Vessel:	LNGC	Date:	
Port:		Terminal:	LNG Marine Loading
Date of Arrival:		Time of Arrival:	

#### **Instruction for Completion:**

The safety of operations requires that all questions should be answered affirmatively by clearly ticking the appropriate box. If an affirmative answer is not possible, the reason should be given and agreement reached upon appropriate precautions to be taken between the ship and the terminal. Where any question is considered to be not applicable, then a note to that effect should be inserted in the remarks column. A box in the columns shippand serminalquidicates that checks should be carried out by the party concerned.

The presence of the letters **A**, **P** or **R** in the column +Codeø indicates the following:

- A ó any procedures and agreements should be in writing in the remarks column of this Check List or other mutually acceptable form. In either case, the signature of both parties should be required.
- **P** in the case of a negative answer, the operation should not be carried out without the permission of the Port Authority.
- **R** indicates items to be re-checked at intervals not exceeding that agreed in the declaration.

#### Part 'A' - Bulk Liquid General - Physical Checks

	Bulk Liquid . General	Ship	Terminal	Code	Remarks
1.	There is safe access between the ship and shore	✓	✓	R	Shore Gangway
2.	The ship is securely moored.	<b>√</b>	✓	R	4 + 4 + 2 F & A No tension monitor available 30 knots: Stop Loading 35 knots: Disconnect 40 knots: Un-berthing
3.	The agreed ship/shore communication system is operative	АМ	<b>√</b>	A R	System: UHF marine Ch.67 Backup System: Hot Telephone No. 122
4.	Emergency towing-off pennants are correctly rigged and positioned			R	Not required at this Terminal
5.	The ships fire hoses and fire-fighting equipment are positioned and ready for immediate use.	✓		R	
6.	The terminals fire-fighting equipment is positioned and ready for immediate use.		<b>✓</b>		
7.	The ships cargo and bunker hoses, pipelines and manifolds are in good condition, properly rigged and appropriate for the service intended.	<b>√</b>			
8.	The terminals cargo and bunker hoses or arms are in good condition, properly rigged and appropriate for the service intended.		<b>√</b>		
9.	The cargo transfer system is sufficiently isolated and drained to allow safe removal of blank flanges	<b>√</b>	<b>✓</b>		

	prior to connection.				
10.	Scuppers and save-alls on board are effectively plugged and drip trays are in position and empty.	<b>√</b>		R	Tested before arrival and confirmed tight
11.	Temporarily removed scupper plugs will be constantly monitored.	✓		R	For water draining Terminal permission required to be obtain
12.	Shore spill containment and sumps are correctly managed.		✓	R	
13.	The ships unused cargo and bunker connections are properly secured with blank flanges fully bolted.	<b>√</b>			Unused connections fully bolted with blank flanges
14.	The terminals unused cargo and bunker connections are properly secured with blank flanges fully bolted.		<b>√</b>		
15.	All cargo, ballast and bunker tank lids are closed.	✓			
16.	Sea and overboard discharge valves, when not in use, are closed and visibly secured.	<b>√</b>			
17.	All external doors, ports and windows in the accommodation, stores and machinery spaces are closed. Engine room vents may be open.	<b>√</b>		R	All shut, except paint locker and battery locker vents
18.	The ships emergency fire control plans are located externally.	<b>√</b>			Location: Gangway, Accommodation P & S

If the ship is fitted, or is required to be fitted, with an inert gas system (IGS), the following

point should be physically checked:

Inert Gas System		Ship	Terminal	Code	Remarks
	Fixed IGS pressure and oxygen content recorders are working.	✓		R	Monthly Test carried out
ŗ	All cargo tank atmospheres are at positive pressure with oxygen content of 8% or less by volume.	✓		P R	O2 = 0 % by Vol. Atmosphere 100 % HC by Vol.

### Part 'B' - Bulk Liquid General - Verbal Verification

	Bulk Liquid . General	Ship	Terminal	Code	Remarks
21.	The ship is ready to move under its own power.	✓		P R	Engine on Short Notice, no immobilization permitted
22.	There is an effective deck watch in attendance on board and adequate supervision of operations on the ship and in the terminal.	<b>√</b>	<b>√</b>	R	3 deck watchman available at all times
23.	There are sufficient personnel on board and ashore to deal with an emergency.	✓	✓	R	Company SMS to be followed. Shore Leave as agreed on pre-arrival meeting
24.	The procedure for cargo, bunker and ballast handling have been agreed.	NN	MM	A R	As per Cargo Agreement

25.	The emergency signal and shutdown procedure to be used by the ship and shore have been explained and understood.	NN	ММ	A	For Cargo: see communication agreement, ESD 1 link, and UHF Radio Other Emergency: Ship & Shore: Emergency Signal is 3 x Emergency broadcast and PA
26.	Material Safety Data Sheets (MSDS) for the cargo transfer have been exchanged where requested.	✓	<b>✓</b>	P R	MSDS Provided to Ship:
27.	The hazards associated with toxic substances in the cargo being handled have been identified and understood.	✓	<b>√</b>		H2S Content: Benzene Content: CH4 Content: TLV TWA 1000 ppm
28.	An International Shore Fire Connection has been provided.	✓	<b>√</b>		Terminaløs connection located on south side of Loading Platform. Shipøs Connection on the Gangway
29.	The agreed tank venting system will be used.	NN	ММ	A R	Method: Vapour return Line to Shore
30.	The requirements for closed operations have been agreed.	<b>√</b>	✓	R	Closed gauging (Radar and Floaters)
31.	The operation of the P/V system has been verified.	<b>✓</b>			Last DD 2018 verified operation
32.	Where a vapour return line is connected, operating parameters have been agreed.	NN	MM	A R	Shore 59 kPa alarm & 99 kPa ESD-1
33.	Independent high level alarms, if fitted, are operational and have been tested.	NN		A R	Test 2 days before arrival TPS level: 99 % ESD Level: 99.5 %
34.	Adequate electrical insulating means are in place in the ship/shore connection.		<b>√</b>	A R	Insulating flange on arms and insulating rollers on gangway
35.	Shore lines are fitted with a non- return valve, or procedures to avoid back filling have been discussed.		<b>√</b>	P R	
36.	Smoking rooms have been identified and smoking requirements are being observed.	NN	MM	A R	Nominated smoking rooms: Terminal & LNGC: Outside Building
37.	Naked light regulations are being observed.	NN	ММ	A R	No naked Lights allowed
38.	Ship/shore telephones, mobile phones and pager requirements are being observed.	NN	MM	A R	
39.	Hand torches (flashlights) are of an approved type.	✓	✓		Intrinsically safe equipment
40.	Fixed VHF/UHF transceivers and AIS equipment are on the correct power mode or switched off.	✓			VHF & AIS : Low power
41.	Portable VHF/UHF transceivers are of an approved type.	<b>√</b>	<b>√</b>		Explosion proof type
42.	The shipos main radio transmitter aerials are earthed and radars are switched off.	✓			Shipøs Main Radio Grounded Radars: OFF

43.	Electric cables to portable electrical equipment within the hazardous area are disconnected from power.	<b>√</b>	<b>✓</b>		
44.	Window type air conditioning units are disconnected.	<b>√</b>	✓		N/A and all Windows shut
45.	Positive pressure is being maintained inside the accommodation, and air conditioning intakes, which may permit the entry of cargo vapours, are closed.	<b>√</b>			Positive pressure maintained inside accommodation. Air intake gas detection alarm set 30% LEL
46.	Measures have been taken to ensure sufficient mechanical ventilation in the Pump Room.			R	N/A
47.	There is provision for an emergency escape.	<b>√</b>	<b>√</b>		Terminal: Refer to Evacuation Route LNGC: Starboard Side Gangway
48.	The maximum wind and swell criteria for operations have been agreed.	NN	ММ	A	Stop cargo at: 30 kts wind Disconnect at:35 kts wind Unberth at: 40 kts wind
49.	Security protocols have been agreed between the Ship Security Officer and the Port Facility Security Officer, is appropriate.	NN	ММ	A	Terminal MarSec Level: 1 Ship MarSec Level: 1 Visitor Log Book maintained
50.	Where appropriate, procedures have been agreed for receiving nitrogen supplied from shore, either for inerting or purging ships tanks, or for line clearing into the ship.	NN	ММ	A P	Using Shore N2 Ships N2 available

### Part 'D' - Bulk Liquid Gases - Verbal Verification

	Bulk Liquefied Gases	Ship	Terminal	Code	Remarks
1.	Materials Safety Data Sheets are available giving the necessary data for the safe handling of the cargo.	✓	<b>√</b>		MSDS provided and posted in Ships Recreation Rooms and CCR
2.	A manufactureros inhibition certificate, where applicable, has been provided.			Р	N/A
3.	The water spray system is ready for immediate use.	✓	✓		Ready for immediate use, Tested two days before arrival
4.	There is sufficient suitable protective equipment (including self-contained breathing apparatus) and protective clothing ready for immediate use.	<b>√</b>	<b>√</b>		
5.	Hold and inter-barrier spaces are properly inerted or filled with dry air, as required.	<b>√</b>			IBS & IS filled with N2 IBS 0.7 kPa(G) IS 1.2 kPa(G)
6.	All remote control valves are in working order.	✓	<b>√</b>		Operationally Tested and timing taken. Position indicators verified locally and remotely
7.	The required cargo pumps and compressors are in good order, and the maximum working	NN	MM	Α	As per cargo Agreement

		res have been agreen ship and shore.	eed				
8.		efaction or boil-off ent is in good Ord		<b>✓</b>	<b>√</b>		
9:	been po	s detection equipn roperly set for the ted, has been teste ed and is in good	cargo, is ed and	<b>√</b>	<b>√</b>		Methane CH4 Calibration Span Gas A1 @ 30% LEL A2 @ 60 % LEL
10.		system gauges an rectly set and in go		<b>✓</b>	✓		Radar gauges to be compared with Floats gauges at 25, 50, 75, 90 % during cargo operation
11.		ency shutdown sys een tested and are y.		<b>✓</b>	<b>✓</b>		Tested 2 days before Arrival
12.		nd shore have info					Ship: 27 Sec.
	ESD va	alves, automatic va devices.		NN	MM	A	Shore: 5 seconds
13.	betwee maximu temper	ation has been exc on ship and shore of um/minimum atures/pressures of o be handled.	on the	NN	ММ	A	Manifold max. press.: 5 bars Cargo Tanks type: 2G Max. Cargo density: 500 kg/m3 Tank pressure: 25 kPa Min. Cargo Temp.: - 163 C
14.	<ol> <li>Cargo tanks are protected against inadvertent overfilling at all times while any cargo operations are in progress.</li> </ol>		<b>√</b>			Test 2 days before arrival TPS level: 99 % ESD Leve: 99.5 %	
15.	ventilat room is	mpressor room is ed, the electrical responsible properly pressuring rm system is working.	notor sed and	<b>√</b>			30 times exchange capacity with one fan running. Motor room supply. Compressor room extract from top. Continuously running
16.	correct	ank relief valves a ly and actual relief s are clearly and vi ed. ( <i>Record settin</i>	valve isibly	<b>√</b>	<b>✓</b>		
Tank N	No 1	25 kPa	Tank N	No 5		Tank N	o 8
Tank N	No 2	25 kPa	Tank N	No 6		Tank N	o 9
Tank N	No 3	25 kPa	Tank N	No 7		Tank N	o 10
Tank N	No 4	25 kPa					

#### **DECLARATION:**

Shore:

We, the undersigned, have checked the above items in Parts A and B, and where appropriate Part C or D, in accordance with the instructions, and have satisfied ourselves that the entries we have made are correct to the best of our knowledge.

that the orithoc	wo navo maao	are correct to the	io boot or our fair	omougo.			
that those item exceeding	made arrangemes with code £qi						
	edge the status o	of any item char	iges, we will imn	nediately inform	the other		
	For Ship			For Shore			
Name _			Name				
Rank			Position or Tit	ile			
Signature Signature							
Date Date							
Time _			Time				
Record of rep	etitive checks:	1					
Date:							
Time:							
Initials for Ship:							
Initials for Shore:							
Date:							
Time:							
Initials for Ship:							
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