions applicable at the berth	EMISSIONS OF CARGO VAPOURS, INERT GAS OR ENGINE SMOKE IS NOT PERMITTED.
7.11	1 2	Are there any restrictions regarding Hydrogen Sulphide content in Cargo Tanks? If 'Yes', state restriction	No
7.12	2	Are there any restrictions regarding Mercaptan content in Cargo Tanks?	No

9.1

winter season?

		7d852cbdebfb
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	STORES ALONGSIDE ARE FORBIDDEN
7.14	Additional comments or information	N/A
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		Yes
2	If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck)	BY HOSES OF THE VESSEL
8.5	Are slop reception facilities available?	
1		Yes
2	If 'Yes', state how received (e.g. Ex-Pipe, barge, truck)	PIPE
3	State capacity of slop reception facilities (if applicable) State any specific exclusions for slop receipts (e.g. chemicals, detergents,	6000.00 Cubic metres N/A
4	cleaning agents)	NA
8.6	Are dirty ballast reception facilities available?	
1		No
2	If 'Yes', state how received	
3	State capacity of dirty ballast receiption facilities	
8.7	Are engine room sludge and bilge reception facilities available?	
1		Yes
2	If 'Yes', state how received (e.g. Ex-pipe, barge, truck)	BARGE
8.8	Are garbage reception facilities available at the berth.	
1		Yes
2	If 'Yes', provide details	BARGE
8.9	Additional comments or information	N/A
9	Berth Low Temperature Impact	

What is the typical range of temperatures the terminal operates in during a

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 1	Does the terminal have its own resources for conducting icebreaker escort	
2	If 'Yes' provide details and specify how they can be requested	
9.9	Are there icebreakers available to operate in the terminal area	
2	Specify details (e.g. Name/IMO Nr/GRT/Power/Ice Class)	
9.10 1	Does the terminal have ice-capable tugs and support craft	
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?	
2	If 'Yes', provide details	
9.12 1	Does the terminal provide its own ice navigator/advisor?	
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	Chart Datum (CD)
2	If 'Other' please specify other	
10.3	Berth height above datum	9.60
10.4	Berth heading	133
10.5	Width of the channel adjacent to the berth	550.00
10.6	Position of mooring bollards and hooks	

		Hook/Bol Number a		'x' dist to Targe Line (m)	-	to Face (m)	Heig	ght (m)	SWL (tonnes)
		M-11		146.25	18.00		8.00)	100.00
		M-13		86.25	18.00		8.00)	60.00
		B-9		38.50	1.00		5.00)	60.00
		B-15		-38.50	1.00		5.00)	60.00
		M-15		-86.25	18.00		8.00)	60.00
		M-17		-146.25	18.00		8.00)	60.00
10.7	Position of mooring	g buoys							
10.8	Fender Location								
		Fender ID Number	'x' Dist to Target Line (m)	Elevation of Fenders (m)		Fender Height ((m)	Fender Contact Area (m2)	
		B-9	38.50	-0.32	4.16	3.76		11.25	
		B-11	17.00	0.00	3.06	3.12		6.20	
		B-13	-17.00	0.00	3.06	3.12		6.20	
		B-15	-38.50	-0.32	4.16	3.76		11.25	
10.9	Fender Reaction Da	ata							
		Fender Id	Number	Point No.	Compre (metres		Load	d (tonnes)	
		B-9		1	2.10		60.0	00	
		B-11		2	2.10		30.0	00	
		B-13		2	2.10		30.0	00	
		B-15		1	2.10		60.0	00	
10.10	Fender friction coe	fficient (μ)				0	.50		
10.11	State identity and h	norizontal pos	ition of load	ling arms					
		Loading Arm/Shore Connection ID Number		Horizontal e co-ordinate Y	Max Excursion Surge	Max Excursion Sway	on	Max Excursion Heave	
		BC-12	7.00	6.00					
		BC-13	7.00	3.00					
		BC-121A	7.00	0.10					
		BC-15	7.00	-3.00					
		BC-16	7.00	-6.00					
10.12	State loading arm o	perating limit	S						
		Loading Arm ID Number	Max Op Height	Min Op Height	Max Excursion Surge	Max Excursio Sway	on	Max Excursion Heave	
		12	14.30	2.30					
		13	14.30	2.30					
		121-A	14.30	2.30					
		15	14.30	2.30					
		16	14.30	2.30					

10.13 Additional comments or information

N/A



Oil Companies International Marine Forum MTIS Programme Berth TPQ

Berth TPQ: 80S

ReportName 9826e979-f5aa-4b19-babd-ad1df102ce4e

Terminal Name: PANTALÁN DE REPSOL TARRAGONA

Terminal Port: PANTALÁN DE REPSOL PETRÓLEO TARRAGONA
Terminal Port Authority: PORT AUTHORITY OF TARRAGONA

Country: SPAIN

Berth Name: 80S

1 Berth General

1.1		Berth name or number	80S
1.2		Berth type	
	1		Jetty - 'T' finger
	2	If 'Other' please specify	
1.3		Terrestrial co-ordinates of manifold centreline	
	1	Latitude Longitude	410499 North 0011234 East
1.4	_	Berth users for liquid and gas cargoes	REPSOL PETROLEO
1.7		berth users for liquid und gus cargoes	REPSOL QUIMICA DOW
1.5		Has a structural survey of the berth been undertaken, including its underwater structure?	
	1		Yes
	2	If 'Yes', state date of last survey	15 June 2009
1.6		Has an engineering (mooring and fendering) analysis of berth been undertaken?	
	1		Yes
	2	If 'Yes', state date of last analysis	15 June 2009
1.7		Additional comments or information	N/A
2		Berth Approaches	
2.1		Is pilotage compulsory?	
	1	If 'Yes', state if any vessels are exempted	Yes NO
2.2	2		1.5 NM
		State distance from pilot station(s) to berth	1.5 INIVI
2.3	1	Is a waiting anchorage available?	Yes
	3	If 'Yes', state distance from waiting anchorage to berth	3 NM
2.4		Controlling depth of water for transit to and from berth	
	1	Water depth	18.00 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 November 2008
2.6		Date next survey is due	15 January 2020
2.7		State Maximum Tidal Range in berth approaches	0.20
2.8		Is laden transit to and/or from the berth conducted using the tide?	
	1	If 'Yes', state optimum transit window (i.e. at High Water, HW +/- 1 hr)	No

2.9	State details of any specific berthing and/or unberthing restrictions	WEATHER RESTRICTIONS DAYTIME: WIND SPEED: 40 KNOTS MAXIMUM WAVE HEIGHT: 2,5 METERS MAXIMUM WEATHER RESTRICTIONS NIGHTTIME: WIND SPEED: 15 KNOTS MAXIMUM WAVE HEIGHT: 0,8 METERS MAXIMUM NO NIGHT TIME BERTHING PERMITTED FOR VESSEL MORE THAN 200 METERS OF LENGTH OVER ALL
2.10 1 2 3	Minimum under keel clearance (UKC) in berth approaches Value Percentage Specify other UKC criterion where applicable	3.30 Meters 18.00 Vessel static draft THE RESTRICTION IS VESSEL'S DRAFT
2.11	Absolute maximum draught in berth approaches, if applicable	14.75
2.12 1 2 3 4	State minimum vertical clearance of any bridges/power cables/vertical obstructions Vertical clearance State datum used If 'Other' specify other datum used Further details	999.00 Metres Chart Datum (CD) N/A
2.13	Does the port require tankers and gas carriers to be escorted by tugs?	.,
2 2.14	If 'Yes', state whether Active or Passive escort is employed and the maximum towline force that the tug is able to generate Additional comments or information	Yes ACTIVE ESCORT MAXIMUM TOWLINE FORCE: 85 MT N/A
3	Water Depth Alongside	
3.1 1 2 3	Minimum controlled water depth alongside berth at chart datum Water depth State datum used If 'Other' specify datum	18.00 Metres Chart Datum (CD)
3.2	Date of latest survey from which alongside depth has been determined	27 November 2008
3.3	Date next survey is due	15 January 2020
3.4 1 2 3	Minimum static under keel clearance (UKC) alongside berth Value Percentage Specify other UKC criterion where applicable	3.25 Meters 18.00 Vessel static draft THE RESTRICTION IS VESSEL'S DRAFT (14.75 METERS)
3.5 1 2 3	State range of water densities at berth From To Further details	1025.00 1025.00 BERTH IS IN OPEN WATER

3.6	Type of bottom alongside berth	
1 2	If 'Other' please specify	Sand
3.7	Absolute maximum draft alongside, if applicable	14.75
3.8	State maximum tidal range at berth, if applicable	0.20
3.9	Are 'over-the-tide' cargo handling operations permitted at the berth?	No
3.10	Does the berth location experience water-level anomalies?	No
1 2	Provide details	No
3.11	Additional comments or information	N/A
3.11	Additional comments of information	19/74
4	Limiting Vessel Dimensions	
4.1	Summer deadweight	
1	TPQ NA Selector	0.0014
2	Minimum Maximum	0.00 Metric Tonnes 100000.00 Metric Tonnes
		100000.00 Wethe Tollies
4.2	Berthing displacement TPQ NA Selector	
2	Minimum	0.00 Metric Tonnes
3	Maximum	135000.00 Metric Tonnes
4.3	Alongside displacement	
1	TPQ NA Selector	
2	Minimum	0.00 Metric Tonnes
3	Maximum	135000.00 Metric Tonnes
4.4	State any deadweight/displacement exceptions	
1	TPQ NA Selector	Not applicable
2		
4.5	Cubic capacity (gas carriers)	
1	TPQ NA Selector	Not applicable
2	Minimum	
3	Maximum	
4.6	Length over all (LOA) TPQ NA Selector	
2	Minimum	140.00 Metres
3	Maximum	290.00 Metres
4.7	Beam	
1	TPQ NA Selector	No restrictions
2	Minimum	
3	Maximum	

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4.8 1 2	Minimum parallel body length (PBL) TPQ NA Selector	Not applicable	
4.9 1 2	Minimum PBL forward of manifold TPQ NA Selector	Not applicable	
4.10 1 2	Minimum PBL aft of manifold TPQ NA Selector	Not applicable	
4.11 1 2 3	Bow to centre of manifold (BCM) TPQ NA Selector Minimum Maximum	70.00 Metres 148.00 Metres	
4.12 1 2 3	Stern to centre of manifold (SCM) TPQ NA Selector Minimum Maximum	Not applicable	
4.13 1 2 3	Freeboard TPQ NA Selector Minimum Maximum	2.00 Metres 13.90 Metres	
4.14 1 2 3	Manifold height above water TPQ NA Selector Minimum Maximum	3.20 Metres 16.80 Metres	
4.15 1 2 3	Manifold to shipside rail distance TPQ NA Selector Minimum Maximum	Not applicable	
4.16 1 2 3 4	Height of manifold above deck or drip tray TPQ NA Selector Minimum Maximum Specify whether height is from the deck or the drip tray	Not applicable	
4.17 1 2 3	Manifold spacing TPQ NA Selector Minimum Maximum	Not applicable	
4.18	Maximum air draft alongside TPQ NA Selector	Not applicable	

2		
4.19 1 2	Vessel's minimum derrick/crane Safe Working Load (SWL) TPQ NA Selector	Not applicable
4.20	Additional comments or information	N/A
5	Mooring and Berthing Information	
5.1	State availability and specifications of tugs and mooring craft required for berthing and/or unberthing.	IS COMPULSORY USE TUGS DURING BERTHING MANEUVERINGS NAME: CAMBRILS, LENGTH: 29.5 M, BOLLARD PULL: 60 T NAME: GETXO, LENGTH: 29.5 M, BOLLARD PULL: 46 T NAME: POBLET, LENGTH: 29.5 M, BOLLARD PULL: 55 T NAME: GUERNICA, LENGTH: 29.5 M, BOLLARD PULL: 46 T NAME: ROMULO, LENGTH: 33 M, BOLLARD PULL: 85.5 T NAME: REMO, LENGTH: 33 M, BOLLARD PULL:
5.2	Are ship's or tug's lines used?	
1	Ship/Tug	Tug's Lines
2	Comments	Line forward: 1 x 200 meters Bollard Pull: 67,2 MT maximum
5.3	Type of fenders installed at berth	
1		Other
2	If 'Other' please specify	SEYBU 150 H TYPE B
5.4	State orientation of vessel alongside berth	Port Side To
5.5	At buoy moorings, state which side hose is normally connected	
1		Not applicable
2	If 'Other' please specify	
5.6	Minimum mooring arrangement	4 X 2 FORE AND AFT
5.7	Describe any additional mooring requirements	N/A
5.8	Are there any restrictions using wire mooring ropes?	
1		No
2	If 'yes', provide details of restrictions in wire moorings as part of the mooring pattern	
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	
5.10	Are there any restrictions on using high modulus synthetic mooring ropes?	
1		No

2	If 'yes' provide details	
5.11	Details of any specific mooring equipment required for any vessel utilising the berth	N/A
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.	1 M ABOVE THE WATER
5.13	Details of any shore-provided mooring equipment	N/A
5.14	Are berthing aids provided?	
1		Yes
2	If 'Yes', state type of aids	ELECTRONIC INDICATOR OF: DISTANCE TO FENDERS AND APPROACH VELOCITY
5.15	State allowable speed of approach if applicable	
1		0,20 KNOTS
1		0.20 Knots
5.16	Is a mooring tension monitor fitted?	Yes
5.17	Are mooring hook quick release arrangements provided?	Yes
5.18	Chain stopper requirements	
1	Applicable	No
2		
5.19	Largest ship handled at berth to date	UNKNOWN
5.20	Additional comments or information	N/A
6	Berth Equipment and Facilities	
6.1	Number, type and size of cargo transfer connections	4 CARGO ARMS: - 4 CARGO ARMS WOODFIELD OF 12 INCHES.
2	State specific grades handled at berth (e.g. Ekofisk crude oil, Unleaded Gasoline, Jet A1).	Crude Oils/Condensates, Black Petroleum Products, Heavy Distillates, Gasoils, Diesels and Kerosenes, Naphtha, Platformate, Raffinate, Reformate, Vegetable Oils CRUDE OIL KEROSENE NAPHTHA GAS OIL FUEL OIL BIA RHC VGO FAME

6.3	State transfer rate restrictions and back pressure for each cargo grade	NAFTA: 2.500 M3/H VGO-RHC: 2.000 M3/H GASOIL: 2.500 M3/H KEROSENE: 1.600 M3/H FUEL: 1.800 M3/H CRUDE I: 9.000 M3/H CRUDE II: 4.800 M3/H
6.4 1 2	Are transfer connections fitted with insulation flanges? Provide details	Yes ALL CARGO ARMS
6.5	State storage type for LPG	Not applicable
6.6	Describe any terminal-specific requirements for vessel manifolds	N/A
6.7 1 2 3	Is berth fitted with a vapour manifold connection? If 'Yes' state type and size of vapour connection State cargo types for which it is required to use vapour connection (if applicable)	No
6.8	State throughput rate(s) of vapour recovery system	N/A
6.9 1 2	Are Powered Emergency Release Couplings (PERCS) installed to the cargo transfer arms? Supply details	No
6.10 1 2	Does the berth have an emergency shutdown (ESD) capability that can be activated by the ship? If 'yes' provide details	No
6.11	Describe access arrangements between ship and shore.	IF POSSIBLE, SHORE GANGWAY
6.12 1 2	Does the berth have pollution response equipment? If 'yes' provide details	Yes Containment boom(s), skimming equipment, absorbent materials and dispersant stocks.
6.13	Additional comments or information	N/A
7	Berth Operations	
7.1	What is the primary and backup communication system between ship and terminal during cargo operations?	PRIMARY: VERBAL, BY VOICE WITH THE JETTY MAN BACK UP: VHF CH-10
7.2 1 2	Is it required that terminal or shore representatives stay on board during operations? If 'Yes', state requirements including number of persons and their roles	No

7.3	Specify weather/environmental restrictions for stopping cargo operations, disconnecting hoses or arms and vacating the berth?	STOPPING CARGO OPERATIONS: 30 KNOTS WIND SPEED DISCONNECTING HOSES: 35 KNOTS WIND SPEED VACATING THE BERTH: 40 KNOTS WIND SPEED
7.4 1 2	Are there any restrictions regarding tank cleaning/Crude Oil Washing (COW) operations at the berth? If 'Yes' provide full details of these restrictions	No
7.5	Are there any berth specific requirements regarding tanker inerting procedures? If 'Yes', state requirements	Yes ALL THE VESSELS OPERATE PRODUCTS WITH FLASH POINT EQUAL TO OR LOWER THAN 60°C, THE LOADING OR DISCHARGING OPERATION WILL BE CARRIED OUT ON TANKS WITH INERT ATMOSPHERE.
7.6 1 2	Is there a temperature limit for cargo handled? If 'Yes', state temperature limits	No
7.7 1 2	Is it permitted for vessels to undertake double-banked operations alongside the berth? If 'Yes', state limiting criteria	No
7.8 1 2	Is vessel required to pump water ashore or receive water on board for line clearance purposes? If 'Yes', provide operational details	No
7.9 1 2	Can the berth be used for Ship-to-Ship transfers using terminal facilities? Provide details	Yes ONLY FOR SLUDGES, AND NEVER SIMULTANOUSLY WITH LOADING OR DISCHARGING LIGHT PRODUCTS OPERATIONS.
7.10	State details regarding any environmental restrictions applicable at the berth	EMISSIONS OF CARGO VAPOURS, INERT GAS OR ENGINE SMOKE IS NOT PERMITTED.
7.11 1 2	Are there any restrictions regarding Hydrogen Sulphide content in Cargo Tanks? If 'Yes', state restriction	No
7.12	Are there any restrictions regarding Mercaptan content in Cargo Tanks? If 'Yes', state restriction	No
7.13	Are there any restrictions on handling stores when a ship is moored alongside berth?	Yes

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2	If 'Yes', state restriction	STORES ALONGSIDE ARE FORBIDDEN
7.14	Additional comments or information	N/A
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?	No
1 2	If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck)	No
8.3	Are Intermediate Oil bunkers available?	
1	Are intermediate on burners available:	No
2	If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck)	
8.4	Is fresh water available?	
1		Yes
2	If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck)	BY HOSES OF THE VESSEL
8.5	Are slop reception facilities available?	
1		Yes
2	If 'Yes', state how received (e.g. Ex-Pipe, barge, truck) State capacity of slop reception facilities (if applicable)	PIPE 6000.00 Cubic metres
4	State any specific exclusions for slop receipts (e.g. chemicals, detergents,	N/A
	cleaning agents)	
8.6	Are dirty ballast reception facilities available?	
1	16 Mark state have received	No
2	If 'Yes', state how received State capacity of dirty ballast receiption facilities	
8.7	Are engine room sludge and bilge reception facilities available?	
1	Are engine room studge and blige reception racilities available:	Yes
2	If 'Yes', state how received (e.g. Ex-pipe, barge, truck)	BARGE
8.8	Are garbage reception facilities available at the berth.	
1		Yes
2	If 'Yes', provide details	BARGE
8.9	Additional comments or information	N/A
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	

Position of mooring bollards and hooks

10.6

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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	
2	If 'Yes' provide details and specify how they can be requested	
9.9	Are there icebreakers available to operate in the terminal area	
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	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	If West are ide details	
2	If 'Yes', provide details	
9.12	Does the terminal provide its own ice navigator/advisor?	
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	9.60
10.4	Berth heading	133
10.5	Width of the channel adjacent to the berth	800.00

4

16.80

3.20

									ad1di	102ce4
		Hook/Bollard ID Number and Type M-1		'x' dist to Targe Line (m)	-	'y' dist to Fender Face (m) 18.00		ght (m)	SWL (tonnes)	
				202.75	18.00)	100.00	
		M-2		138.75	18.00		8.00)	100.00	
		M-4		78.75	18.00		8.00)	60.00	
		B-2		44.00	1.00		5.00)	60.00	
		B-8		-44.00	1.00		5.00)	60.00	
		M-6		-71.25	18.00		8.00)	60.00	
		M-8		-131.25	18.00		8.00)	100.00	
		M-10		-191.25	18.00		8.00)	100.00	
10.7	Position of moorin	g buoys								
10.8	Fender Location									
		Fender ID Number	'x' Dist to Target Line (m)	Elevation of Fenders (m)		Fender Height (m)	Fender Contact Area (m2)		
		B-2	44.00	-0.50	6.49	5.50		23.13		
		B-4	24.00	0.00	3.06	3.12		6.20		
		B-6	-24.00	0.00	3.06	3.12		6.20		
		B-8	-44.00	-0.50	6.49	5.50		23.13		
10.9	Fender Reaction D	ata								
		Fender Id Number		Point No.	•	Compression (metres)		d (tonnes)		
		B-2		1	2.40		133	.00		
		B-4		2	2.40		35.0	00		
		B-6		2	2.40		35.0	00		
		B-8		1	2.40		133	.00		
10.10	Fender friction coe	efficient (μ)		0.50						
10.11	State identity and horizontal position of loading arms									
	·	Loading Arm/Shore Connection ID Number		Horizontal e co-ordinate Y	Max Excursion Surge	Max Excursic Sway	n	Max Excursion Heave		
		BC-1	7.00	8.00						
		BC-2	7.00	5.00						
		BC-3	7.00	2.00						
		BC-4	7.00	-1.00						
10.12	State loading arm operating limits									
		Loading Arm ID Number	Max Op Height	Min Op Height	Max Excursion Surge	Max Excursic Sway	n	Max Excursion Heave		
		1	16.80	3.20						
		2	16.80	3.20						
		3	16.80	3.20						
			46.00							

10.13 Additional comments or information

N/A