

The Clean Marine Fuels working group

Bunker Checklist

Alcohol Based Series

Ship to Ship bunker operations

Version B

Operations at a "Bunker Ready Terminal"

AB STS version B

The different versions of the IAPH bunker checklists are based upon the site operator involvement as per the table below:

Bunker operation type	Site preparations	Bunker operation	Simultaneous operations	Checklist to be used
Ship to Ship Project-based bunker operations	v	V	V	STS version A
Ship to Ship at a "Bunker Ready Terminal"	٧		V	STS version B
Ship to Ship bunker operations without a POAC at buoys, dolphins or at sea				STS version C

This document is the STS bunker checklist version B for alcohol based fuels

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Who is this checklist for?

This document is **version B** of IAPH's Ship to Ship bunker checklist for alcohol based fuels. This checklist is suitable for flammable and toxic liquids, among others methanol, bio-methanol, ethanol and bio-ethanol. This version has been developed specifically for the bunkering of vessels alongside a "Bunker Ready Terminal".

To minimize the risks of the bunkering of alternative fuels, a "Bunker Ready Terminal" has incorporated risk mitigation for the operational handling in procedures of its safety management system. Such a terminal is able to act safe and compliant with the Joint Plan of Bunker Operations, based on the information in the "Terminal Information Sheet" which it receives onforehand from the parties that perform the bunker operation. This includes risk mitigation for simultaneous operations (SIMOPS), without being engaged in the preparation of the bunkering and without a (shared) responsible for the safety of the bunker operation itself.

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 cooperation with maritime industry partners that have expertise in Ship-To-Ship bunkering of vessels with alcohol based fuels. The checklist mitigates the risk related to the flammable and toxic nature of the liquid fuel.

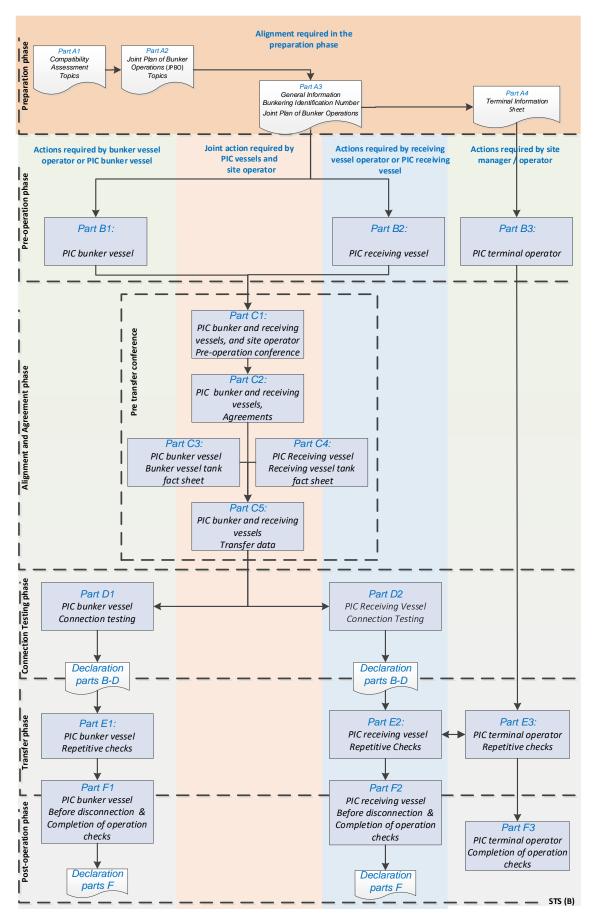
The bunker process is devided into six phases and the checklist has therefore six main parts:

- 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

BIN	Bunker Identification Number
JPBO	Joint Plan of Bunker Operations
BMP	Bunkering Management Plan
ESD	Emergency Shut Down
(P)ERS	(Powered) Emergency Release System
PIC	Person in Charge
POAC	Person in Overall Advisory Control
PPE	Protecting Personal Equipment
QCDC	Quick Connect and Disconnect Coupling
SIMOPS	Simultaneous Operations
STS	Ship to Ship

Schematic overview of the bunker process



Below is an overview of the specific STS bunker process at a Bunker Ready Terminal:

Instructions for completing the ship-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 terminal 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 vessel operator 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.

Both vessel operators will agree on who will take the lead in drafting the Joint Plan of Bunker Operations (JPBO). The agreed party will draft the JPBO based on the bunker management plans of both vessels, the exchanged information and local specific information of the terminal and the agreements made during the compatibility check. **Part A2** with topics for the Joint Plan of Bunker Operations can be used to check if all items are addressed. The agreed party will, based on the JPBO, complete **part A3** (the Terminal Information Sheet) and send this document to the Terminal.

If there are any outstanding items, 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 should 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 bunker vessel shall complete **part B1**. The PIC of the receiving vessel shall complete **part B2**. Both vessel operators will review and finalize the JPBO. Copies of **part B1 and B2** shall be exchanged with the parties as soon as possible, but not later than the pre-transfer conference. The terminal operator shall complete **part B3**.

Part C: Alignment and agreement phase

Before the transfer of fuel starts, the PIC of the bunker vessel and the PIC of the receiving vessel shall meet to conduct a pre-transfer conference. They shall jointly complete **part C1** and the agreement sheet in **part C2**. The PIC of the receiving vessel will supply the terminal operator with operational information. The PIC of the bunker vessel shall complete **part C3** and share it with the PIC of the receiving vessel. The PIC of the receiving vessel shall complete **part C4** and share it with the PIC of the bunker vessel. To finalize the pre-bunkering phase, the PICs shall jointly complete **part C5**.

Part D: Connection testing phase

Before the operation starts the PIC of the bunker vessel completes **part D1**, the PIC of the receiving vessel completes **part D2**.

Pre-transfer declaration

Before transfer, the PICs of the bunker vessel and receiving vessel shall undersign the items checked in **parts B - D**.

Part E: Transfer phase

The PIC of the bunker vessel shall complete the repetitive checks in **part E1** at the agreed intervals. The PIC of the receiving vessel shall complete the repetitive checks in **part E2** at the agreed intervals. The terminal operator PIC shall complete the repetitive checks in **part E3** at the agreed intervals. All involved parties shall have their 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 bunker vessel 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 bunker vessel shall complete the **part F1** checks "Completion of operation", the PIC of the receiving vessel shall complete the **part F2** checks "Completion of operation", **and** the terminal operator PIC shall complete **part F3**.

Post-operation declaration

After transfer the PICs of the bunker vessel and 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

Not applicable

If the " *Not applicable*" tick box is used, then all the involved parties must agree that the relevant safeguard is not applicable.

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:

Agreed Physical Quantity Unit (PQU)					
Note the agreed Physical Quantity Unit (PQU):	□m³	or	□ tonnes	or	

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 terminal requirements:	Manifold:	People:
- Local regulations and approvals	- Distancing	- Personnel Instruction
- Terminal electrical equipment in	- Spacing, orientation	- Incident response instruction
the Hazardous zone	- Height and strength	and training
- Control zones and safety	- Layout	- Familiarity of personnel with
measures	- Instrumentation	safety areas and safety measures
- Controlled acces to safety- and	- Connectors and connections	during bunkering
hazardous zone	- Connections size and design	- Emergency stop signal and
- Approved safety distance to	- QCDC	shutdown procedures
public (external safety)	- Spill containment	- Organisation
		- Roles and Responsibilities
Mooring:	Connection:	- PIC appointment
- Mooring analyses	- Lifting arrangements	
- Mooring points	- Bunker and vapour return hose	Incident response:
- Mooring loads	configuration	- Fire control plan
- Mooring lines	- Distancing (between manifold	- Emergency Response procedures
- Mooring gear load limits	and bunkerstation - height and	- Contingency planning
(bollards, chocks, rollers etc.)	length)	
- Fendering	- ESD, (P)ERC, ESD interlink	Communication:
- Hull form flat side		- Joint Plan of Bunker Operations
- Overall dimensions	Bunkering and safety measures:	(JPBO)
- Bridge wings	- Freebooard differences during	 Means of communication
- Freeboard	bunkering	- Communication procedures and
	 Draft and tidal changes 	contact
Equipment:	- Weather and Wave conditions	 Details involved parties
 Approved transfer equipment 	- Inerting	- Language
- Electrical insulation	- Bunkering procedures including	- Communication PIC Vessels
- International shore connection	purging and tests	 Data communication between
- Crane and crane reach	- Transfer data	safety and ESD systems
 Loading arm and arm reach 	- Maximum allowable parameters	
- Boom	 Vapour management 	
- Hoses	- Hazardous area classification and	
- Hose support equipment	control	
- Manifold	 Exposure distances conform 	
- Deluge System	Industrial standards	
 Drip trays, gutters 	- SIMOPS	
	- Responsibilities PIC and manifold	
	crew in charge	
	- Supervision	



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 vessels
 Purpose and scope of the JPBO 	- Specification of the ships
- Report of the Compatibility check	 Access to the vessel and access control of safety zones (including supervision)
Transfer system	
- ERS	Bunker preparation
- ESD link	 Mooring analyses report, mooringplan
- ESD test	 Description of location, bunkering zones
 Spill /gas detection and control systems 	 Description of safety zones
	- Fendering / mooring
Roles and Responsibilities	- Safety meeting
- Organization	 Bunker transfer: equipment and procedures
- Responsibilities PIC vessels and manifold crew in	 Energy carrier supply specification
charge	 Volumes (Quantities and characteristics)
- Mandatory permissions	- Communication (e.g. language), contact details
	- SIMOPS
Bunker operation	 Control zones, safeguards
- Approach	
- Mooring	Emergencies
- Checklist to be used, latest version	 Emergency preparedness and response
 Handling and connection of bunker hose and vapor return hose 	 Emergency shutdown system
- Hose Saddle, Deluge System, Manifold Connection,	
Drip trays, gutters.	
- Connection, pressure test, purging	
- Environmental Operating Limits	
- Sequence of actions in case of a spill	
- PPE, personal safety	
 Draining, purging disconnecting, inerting 	
 Post transfer procedures 	
- Unmooring	



Part A3 General information and bunkering identification number

Bunker Identification Number (BIN):	
JPBO version number:	
Planned date and time:	
Port and Berth:	
Applicable fuel:	Methanol /
Bunker vessel:	
Receiving vessel:	
Terminal:	



Terminal Information Sheet Page 1 of 3

Planned date and time bunkering:	
Terminal:	
Port and Berth:	
Energy carrier:	Methanol /
Bunker vessel:	
Receiving vessel:	

- Competent authorities have granted permission for bunker operations for the specific location and time.
- The terminal will be notified of the start and completion time of bunker operations.
- The ship-to-ship bunkering will not affect the mooring or fendering of the primary ship moored at the terminal.
- The restricted areas on board of the ships are marked and appropriated signed. Unauthorized persons, objects and ignition sources are not allowed within the restricted areas without authorization of a responsible ship officer.
- Planned simultaneous cargo operations during bunkering will be in accordance with the ship's approved operational documentation.
- The terminal should comply with the requirements in the ship's approved operational documentation for risk mitigation during bunkering as specified on page two of the Terminal Information Sheet.
- Precautions should be made to prevent falling objects or any other impact on the bunkering due to terminal activities.
- The ships engaged in the bunkering are provided with an International Shore Connection.

Terminal Information Sheet

Page 2 of 3

Agreed control zones

Control zones		
Hazardous zone:		
Safety zone:		
Monitoring and Security Area:		
Marine Exclusion Zone:		
Drawing added: 🗆 Yes		

Agreed simultaneous bunker operations

Simultaneous bunker activities

Agreed simultaneous operations during bunkering

Cargo activities	

Restricted activities due to simultaneous operations or simultaneous bunkering.

Restricted activities		

Terminal Information Sheet

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Terminal Information Sheet handed over to the Terminal

Date and time:

Agreed party that drafted the JPBO:

Name:

Terminal Information Sheet received by the Terminal

Date and time:

Terminal representative:

Name:



BIN:

Part B1 Pre-operation - PIC bunker vessel

B1	Check	Status	Code	Remarks
1	Mooring arrangement is effective	□ Yes	R	
2	Firefighting equipment is ready for use	□ Yes		
3	Fire control plans are readily available	□ Yes		
4	An International Shore Connection has been provided	□ Yes		□ Not applicable
5	Sufficient area illumination	□ Yes	A - R	
6	The bunker vessel can sail under its own power in a safe and non-obstructed direction	□ Yes	R	
7	The restricted area is free of other ships, unauthorized persons, objects, and ignition sources	□ Yes	R	
8	Safety measures within the safety area are observed	□ Yes		
9	External doors, portholes and accommodation ventilation inlets are closed as per operations manual	□ Yes	R	
10	Appropriate personal protective equipment is identified and available	□ Yes		
11	Safety Shower, eyewash ready for use	□ Yes		
12	Spill arrangements are effective and suitable for the applicable fuel	□ Yes		
13	Scuppers and save-alls are plugged, spill trays are empty, and drains are closed	□ Yes		
14	Bunker pumps are in good working order	□ Yes		
15	Inert gas system is in good working order	□ Yes		□ Not applicable
16	Control valves are well maintained and in good working order	□ Yes		
17	Unused bunker connections are blanked and fully secured	□ Yes		
18	Mandatory signalling for bunkering is shown	□ 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	Fire control plans are readily available	□ Yes		
4	An International Shore Connection has been provided	□ Yes		
5	Sufficient area illumination	□ Yes	A - R	
6	The receiving vessel can sail under its own power in a safe and non-obstructed direction.	□ Yes	R	
7	The restricted area is free of other ships, unauthorized persons, objects, and ignition sources.	□ Yes	R	
8	Vessel entrance is controlled, and proper safety information is provided at the gangway	□ Yes	R	
9	Safety measures within the safety area are observed	□ Yes		
10	Measures for the prevention of falling objects onto the bunker vessel are observed	□ Yes		
11	External doors, portholes and accommodation ventilation inlets are closed as per operations manual	□ Yes	R	
12	Appropriate personal protective equipment is identified and available	□ Yes		
13	Safety Shower, eyewash ready for use	□ Yes		
14	Spill arrangements are effective and suitable for the applicable fuel	□ Yes		
15	Scuppers and save-alls are plugged, spill trays are empty, and drains are closed.	□ Yes		
16	Inert gas system is in good working order	🗆 Yes		□ Not applicable
17	Control valves are well maintained and in good working order	□ Yes		

18	Unused bunker connections are blanked and fully s ecured	□ Yes		
19	Planned SIMOPS are in accordance with the safety procedures and risk mitigation in ship's operational documentation and JPBO	□ Yes	JPBO	□ Not applicable
20	SIMOPS will be compliant with local regulations and restrictions	□ Yes	A - R	□ Not applicable
21	Mandatory signalling for bunkering is shown	□ Yes		□ Not applicable



	Part B3
Pre-operation	- PIC terminal operator

B3	Check	Status	Code	Remarks
1	Terminal is a 'Bunker Ready Terminal' as per the IAPH / CMF Port and Terminal guidance	□ Yes		
2	Terminal Information Sheet received from the receiving vessel	□ Yes		
3	Relevant terminal information exchanged with the receiving vessel	□ Yes		
4	Terminal Information Sheet information shared with relevant terminal personnel	□ Yes		
5	Activities in the safety zone are restricted and controlled	□ Yes	R	□ Not applicable (no safety zone on the shore)
6	Instructions provided to effectuate the monitoring and security area on the shore during bunkering	□ Yes		
7	Restrictions related to the bunker operation are clear to relevant terminal personnel	□ Yes		
8	Allowed SIMOPS and their conditions as per Terminal Information Sheet are clear for relevant operational personnel	□ Yes		
9	Crane operators are instructed to ensure the crane does not remain above the vent riser for long periods	□ Yes		□ Not applicable
10	Crane operators are instructed on the restrictions to reduce the risk of objects falling on the bunker vessel and its equipment	□ Yes		□ Not applicable
11	Vessels have confirmed that fuel installation monitoring systems remain in operation during the entire stay alongside	□ Yes		
12	Communication procedures are established and clear to all involved	□ Yes	R	
13	Relevant operational personnel informed on start and expected completion time of the bunker operation	□ Yes		
14	Terminal incident responders are informed about the start and expected completion time of the bunker operation	□ Yes		
15	Third-party visitors and contractors are informed at the gate about the ongoing bunker operation	□ Yes		



Part C1 Alignment and Agreement -PIC bunker vessel and PIC receiving vessel

C1	Check	Bunker vessel	Receiving vessel	Status	Remarks
1	Present weather and wave conditions are within the agreed limits	□ Yes	□ Yes	A - R	□ Not applicable
2	Access between the ships is safe	□ Yes	🗆 Yes	R	□ Not applicable
3	Access between the ship and shore is safe		□ Yes	R	
4	Operation supervision and watchkeeping are adequate	□ Yes	□ Yes		
5	Means of communications are agreed upon	□ Yes	□ Yes	A - R	
6	Emergency stop signals and shutdown procedures are agreed upon and explained to all personnel involved	□ Yes	□ Yes	A	
7	Emergency procedures and plans, including the contact details, 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	А	
9	Agreed safety measures within the safety area are in place including the use of proper PPE	□ Yes	□ Yes		
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 and toxicity are observed	□ Yes	□ Yes	R	
13	Bunker system gauges, high level alarms and high-pressure alarms are agreed upon	□ Yes	□ Yes	R	
14	Sampling tools agreed upon	□ Yes	□ Yes		□ Not applicable
15	Vapour management agreed upon	□ Yes	□ Yes		□ Not applicable
16	ESD system agreed upon	□ Yes	□ Yes	А	

17	Emergency release system agreed upon	□ Yes	□ Yes	А	□ Not applicable
18	Adequate electrical insulation for the bunker transfer equipment is in place	□ Yes	□ Yes	А	
19	Competent authorities are notified of the start of bunker operations as per local regulations	□ Yes	□ Yes		□ Not applicable
20	Safety procedures and risk mitigation for SIMOPS conform to the ship's operational documentation and the JPBO	□ Yes	□ Yes	JPBO	□ Not applicable



Part C2 Alignment and Agreement - PICs bunker and receiving vessel

C2	Reference to check	Description	Agreement
1	A3	Latest version of the JPBO	Reference: Date / version:
2	C1-18	Electrical insulation	Method:
3	B1-7 B2-7 C1-8	Control zones	Reference: Agreed signs:
4	C1-1	Weather and wave limitations	Limits:
5	B1-5 B2-5	Bunker area illumination	Method:
6	C1-5	Communication	VHF / UHF Channel:
7	C1-6	Emergency stop signal and shutdown procedure	Reference: Alarm signal:
8	C1-16 C1-17	ESD and ERC systems	System: Link: Closing time ESD valve receiving ship: Closing time ESD valve Bunker Vessel: (P)ERC Dry Break Coupling



Part C3 Alignment and Agreement - PIC bunker vessel

Tank factsheet bunker vessel

	Status prior to bunker operations						
С3		Tank:	Tank:	Tank:	Tank:		
1	Quantity per tank:					m ³	
2	Temperature:					°C / °F 1)	
3	02 %:					%	
4	Inert gas:	□ Nitrogen		Other:		•	

¹⁾ delete as appropriate



Part C4 Alignment and Agreement - PIC receiving vessel

Tank factsheet receiving vessel

	Status bunker tanks prior to bunker operations					
C4		Tank:	Tank:	Tank:	Tank:	
1	Present fuel quantity bunker tank(s):					m³
2	Temperature:					°C / °F ¹⁾
3	02%					%
4	Remaining capacity for bunkering:					m³
5	Inert gas:	□ Nitrogen		Other:		

¹⁾ delete as appropriate



Part C5 Alignment and Agreement - PICs bunker and receiving vessel

Transfer Data

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

C5	Agreed transfer data	Bunker vessel	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)
1) del	ete as appropriate			



Simultaneous operations

C5-13	Agreed simultaneous bunker operations	Bunker	Receiving
	(SIMBOPS) ¹⁾	vessel	vessel
		□ Agreed	□ Agreed

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

C5-14	Agreed simultaneous operations during bunkering (SIMOPS)	Bunker vessel	Receiving vessel	Site operator
		□ Agreed	□ Agreed	□ Agreed
		□ Agreed	□ Agreed	□ Agreed
		□ Agreed	□ Agreed	□ Agreed

C5-15 Restrictions in Bunker / Cargo operations due to SIMOPS	Bunker vessel	Receiving vessel	Site operator
	□ Agreed	□ Agreed	□ Agreed
	□ Agreed	□ Agreed	□ Agreed
	□ Agreed	□ Agreed	□ Agreed

C5-16	Information sharing	Bunker vessel	Receiving vessel
The above information Terminal Information	on C5 13 - 15 is shared with the terminal through the n Sheet (TIS)	□ Agreed	□ Agreed



Part D1 Connection Testing - PIC bunker vessel

D1	Check	Status	Code	Remarks
1	All means of communication are tested	□ Yes	R	
2	 Bunker transfer equipment is confirmed: in good condition of the appropriate type properly fitted with gaskets/seals lined-up correctly properly rigged secured to the manifolds sufficiently supported 	□ Yes		
3	Gas detection systems are tested and operational	□ Yes		
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	R	
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	Control valves are in the correct initial positions	□ Yes		
11	Vapour return system tested and ready for use	□ Yes		□ Not applicable
12	Transfer system tested and ready for use	□ Yes		
13	Other parties informed on ready to bunker	□ Yes		





Part D2 Connection Testing - PIC receiving vessel

D2	Check	Status	Code	Remarks
1	All means of communication are tested	□ Yes	R	
2	 Bunker transfer equipment is confirmed: in good condition of the appropriate type properly fitted with gaskets/seals lined-up correctly properly rigged secured to the manifolds sufficiently supported 	□ Yes		
3	Gas detection systems are tested and operational	□ Yes		
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	Control valves are in the correct initial positions	□ Yes		
11	Vapour return system tested and ready for use	□ Yes		□ Not applicable
12	Transfer system tested and ready for use	□ Yes		
13	Other parties informed on ready to bunker	□ 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 vessel	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 vessel	Receiving vessel
Name	Name
Position	Position
Signature	Signature
Date and time	Date and time





BIN:

Part E1 Transfer - PIC bunker vessel

Repetitive checks

Note interval: ______ hrs.

E1	Check	Time	Time	Time	Time	Time	Time	Remarks
-	Time of check							
1	Weather / wave conditions within limits	□ Yes						
2	Mooring arrangement is effective	🗆 Yes	□ Yes					
3	Access between the ships is safe	□ Yes						
4	Communication is functioning	🗆 Yes	□ Yes					
5	Illumination is sufficient	□ Yes						
6	Bunker vessel can sail under its own power	□ Yes						
7	Accommodation's external doors and ports are closed	□ Yes						
8	The restricted area and safety zone requirements are observed	□ Yes						
9	Ignition source and toxicity restrictions are observed	□ Yes						
10	SIMOPS restrictions are observed	□ Yes	□ Not applicable					
11	Fuel level in the tanks are checked	□ Yes						
-	Initials							





Part E2 Transfer - PIC receiving vessel

Repetitive checks

hrs.

Note interval:

E2 Check 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 Access between the 3 🗆 Yes □ Yes □ Yes □ Yes □ Yes □ Yes ships is safe 🗆 Yes 4 Access ship shore is safe 🗆 Yes 🗆 Yes 🗆 Yes □ Yes □ Yes Communication is 5 □ Yes □ Yes □ Yes □ Yes □ Yes □ Yes functioning Illumination is sufficient 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 6 🗆 Yes 🗆 Yes Receiving ship can sail 7 🗆 Yes 🗆 Yes □ Yes 🗆 Yes □ Yes 🗆 Yes under its own power Accommodation's external 8 🗆 Yes 🗆 Yes 🗆 Yes □ Yes 🗆 Yes 🗆 Yes doors and ports are closed The restricted area and 🗆 Yes 9 🗆 Yes 🗆 Yes 🗆 Yes □ Yes safety zone requirements 🗆 Yes are observed Vessel entrance is controlled, and proper 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes □ Yes □ Yes 10 safety information is provided at the gangway Ignition source and toxicity □ Yes □ Yes □ Yes □ Yes □ Yes □ Yes 11 restrictions are observed SIMOPS restrictions are 12 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes □ Not applicable observed Fuel level in the tanks are 🗆 Yes 🗆 Yes 13 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes checked Initials



BIN:

Part E3 Transfer - PIC terminal operator

Repetitive checks

Note interval: ______ hrs.

E3	Check	Time	Time	Time	Time	Time	Time	Remarks
-	Time of check							
1	Communication is functioning	□ Yes						
2	The safety zone requirements are observed	🗆 Yes	□ Not applicable					
3	Monitoring and security area requirements are observed	□ Yes						
4	Access ship shore is safe and controlled	□ Yes						
5	Third party visitors are informed at the terminal entrance about the bunker operation	□ Yes						
6	Ignition source restrictions are observed	□ Yes						
7	SIMOPS restrictions are observed	□ Yes	□ Not applicable					
-	Initials							





Part F1 Post-operation - PIC bunker vessel

Post-transfer - Before disconnection

F1	Check	Status	Code	Remarks
1	Relevant bunker hoses, vapour return lines, fixed pipelines and manifolds are: - purged - inerted - depressurized - liquid free - 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	Bunker area on the vessel is cleared and restored to standard condition	□ Yes		
5	Relevant documents are signed and exchanged	□ Yes		
6	Competent authorities are notified on the completion of the bunker operation	□ Yes		
7	Near misses and incidents are reported to competent authorities	□ Yes		□ Not applicable



Part F2 Post-operation - PIC receiving vessel

Post-transfer - Before disconnection

F2	Check	Status	Code	Remarks
1	Relevant bunker hoses, vapour return lines, fixed pipelines and manifolds are: - purged - inerted - depressurized - liquid free - ready for disconnection	□ Yes		
2	All remotely and manually operated valves are closed as required for safe disconnection	□ Yes		
3	Bunker vessel 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	Terminal operator is notified on the completion of bunkering	□ Yes		
7	Competent authorities are notified on the completion of the bunker operation	□ Yes		
8	Near misses and incidents are reported to competent authorities	□ Yes		□ Not applicable





Part F3 Post-operation - PIC terminal operator

Post-disconnection – Completion of operation

F3	Check	Status	Code	Remarks
1	Relevant personnel are informed of the completion	□ Yes		
2	After departure of bunker vessel: Restricted area is deactivated	□ Yes		
3	Competent authorities are notified on the completion of bunker operation	□ Yes		□ Not applicable
4	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 vessel	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 vessel	Receiving vessel
Name	Name
Position	Position
Signature	Signature
Date and time	Date and time