

# Oil Companies International Marine Forum

## **MTIS Programme**

# **Terminal TPQ**

**Terminal TPQ: REPSOL BUTANO** 

ReportName 6532f7b3-d26b-4bb2-83fd-f49ef9dd68de

**Terminal Name: REPSOL BUTANO** 

Terminal Port: PUERTO DE CARTAGENA.

**Terminal Port Authority: AUTORIDAD PORTUARIA DE** 

CARTAGENA (APC).
Country: Spain

1		General			
1.1		Date this TPQ document was completed/updated	26 June 2014		
1.2		Specify units used	Metres and Metric Tonnes		
2		Port Details			
2.1		Port Name	PUERTO DE CARTAGENA.		
2.2		UN LOCODE	escar		
2.3		Country	Spain		
2.4		Latitude and Longitude of Port			
	1	Latitude	373403 North		
	2	Longitude	0005707 West		
2.5		Is this location affected by ice?	No		
2.6		Name of port authority	AUTORIDAD PORTUARIA DE CARTAGENA (APC).		
2.7		Port authority contact name and title	JAVIER DELGADO TRAPIELLA, JEFE DE DIVISIÓN OPERACIONES PORTUARIAS.		
2.8		Port authority full style contact address			
	1	Address Line 1	PLAZA HEROES DE CAVITE, S/N.		
	2	Address Line 2	N/A.		
	3	Address Line 3	N/A.		
	4	City	CARTAGENA		
	5	County/State	SPAIN.		
	6	Postcode/Zipcode	30.201		
	7	Phone	34968325800		
	8	Fax	34968325824		
	9	Email	JDELGADO@APC.ES		
	10	Website	WWW.APC.ES		
3		Terminal Details			
3.1		Terminal name	REPSOL BUTANO		
3.2		Terminal owner	APC.		
3.2		Number of berths included in this TPQ	3		
3.3		Name of first point of contact for terminal owner	JAVIER DELGADO TRAPIELLA.		
3.4		Terminal owner full style contact address			
	1	Address Line 1	PLAZA HEROES DE CAVITE, S/N		
	2	Address Line 2	N/A		
	3	Address Line 3	N/A		
	4	City	CARTAGENA		
	5	County/State	SPAIN		

TPQ , REPSOL BUTANO		IMO: 6532f7b3-d26b-4bb2-83fd- f49ef9dd68de
6	Postcode/Zipcode	30.201
7	Phone	34968325800
8	Fax	34968325824
9	Email	JDELGADO@APC.ES
10	) Website	WWW.APC.ES
3.5	Terminal operator, if different from owner	REPSOL BUTANO
3.6	Name of first point of contact for terminal operator	DAVID VEGANZONES BAYÓN
3.7	Terminal operator full style contact address	
1	Address Line 1	VALLE DE ESCOMBRERAS S/N
2	Address Line 2	N/A
3	Address Line 3	N/A
4	City	CARTAGENA
5	County/State	SPAIN
6	Postcode/Zipcode	30.350
7	Phone	34968167702
8	Fax	34968167197
9	Email	dveganzonesb@repsol.com
10	) Website	www.repsol.com
4	TPQ Accountability	
4.1	Name and title of person completing this TPQ	DAVID VEGANZONES BAYÓN
4.2	Full style contact details of person completing this TPQ	
1	Address Line 1	VALLE DE ESCOMBRERAS, S/N
2	Address Line 2	N/A
3	Address Line 3	N/A
4	City	CARTAGENA
5	County/State	SPAIN
6	Postcode/Zipcode	30.350
7	Phone	34968167702
8	Fax	34968167197
9	Email	dveganzionesb@repsol.com
_	Don't Facility Converts Officer Dataile	

#### Port Facility Security Officer Details 5

5.1		Does the port facility comply with the ISPS code?			
	1		Yes		
	2	Port Facillity Security Officer contact name	DAVID VEGANZONES BAYÓN		
5.2		Port Facility Security Officer full style contact details			
	1	Address Line 1	VALLE DE ESCOMBRERAS, S/N		
	2	Address Line 2	N/A		
	3	Address Line 3	N/A		
	4	City	CARTAGENA		

6.3

Additional comments or information

	5	County/State	SPAIN
	6	Postcode/Zipcode	30.350
	7	Phone	34968167702
	8	Fax	34968167197
	9	Email	DVEGANZONESB@REPSOL.COM
6		Operational Integrity Details	
6.1		State details of any pre-arrival/operational clearance formalities for vessels	Confirm vessel acceptability by Repsol Vetting.
6.2		Has the terminal completed an assessment using the standard industry process?	
	1		Yes
	2	If 'Yes', state date completed	08 November 2012

None



# Oil Companies International Marine Forum MTIS Programme Berth TPQ

Berth TPQ: E014

ReportName 9904048c-39a4-47b2-973f-56c97fb3f23a

**Terminal Name: REPSOL BUTANO** 

Terminal Port: PUERTO DE CARTAGENA.

**Terminal Port Authority: AUTORIDAD PORTUARIA DE** 

CARTAGENA (APC).
Country: Spain

Berth Name: E014

#### 1 Berth General

_	Dertif General	
1.1	Berth name or number	E014
1.2	Berth type	
1		Wharf or Quay
2	If 'Other' please specify	
1.3	Terrestrial co-ordinates of manifold centreline	
1 2	Latitude  Longitude	373358 North 0005731 West
	Berth users for liquid and gas cargoes	REPSOL PETROLEO, REPSOL BUTANO.
1.4		REFSOL PETROLLO, REFSOL BUTAINO.
1.5	Has a structural survey of the berth been undertaken, including its underwater structure?	
1		No
2	If 'Yes', state date of last survey	
1.6	Has an engineering (mooring and fendering) analysis of berth been undertaken?	
1		No
2	If 'Yes', state date of last analysis	
1.7	Additional comments or information	None
2	Berth Approaches	
2.1	Is pilotage compulsory?	
1		Yes
2	If 'Yes', state if any vessels are exempted	No exceptions.
2.2	State distance from pilot station(s) to berth	No exemptions
2.3	Is a waiting anchorage available?	
1		Yes
3	If 'Yes', state distance from waiting anchorage to berth	From 3 to 6 miles.
2.4	Controlling depth of water for transit to and from berth	11.10 Metres
1 2	Water depth State datum used	11.10 Metres
3	If 'Other' please specify datum	
2.5	Date of latest survey from which transit depth has been determined	31 March 2014
2.6	Date next survey is due	31 March 2016
2.7	State Maximum Tidal Range in berth approaches	0.30
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	Not applicable.

2.10	Minimum under keel clearance (UKC) in berth approaches			
1	Value	0.60 Meters		
2	Percentage	5.80 Vessel static draft		
3	Specify other UKC criterion where applicable	None.		
2.11	Absolute maximum draught in berth approaches, if applicable	10.50		
2.12	State minimum vertical clearance of any bridges/power cables/vertical obstructions			
1	Vertical clearance	999.00 Metres		
2	State datum used			
3	If 'Other' specify other datum used			
4	Further details	Not applicable.		
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, 60 mt.		
2.14	Additional comments or information			
3	Water Depth Alongside			
3.1	Minimum controlled water depth alongside berth at chart datum			
1	Water depth	11.10 Metres		
2	State datum used	Chart Datum (CD)		
3	If 'Other' specify datum			
3.2	Date of latest survey from which alongside depth has been determined	31 March 2014		
3.3	Date next survey is due	31 March 2016		
3.4	Minimum static under keel clearance (UKC) alongside berth			
1	Value	0.30 Meters		
2	Percentage	2.90 Vessel static draft		
3	Specify other UKC criterion where applicable	None.		
3.5	State range of water densities at berth			
1	From	1025.00		
2	То	1028.00		
3	Further details	Us ordinary survey practice.		
3.6	Type of bottom alongside berth			
1		Mud		
2	If 'Other' please specify			
3.7	Absolute maximum draft alongside, if applicable	10.50		
3.8	State maximum tidal range at berth, if applicable	0.30		
3.9	Are 'over-the-tide' cargo handling operations permitted at the berth?			
3.10	Does the berth location experience water-level anomalies?			

56c97fb3f23a 1 No 2 Provide details 3.11 Additional comments or information 4 **Limiting Vessel Dimensions** 4.1 Summer deadweight 1 **TPQ NA Selector** No restrictions 2 Minimum 0.00 Metric Tonnes 0.00 Metric Tonnes 3 Maximum 4.2 Berthing displacement 1 **TPO 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 0.00 Metric Tonnes 3 Maximum 4.4 State any deadweight/displacement exceptions 1 **TPQ NA Selector** No restrictions 2 No exceptions 4.5 Cubic capacity (gas carriers) 1 **TPQ NA Selector** No restrictions 2 Minimum 0.00 Cubic metres Maximum 0.00 Cubic metres Length over all (LOA) 4.6 1 **TPQ NA Selector** Applicable 2 Minimum 0.00 Metres 3 Maximum 230.00 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	
4.14	TPQ NA Selector	Applicable
2	Minimum	2.40 Metres
3	Maximum	18.80 Metres
		10.50 Wettes
4.15	Manifold to shipside rail distance	
1	TPQ NA Selector	No restrictions
2	Minimum	0.00 Metres
3	Maximum	0.00 Metres
4.16	Height of manifold above deck or drip tray	
1	TPQ NA Selector	No restrictions
2	Minimum	0.00 Metres
3	Maximum	0.00 Metres
4	Specify whether height is from the deck or the drip tray	No restrictions. As per OCIMF
4.17	Manifold spacing	
1	TPQ NA Selector	No restrictions
2	Minimum	0.00 Metres
3	Maximum	0.00 Metres
4.18	Maximum air draft alongside	
1	TPQ NA Selector	No restrictions
2		0.00
4.19	Vessel's minimum derrick/crane Safe Working Load (SWL)	
1	TPQ NA Selector	No restrictions
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.	5 TUGS AVAILABLE Tug V.B. ANIBAL 5,263 HP and 57.10 MT. Lenght:29.50 m Breadth 11.00.m Tug V.B. ASDRUBAL 5,263 HP and 57.10 MT. Lenght 29.50 m Breadth 11.00 m Tug V.B. CARTAGENA 4,162 HP and 46.00 MT. Lenght 28.00 m Breadth 11.00 m Tug V.B. GLACIAL 5,263 HP and 57.1 MT. Lenght 29.50 m Breath 11.00 m Tug V.B. TIRRENO 5,000 HP and 52 MT. Lenght 28.00 m Breath 11.00 m 4 MOORING CRAFTS AVAILABLE AMARRE 2: 160 HP and Lenght 8.5 m AMARRE 3: 90 HP and Lenght 9.0 m AMARRE 6: 210HP and Lenght 9.0 m
5.2		Are ship's or tug's lines used?	
	1	Ship/Tug	Tug's Lines
	2	Comments	As per pilot advise
5.3		Type of fenders installed at berth	
	1 2	If 'Other' please specify	Cell Type
<b>5</b> 4			Fish on Post 9. Stock and Side To
5.4		State orientation of vessel alongside berth	Either Port & Starboard Side To
5.5	1	At buoy moorings, state which side hose is normally connected	Not applicable
	2	If 'Other' please specify	
5.6	i	Minimum mooring arrangement	<ul><li>2 Headlines</li><li>2 Forward Breastlines</li><li>2 Forward Back-Springs</li><li>2 Sternlines</li><li>2 After Breastlines</li><li>2 After Back-Springs</li></ul>
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	Must be in good condition
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	Must be in good conditiong
5.1	.0	Are there any restrictions on using high modulus synthetic mooring ropes?	
	1		No
	2	If 'yes' provide details	must be in good condition
5.1	1	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	(LIOFS) Wille at the bertil:	Yes
2	If 'Yes', provide details of particular requirements regarding ETOPs.	Hanging off-shore 1 or 2 meters above sea water level.
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 pilot advise.
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		Not an SBM
5.19	Largest ship handled at berth to date	DJANET 242 m
5.20	Additional comments or information	None.
6	Berth Equipment and Facilities	
6.1	Number, type and size of cargo transfer connections	1 X 300 ANSI 8" LOADING ARM.
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	Minimum pressure at manifold 15 kg/cm2. Maximum pressure at manifold 18 kg/cm2.
6.4	Are transfer connections fitted with insulation flanges?	
1		Yes
2	Provide details	Annual testing.
6.5	State storage type for LPG	Pressurised
6.6	Describe any terminal-specific requirements for vessel manifolds	None.
6.7	Is berth fitted with a vapour manifold connection?	
1		No
2	If 'Yes' state type and size of vapour connection	
3	State cargo types for which it is required to use vapour connection (if applicable)	
6.8	State throughput rate(s) of vapour recovery system	Not applicable.
6.9	Are Powered Emergency Release Couplings (PERCS) installed to the cargo transfer arms?	

		56c97fb3f23a
1		Yes
2	Supply details	Hydraulic system.
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 and shore gangway.
6.12	Does the berth have pollution response equipment?	
1		No
2	If 'yes' provide details	
6.13	Additional comments or information	
7	Berth Operations	
7.1	What is the primary and backup communication system between ship and terminal during cargo operations?	Primary Dedicated VHF CH06 Backup by Voice
7.2	Is it required that terminal or shore representatives stay on board during operations?	
1	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?	30 Knots for stopping Cargo 35 knots for disconnecting Arms
7.4	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	
1	procedures?	No
2	If 'Yes', state requirements	
7.6	Is there a temperature limit for cargo handled?	
1	·	Yes
2	If 'Yes', state temperature limits	Minimum temperature 0º C.
7.7	Is it permitted for vessels to undertake double-banked operations alongside the berth?	
1		No
2	If 'Yes', state limiting criteria	
7.8	Is vessel required to pump water ashore or receive water on board for line clearance purposes?	
1		No
2	If 'Yes', provide operational details	
7.9	Can the berth be used for Ship-to-Ship transfers using terminal facilities?	
1	Provide date!le	No
2	Provide details	

7.10	)	State details regarding any environmental restrictions applicable at the berth	None.	
7.11	1	Are there any restrictions regarding Hydrogen Sulphide content in Cargo Tanks?	No	
	2	If 'Yes', state restriction		
7.12	1	Are there any restrictions regarding Mercaptan content in Cargo Tanks?	No	
	2	If 'Yes', state restriction		
7.13	1	Are there any restrictions on handling stores when a ship is moored alongside berth?	Yes	
	2	If 'Yes', state restriction	Not allowed during cargo operations.	
7.14	ļ	Additional comments or information		
8		Available Services		
8.1	1	Are Fuel Oil bunkers available?	No	
	2	If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck)		
8.2		Are Diesel Oil bunkers available?		
	1	If Week state have delivered (e.g. Ev. Dine, house tweek)	Yes	
	2	If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck)	Ex-barge. Not operated by Repsol.	
8.3	4	Are Intermediate Oil bunkers available?	V	
	1	If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck)	Yes Ex-pipe.	
0.4	_		Ex pipe.	
8.4	1	Is fresh water available?	Yes	
	2	If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck)	Ex-pipe. Not operated by Repsol.	
8.5		Are slop reception facilities available?		
6.5	1	Are stop reception facilities available:	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 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)	Ex-barge. Not operated by Repsol.	
8.8		Are garbage reception facilities available at the berth.		

1 Yes 2 If 'Yes', provide details Containers. 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 2.70 Berth heading 10.4 145/325

10.5	Width of the chann	el adjacent to	the berth			4	00.00		
10.6	Position of mooring bollards and hooks								
		Hook/Bol Number a		'x' dist to Fende Face (m)		dist to Target e (m)	Height (m)	SWL (tonnes)	
		A(4)		-188.00	21.	00	3.00	100.00	
		B(4)		-148.00	21.	00	3.00	60.00	
		С		-68.00	2.0	0	3.00	61.00	
		D(2)		-68.00	12.	00	3.00	60.00	
		E		-30.00	2.0	0	3.00	60.00	
		F		-10.00	2.0	0	3.00	60.00	
		G	:	30.00	2.0	0	3.00	60.00	
		Н		47.00	2.0	0	3.00	60.00	
		1		65.00	2.0	0	3.00	60.00	
		J(2)		100.00	14.	00	3.00	100.00	
		K(2)		135.00	8.0	0	3.00	100.00	
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 m) Height (	Fender (m) Contact Area (m		
		AA	-32.00	-1.00	2.00	3.00	6.00		
		ВВ	-12.00	-1.00	2.00	3.00	6.00		
		CC	1.00	-1.00	2.00	3.00	6.00		
		DD	16.00	-1.00	2.00	3.00	6.00		
		EE	31.00	-1.00	2.00	3.00	6.00		
		FF	46.00	-1.00	2.00	3.00	6.00		
		GG	65.00	-1.00	2.00	3.00	6.00		
10.9	Fender Reaction Da	nta							
10.10	Fender friction coef	fficient (μ)							
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 on Excursio Sway	Max on Excursio Heave	on	
		L1	0.10	0.10					
10.12	State loading arm o	perating limit	S						
		Loading Arm ID Number	Max Op Height	Min Op Height	Max Excursion Surge	Max on Excursio Sway	Max on Excursio Heave	on	
		L1	16.70	-0.30	5.50	8.00	17.00		
10.13	Additional commer	nts or informa	tion						



# Oil Companies International Marine Forum MTIS Programme

## **Berth TPQ**

Berth TPQ: E012

ReportName a9063513-3067-4dce-b468-a8ca70aee10b

**Terminal Name: REPSOL BUTANO** 

**Terminal Port: PUERTO DE CARTAGENA.** 

**Terminal Port Authority: AUTORIDAD PORTUARIA DE** 

CARTAGENA (APC).
Country: Spain

Berth Name: E012

1		Berth General	
1.1		Berth name or number	E012
1.2	1 2	Berth type  If 'Other' please specify	Wharf or Quay
1.3 1.4 1.5	1 2	Terrestrial co-ordinates of manifold centreline Latitude Longitude Berth users for liquid and gas cargoes Has a structural survey of the berth been undertaken, including its underwater	373357 North 0005723 West REPSOL PETROLEO, LBC, BUNGE, ECOCARBURANTES, REPSOL BUTANO
	1 2	structure?  If 'Yes', state date of last survey	No
1.6	1 2	Has an engineering (mooring and fendering) analysis of berth been undertaken?  If 'Yes', state date of last analysis	No
1.7		Additional comments or information	None
2		Berth Approaches	
2.1	1 2	Is pilotage compulsory?  If 'Yes', state if any vessels are exempted	Yes NO EXEMPTIONS
2.2		State distance from pilot station(s) to berth	Approx. 3 miles
2.3	1 3	Is a waiting anchorage available?  If 'Yes', state distance from waiting anchorage to berth	Yes Approx. 3 miles.
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	8.60 Metres
2.5		Date of latest survey from which transit depth has been determined	31 March 2014
2.6		Date next survey is due	31 March 2016
2.7		State Maximum Tidal Range in berth approaches	0.30
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	Not applicable

2.10	Minimum under keel clearance (UKC) in berth approaches	
1	Value	0.60 Meters
2	Percentage	7.50 Vessel static draft
3	Specify other UKC criterion where applicable	no
2.11	Absolute maximum draught in berth approaches, if applicable	8.00
2.12	State minimum vertical clearance of any bridges/power cables/vertical obstructions	
1	Vertical clearance	999.00 Metres
2	State datum used	
3	If 'Other' specify other datum used	
4	Further details	Not applicable
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, 60 mt
2.14	Additional comments or information	
3	Water Depth Alongside	
3.1	Minimum controlled water depth alongside berth at chart datum	
1	Water depth	8.60 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	31 March 2014
3.3	Date next survey is due	31 March 2016
3.4	Minimum static under keel clearance (UKC) alongside berth	
1	Value	0.60 Meters
2	Percentage	7.50 Vessel static draft
3	Specify other UKC criterion where applicable	Not applicable
3.5	State range of water densities at berth	
1	From	1025.00
2	То	1028.00
3	Further details	As ordinary survey practice.
3.6	Type of bottom alongside berth	
1		Mud
2	If 'Other' please specify	
3.7	Absolute maximum draft alongside, if applicable	8.00
3.8	State maximum tidal range at berth, if applicable	0.30
3.9	Are 'over-the-tide' cargo handling operations permitted at the berth?	No
3.10	Does the berth location experience water-level anomalies?	

a8ca70aee10b 1 No 2 Provide details 3.11 Additional comments or information **Limiting Vessel Dimensions** 4 4.1 Summer deadweight 1 **TPQ NA Selector** No restrictions 2 Minimum 0.00 Metric Tonnes 0.00 Metric Tonnes 3 Maximum 4.2 Berthing displacement 1 **TPO 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 0.00 Metric Tonnes 3 Maximum 4.4 State any deadweight/displacement exceptions 1 **TPQ NA Selector** No restrictions 2 No exceptions 4.5 Cubic capacity (gas carriers) 1 **TPQ NA Selector** No restrictions 2 Minimum 0.00 Cubic metres Maximum 0.00 Cubic metres Length over all (LOA) 4.6 1 **TPQ NA Selector** Applicable 2 Minimum 0.00 Metres 3 Maximum 150.00 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	2.50 Metres
3	Maximum	7.90 Metres
4.15	Manifold to shipside rail distance	
4.13	TPQ NA Selector	No restrictions
2	Minimum	0.00 Metres
3	Maximum	0.00 Metres
4.16		
4.16	Height of manifold above deck or drip tray  TPQ NA Selector	No restrictions
2	Minimum	0.00 Metres
3	Maximum	0.00 Metres
4	Specify whether height is from the deck or the drip tray	No restrictions
4.17	Manifold spacing  TPQ NA Selector	No restrictions
1 2	Minimum	0.00 Metres
3	Maximum	0.00 Metres
		0.00 Welles
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	No restrictions
2		0.00
4.20	Additional comments or information	Distance with any vessel at berth E013 should not be less than 35 meters.
5	Mooring and Berthing Information	

5.1	State availability and specifications of tugs and mooring craft required for berthing and/or unberthing.	5 TUGS AVAILABLE Tug V.B. ANIBAL 5,263 HP and 57.10 MT. Lenght:29.50 m Breadth 11.00.m Tug V.B. ASDRUBAL 5,263 HP and 57.10 MT. Lenght 29.50 m Breadth 11.00 m Tug V.B. CARTAGENA 4,162 HP and 46.00 MT. Lenght 28.00 m Breadth 11.00 m Tug V.B. GLACIAL 5,263 HP and 57.1 MT. Lenght 29.50 m Breath 11.00 m Tug V.B. TIRRENO 4,200 HP and 52 MT. Lenght 28.00 m Breath 11.00 m 4 MOORING CRAFTS AVAILABLE AMARRE 2: 160 HP and Lenght 8.5 m AMARRE 5: 210 HP and Lenght 9.0 m AMARRE 6: 210HP and Lenght 9.0 m
5.2	Are ship's or tug's lines used?	
1	Ship/Tug	Tug's Lines
2	Comments	As per pilot instructions
5.3	Type of fenders installed at berth	
1 2	If 'Other' please specify	Cell Type
		Fill B 1961 L 161 T
5.4	State orientation of vessel alongside berth	Either Port & Starboard Side To
5.5 1	At buoy moorings, state which side hose is normally connected	Not applicable
2	If 'Other' please specify	No buoy moorings
5.6	Minimum mooring arrangement	2 Headlines 2 Forward Breastlines 2 Forward Back-Springs 2 Sternlines 2 After Breastlines 2 After Back-Springs
5.7	Describe any additional mooring requirements	None.
5.8	Are there any restrictions using wire mooring ropes?	
1 2	If 'yes', provide details of restrictions in wire moorings as part of the mooring pattern	No Ropes in good condition
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	Ropes in good condition
5.10	Are there any restrictions on using high modulus synthetic mooring ropes?	
1		No
2	If 'yes' provide details	Ropes in good condition
5.11	Details of any specific mooring equipment required for any vessel utilising the berth	None.

5.12	Does the terminal require the vessel to rig Emergency Towing Off Pennants (ETOPs) while at the berth?	
1	(LTOF3) Willie at the bertin:	Yes
2	If 'Yes', provide details of particular requirements regarding ETOPs.	Hanging outboard fore and aft about 1 to 2 metres above sea water level.
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 pilot instructions
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		Not an SBM
5.19	Largest ship handled at berth to date	OCEAN PRIMERO 101
5.20	Additional comments or information	None
6	Berth Equipment and Facilities	
6.1	Number, type and size of cargo transfer connections	1 x 300 ANSI 6 " LOADING ARM.
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	Minimum manifold pressure 15 kg/cm2. Maximum manifold pressure 18 kg/cm2.
6.4	Are transfer connections fitted with insulation flanges?	
1		Yes
2	Provide details	Annual testing.
6.5	State storage type for LPG	Pressurised
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?	

			a8ca/Uaee1Ub
	1		Yes
	2	Supply details	Hydraulic system.
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 or shore gangway.
6.12		Does the berth have pollution response equipment?	
	1		No
	2	If 'yes' provide details	
6.13		Additional comments or information	
7		Berth Operations	
7.1		What is the primary and backup communication system between ship and terminal during cargo operations?	Primary Dedicated VHF CH06 Backup by voice.
7.2		Is it required that terminal or shore representatives stay on board during	
	1	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?	30 Knots for stopping Cargo 35 knots 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	This type of operations not required for LPG tankers.
7.5		Are there any berth specific requirements regarding tanker inerting procedures?	
	1	procedures:	No
	2	If 'Yes', state requirements	
7.6		Is there a temperature limit for cargo handled?	
7.0	1	is there a temperature inner or earge naturalea.	Yes
	2	If 'Yes', state temperature limits	Minimum allowed 0 degree 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	oreal arrace par poses.	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	1 2	Are there any restrictions regarding Hydrogen Sulphide content in Cargo Tanks?  If 'Yes', state restriction	No
7.12			No
7.13 1 2		Are there any restrictions on handling stores when a ship is moored alongside berth?  If 'Yes', state restriction	Yes  Not permitted during cargo handling.
7.14	ļ	Additional comments or information	
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)	Yes Ex-pipe.
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 Ex-pipe. Not operated by Repsol.
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)	No
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)	No

8.8		Are garbage reception facilities available at the berth.	
	1		Yes
	2	If 'Yes', provide details	Containers.
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	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)	
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	1	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?	
	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	2.70

10.4	Berth heading					237	7	
10.5	Width of the channel adjacent to the berth					260	0.00	
10.6	Position of mooring	g bollards and	hooks					
		Hook/Bol Number a		x' dist to Fende Face (m)	er 'y' dis Line (	st to Target H (m)	eight (m)	SWL (tonnes)
		A(2)		95.00	4.00	3	.00	100.00
		В	-	-65.00	4.00	3	.00	100.00
		С		-40.00	4.00	3	.00	100.00
		D	-	-6.00	4.00	3	.00	100.00
		Е	:	18.00	4.00	3	.00	100.00
		F	•	40.00	4.00	3	.00	100.00
		G	(	65.00	4.00	3	.00	100.00
		H(2)	9	95.00	4.00	3	.00	100.00
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)	
		AA	-98.00	-1.00	2.00	3.00	5.00	
		ВВ	-75.00	-1.00	2.00	3.00	5.00	
		CC	-51.00	-1.00	2.00	3.00	5.00	
		DD	-31.00	-1.00	2.00	3.00	5.00	
		EE	-11.00	-1.00	2.00	3.00	5.00	
		FF	9.00	-1.00	2.00	3.00	5.00	
		GG	27.00	-1.00	2.00	3.00	5.00	
		НН	47.00	-1.00	2.00	3.00	5.00	
		II	68.00	-1.00	2.00	3.00	5.00	
10.9	Fender Reaction Da	ata						
10.10	Fender friction coe	fficient (μ)						
10.11	State identity and h	norizontal posi	ition of load	ing arms				
		Loading Arm/Shore Connection ID Number L1		Horizontal co-ordinate Y 0.10	Max Excursion Surge	Max Excursion Sway	Max Excursion Heave	
10.43	Chaha la a di			0.10				
10.12	State loading arm o	-		Min On	May	May	May	
		Loading Arm ID Number	Max Op Height	Min Op Height	Max Excursion Surge	Sway	Heave	
		L1	5.80	-0.20	4.50	6.45	6.00	
10.13	Additional commer	nts or informa	tion					



# Oil Companies International Marine Forum MTIS Programme

## **Berth TPQ**

Berth TPQ: E013

ReportName 8d6619f5-7164-4344-a4db-e495b5602f4c

**Terminal Name: REPSOL BUTANO** 

Terminal Port: PUERTO DE CARTAGENA.

**Terminal Port Authority: AUTORIDAD PORTUARIA DE** 

CARTAGENA (APC).
Country: Spain

Berth Name: E013

2.9

State details of any specific berthing and/or unberthing restrictions

1		Berth General	
1.1		Berth name or number	E013
1.2	1 2	Berth type  If 'Other' please specify	Wharf or Quay
1.3	1 2	Terrestrial co-ordinates of manifold centreline  Latitude  Longitude	373359 North 0005728 West
1.4		Berth users for liquid and gas cargoes	REPSOL PETROLEO, CLH, REPSOL BUTANO
1.5	1 2	Has a structural survey of the berth been undertaken, including its underwater structure?  If 'Yes', state date of last survey	No
1.6	1 2	Has an engineering (mooring and fendering) analysis of berth been undertaken?  If 'Yes', state date of last analysis	No
1.7		Additional comments or information	None
2		Berth Approaches	
2.1	1 2	Is pilotage compulsory?  If 'Yes', state if any vessels are exempted	Yes No exemptions.
2.2		State distance from pilot station(s) to berth	Approx. 2 miles.
2.3	1 3	Is a waiting anchorage available?  If 'Yes', state distance from waiting anchorage to berth	Yes From 3 to 6 miles.
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	14.10 Metres Chart Datum (CD)
2.5		Date of latest survey from which transit depth has been determined	31 March 2014
2.6		Date next survey is due	31 March 2016
2.7		State Maximum Tidal Range in berth approaches	0.30
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

Not applicable

2.10	Minimum under keel clearance (UKC) in berth approaches	
1	Value	0.90 Meters
2	Percentage	6.80 Vessel static draft
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 Metres
2	State datum used	
3	If 'Other' specify other datum used	
4	Further details	Not applicable.
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, 60 mt.
2.14	Additional comments or information	
3	Water Depth Alongside	
3.1	Minimum controlled water depth alongside berth at chart datum	
1	Water depth	14.10 Metres
2	State datum used	Chart Datum (CD)
3	If 'Other' specify datum	
3.2	Date of latest survey from which alongside depth has been determined	31 March 2014
3.3	Date next survey is due	31 March 2016
3.4	Minimum static under keel clearance (UKC) alongside berth	
1	Value	0.90 Meters
2	Percentage	6.80 Vessel static draft
3	Specify other UKC criterion where applicable	None.
3.5	State range of water densities at berth	
1	From	1025.00
2	То	1028.00
3	Further details	as ordinary Survey Practise.
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	0.30
3.9	Are 'over-the-tide' cargo handling operations permitted at the berth?	No
3.10	Does the berth location experience water-level anomalies?	

e495b5602f4c 1 No 2 Provide details 3.11 Additional comments or information **Limiting Vessel Dimensions** 4 4.1 Summer deadweight 1 **TPQ NA Selector** No restrictions 2 Minimum 0.00 Metric Tonnes 0.00 Metric Tonnes 3 Maximum 4.2 Berthing displacement 1 **TPO 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 0.00 Metric Tonnes 3 Maximum 4.4 State any deadweight/displacement exceptions 1 **TPQ NA Selector** No restrictions 2 No exceptions 4.5 Cubic capacity (gas carriers) 1 **TPQ NA Selector** No restrictions 2 Minimum 0.00 Cubic metres Maximum 0.00 Cubic metres Length over all (LOA) 4.6 1 **TPQ NA Selector** Applicable 2 Minimum 0.00 Metres 3 Maximum 230.00 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	2.40 Metres
3	Maximum	18.80 Metres
4.15	Manifold to shipside rail distance	
1	TPQ NA Selector	No restrictions
2	Minimum	0.00 Metres
3	Maximum	0.00 Metres
4.16	Height of manifold above deck or drip tray	
1	TPQ NA Selector	No restrictions
2	Minimum	0.00 Metres
3	Maximum	0.00 Metres
4	Specify whether height is from the deck or the drip tray	No restrictions. As per OCIMF
4.17	Manifold spacing	
1	TPQ NA Selector	No restrictions
2	Minimum	0.00 Metres
3	Maximum	0.00 Metres
4.18	Maximum air draft alongside	
1	TPQ NA Selector	No restrictions
2		0.00
4.19	Vessel's minimum derrick/crane Safe Working Load (SWL)	
1	TPQ NA Selector	No restrictions
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.	5 TUGS AVAILABLE Tug V.B. ANIBAL 5,263 HP and 57.10 MT. Lenght:29.50 m Breadth 11.00.m Tug V.B. ASDRUBAL 5,263 HP and 57.10 MT. Lenght 29.50 m Breadth 11.00 m Tug V.B. CARTAGENA 4,162 HP and 46.00 MT. Lenght 28.00 m Breadth 11.00 m Tug V.B. GLACIAL 5,263 HP and 57.1 MT. Lenght 29.50 m Breath 11.00 m Tug V.B. TIRRENO 5,000 HP and 52 MT. Lenght 28.00 m Breath 11.00 m 4 MOORING CRAFTS AVAILABLE AMARRE 2: 160 HP and Lenght 8.5 m AMARRE 3: 90 HP and Lenght 9.0 m AMARRE 5: 210 HP and Lenght 9.0 m			
5.2	Are ship's or tug's lines used?				
1	Ship/Tug	Tug's Lines			
2	Comments	Follow pilots instructions.			
5.3	Type of fenders installed at berth	Call Time			
1 2	If 'Other' please specify	Cell Type			
5.4	State orientation of vessel alongside berth	Either Port & Starboard Side To			
5.5	At buoy moorings, state which side hose is normally connected				
1	, , , , , , , , , , , , , , , , , , ,	Not applicable			
2	If 'Other' please specify				
5.6	Minimum mooring arrangement	<ul><li>2 Headlines</li><li>2 Forward Breastlines</li><li>2 Forward Back-Springs</li><li>2 Sternlines</li><li>2 After Breastlines</li><li>2 After Back-Springs</li></ul>			
5.7	Describe any additional mooring requirements	None			
5.8	Are there any restrictions using wire mooring ropes?				
2	If 'yes', provide details of restrictions in wire moorings as part of the mooring pattern	No			
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		Yes					
2	If 'Yes', provide details of particular requirements regarding ETOPs.	Hanging off-shore 1 or 2 meters above sea water level.					
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 pilot instructions					
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		Not an SBM					
5.19	Largest ship handled at berth to date	DJANET 242 m					
5.20	Additional comments or information	None.					
6	Berth Equipment and Facilities						
6.1	Number, type and size of cargo transfer connections	1 x 300 ANSI 8 " LOADING ARM.					
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	MINIMUM MANIFOLD PRESSURE 15 KG/CM2. MAXIMUM MANIFOLD PRESSURE 18 KG/CM2.					
6.4	Are transfer connections fitted with insulation flanges?						
1		Yes					
2	Provide details	Annual testing.					
6.5	State storage type for LPG	Pressurised					
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?						

		e495b5602f4c			
1		Yes			
2	Supply details	Hydraulic system.			
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 or shore gangway.			
6.12	Does the berth have pollution response equipment?				
1		No			
2	If 'yes' provide details				
6.13	Additional comments or information				
7	Berth Operations				
7.1	What is the primary and backup communication system between ship and terminal during cargo operations?	Primary Dedicated VHF CH06 Backup by Voice			
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?	30 Knots for stopping Cargo 35 knots for disconnecting Arms			
7.4	Are there any restrictions regarding tank cleaning/Crude Oil Washing (COW) operations at the berth?				
1	16 Novel annuite full details of the secondaristics.	Yes			
2	If 'Yes' provide full details of these restrictions	Not allowed.			
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	Minimum allowed temperature 0 degrees centigrades.			
7.7	Is it permitted for vessels to undertake double-banked operations alongside the berth?				
1	berui:	No			
2	If 'Yes', state limiting criteria				
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	INO			
7.9	Can the berth be used for Ship-to-Ship transfers using terminal facilities?				
7.9	can the pertir be used for ship-to-ship transfers using terminal facilities?	No			

			0.5555551.10
	2	Provide details	
7.10	)	State details regarding any environmental restrictions applicable at the berth	None.
7.11	1 2	Are there any restrictions regarding Hydrogen Sulphide content in Cargo Tanks?  If 'Yes', state restriction	No
7.12	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  Not allowed during cargo operations.
7.14	ļ	Additional comments or information	
8		Available Services	
8.1	1 2	Are Fuel Oil bunkers available?  If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck)	Yes Ex-pipe. not operated by Repsol.
8.2	1 2	Are Diesel Oil bunkers available?  If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck)	Yes Ex-pipe.
8.3		Are Intermediate Oil bunkers available?	
	1		Yes
	2	If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck)	Ex-pipe.
8.4	1 2	Is fresh water available?  If 'Yes', state how delivered (e.g. Ex-Pipe, barge, truck)	Yes Ex-pipe. not operated by Repsol.
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)	No
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	Are engine room sludge and bilge reception facilities available?	Yes
	2	If 'Yes', state how received (e.g. Ex-pipe, barge, truck)	Barge. Not operated by Repsol.

8.8		Are garbage reception facilities available at the berth.					
	1		Yes				
	2	If 'Yes', provide details	Containers and barge.				
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	1	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						
:	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	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	2.70				

10.13										
		Loading Arm ID Number L1	Max Op Height 16.70	Min Op Height -0.30	Max Excursion Surge 5.50	Max on Excursi Sway 8.00	on	Max Excursion Heave 17.00		
10.12	State loading arm operating limits									
		L1	0.10	0.10						
	,	Loading	Horizontal	<u> </u>	Max Excursion Surge	Max on Excursi Sway	on	Max Excursion Heave		
10.11	State identity and h		tion of load	ling arms						
10.10	Fender friction coef									
10.9	Fender Reaction Da	ita								
		GG	18.00	-1.00	2.00	3.00		6.00		
		DD FF	-28.00 2.00	-1.00 -1.00	2.00	3.00 3.00		6.00 6.00		
		CC	-45.00	-1.00	2.00	3.00		6.00		
		BB	-60.00	0.10	2.00	3.00		6.00		
		AA	-77.00	-1.00	2.00	3.00		6.00		
		Number	Target Line (m)	e Fenders (m)	Width (	m) Height	(m)	Contact Area (m2)		
10.8	Fender Location	Fender ID	'x' Dist to	Elevation of	Fender	Fender		Fender		
10.7	Position of mooring	buoys								
40 =	<b>.</b>	J(4)		173.00	35.	UU	3.00		100.00	
		I(4)		135.00	35.		3.00		60.00	
		H(2)		56.00	26.		3.00		60.00	
		G		56.00	2.0		3.00		60.00	
		F		18.00	2.0	0	3.00		60.00	
		Е		-13.00	2.0	0	3.00		60.00	
		D		-45.00	2.0	0	3.00		60.00	
		C		-78.00	2.0		3.00		60.00	
		B(2)		-115.00	29.		3.00		100.00	
	Number and Type Face (r		Face (m) -150.00	Line	Line (m) 3.00		,	100.00		
10.6	Position of mooring	'x' dist to Fender 'y' dist to Target Height (m) SWL (tonnes)								
10.5	Width of the channel adjacent to the berth 220.00									
	Berth heading					145/325				
10.4	Rerth heading						1/15/22	5		