LG TTS version A



The Clean Marine Fuels working group

Bunker Checklist

Liquefied Gas Series

Single Truck to Ship bunker operations

Version A

Bunker operations that are supervised by a Bunker Facility Operator

The different versions of the IAPH Truck to Ship bunker checklists are based upon the number of involved trucks, location and supervision during the LG bunkering as per table below:

Bunker operation	Supervision	Location	Checklist to be used	
Single Truck to Ship	BFO	Bunker facility	LG TTS version A	
Single Truck to Ship	Receiving vessel	Site outside a terminal	LG TTS version B	
Single Truck to Ship	BFO	Terminal	LG TTS version T	
Multiple Trucks to Ship	BFO	Bunker facility	LG TTS version M	

This document is the Single Truck to Ship bunker checklist version A

Content

Who is this checklist for?
Used abbreviations
Instructions for completing the truck-to-ship bunker checklist
Part A1 Preparation - Compatibility assessment topics
Part A2 Preparation - Joint Plan of Bunker Operations topics9
Part A3 General information and bunkering identification number10
Part B1 Pre-operation - PIC Bunker Facility Operator11
Part B2 Pre-operation - PIC receiving vessel
Part C1 Alignment and Agreement - PICs BFO and receiving vessel
Part C2 Alignment and Agreement - PICs BFO and receiving vessel
Part C3 Alignment and Agreement - PIC Bunker Facility Operator
Part C4 Alignment and Agreement - PIC receiving vessel
Part C5 Alignment and Agreement - PICs BFO and receiving vessel
Part D1 Connection Testing - PIC Bunker Facility Operator
Part D2 Connection Testing - PIC receiving vessel
Declaration on parts B - D 24
Part E1 Transfer - PIC Bunker Facility Operator
Part E2 Transfer - PIC receiving vessel
Part F1 Post-operation - PIC Bunker Facility Operator27
Part F2 Post-operation - PIC receiving vessel
Declaration on part F

Who is this checklist for?

This document is **version A** of IAPH's Truck to Ship bunker checklist series for liquefied gasses using a single truck. Among others, this checklist is suitable for Liquid Hydrogen (LH) and Liquefied Methane (LM), e.g. Liquefied Natural Gas (LNG) and Liquefied Biogas (LBG).

This version is for a bunker facility operator and the receving vessel. It has been developed specific for the bunkering of vessels using a truck at a bunker facility under supervision of the BFO, who is fully responsible for the land based activities of the bunkering, the truck operations and bunkering area.

Safe bunker operations depend on good closed-loop communication between all parties involved in the bunker operation, and on compliance with the agreed safety procedures at all stages. This bunker checklist helps to ensure that all appropriate checks are formally agreed, carried out and recorded.

The checklist has been developed in coöperation with maritime industry partners that have expertise on truck to ship bunkering of vessels with liquefied gas that can evaporate into flammable gas. The checklist mitigates the risk of the cryogenic nature of the liquid fuel aswell as the risk of the release of flammable gas.

The bunker process is devided into six phases and the checklist has therefore six main parts:

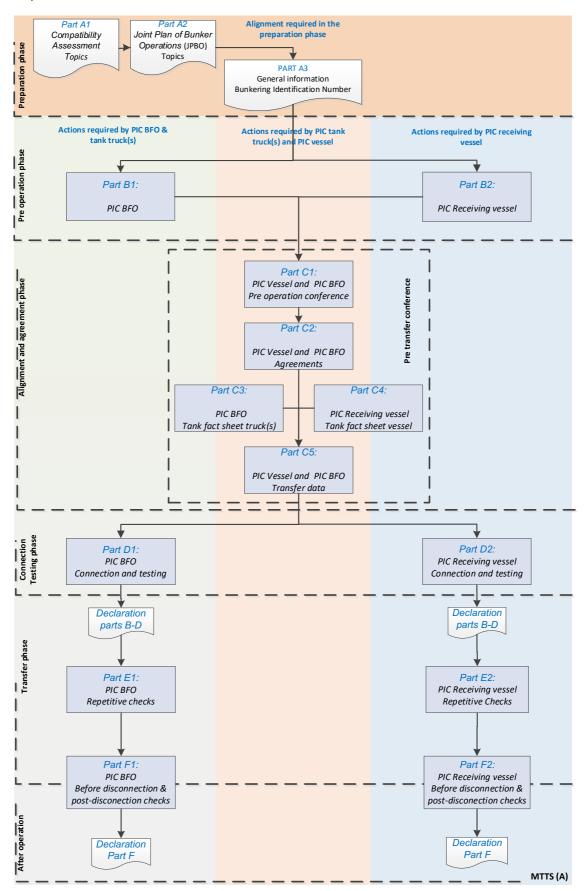
- Part A Preparation phase;
- Part B Pre-operation phase;
- Part C Alignment and agreement phase;
- Part D Connection testing phase;
- Part E Transfer phase;
- Part F Post-operation phase

Used abbreviations

BFO	Bunker Facility Operator
BIN	Bunker Identification Number
JPBO	Joint Plan of Bunker Operations
LBG	Liquefied Biogas
LH	Liquid Hydrogen
LM	Liquefied Methane
LNG	Liquefied Natural Gas
LBG	Liquefied Biogas
PIC	Person in Charge
SIMOPS	Simultaneous operations
TTS	Truck to Ship

Schematic overview of the bunker process

Below is an overview of this specific STTS bunker process in which the Bunker Facility Operator (BFO) has supervision.



Instructions for completing the truck-to-ship bunker checklist

The checklist consists of six main parts, A - F. The main parts are divided into multiple sub-parts for individual completion by either the bunker vessel, the receiving vessel, or the site operator. In part C the sub-parts are completed together during the pre-transfer conference.

Part A: Preparation phase

In the preparation phase the bunker facility operator (BFO) together with the receiving vessel operator shall start a compatibility assessment. **Part A1** with topics for the compatibility check can be used to check if all issues are addressed.

The BFO and vessel operator will agree on who will draft the Joint Plan for Bunker Operations (JPBO) The agreed party shall draft the JPBO based on the operation manual of the truck, the bunker management plan of the involved vessel, the site- and local specific information and the agreements made during the compatibility check. The agreed party will draft the JPBO. **Part A2** with topics for the Joint Plan of Bunker Operations can be used to check if all items are addressed. The agreed party shall send the JPBO to all paries involved.

If there are any outstanding issues this should be explained in the communication for pre-arrival review by the representatives.

Upon receipt of the JPBO, parties involved shall complete **part A3** with the general bunker information and an agreed unique 'Bunker Identification Number' (BIN). This BIN shall be entered in the top right corner on each sub-part throughout the checklist.

Part B: Pre-operation phase

The person in charge (PIC) of the BFO should complete **Part B1.** The PIC of the receiving vessel shall complete **Part B2.** Both parties will review and finalize the JPBO. Copies of part B1 and B2 shall be exchange with the other parties a.s.a.p., but not later than the pre-transfer conference.

Part C: Alignment and agreement phase

Before the operation starts the PIC BFO and the PIC of the receiving vessel should meet to conduct a pre-transfer conference. They shall jointly complete **Part C1** and the agreement sheet **Part C2**. The PIC BFO shall complete **Part C3** and share it with the PIC receiving vessel. The PIC of the receiving vessel shall complete **Part C4** and share it with the PIC BFO. To finalize the pre-bunkering phase the PIC's shall jointly complete **Part C5**.

Part D: Connection and testing phase

Before the operation starts the PIC BFO shall complete **Part D1** the PIC of the receiving vessel shall complete **Part D2**.

Pre-transfer declaration

Before transfer, the PIC BFO and the PIC of the receiving vessel shall undersign the items checked in parts B - D.

Part E: Transfer phase

The PIC BFO shall complete the repetitive checks in **Part E1** at the agreed intervals. The PIC receiving vessel shall complete the repetitive checks in **Part E2** at the agreed intervals. All involved shall have the record available for review by the other involved parties.

Part F: Post-operation phase

At the end of the transfer, before disconnection, the PIC of the BFO shall complete the checks "Before disconnection" of **part F1**, and the PIC of the receiving vessel shall complete the checks "Before disconnection" of **part F2**. When they have confirmed to each other that their predisconnection checks are satisfactory, they may disconnect.

After disconnection the PIC of the BFO shall complete the **part F1** checks "Completion of operation", the PIC of the receiving vessel shall complete the **part F2** checks "Completion of operation".

Post-operation declaration

After transfer the PIC of the BFO and the PIC of the receiving vessel shall undersign the items checked in part F.

Special notes

Checklist code

The codes that are used in the checklist columns indicate:

- A To be entered in the agreement sheet: Part C2
- R Subject to a repetitive check: Part E1, E2, E3
- JPBO See the Joint Bunker Management Plan for details

When unable to check the Yes box

If during the use of the checklists in phase B – F it isn't possible to satisfactorily tick a "Yes" box while the check is applicable, then the issue shall be brought to the immediate attention of the other parties and corrected before the start of the operation. If it is not possible to correct the issue, then a further joint review should be undertaken to confirm whether the bunkering can safely proceed and whether additional mitigations are required to be agreed.

Agreed Physical Quantity

To avoid any confusion during the operation, in Part C5 an agreed decision shall be made on the physical quantity unit:



In this block the agreement is noted on the unit for quantity or volume that will be used during the exchange of information on the quantity or volume.



Part A1 Preparation - Compatibility assessment topics

The list of topics is an unlimited open guidance and can be expanded with other topics.

Local and Site requirements:	Manifold:	Truck:
- Local regulations and approvals	- Distancing	- Routing at the terminal
- Site electrical equipment in the	- Spacing, orientation	- Shore bunker location
Hazardous zone	 Height and strength 	arrangement
 Control zones and safety 	- Layout	 Bonding of truck
measures	- Instrumentation	 Engine switch off
 Controlled acces to safety- and 	- Connectors and connections	- Pump
hazardous zone	- Cryogenic protection	 Weels chock measures
 Approved safety distance to 	- Spill containment	
public (external safety)		People:
- Maximum permitted load of the	Connection:	- Personnel Instruction
quay or jetty	 Lifting arrangements 	 Incident response instruction
	 Bunker hose configuration 	and training
Mooring:	 Distancing (between manifold 	- Familiarity of personnel with
- Mooring analyses	and bunkerstation - height and	safety areas and safety measures
- Mooring points	length)	during bunkering
- Mooring loads	- ESD	 Emergency stop signal and
- Mooring lines	- ESD link	shutdown procedures
- Mooring gear load limits	- ERC	- Organisation
(bollards, chocks, rollers etc.)		 Roles and Responsibilities
- Fendering	Bunkering and safety measures:	
- Hull form flat side	- Freebooard differences during	Incident response:
- Overall dimensions	bunkering	- Fire control plan
- Bridge wings	 Draft and tidal changes 	- Emergency Response procedures
- Freeboard	 Weather and Wave conditions 	 Contingency planning
_ · ·	 Bunkering procedures including 	Communications
Equipment:	cooling down, purging and tests	Communication:
- Approved transfer equipment	- Transfer data	 Joint Plan of Bunker Operations (JPBO)
- Electrical insulation	- Maximum allowable parameters	- Means of communication
- International shore connection	- BOG / vapour management	- Communication procedures and
- Crane and crane reach	- Hazardous area classification and	contact
- Hoses	control	- Details involved parties
- Hose support equipment	- Exposure distances conform	- Language
- Vesel BunkerManifold	Industrial standards (IGC/EIGA)	- Communicatie BFO-PIC Vessel
- Deluge System	- SIMOPS	
 Drip trays, gutters 	- Supervision BFO	



Part A2 Preparation - Joint Plan of Bunker Operations topics

The list of topics is an unlimited open guidance and can be expanded with other topics.

General	Vessels details
- Unique Bunker Identification Number (BIN)	- Description of the involved vessel
- Purpose and scope of the JPBO	- Specification of the ship
- Report of the Compatibility check	 Access to the vessel and access control of safety zones (including supervision)
Transfer system	
- ERS	BFO and truck details
- ESD link	- Description of the BFO
- ESD test	 Specification of the involved truck
 Spill /gas detection and control systems 	- Access control of safety zones (including
	supervision) around truck
Roles and Responsibilities	
- Organization	Bunker preperation
- Responsibilities PIC BFO and vessel and manifold	 Mooring analyses report, mooringplan
crew in charge	 Description of location, bunkering zones
- Mandatory permissions	 Description of the truck routing on the site
	 Description of safety zones
Bunker operation	- Fendering / mooring
- Approach	 Checklist to be used, latest version
- Mooring	- Safety meeting
- Handling and connection of bunker hose and vapor	 Bunker transfer: equipment and procedures
return hose	 Energy carrier supply specification
- Hose Saddle, Deluge System, Manifold Connection,	 Volumes (Quantities and characteristics)
Drip trays, gutters.	- Communication (e.g. language), contact details
 Connection, pressure test, purging, cooling down, gassing up 	 SIMOPS, control zones, safeguards
- Environmental Operating Limits	Emergencies
- Sequence of actions in case of a spill	 Emergency preparedness and response
- PPE, personal safety	- Hull protection, water screens.
- Draining, purging disconnecting, inerting	- Emergency shutdown system
- Post transfer procedures	- Dry break away coupling
- Un-mooring	



Part A3 General information and bunkering identification number

Bunker Identification Number (BIN):	
JPBO version number:	
Planned date and time:	
Port and Berth:	
Energy carrier:	Liquefied Methane / Liquid Hydrogen /
Receiving vessel:	
Bunker Facility Operator:	



Part B1 Pre-operation - PIC Bunker Facility Operator

B1	Check	Status	Code	Remarks
1	Required permissions are granted and observed	□ Yes		
2	Firefighting equipment is ready for use	🗆 Yes		
3	Sufficient area illumination	□ Yes	A - R	
4	The truck is able to move under its own power in a safe and non-obstructed direction	□ Yes	R	
5	Access to the site is controlled	🗆 Yes	R	
6	The bunker location is accessible for the truck	□ Yes		
7	A safe emergency escape route is established	🗆 Yes		
8	Personnel is acquainted with the restricted area and applicable restrictions	□ Yes	А	
9	Appropriate personal protective equipment is identified and available	□ Yes		
10	Site's emergency response team is instructed	□ Yes		
11	Underground or subterranean waterdrains in the quay surface in the hazardous and safety zone are closed	□ Yes		
12	JPBO, supervision and responsibilities are known by the involved truck driver	□ Yes	JPBO	
13	Allocation for bunkering and arrangement of the truck and equipment is conform JPBO	□ Yes	JPBO	
14	The restricted area is free of unauthorized persons, objects, and ignition sources	□ Yes	JPBO	
15	Means to avoid backfilling are in place	□ Yes		
16	Bunker pumps, pressure build up units or other means of transfer are ready for use	□ Yes		
17	No part of the bunker connection can have blocked in volume without a TRV, the TRV outlet is in a safe location	□ Yes		

18	The truck is electrically grounded and the wheels are chocked or mechanically blocked	□ Yes	R	
19	The truck engine is off during the connection, purging and disconnection of the bunker hoses	□ Yes		□ Not applicable
20	The truck engine is switched off during bunkering.	□ Yes		□ Not applicable



Part B2 Pre-operation - PIC receiving vessel

B2	Check	Status	Code	Remarks
1	Mooring arrangement is effective	□ Yes	R	
2	Firefighting equipment is ready for use	□ Yes		
3	Sufficient area illumination	□ Yes	A - R	
4	The receiving vessel can sail under its own power in a safe and non-obstructed direction	□ Yes	R	
5	The restricted area is free of other ships, unauthorized persons, objects, and ignition sources.	□ Yes	R	
6	Vessel entrance is controlled, and proper safety information is provided at the gangway	🗆 Yes	R	
7	Safety measures within the safety area are observed	□ Yes		
8	External doors, portholes and accommodation ventilation inlets are closed as per operations manual	□ Yes	R	
9	Appropriate personal protective equipment is identified and available	□ Yes		
10	Emergency water spray system is ready for use	□ Yes		
11	Spill arrangements are effective and suitable for the applicable fuel	□ Yes		
12	Hull and deck protection against low temperature is in place.	□ Yes		
13	Bunker pumps and compressors are ready for use	□ Yes		
14	Control valves are well maintained and in good working order	□ Yes		
15	Unused bunker connections are blanked and fully s ecured	□ Yes		
16	Fire control plans are readily available	□ Yes		□ Not applicable
17	International Shore Fire Connection is available.	□ Yes		

18	Planned SIMOPS are in accordance with the safety procedures and risk mitigation in ship's operational documentation and JPBO	□ Yes	JPBO	□ Not applicable
19	SIMOPS will be compliant with local regulations and restrictions	□ Yes		□ Not applicable



Part C1 Alignment and Agreement - PICs BFO and receiving vessel

C1	Check	Ship	BFO	Code	Remarks
1	Present weather and wave conditions are within the agreed limits	□ Yes	□ Yes	A - R	
2	JPBO procedures are known by personnel involved	□ Yes	□ Yes	JPBO	
3	Access between the ship and shore is safe and controlled	🗆 Yes	🗆 Yes		
4	Operation supervision and watchkeeping is adequate	□ Yes	□ Yes		
5	Effective communications are established	□ Yes	□ Yes	A - R	
6	Emergency stop signal and shutdown procedures have been agreed upon, tested, and explained to all personnel involved.	□ Yes	□ Yes	A	
7	Emergency procedures and plans and the contact numbers are known to the persons in charge	□ Yes	□ Yes		
8	Predetermined restricted areas are established and appropriate signs marking these areas are in place	□ Yes	□ Yes	A - R	
9	Agreed safety measures within the safety area are in place including the use of proper PPE	□ Yes	□ Yes	А	
10	Measures for the prevention of falling objects are observed	□ Yes	□ Yes		□ Not applicable
11	Safety Data Sheets are available	□ Yes	□ Yes		
12	Requirements concerning ignition sources are observed	□ Yes	□ Yes	R	
13	Bunker system gauges, high level alarms and high-pressure alarms are operational	□ Yes	□ Yes	R	
14	Boil-off pressure control systems and/or re- liquefaction equipment are operational	□ Yes	□ Yes		
15	Vapour connections are properly connected	□ Yes	□ Yes		□ Not applicable
16	An emergency release coupling (dry break away) is in place and ready for activation	□ Yes	□ Yes	A	

17	ESD arrangements including automatic valves, both on the ship and at the truck, are ready for activation	□ Yes	□ Yes	A	
18	Vessel's person in charge (PIC) can activate ESD truck, PIC BFO can activate ESD vessel.	□ Yes	□ Yes	А	
19	The bunker connection between the ship and the truck is sufficiently supported	□ Yes	□ Yes		
20	The bunker connection between the ship and the truck has adequate electrical insulating means in place.	□ Yes	□ Yes	А	□ Not applicable
21	Competent authorities are notified of the start of bunker operations as per local regulations	□ Yes	□ Yes		□ Not applicable
22	Safety procedures and risk mitigation for SIMOPS are conform to the ship's operational documentation and the JPBO	□ Yes	□ Yes		□ Not applicable



Part C2 Alignment and Agreement - PICs BFO and receiving vessel

C2	Reference to check	Description	Agreement
1	A3	Latest version of the JPBO	Reference: Date / version:
2	C1-20	Electrical insulation	Method:
3	C1-8	Control zones	Reference: Agreed signs:
4	C1-1	Weather and wave limitations	Limits:
5	B1-3 B2-3	Bunker area illumination	Method:
6	C1-5	Communication	VHF / UHF Channel: Language: Primary System: Backup System:
7	C1-6	Emergency stop signal and shutdown procedure	Reference: Alarm signal:
8	C1-17	ESD system	System: Link: Closing time ESD valve receiving ship: Closing time ESD valve truck: Seconds ERC Dry Break Coupling



Part C3 Alignment and Agreement - PIC Bunker Facility Operator

Factsheet truck

Status prior to bunker operations						
C3	Product & grade	Tank capacity	Volume	Temperature	Pressure	Aggregation state
1		m³	PQU	°C / °F ¹⁾	bar / psi ¹⁾ (rel)	Liquid / gaseous ¹⁾

¹⁾ delete as appropriate



Part C4 Alignment and Agreement - PIC receiving vessel

Tank factsheet receiving vessel

	Status prior to bunker operations					
C4		Tank:	Tank:	Tank:	Tank:	
1	Present fuel quantity in bunker tank(s):					m ³
2	Remaining capacity for bunkering:					m ³
3	Temperature:					°C / °F 1)
4	Pressure:					bar / psi ¹⁾ (rel)

¹⁾ delete as appropriate



Part C5 Alignment and Agreement - PICs BFO and receiving vessel

Transfer Data

C5	Agreed Physi	ical Quantity Unit (PQU)
1	The agreed Physical Quantity Unit (PQU):	□ m ³ or □ tonnes or

C5	Agreed transfer data	Bunker facility operator	Receiving vessel	
2	Temperature of the fuel during bunkering:			°C / °F 1)
3	Volume of fuel to be bunkered:			m ³
4	Filling limit bunker tanks:			%
5	Available tank capacity is sufficient for bunker volume:	□ Yes	□ Yes	
6	Starting rate:			PQU per hour
7	Max transfer rate:			PQU per hour
8	Topping up rate:			PQU per hour
9	Work pressure at manifold:			bar / psi ¹⁾ (rel)
10	Max pressure at manifold:			bar / psi ¹⁾ (rel)
11	Bunker line work pressure:			bar / psi ¹⁾ (rel)
12	Max pressure bunker line:			bar / psi ¹⁾ (rel)
13	Max pressure bunker tank:			bar / psi ¹⁾ (rel)

¹⁾ delete as appropriate



Simultaneous operations

C5-14	Agreed simultaneous bunker operations	Bunker	Receiving
	(SIMBOPS) ¹⁾	facility operator	vessel
	□ Not applicable	□ Agreed	□ Agreed

¹⁾ Note that for oil bunker operations a separate bunker checklist should be completed

C5-15	Agreed simultaneous operations during bunkering (SIMOPS)	Bunker facility operator	Receiving vessel
	□ Not applicable	□ Agreed	□ Agreed

C5-16	Restrictions in Bunker / Cargo operations due to	Bunker	Receiving
	SIMBOPS or SIMOPS	facility operator	vessel
	□ Not applicable	□ Agreed	□ Agreed



Part D1 Connection Testing - PIC Bunker Facility Operator

D1	Check	Status	Code	Remarks
1	Transfer systems are tested, operational and ready for use	🗆 Yes		
2	Gas detection systems are tested and operational	□ Yes		
3	All means of communication are tested	□ Yes	R	
4	Emergency stop signals and shutdown procedures are tested	🗆 Yes		
5	Bunker system gauges, high level alarms and high-pressure alarms are operational	🗆 Yes		
6	Safety and control devices on fuel installations are checked and working properly	□ Yes		
7	Boil-off pressure control system is operational and in good working order	🗆 Yes		□ Not applicable
8	Truck ESD arrangements, including automatic valves, are tested and ready for activation	□ Yes		
9	ESD inter-linked connections are established and tested conform the JPBO	□ Yes	JPBO	□ Not applicable
10	ESD's manual activation is tested	□ Yes		
11	 Bunker transfer equipment is confirmed: in good condition of the appropriate type sufficiently supported properly fitted with gaskets/seals lined-up correctly properly rigged secured to the manifolds fully secured 	□ Yes		





BIN:

Part D2 Connection Testing - PIC receiving vessel

D2	Check	Status	Code	Remarks
1	Transfer systems are tested, operational and ready for use	□ Yes		
2	Gas detection systems are tested and operational	□ Yes		
3	All means of communication are tested	□ Yes	R	
4	Emergency stop signals and shutdown procedures are tested	□ Yes		
5	Bunker system gauges, high level alarms and high-pressure alarms are operational	□ Yes		
6	Safety and control devices on fuel installations are checked and working properly	□ Yes		
7	Ship's ESD arrangements, including automatic valves, are tested and ready for activation	□ Yes		
8	ESD inter-linked connections are established and tested conform the JPBO	□ Yes	JPBO	
9	ESD's manual activation is tested	□ Yes		
10	 Bunker transfer equipment is confirmed: in good condition of the appropriate type sufficiently supported properly fitted with gaskets/seals lined-up correctly properly rigged secured to the manifolds fully secured 	□ Yes		



Declaration on parts B - D

We the undersigned have checked the items in the applicable parts B – D as marked and signed below:

	Bunker Facility Operator	Receiving vessel
JPBO received		
Part B - Pre-operation		
Part C - Alignment and agreement		
Part D - Connection testing		

We have satisfied ourselves that the entries we have made are correct to the best of our knowledge and that the parties involved agree to undertake the bunker operation.

We have also made arrangements to carry out repetitive checks as necessary and agreed that those items coded 'R' in the checklist, and noted in part E, which should occur at intervals not more than _____ hours.

If, to our knowledge, the status of any item changes, we will immediately inform the other party.

Bunker Facility Operator	Receiving vessel
Name	Name
Position	Position
Signature	Signature
Date and time	Date and time



Part E1 Transfer - PIC Bunker Facility Operator

Repetitive checks

Note interval: _____ hrs.

E1	Check	Time	Time	Time	Time	Time	Time	Remarks
-	Time of check							
1	Access ship shore is safe and controlled	□ Yes						
2	Communication is functioning	□ Yes						
3	Illumination is sufficient	□ Yes						
4	The restricted area and safety zone requirements are observed	□ Yes						
5	Ignition source restrictions are observed	□ Yes						
6	Back filling protection is operational	□ Yes						
7	Truck cannot move unintentionally	□ Yes						
8	SIMOPS restrictions are observed	□ Yes	□ Not applicable					
-	Initials							



Part E2 Transfer - PIC receiving vessel

Repetitive checks

hrs.

Note interval: _____

Check E2 Time Time Time Time Time Time Remarks Time of check Weather / wave conditions □ Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 1 within limits Mooring arrangement is □ Yes □ Yes □ Yes □ Yes □ Yes 2 🗆 Yes effective □ Yes □ Yes 🗆 Yes □ Yes □ Yes □ Yes 3 Access ship shore is safe Communication is 4 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes functioning 5 Illumination is sufficient 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes Receiving ship can sail 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 6 under its own power Accommodation's external 7 🗆 Yes □ Yes □ Yes □ Yes □ Yes □ Yes doors and ports are closed The restricted area and □ Yes □ Yes 🗆 Yes □ Yes □ Yes □ Yes 8 safety zone requirements are observed Vessel entrance is controlled, and proper 9 □ Yes □ Yes 🗆 Yes □ Yes □ Yes □ Yes safety information is provided at the gangway Ignition source restrictions 🗆 Yes 10 □ Yes □ Yes □ Yes □ Yes □ Yes are observed Overfilling protection is 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 11 operational SIMOPS restrictions are 🗆 Yes 🗆 Yes 12 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes □ Not applicable observed Initials _





Part F1 Post-operation - PIC Bunker Facility Operator

Post-transfer - Before disconnection

F1	Check	Status	Code	Remarks
1	Relevant bunker hoses, fixed pipelines and manifolds are purged, de-iced, inerted and ready for disconnection	□ Yes		
2	All remotely and manually operated valves are closed as required for safe disconnection	□ Yes		
3	Receiving vessel is notified on "ready to disconnect"	□ Yes		

Post-disconnection - Completion of operation

F1	Check	Status	Code	Remarks
4	Restricted area and bunker area on the shore are cleared and restored to standard condition	□ Yes		
5	Relevant documents are signed and exchanged	🗆 Yes		
6	Near misses and incidents are reported to competent authorities	□ Yes		□ Not applicable
7	Competent authorities are notified on the completion of the bunker operation	□ Yes		





Part F2 Post-operation - PIC receiving vessel

Post-transfer - Before disconnection

F2	Check	Status	Code	Remarks
1	Relevant bunker hoses, fixed pipelines and manifolds are purged, de-iced, inerted and ready for disconnection	□ Yes		
2	All remotely and manually operated valves are closed as required for safe disconnection	□ Yes		
3	BFO is notified on "ready to disconnect"	□ Yes		

Post-disconnection - Completion of operation

F2	Check	Status	Code	Remarks
4	Bunker area on the vessel is cleared and restored to standard condition	□ Yes		
5	Relevant documents are signed and exchanged	□ Yes		
6	Near misses and incidents are reported to competent authorities	□ Yes		□ Not applicable



BIN:

Declaration on part F

We the undersigned have checked the items in parts F as marked and signed below:

	Bunker Facility Operator	Receiving vessel
Part F - Post-operation		

We have satisfied ourselves that the entries we have made are correct to the best of our knowledge and that the parties involved agree to have completed the bunker operation.

Bunker Facility Operator	Receiving vessel
Name	Name
Position	Position
Signature	Signature
Date and time	Date and time