

AB TTS version T

The Clean Marine Fuels working group

Bunker Checklist

Alcohol Based Series

Single Truck to Ship bunker operations

Version T

Bunker operations that are supervised by a Bunker Facility Operator at a terminal

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

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

This document is the Single Truck to Ship bunker checklist version T for alcohol based fuels

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Who is this checklist for?

This document is **version T** of IAPH's Truck to Ship bunker checklist series for alcohol based fuels using a single truck. This checklist is suitable for flammable and toxic liquids, among others methanol, bio-methanol, e-methanol, ethanol and bio-ethanol.

This version is for a Bunker Facility Operator (BFO), the receiving vessel and the terminal operator. It has been developed specifically for bunkering of vessels at a terminal under supervision of a Bunker Facility Operator. The terminal has a role in controlling land-based activities but is not involved in the safety management of the bunker operation.

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 Single Truck-To-Ship bunkering of vessels with alcohol based fuels. The checklist mitigates the risk of 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:

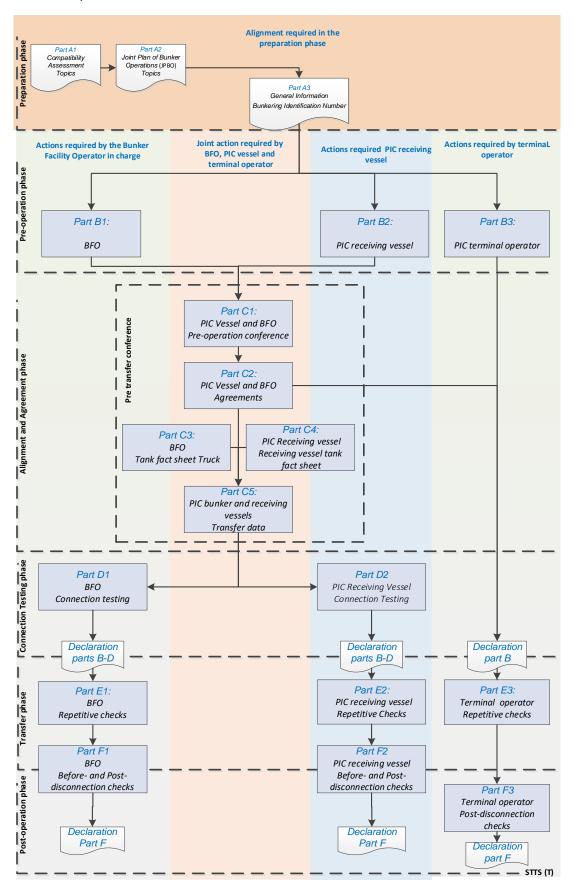
- Part A Preparation phase;
- Part B Pre-operation phase;
- Part C Alignment and agreement phase;
- Part D Connection testing phase;
- Part E Transfer phase;
- Part F Post-operation phase

Used abbreviations

BFO	Bunker Facility Operator
BIN	Bunker Identification Number
JPBO	Joint Plan of Bunker Operations
BMP	Bunkering Management Plan
ESD	Emergency Shut Down
(P)ERC	(Powered) Emergency Release Coupling
PIC	Person in Charge
PPE	Protecting Personal Equipment
QCDC	Quick connect and disconnect coupling
SIMOPS	Simultaneous Operations
TTS	Truck to Ship

Schematic overview of the bunker process

Below is an overview of this specific STTS bunker process in in which which the Bunker Facility Operator 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 facility operator (BFO), the person in charge (PIC) of 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 BFO and the receiving vessel operator shall start a compatibility assessment. **Part A1** with topics for the compatibility can be used to check if all issues are addressed. The receiving vessel operator and BFO then agree on who will draft the Joint Plan for Bunker Operations (JPBO). The agreed party will draft the JPBO based on the operation manual of the truck operator, the bunker management plan of the involved vessel, the site- and local specific information from 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 issues are addressed. The agreed party shall send the JPBO to all parties 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 stage

The person in charge (PIC) of the BFO shall complete **part B1**. The PIC of the receiving vessel shall complete **part B2**. Copies of part B1 and B2 shall be exchange with the other party a.s.a.p., but not later than the pre-transfer conference. The terminal operator shall complete **part B3**.

Part C: Alignment and agreement phase

Before the operation starts the PIC of the BFO 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 **part C2**. The PIC of the BFO shall exchange relevant operational information to the terminal operator. The PIC of the 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 BFO. To finalize the pre-bunkering phase the PIC of the receiving vessel and the BFO shall jointly complete **part C5**.

Part D: Connection and testing phase

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

Pre-transfer declaration

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

Part E: Transfer phase

The 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. The terminal operator shall complete the repetitive terminal/site checks in **part E3** at the agreed intervals. Each involved party shall have the record available for review by another party.

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 eachother 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". The terminal operator shall complete **part F3**.

Post-operation declaration

After transfer the PICs of the bunker vessel, receiving vessel and site operator 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

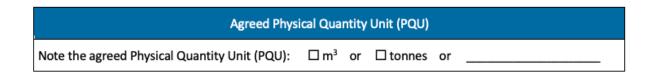
If the " *Not applicable"* tick box is used, then all the involved parties must agree that the relevant safeguard is not applicable.

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:



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 site
- 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 access to safety and 	- Connections, size and design	- Pump
hazardous zone	- QCDC	- 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
	- Distancing (between manifold	- Familiarity of personnel with
Mooring:	and bunkerstation - height and	safety areas and safety measures
 Mooring analyses 	length)	during bunkering
 Mooring points 	- ESD, ESD interlink	 Emergency stop signal and
 Mooring loads 	- (P)ERC / Dry break away coupling	shutdown procedures
 Mooring lines 		- Organisation
 Mooring gear load limits 	Bunkering and safety measures:	 Roles and Responsibilities
(bollards, chocks, rollers etc.)	 Freebooard differences during 	 PIC appointment
- Fendering	bunkering	
 Hull form flat side 	 Draft and tidal changes 	Incident response:
- Overall dimensions	 Weather and Wave conditions 	- Fire control plan
 Bridge wing 	 Bunkering procedures including 	 Emergency Response procedures
- Freeboard	purging and tests	 Contingency planning
	- Transfer data	
Equipment:	 Maximum allowable parameters 	Communication:
- Approved transfer equipment	 Vapour management 	- Joint Plan of Bunker Operations
- Electrical insulation	- Hazardous area classification and	(JPBO)
- International shore connection	control	- Means of communication
- Crane and crane reach	 Exposure distances conform 	- Communication procedures and
- Hoses	Industrial standards	contact Dataile investored as ation
- Hose support equipment	- SIMOPS	- Details involved parties
- Vessel bunker manifold	- Supervision by BFO	- Language
- Deluge System		- Communication PICs Truck(s)
 Drip trays, gutters 		and Ship
		- Data communication between
		safety and ESD systems



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 ships
 Report of the Compatibility check 	- Access to the vessel and access control of safety
	zones (including supervision)
Transfer system	
- ESD link	BFO and truck details
- ESD test	- Description of the BFO
 Emergency Release System 	 Description of the involved truck
 Spill /gas detection and control systems 	 Specification of the involved truck
	 Access control of safety zones (including
Roles and Responsibilities	supervision) around the truck
- Organization	
 Responsibilities BFO-PIC vessel, truck driver and 	Bunker preparation
manifold crew in charge	 Mooring analyses report, mooringplan
 Mandatory permissions 	 Description of location, bunkering zones
	 Description of the truck routing on the site
Bunker operation	 Description of safety zones
- Approach	- Fendering / mooring
- Mooring	 Checklist to be used, latest version
 Shore bunker location arangement 	- Safety meeting
 Handling and connection of bunker hose and vapor 	- Bunker transfer: equipment and procedures
return hose (if applicable)	 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, 	- SIMOPS
gassing up	- Control zones, safeguards
 Environmental Operating Limits 	
 Sequence of actions in case of a spill 	Emergencies
 PPE, personal safety 	 Emergency preparedness and response
 Draining, purging disconnecting, inerting 	- Emergency shutdown system
 Post transfer procedures 	- Dry break away coupling
- Unmooring	



Part A3 General information and bunkering identification number

Bunker Identification Number (BIN):	
JPBO version number:	
si bo version namber.	
Planned date and time:	
De de se d De alt	
Port and Berth:	
Energy carrier:	Methanol /
Receiving vessel:	
Bunker Facility Operator:	
Terminal:	



Part B1 Pre-operation - Bunker Facility Operator

B1	Check	Status	Code	Remarks
1	Required permissions (including terminal permission) 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 terminal is controlled	□ Yes	R	
6	The bunker location is accessible for the truck	□ Yes		
7	A safe emergency escape route is established	□ Yes		
8	Terminal personnel is acquainted with the restricted area and applicable restrictions	□ Yes	JPBO	
9	Appropriate personal protective equipment is identified and available	□ Yes		
10	Terminal'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 to JPBO	□ Yes	R-JPBO	
14	The restricted area is free of unauthorized persons, objects, and ignition sources	□ Yes	R-JPBO	
15	Means to avoid backfilling are in place	□ Yes	R	
16	Bunker pumps are ready for use	□ Yes		□ Not applicable
17	The truck is electrically grounded and the wheels are chocked or mechanically blocked	□ Yes	R	

18	Truck engine is switched off during the connection, purging and disconnection of the bunker hoses	□ Yes	□ Not applicable
19	Control valves are well maintained and in good working order	□ Yes	





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	International Shore Fire Connection is available.	□ 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	R	
10	External doors, portholes and accommodation ventilation inlets are closed as per operations manual	🗆 Yes	R	
11	Appropriate personal protective equipment is identified and available	□ Yes		
12	Safety shower and eyewash are ready for use	□ Yes		
13	Spill arrangements are effective and suitable for the applicable fuel	□ Yes		
14	Scuppers and save-alls are plugged, spill trays are empty and drains are closed.	□ Yes		
15	Inert gas system is in good working order	□ Yes		
16	Control valves are well maintained and in good working order	□ Yes		
17	Unused bunker connections are blanked and fully s ecured	□ Yes		

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



Part B3 Pre-operation - Terminal Operator

B3	Check	Status	Code	Remarks
1	Join Plan of Bunker Operation received	□ Yes	JPBO	
2	Access to the terminal is controlled	□ Yes	R	
3	Sufficient area illumination	□ Yes	A - R	
4	The vessel is capable and allowed to take berth at the planned location	□ Yes		
5	The bunker location is accessible for the truck	□ Yes		
6	The total truck weight does not exceed the maximum permitted load of the quay or jetty	□ Yes		
7	The truck is able to move in a safe and non- obstructed direction	□ Yes	R	
8	A safe emergency escape route is established for the truck	□ Yes		
9	Access to the restricted areas is controlled	□ Yes	R	
10	Terminal personnel is acquainted with the restricted area and applicable restrictions	□ Yes	JPBO	
11	Terminal's emergency response team is instructed.	□ Yes		
12	Underground or subterranean waterdrains in the quay surface in the hazardous and safety zone are closed	□ Yes	R	
13	JPBO, supervision and responsibilities are known by involved terminal personnel	□ Yes	JPBO	
14	Allocation for bunkering and arrangement of the truck and equipment is conform to JPBO	□ Yes	R - JPBO	
15	Safety area around the truck is established conform to JPBO	□ Yes	JPBO	



Part C1 Alignment and Agreement -Bunker Facility Operator and PIC receiving vessel

C1	Check	BFO	Vessel	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	R	
4	Operation supervision and watchkeeping is adequate	□ Yes	□ Yes		
5	Means of communications agreed upon	□ Yes	□ Yes	A - R	
6	Emergency stop signal and shutdown procedures have been agreed upon, tested, and explained to all personnel involved.	□ Yes	□ Yes	А	
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	R	
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. Vessel PIC can activate ESD trucks, BFO PIC can activate ESD vessel	□ 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	□ Not applicable
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 are conform to the ship's operational documentation and the JPBO	□ Yes	□ Yes	JPBO - R	□ 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 B2-5 B3-3	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	C1-16 C1-17	ESD system	System: Link: Closing time ESD valve receiving ship: Closing time ESD valve Truck: ERC Dry Break Coupling Yes
9	B2-20	Signaling	Mandatory signaling during bunkering:



Part C3 Alignment and Agreement - PIC Bunker Facility Operator

Tank factsheet truck

Status prior to bunker operations			
С3		Tank truck ID:	
1	Quantity per tank:		m ³
2	Temperature:		°C / °F ¹⁾
3	02 %		%

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 BFO, receiving vessel and terminal

Transfer Data

C5	Agreed Physical Quantity Unit (PQU)				
1	The agreed Physical Quantity Unit (PQU):	\Box m ³ or \Box 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)
1) del	lete as appropriate	-		·

Simultaneous operations

C5 13	Agreed simultaneous bunker operations (SIMBOPS) ¹⁾	Bunker Facility Operator	Receiving vessel
	□ Not applicable		
		□ 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 Facility Operator	Receiving vessel
	□ Not applicable		
		□ Agreed	□ Agreed

C5 15	Restrictions in Bunker / Cargo operations due to SIMBOPS or SIMOPS	Bunker Facility Operator	Receiving vessel
	□ Not applicable		
		□ Agreed	□ Agreed



Part D1 Connection Testing - PIC Bunker Facility Operator

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 sufficiently supported 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 are operational	□ Yes		
6	Safety and control devices on fuel installations are checked and working properly	🗆 Yes		
7	Truck 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	□ Not applicable
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	Truck engine is switched off for bunkering	□ Yes		□ Not applicable
14	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 sufficiently supported 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 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 Facility Operator	Receiving vessel	Terminal
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	Terminal
Name	Name	Name
Position	Position	Position
Signature	Signature	Signature



Part E1 Transfer - PIC Bunker Facility Operator

Repetitive checks

hrs.

Note interval: _____

E1 Check Time Time Time Time Time Time Remarks Time of check Access ship shore is safe 1 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes and controlled Communication is 2 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes functioning 3 Illumination is sufficient 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes The restricted area and 4 safety zone requirements 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes are observed Ignition source and toxicity 5 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes restrictions are observed Back filling protection is 6 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes operational Truck cannot move 7 🗆 Yes 🗆 Yes □ Yes 🗆 Yes 🗆 Yes 🗆 Yes unintentionally SIMOPS restrictions are 8 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes □ Not applicable observed Fuel level has been 9 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes 🗆 Yes checked Initials _





Part E2 Transfer - PIC receiving vessel

Repetitive checks

Note interval: ______ hrs.

E2	Check	Time	Time	Time	Time	Time	Time	Remarks
-	Time of check							
1	Weather / wave conditions within limits	🗆 Yes	□ Yes					
2	Mooring arrangement is effective	🗆 Yes	□ Yes					
3	Access ship shore is safe	□ Yes	□ Yes	□ Yes	🗆 Yes	□ Yes	□ Yes	
4	Communication is functioning	□ Yes						
5	Illumination is sufficient	□ Yes	□ Yes	🗆 Yes	🗆 Yes	□ Yes	□ Yes	
6	Ship 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	Vessel entrance is controlled, and proper safety information is provided at the gangway	□ Yes						
10	Ignition sources and toxicity restrictions are observed	□ Yes						
11	SIMOPS restrictions are observed	□ Yes	□ Not applicable					
12	Fuel levels have been checked	□ Yes						
-	Initials							



Part E3 Transfer - Terminal

Repetitive checks

Note interval: ______ Hr.

E3	Check	Time	Time	Time	Time	Time	Time	Remarks
-	Time of check							
1	Access to the terminal is controlled/closed	□ Yes						
2	Access to the restricted areas is controlled	□ Yes						
3	Underground or subterranean waterdrains in the quay surface in the hazardous and safety zone are closed	□ Yes						
4	Communication is functioning	□ Yes						
5	Illumination is sufficient	□ Yes						
6	Allocation for bunkering and arrangement of the truck and equipment is conform JPBO	□ Yes						
7	The restricted area and safety zone requirements are observed	□ Yes						
8	Ignition source restrictions are observed	□ Yes						
9	SIMOPS restrictions are observed	□ Yes	□ Not applicable					
-	Initials							





Part F1 Post-operation - PIC Bunker Facility Operator

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 and restricted areas on the shore are 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	BFO is notified on "ready to disconnect"	□ Yes		

Post-disconnection - Completion of operation

F2	Check	Status	Code	Remarks
4	Bunker and restricted areas on the vessel 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



BIN:

Part F3 Post-operation - Terminal

F2	Check	Status	Code	Remarks
1	Bunker and restricted areas on the shore are cleared and restored to standard condition	□ Yes		
2	Relevant documents are signed and exchanged	□ Yes		
3	Near misses and incidents are reported to competent authorities	□ Yes		



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	Terminal
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	Terminal
Name	Name	Name
Position	Position	Position
Signature	Signature	Signature
Date and time	Date and time	Date and time