



# **Oil Companies International Marine Forum**

## **MTIS Programme**

### **Terminal TPQ**

**Terminal TPQ: TERMINAL 3 MUELLE QUIMICOS**

ReportName 7ab19b72-cab2-40ee-a674-3d81e08cff2d

**Terminal Name: TERMINAL 3 MUELLE QUIMICOS**

**Terminal Port: TARRAGONA**

**Terminal Port Authority: APT**

**Country: Spain**

23 January 2017

## 1 General

1.1	Date this TPQ document was completed/updated	01 March 2016
1.2	Specify units used	Metres and Metric Tonnes

## 2 Port Details

2.1	Port Name	TARRAGONA
2.2	UN LOCODE	ESTAR
2.3	Country	Spain
2.4	Latitude and Longitude of Port	
1	Latitude	410602 North
2	Longitude	0011340 East
2.5	Is this location affected by ice?	No
2.6	Name of port authority	APT
2.7	Port authority contact name and title	JOSE LUIS DIEZ I BASORA
2.8	Port authority full style contact address	
1	Address Line 1	Passeig de l'Escullera s/n,
2	Address Line 2	N/A
3	Address Line 3	N/A
4	City	TARRAGONA
5	County/State	TARRAGONA
6	Postcode/Zipcode	43004
7	Phone	+34 977 259 400
8	Fax	+34 977 225 499
9	Email	sac@porttarragona.cat
10	Website	http://www.porttarragona.cat

## 3 Terminal Details

3.1	Terminal name	TERMINAL 3 MUELLE QUIMICOS
3.2	Terminal owner	REPSOL BUTANO
3.2	Number of berths included in this TPQ	1
3.3	Name of first point of contact for terminal owner	MIGUEL ANGEL MARQUEZ LOPEZ
3.4	Terminal owner full style contact address	
1	Address Line 1	AUTOVIA SALOU KM 0.8
2	Address Line 2	N/A
3	Address Line 3	N/A
4	City	TARRAGONA
5	County/State	TARRAGONA
6	Postcode/Zipcode	43006

7	Phone	+34 977 54 10 55
8	Fax	+34 977 54 46 65
9	Email	mamarquezl@repsol.com
10	Website	www.repsol.com
3.5	Terminal operator, if different from owner	REPSOL BUTANO
3.6	Name of first point of contact for terminal operator	MIGUEL ANGEL MARQUEZ LOPEZ
3.7	Terminal operator full style contact address	
1	Address Line 1	AUTOVIA SALOU, KM 0.8
2	Address Line 2	N/A
3	Address Line 3	N/A
4	City	TARRAGONA
5	County/State	TARRAGONA
6	Postcode/Zipcode	43006
7	Phone	+34 977 54 10 55
8	Fax	+34 977 54 46 65
9	Email	mamarquezl@repsol.com
10	Website	www.repsol.com

#### 4 TPQ Accountability

4.1	Name and title of person completing this TPQ	JORGE SANZ
4.2	Full style contact details of person completing this TPQ	
1	Address Line 1	AUTOVIA SALOU KM 0.8
2	Address Line 2	N/A
3	Address Line 3	N/A
4	City	TARRAGONA
5	County/State	TARRAGONA
6	Postcode/Zipcode	43006
7	Phone	+34 977 54 10 55
8	Fax	+34 977 54 46 65
9	Email	aextremoe@repsol.com

#### 5 Port Facility Security Officer Details

5.1	Does the port facility comply with the ISPS code?	
1		Yes
2	Port Facility Security Officer contact name	MIGUEL ANGEL MARQUEZ LOPEZ
5.2	Port Facility Security Officer full style contact details	
1	Address Line 1	Autovia Salou, Km 0.8
2	Address Line 2	N/A
3	Address Line 3	N/A
4	City	TARRAGONA
5	County/State	TARRAGONA

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6	Postcode/Zipcode	43006
7	Phone	+34 977 54 10 55
8	Fax	+34 977 54 46 65
9	Email	mamarquezl@repsol.com

## 6 Operational Integrity Details

6.1	State details of any pre-arrival/operational clearance formalities for vessels	- Confirm vessel cleared by Repsol Vetting - Confirm vessel compatibility with terminal - Confirm clearance by customs and ISPS.
6.2	Has the terminal completed an assessment using the standard industry process?	
1		Yes
2	If 'Yes', state date completed	01 February 2013
6.3	Additional comments or information	No comments



# **Oil Companies International Marine Forum**

## **MTIS Programme**

### **Berth TPQ**

**Berth TPQ: TERMINAL 3 MUELLE QUIMICA**

ReportName bf1ccf3e-aa15-43d1-b846-d0e3e3cbb7eb

**Terminal Name: TERMINAL 3 MUELLE QUIMICOS**

**Terminal Port: TARRAGONA**

**Terminal Port Authority: APT**

**Country: Spain**

**Berth Name: TERMINAL 3 MUELLE QUIMICA**

23 January 2017

## 1 Berth General

1.1	Berth name or number	TERMINAL 3 MUELLE QUIMICA
1.2	Berth type	
1		Wharf or Quay
2	If 'Other' please specify	
1.3	Terrestrial co-ordinates of manifold centreline	
1	Latitude	410601 North
2	Longitude	0011339 East
1.4	Berth users for liquid and gas cargoes	Repsol Butano
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	01 February 2013
1.6	Has an engineering (mooring and fendering) analysis of berth been undertaken?	
1		Yes
2	If 'Yes', state date of last analysis	01 February 2013
1.7	Additional comments or information	None.

## 2 Berth Approaches

2.1	Is pilotage compulsory?	
1		Yes
2	If 'Yes', state if any vessels are exempted	No exemptions
2.2	State distance from pilot station(s) to berth	2.5 nautical miles
2.3	Is a waiting anchorage available?	
1		Yes
3	If 'Yes', state distance from waiting anchorage to berth	4.5 nautical miles
2.4	Controlling depth of water for transit to and from berth	
1	Water depth	14.20 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 March 2014
2.6	Date next survey is due	01 March 2019
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		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	Nighttime berthing not allowed if vessel LOA bigger than 200 meters.

2.10	Minimum under keel clearance (UKC) in berth approaches	
1	Value	1.00 Meters
2	Percentage	7.00 Depth of water
3	Specify other UKC criterion where applicable	None
2.11	Absolute maximum draught in berth approaches, if applicable	13.20
2.12	State minimum vertical clearance of any bridges/power cables/vertical obstructions	
1	Vertical clearance	999.00 Metric Tonnes
2	State datum used	Chart Datum (CD)
3	If 'Other' specify other datum used	
4	Further details	Not applicable. No vertical obstructions.
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
2.14	Additional comments or information	None

### 3 Water Depth Alongside

3.1	Minimum controlled water depth alongside berth at chart datum	
1	Water depth	14.20 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	01 March 2014
3.3	Date next survey is due	01 March 2019
3.4	Minimum static under keel clearance (UKC) alongside berth	
1	Value	1.00 Meters
2	Percentage	7.00 Depth of water
3	Specify other UKC criterion where applicable	None
3.5	State range of water densities at berth	
1	From	1025.00
2	To	1025.00
3	Further details	None.
3.6	Type of bottom alongside berth	
1		Mud
2	If 'Other' please specify	
3.7	Absolute maximum draft alongside, if applicable	13.20
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	None
<b>4 Limiting Vessel Dimensions</b>		
4.1	Summer deadweight	
1	TPQ NA Selector	No restrictions
2	Minimum	0.00 Metric Tonnes
3	Maximum	0.00 Metric Tonnes
4.2	Berthing displacement	
1	TPQ NA Selector	No restrictions
2	Minimum	0.00 Metric Tonnes
3	Maximum	0.00 Metric Tonnes
4.3	Alongside displacement	
1	TPQ NA Selector	No restrictions
2	Minimum	0.00 Metric Tonnes
3	Maximum	0.00 Metric Tonnes
4.4	State any deadweight/displacement exceptions	
1	TPQ NA Selector	Not applicable
2		0
4.5	Cubic capacity (gas carriers)	
1	TPQ NA Selector	No restrictions
2	Minimum	0.00 Cubic metres
3	Maximum	0.00 Cubic metres
4.6	Length over all (LOA)	
1	TPQ NA Selector	Applicable
2	Minimum	0.00 Metres
3	Maximum	240.00 Metres
4.7	Beam	
1	TPQ NA Selector	No restrictions
2	Minimum	0.00 Metres
3	Maximum	0.00 Metres
4.8	Minimum parallel body length (PBL)	
1	TPQ NA Selector	No restrictions
2		0.00
4.9	Minimum PBL forward of manifold	
1	TPQ NA Selector	No restrictions
2		0.00
4.10	Minimum PBL aft of manifold	
1	TPQ NA Selector	No restrictions



2		0.00
4.11	Bow to centre of manifold (BCM)	
1	TPQ NA Selector	No restrictions
2	Minimum	0.00 Metres
3	Maximum	0.00 Metres
4.12	Stern to centre of manifold (SCM)	
1	TPQ NA Selector	No restrictions
2	Minimum	0.00 Metres
3	Maximum	0.00 Metres
4.13	Freeboard	
1	TPQ NA Selector	No restrictions
2	Minimum	0.00 Metres
3	Maximum	0.00 Metres
4.14	Manifold height above water	
1	TPQ NA Selector	Applicable
2	Minimum	1.50 Metres
3	Maximum	22.00 Metres
4.15	Manifold to shipside rail distance	
1	TPQ NA Selector	Applicable
2	Minimum	1.00 Metres
3	Maximum	5.00 Metres
4.16	Height of manifold above deck or drip tray	
1	TPQ NA Selector	No restrictions
2	Minimum	0.00 Metres
3	Maximum	0.00 Metres
4	Specify whether height is from the deck or the drip tray	N/R
4.17	Manifold spacing	
1	TPQ NA Selector	Applicable
2	Minimum	0.60 Metres
3	Maximum	7.00 Metres
4.18	Maximum air draft alongside	
1	TPQ NA Selector	No restrictions
2		0.00
4.19	Vessel's minimum derrick/crane Safe Working Load (SWL)	
1	TPQ NA Selector	Not applicable
2		0.00
4.20	Additional comments or information	None

## 5 Mooring and Berthing Information

5.1	State availability and specifications of tugs and mooring craft required for berthing and/or unberthing.	IS COMPULSORY TO USE TUGS DURING BERTHING MANEUVERINGS. LIST OF TUGS USED: 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		Cell Type
2	If 'Other' please specify	
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	As per pilots instructions.
5.7	Describe any additional mooring requirements	None
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	None
5.12	Does the terminal require the vessel to rig Emergency Towing Off Pennants (ETOPs) while at the berth?	
1		No
2	If 'Yes', provide details of particular requirements regarding ETOPs.	

5.13	Details of any shore-provided mooring equipment	None
5.14	Are berthing aids provided?	
1		No
2	If 'Yes', state type of aids	
5.15	State allowable speed of approach if applicable	
1		As per pilots guidance
1		0.80 Knots
5.16	Is a mooring tension monitor fitted?	No
5.17	Are mooring hook quick release arrangements provided?	Yes
5.18	Chain stopper requirements	
1	Applicable	No
2		N/A
5.19	Largest ship handled at berth to date	BW NANTES, IMO: 9253818
5.20	Additional comments or information	None
<b>6 Berth Equipment and Facilities</b>		
6.1	Number, type and size of cargo transfer connections	2 LOADING ARMS OF 8" AND 300 ASA.
6.2	List grades handled at berth	Commercial LPG
2	State specific grades handled at berth (e.g. Ekofisk crude oil, Unleaded Gasoline, Jet A1).	Butane and Propane
6.3	State transfer rate restrictions and back pressure for each cargo grade	Terminal requires minimum pressure of 15 kg/cm <sup>2</sup> and maximum of 17 kg/cm <sup>2</sup> for any cargo.
6.4	Are transfer connections fitted with insulation flanges?	
1		Yes
2	Provide details	At both loading arms provided.
6.5	State storage type for LPG	Refrigerated
6.6	Describe any terminal-specific requirements for vessel manifolds	None
6.7	Is berth fitted with a vapour manifold connection?	
1		No
2	If 'Yes' state type and size of vapour connection	
3	State cargo types for which it is required to use vapour connection (if applicable)	
6.8	State throughput rate(s) of vapour recovery system	Not Applicable
6.9	Are Powered Emergency Release Couplings (PERCS) installed to the cargo transfer arms?	
1		Yes
2	Supply details	At both loading arms. Hydraulic.

6.10	Does the berth have an emergency shutdown (ESD) capability that can be activated by the ship?	
1		No
2	If 'yes' provide details	
6.11	Describe access arrangements between ship and shore.	Ship gangway or accommodation ladder.
6.12	Does the berth have pollution response equipment?	
1		No
2	If 'yes' provide details	
6.13	Additional comments or information	None.
<b>7</b>	<b>Berth Operations</b>	
7.1	What is the primary and backup communication system between ship and terminal during cargo operations?	WALKY TALKY WITH PRIVATE CHANEL AS PRIMARY MEANS OF CUMMINICATION BACK UP SYSTEM: DIRECT VERBAL COMMUNICATIONS WITH BERTH OPERATOR.
7.2	Is it required that terminal or shore representatives stay on board during operations?	
1		No
2	If 'Yes', state requirements including number of persons and their roles	
7.3	Specify weather/environmental restrictions for stopping cargo operations, disconnecting hoses or arms and vacating the berth?	NONE
7.4	Are there any restrictions regarding tank cleaning/Crude Oil Washing (COW) operations at the berth?	
1		Yes
2	If 'Yes' provide full details of these restrictions	Not applicable to vessels operated at this terminal.
7.5	Are there any berth specific requirements regarding tanker inerting procedures?	
1		No
2	If 'Yes', state requirements	
7.6	Is there a temperature limit for cargo handled?	
1		Yes
2	If 'Yes', state temperature limits	Cargo should be discharged at above 0 degrees centigrades.
7.7	Is it permitted for vessels to undertake double-banked operations alongside the berth?	
1		No
2	If 'Yes', state limiting criteria	
7.8	Is vessel required to pump water ashore or receive water on board for line clearance purposes?	
1		No
2	If 'Yes', provide operational details	
7.9	Can the berth be used for Ship-to-Ship transfers using terminal facilities?	
1		No

2	Provide details	
7.10	State details regarding any environmental restrictions applicable at the berth	None.
7.11	Are there any restrictions regarding Hydrogen Sulphide content in Cargo Tanks?	
1		No
2	If 'Yes', state restriction	
7.12	Are there any restrictions regarding Mercaptan content in Cargo Tanks?	
1		No
2	If 'Yes', state restriction	
7.13	Are there any restrictions on handling stores when a ship is moored alongside berth?	
1		Yes
2	If 'Yes', state restriction	Not during cargo operations.
7.14	Additional comments or information	None.
<b>8</b>	<b>Available Services</b>	
8.1	Are Fuel Oil bunkers available?	
1		Yes
2	If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck)	ex-barge, truck.
8.2	Are Diesel Oil bunkers available?	
1		Yes
2	If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck)	Ex-barge or truck.
8.3	Are Intermediate Oil bunkers available?	
1		Yes
2	If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck)	Ex-barge or truck.
8.4	Is fresh water available?	
1		Yes
2	If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck)	Ex-pipe.
8.5	Are slop reception facilities available?	
1		No
2	If 'Yes', state how received (e.g. Ex-Pipe, barge, truck)	
3	State capacity of slop reception facilities (if applicable)	
4	State any specific exclusions for slop receipts (e.g. chemicals, detergents, cleaning agents)	
8.6	Are dirty ballast reception facilities available?	
1		No
2	If 'Yes', state how received	
3	State capacity of dirty ballast reception facilities	
8.7	Are engine room sludge and bilge reception facilities available?	
1		Yes
2	If 'Yes', state how received (e.g. Ex-pipe, barge, truck)	Ex-barge or truck

8.8	Are garbage reception facilities available at the berth.	
1		Yes
2	If 'Yes', provide details	Garbage containers provided on arrival to berth and discharged once operation completed. Service provider authorized by Port Authority.
8.9	Additional comments or information	None.

## 9 Berth Low Temperature Impact

9.1	What is the typical range of temperatures the terminal operates in during a winter season?	-5°C to+20°C
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	
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	Solid wharf.
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					2.21
10.4	Berth heading					166
10.5	Width of the channel adjacent to the berth					150.00
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 ( $\mu$ )					
10.11	State identity and horizontal position of loading arms					
	Loading Arm/Shore Connection ID Number	Horizontal co-ordinate X	Horizontal co-ordinate Y	Max Excursion Surge	Max Excursion Sway	Max Excursion Heave
	NBR 1	2.50	4.40			
	NBR 2	-2.50	4.40			
10.12	State loading arm operating limits					
10.13	Additional comments or information					