



# Oil Companies International Marine Forum

## MTIS Programme

### Terminal TPQ

**Terminal TPQ: REPSOL PORTUGUESA, S. A. - LEIXÕES**

ReportName 6a9851ce-7669-4d24-9413-19911f001091

**Terminal Name: REPSOL PORTUGUESA, S. A. - LEIXÕES**

**Terminal Port: REPSOL MOLHE SUL**

**Terminal Port Authority: Administração dos Portos do Douro  
e Leixões**

**Country: Portugal**

## 1 General

1.1	Date this TPQ document was completed/updated	27 June 2014
1.2	Specify units used	Metres and Metric Tonnes

## 2 Port Details

2.1	Port Name	REPSOL MOLHE SUL
2.2	UN LOCODE	PTLEI
2.3	Country	Portugal
2.4	Latitude and Longitude of Port	
1	Latitude	411046 North
2	Longitude	0084156 West
2.5	Is this location affected by ice?	No
2.6	Name of port authority	Administração dos Portos do Douro e Leixões
2.7	Port authority contact name and title	Comandante Rui Cunha
2.8	Port authority full style contact address	
1	Address Line 1	Avenida da Liberdade
2	Address Line 2	N / A
3	Address Line 3	N / A
4	City	Leça da Palmeira
5	County/State	Portugal
6	Postcode/Zipcode	4450-718 Leça da Palmeira
7	Phone	+351 22 999 07 00
8	Fax	+351 22 999 07 01
9	Email	correio@apdl.pt
10	Website	www.portodeleixoes.pt

## 3 Terminal Details

3.1	Terminal name	REPSOL PORTUGUESA, S. A. - LEIXÕES
3.2	Terminal owner	APDL - Administração dos Portos do Douro e Leixões
3.2	Number of berths included in this TPQ	1
3.3	Name of first point of contact for terminal owner	Comandante Rui Cunha
3.4	Terminal owner full style contact address	
1	Address Line 1	Avenida da Liberdade
2	Address Line 2	N / A
3	Address Line 3	N / A
4	City	Leça da Palmeira
5	County/State	Portugal

6	Postcode/Zipcode	4450-718 Leça da Palmeira
7	Phone	+351 22 999 07 00
8	Fax	+351 22 999 07 01
9	Email	correio@apdl.pt
10	Website	www.portodeleixoes.pt
3.5	Terminal operator, if different from owner	Yes
3.6	Name of first point of contact for terminal operator	Carlos Soares da Costa
3.7	Terminal operator full style contact address	
1	Address Line 1	Av. D. Afonso Henriques, 1545
2	Address Line 2	N / A
3	Address Line 3	N / A
4	City	Matosinhos
5	County/State	Portugal
6	Postcode/Zipcode	4454-506
7	Phone	+351 229 391 900
8	Fax	+351 229 384 458
9	Email	carlos.soares@repsol.com
10	Website	www.repsol.com/pt_pt

#### 4 TPQ Accountability

4.1	Name and title of person completing this TPQ	Carlos Soares da Costa / Movimentação Produtos IIN
4.2	Full style contact details of person completing this TPQ	
1	Address Line 1	Av. D. Afonso Henriques, 1545
2	Address Line 2	N/A
3	Address Line 3	N/A
4	City	Matosinhos
5	County/State	Portugal
6	Postcode/Zipcode	4454-506
7	Phone	+351 229 391 900
8	Fax	+351 229 384 458
9	Email	carlos.soares@repsol.com

#### 5 Port Facility Security Officer Details

5.1	Does the port facility comply with the ISPS code?	
1		No
2	Port Facility Security Officer contact name	
5.2	Port Facility Security Officer full style contact details	
1	Address Line 1	N/A
2	Address Line 2	N/A
3	Address Line 3	N/A

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4	City	N/A
5	County/State	N/A
6	Postcode/Zipcode	N/A
7	Phone	N/A
8	Fax	N/A
9	Email	N/A

## 6 Operational Integrity Details

6.1	State details of any pre-arrival/operational clearance formalities for vessels	Confirm vessel Accepted by Repsol Vetting
6.2	Has the terminal completed an assessment using the standard industry process?	
1		No
2	If 'Yes', state date completed	
6.3	Additional comments or information	None



# Oil Companies International Marine Forum

## MTIS Programme

### Berth TPQ

**Berth TPQ: E**

ReportName 0e65ce06-4a34-49c6-953d-1667631d84e9

**Terminal Name: REPSOL PORTUGUESA, S. A. - LEIXÕES**

**Terminal Port: REPSOL MOLHE SUL**

**Terminal Port Authority: Administração dos Portos do Douro e Leixões**

**Country: Portugal**

**Berth Name: E**

## 1 Berth General

1.1	Berth name or number	E
1.2	Berth type	
1		Wharf or Quay
2	If 'Other' please specify	
1.3	Terrestrial co-ordinates of manifold centreline	
1	Latitude	401045 North
2	Longitude	0084157 East
1.4	Berth users for liquid and gas cargoes	Repsol Portuguesa, S. A.
1.5	Has a structural survey of the berth been undertaken, including its underwater structure?	
1		No
2	If 'Yes', state date of last survey	
1.6	Has an engineering (mooring and fendering) analysis of berth been undertaken?	
1		No
2	If 'Yes', state date of last analysis	
1.7	Additional comments or information	APDL is the owner and the responsible for mooring

## 2 Berth Approaches

2.1	Is pilotage compulsory?	
1		Yes
2	If 'Yes', state if any vessels are exempted	No vessels exempted
2.2	State distance from pilot station(s) to berth	2 nautical miles
2.3	Is a waiting anchorage available?	
1		Yes
3	If 'Yes', state distance from waiting anchorage to berth	2,5 nautical miles
2.4	Controlling depth of water for transit to and from berth	
1	Water depth	10.00 Metres
2	State datum used	Other (Specify)
3	If 'Other' please specify datum	Z.H.L
2.5	Date of latest survey from which transit depth has been determined	01 May 2010
2.6	Date next survey is due	01 January 2020
2.7	State Maximum Tidal Range in berth approaches	4.00
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	None

2.10	Minimum under keel clearance (UKC) in berth approaches	
1	Value	1.50 Meters
2	Percentage	15.00 Depth of water
3	Specify other UKC criterion where applicable	No other UKC criteria
2.11	Absolute maximum draught in berth approaches, if applicable	8.50
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	No bridge or power cables
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	Maximum towline force - 60 tons
2.14	Additional comments or information	APDL is the owner and the responsible for mooring

### 3 Water Depth Alongside

3.1	Minimum controlled water depth alongside berth at chart datum	
1	Water depth	10.00 Metres
2	State datum used	Other (Specify)
3	If 'Other' specify datum	ZHL
3.2	Date of latest survey from which alongside depth has been determined	01 May 2010
3.3	Date next survey is due	01 January 2020
3.4	Minimum static under keel clearance (UKC) alongside berth	
1	Value	1.50 Meters
2	Percentage	15.00 Depth of water
3	Specify other UKC criterion where applicable	No other UKC criteria
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		Rock
2	If 'Other' please specify	
3.7	Absolute maximum draft alongside, if applicable	8.50
3.8	State maximum tidal range at berth, if applicable	4.00
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
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2	Provide details	
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### 3.11 Additional comments or information

## 4 Limiting Vessel Dimensions

### 4.1 Summer deadweight

1	TPQ NA Selector	No restrictions
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2	Minimum	
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3	Maximum	
---	---------	--

### 4.2 Berthing displacement

1	TPQ NA Selector	No restrictions
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2	Minimum	
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3	Maximum	
---	---------	--

### 4.3 Alongside displacement

1	TPQ NA Selector	No restrictions
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2	Minimum	
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3	Maximum	
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### 4.4 State any deadweight/displacement exceptions

1	TPQ NA Selector	Applicable
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2		No exceptions
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### 4.5 Cubic capacity (gas carriers)

1	TPQ NA Selector	Not applicable
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2	Minimum	
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3	Maximum	
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### 4.6 Length over all (LOA)

1	TPQ NA Selector	No restrictions
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2	Minimum	
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3	Maximum	
---	---------	--

### 4.7 Beam

1	TPQ NA Selector	No restrictions
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2	Minimum	
---	---------	--

3	Maximum	
---	---------	--

### 4.8 Minimum parallel body length (PBL)

1	TPQ NA Selector	No restrictions
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2		
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### 4.9 Minimum PBL forward of manifold

1	TPQ NA Selector	No restrictions
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2		
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### 4.10 Minimum PBL aft of manifold

1	TPQ NA Selector	No restrictions
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2

## 4.11 Bow to centre of manifold (BCM)

- |   |                 |                 |
|---|-----------------|-----------------|
| 1 | TPQ NA Selector | No restrictions |
| 2 | Minimum         |                 |
| 3 | Maximum         |                 |

## 4.12 Stern to centre of manifold (SCM)

- |   |                 |                 |
|---|-----------------|-----------------|
| 1 | TPQ NA Selector | No restrictions |
| 2 | Minimum         |                 |
| 3 | Maximum         |                 |

## 4.13 Freeboard

- |   |                 |                 |
|---|-----------------|-----------------|
| 1 | TPQ NA Selector | No restrictions |
| 2 | Minimum         |                 |
| 3 | Maximum         |                 |

## 4.14 Manifold height above water

- |   |                 |                 |
|---|-----------------|-----------------|
| 1 | TPQ NA Selector | No restrictions |
| 2 | Minimum         |                 |
| 3 | Maximum         |                 |

## 4.15 Manifold to shipside rail distance

- |   |                 |                 |
|---|-----------------|-----------------|
| 1 | TPQ NA Selector | No restrictions |
| 2 | Minimum         |                 |
| 3 | Maximum         |                 |

## 4.16 Height of manifold above deck or drip tray

- |   |  |                 |
|---|--|-----------------|
| 1 | TPQ NA Selector  | No restrictions |
| 2 | Minimum  |                 |
| 3 | Maximum  |                 |
| 4 | Specify whether height is from the deck or the drip tray |                 |

## 4.17 Manifold spacing

- |   |                 |                 |
|---|-----------------|-----------------|
| 1 | TPQ NA Selector | No restrictions |
| 2 | Minimum         |                 |
| 3 | Maximum         |                 |

## 4.18 Maximum air draft alongside

- |   |                 |                 |
|---|-----------------|-----------------|
| 1 | TPQ NA Selector | No restrictions |
| 2 |                 |                 |

## 4.19 Vessel's minimum derrick/crane Safe Working Load (SWL)

- |   |                 |                    |
|---|-----------------|--------------------|
| 1 | TPQ NA Selector |                    |
| 2 |                 | 3.00 Metric Tonnes |

## 4.20 Additional comments or information

## 5 Mooring and Berthing Information

5.1	State availability and specifications of tugs and mooring craft required for berthing and/or unberthing.	Tugboats: Monte do Leça, 34.5 m LOA, 30 t bollard pull Pegaso, 28.14 m LOA, 35 t bollard pull Prometeu, 28.15 m LOA, 35 t bollard pull Nereu, 25 m LOA, 60 t bollard pull Aquiles, 25 m LOA, 60 t bollard pull Mooring crafts: Perafita, 9.41 m LOA, 1.2 t pull Angeiras, 9.41 m LOA, 1.2 t pull Boa Nova, 10.08 m LOA, 0.8 t ull Sonda 1, 5.6 m LOA, 8 h.p. Sonda B, 3.97 m LOA, 10 h.p. Gilreu, 12 m LOA, 2 x 315 h.p. Galho, 4.59 m LOA, 30 h.p. Perlongas, 12 m LOA, 1 t pull Eira, 15.75 m LOA, 1.3 t pull Praia Ourigo, 5.9 m LOA, 90 h.p.
5.2	Are ship's or tug's lines used?	
1	Ship/Tug	Tug's Lines
2	Comments	No comments
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	2+2+2 fore and aft
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		0.2 m/s
1		0.06 Km/h
5.16	Is a mooring tension monitor fitted?	No
5.17	Are mooring hook quick release arrangements provided?	No
5.18	Chain stopper requirements	
1	Applicable	No
2		
5.19	Largest ship handled at berth to date	Sichem Ruby / IMO 9344174
5.20	Additional comments or information	
<b>6 Berth Equipment and Facilities</b>		
6.1	Number, type and size of cargo transfer connections	1 8" ANSI 150
6.2	List grades handled at berth	Gas oils, Diesels and Kerosenes
2	State specific grades handled at berth (e.g. Ekofisk crude oil, Unleaded Gasoline, Jet A1).	Gas oils
6.3	State transfer rate restrictions and back pressure for each cargo grade	Max. pressure 5 kg/cm <sup>2</sup>
6.4	Are transfer connections fitted with insulation flanges?	
1		Yes
2	Provide details	N / A
6.5	State storage type for LPG	Not applicable
6.6	Describe any terminal-specific requirements for vessel manifolds	Not Applicable
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		No
2	Supply details	
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 ladder
6.12	Does the berth have pollution response equipment?	
1		Yes
2	If 'yes' provide details	The owner APDL is responsible for pollution equipment
6.13	Additional comments or information	
<b>7</b>	<b>Berth Operations</b>	
7.1	What is the primary and backup communication system between ship and terminal during cargo operations?	Voice / There is a man permanently in local
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?	60 Km/h for stopping Cargo 60 Km/h for disconnecting hoses
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 allowed at berth by Repsol Proceedings
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		No
2	If 'Yes', state temperature limits	
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		No
2	If 'Yes', state restriction	
7.14	Additional comments or information	
<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)	By truck
8.2	Are Diesel Oil bunkers available?	
1		Yes
2	If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck)	By pipeline and 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)	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		No
2	If 'Yes', state how received (e.g. Ex-pipe, barge, truck)	
8.8	Are garbage reception facilities available at the berth.	
1		Yes
2	If 'Yes', provide details	Container
8.9	Additional comments or information	

## 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

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 6.00

10.4 Berth heading 324 degrees

10.5 Width of the channel adjacent to the berth

10.6 Position of mooring bollards and hooks

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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
10.12	State loading arm operating limits
10.13	Additional comments or information