

The Clean Marine Fuels working group

Bunker Checklist

Alcohol Based Series

Ship to Ship bunker operations

Version A

Project-based bunker operations

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	٧	٧	٧	STS version A
Ship to Ship at a "Bunker Ready Terminal"	٧		٧	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 A for alcohol based fuels

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Who is this checklist for?

This document is **version A** 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, e-methanol, ethanol and bio-ethanol. This version has been developed specifically for project-based bunkering of vessels alongside a quay where the site operator is fully engaged in-, and has a shared responsibility for, the safety of the STS bunkering.

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

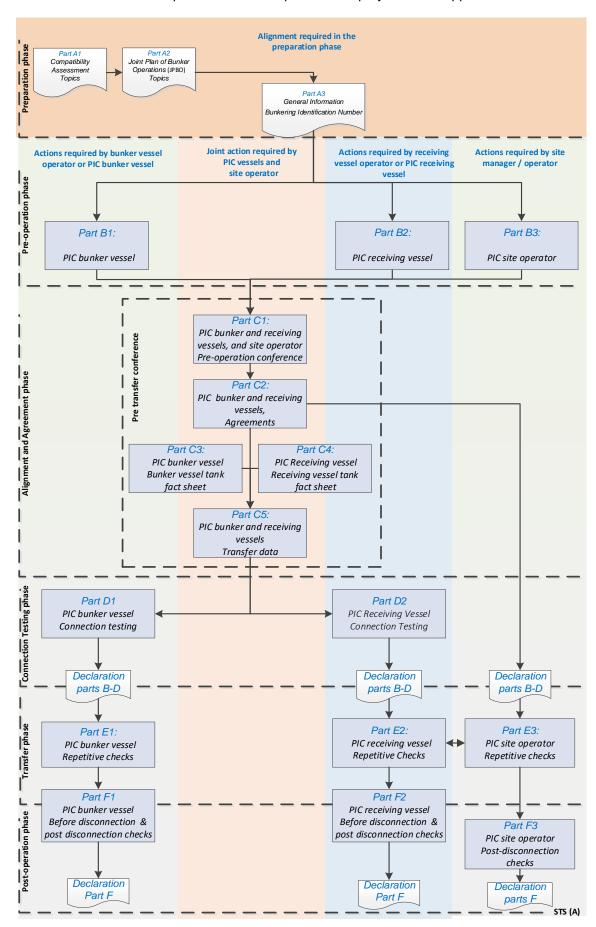
QCDC Quick Connect and Disconnect Coupling

SIMOPS Simultaneous Operations

STS Ship to Ship

Schematic overview of the bunker process

Below is an overview of the specific STS bunker process in a project-based approach:



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 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 vessel operator together with the receiving vessel operator and the site 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 site 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.

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**. The site operator shall complete **part B3**. All involved parties will review and finalize the JPBO. Copies of part B1, B2 and B3 shall be exchanged with the parties as soon as possible, but not later than the pre-transfer conference.

Part C: Alignment and agreement phase

Before the transfer of fuel starts, the PIC of the bunker vessel, the PIC of the receiving vessel and the site operator PIC 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 bunker vessel shall complete **part C3** and shares it with the PIC of the receiving vessel. The PIC of the receiving vessel shall complete **part C4** and shares it with the PIC of the bunker vessel. To finalize the pre-bunkering phase, the PIC of the bunker vessel, the PIC of the receiving vessel and the site operator PIC 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, the receiving vessel and site operator 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 site 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 site operator PIC 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

Not applicable

If the "\subseteq 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 Phys	ical Quan	ntity	Unit (PQU)		
Note the agreed Physical Quantity Unit (PQU):	\square m ³	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 Site requirements:

- Local regulations and approvals
- Site electrical equipment in the Hazardous zone
- Control zones and safety measures
- Controlled access to safety- and hazardous zone
- Approved safety distance to public (external safety)

Mooring:

- Mooring analyses
- Mooring points
- Mooring loads
- Mooring lines
- Mooring gear load limits (bollards, chocks, rollers etc.)
- Fendering
- Hull form flat side
- Overall dimensions
- Bridge wings
- Freeboard

Equipment:

- Approved transfer equipment
- Electrical insulation
- International shore connection
- Crane and crane reach
- Loading arm and arm reach
- Boom
- Hoses
- Hose support equipment
- Manifold
- Deluge System
- Drip trays, gutters

Manifold:

- Distancing
- Spacing, orientation
- Height and strength
- Layout
- Instrumentation
- Connectors and connections
- Connections size and design
- QCDC
- Spill containment

Connection:

- Lifting arrangements
- Bunker and vapour return hose configuration
- Distancing (between manifold and bunkerstation - height and length)
- ESD, (P)ERC, ESD interlink

Bunkering and safety measures:

- Free booard differences during bunkering
- Draft and tidal changes
- Weather and Wave conditions
- Inerting
- Bunkering procedures including purging and tests
- Transfer data
- Maximum allowable parameters
- Vapour management
- Hazardous area classification and control
- Exposure distances conform Industrial standards
- SIMOPS
- Responsibilities PIC and manifold crew in charge
- Supervision

People:

- Personnel Instruction
- Incident response instruction and training
- Familiarity of personnel with safety areas and safety measures during bunkering
- Emergency stop signal and shutdown procedures
- Organisation
- Roles and Responsibilities
- PIC appointment

Incident response:

- Fire control plan
- Emergency Response procedures
- Contingency planning

Communication:

- Joint Plan of Bunker Operations (JPBO)
- Means of communication
- Communication procedures and contact
- Details involved parties
- Language
- Communication PIC Vessels
- 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

- Unique Bunker Identification Number (BIN)
- Purpose and scope of the JPBO
- Report of the Compatibility check

Transfer system

- ERS
- ESD link
- ESD test
- Spill /gas detection and control systems

Roles and Responsibilities

- Organization
- Responsibilities PIC vessels and manifold crew in charge
- Mandatory permissions

Bunker operation

- Approach
- Mooring
- Checklist to be used, latest version
- Handling and connection of bunker hose and vapor return hose
- 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

Vessels details

- Description of the involved vessels
- Specification of the ships
- Access to the vessel and access control of safety zones (including supervision)

Bunker preparation

- Mooring analyses report, mooringplan
- Description of location, bunkering zones
- Description of safety zones
- Fendering / mooring
- Safety meeting
- Bunker transfer: equipment and procedures
- Energy carrier supply specification
- Volumes (Quantities and characteristics)
- Communication (e.g. language), contact details
- SIMOPS
- Control zones, safeguards

Emergencies

- Emergency preparedness and response
- Emergency shutdown system



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:	
Site operator:	



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



BIN:			

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 secured	☐ 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



BIN:					

Part B3 Pre-operation - PIC site operator

В3	Check	Status	Code	Remarks
1	Site operator is informed on the result of previous risk assessments, HAZID's and HAZOP's of the involved vessel operators	□ Yes		□ Not applicable
2	Site operator is involved in the SIMOPS HAZID specific for the bunkering at the site	□ Yes		
3	Site operator agrees to, and accepts the safety mitigation strategies specific for site operations on the fuelled vessel concerned	□ Yes		
4	Relevant location and-, site operator specific information, including any site restrictions is incorporated in the JPBO	□ Yes	JPBO	
5	Site operator gave appropriate instructions on the JPBO to relevant site personnel handling / boarding the vessel, e.g., crane operators and planners	□ Yes	JPBO	
6	Site operator has reviewed and agreed upon the final JPBO	☐ Yes	JPBO	
7	Relevant site operator personnel are acquainted with vessels using the applicable fuel, including the primary safety rules	□ Yes		
8	Appropriate site operator safety instructions are in place and relevant site personnel are instructed on the safety measures for handling the vessel simultaneously with bunkering (SIMOPS)	□ Yes	A - R	
9	Relevant site operator personnel are acquainted with recognizing unusual activities or occurrences during bunkering	□ Yes		
10	Personnel boarding the involved vessels are briefed on applicable control zones, and the respective restrictions / safety measures in force	□ Yes	A - R	
11	Activities in the safety zone are restricted and controlled	□ Yes	R	☐ Not applicable (no safety zone on the shore)
12	Site operator instructions are provided to effectuate the monitoring and security area on the shore during bunkering	□ Yes		

13	Personnel is instructed how to act in the event of safety breaches	□ Yes	А	
14	Proper actions to be aware of, and to deal with the risk of emissions from the vent riser are taken	□ Yes		
15	Crane operators are instructed to ensure the crane does not remain above the vent riser for long periods	□ Yes		□ Not applicable
16	Crane operators are instructed on the restrictions to reduce the risk of objects falling on the bunker vessel and its equipment	□ Yes		□ Not applicable
17	Personnel are instructed on how to recognise an alarm related to the applicable fuel, and how to act in the event of such an alarm	□ Yes		
18	In-house emergency response plans and the site's incident response organisation are prepared and instructed on incident scenarios	□ Yes		
19	Proper communication instructions are in place, and clear to all involved	□ Yes	A - R	
20	Both vessels confirmed that fuel installation monitoring systems remain in operation during the entire stay alongside	□ Yes		
21	Relevant personnel are informed on the start and finish time of the bunker operation	□ Yes		
22	Site incident responders are informed about the start and expected completion time of the bunker operation	□ Yes		
23	Third-party visitors and contractors are informed at the site gate about the ongoing bunker operation	□ Yes		
24	Site operator PIC participates in the pre- transfer conference	☐ Yes		



BIN:				

Part C1 Alignment and Agreement PICs bunker vessel, receiving vessel, site operator

C1	Check	Bunker vessel	Receiving vessel	Site operator	Status	Remarks
1	Present weather and wave conditions are within the agreed limits	□ Yes	□ 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 and controlled		□ Yes	□ Yes	R	
4	Operation supervision and watchkeeping are adequate	□ Yes	☐ Yes	□ Yes		
5	Means of communications agreed upon	☐ Yes	☐ Yes	☐ Yes	A - R	
6	Emergency stop signals and shutdown procedures are agreed upon and explained to all personnel involved	□ Yes	☐ Yes	□ Yes	А	
7	Emergency procedures and plans, including the contact details, are known to the persons in charge	□ Yes	☐ Yes	□ Yes		
8	Predetermined restricted areas are established and appropriate signs marking these areas are in place	□ Yes	☐ Yes	□ Yes	А	
9	Agreed safety measures within the safety area are in place including the use of proper PPE	□ Yes	□ Yes	□ Yes		
10	Measures for the prevention of falling objects are observed	□ Yes	□ Yes	□ Yes		□ Not applicable
11	Safety data sheets are available	☐ Yes	☐ Yes	☐ Yes		
12	Requirements concerning ignition sources and toxicity are observed	□ Yes	□ 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		Α	

17	Emergency release system agreed upon	□ Yes	☐ Yes		Α	□ Not applicable
18	Adequate electrical insulation for the bunker transfer equipment is in place	□ Yes	□ Yes		Α	
19	Competent authorities are notified of the start of bunker operations as per local regulations	□ Yes	☐ 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	☐ Yes	JPBO	□ Not applicable



BIN:						

Part C2 Alignment and Agreement - PICs bunker and receiving vessel

C2	Reference to check	Description	Agreement		
1	А3	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	B1-3 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	C1-16 C1-17	ESD and ERC systems	Closing time ESD valve Bunker Vessel: (P)ERC	secon secon Yes Yes	



BIN:	

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:					m³			
2	Temperature:					°C / °F 1)			
3	O2 %:					%			
4	Inert gas:	□ Nitrogen		Other:					

¹⁾ delete as appropriate



BIN:	

Part C4 Alignment and Agreement - PIC receiving vessel

Tank factsheet receiving vessel

		Status b	unker tanks pri	or to bunker op	erations	
C4		Tank:	Tank:	Tank:	Tank:	
1	Present fuel quantity bunker tank(s):					m³
2	Temperature:					°C / °F ¹⁾
3	O2%					%
4	Remaining capacity for bunkering:					m³
5	Inert gas:	□ Nitrogen		Other:		

¹⁾ delete as appropriate



BIN:				

Part C5 Alignment and Agreement - PICs bunker and receiving vessel

Transfer Data

C5	Agreed Phys	sical Quantity Unit (PQU)
1	The agreed Physical Quantity Unit (PQU):	\square m ³ or \square 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:			m³
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⁾ delete as appropriate

Simultaneous operations

C5-13	Agreed simultaneous bunker operations (SIMBOPS) 1)		Bunker vessel	Receiving vessel
			☐ Agreed	☐ Agreed
1) Note tha	t 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



BIN:	

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		



BIN:			

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		





BIN:					

Declaration on parts B - D

We the undersigned have checked the items in the applicable parts $B-D$ as marked and s	igned
below:	

	Bunker vessel	Receiving vessel	Site operator				
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	Site operator
Name	Name	Name
Position	Position	Position
Signature	Signature	Signature
Date and time	Date and time	Date and time



BIN:			

Part E1 Transfer - PIC bunker vessel

Repetitive checks

Repetitive	•
Note interval:	Hr.

E1	Check	Time	Time	Time	Time	Time	Time	Remarks
-	Time of check							
1	Weather / wave conditions within limits	☐ Yes	□ Yes	☐ Yes	☐ Yes	☐ Yes	□ Yes	
2	Mooring arrangement is effective	☐ Yes	□ Yes	□ Yes	☐ Yes	□ Yes	□ Yes	
3	Access between the ships is safe	□ Yes						
4	Communication is functioning	☐ Yes	□ Yes	☐ Yes	☐ Yes	□ Yes	☐ Yes	
5	Illumination is sufficient	□ Yes	☐ Yes	□ Yes	☐ Yes	□ Yes	□ Yes	
6	Bunker vessel can sail under its own power	☐ Yes	☐ Yes	□ Yes	□ Yes	□ Yes	□ 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	☐ Yes	□ Yes	☐ Yes	□ Yes	☐ Yes	
10	SIMOPS restrictions are observed	☐ Yes	□ Not applicable					
11	Fuel levels in the tanks are checked	☐ Yes	☐ Yes	□ Yes	□ Yes	☐ Yes	□ Yes	
-	Initials							



BIN:	

Part E2 Transfer - PIC receiving vessel

Repetitive checks

Note interval	: Hr	r.

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



BIN:			

Part E3 Transfer - PIC site operator

Repetitive checks

Note interval.	Note interval:	Hr.
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E3	Check	Time	Time	Time	Time	Time	Time	Remarks
-	Time of check							
1	Weather / wave conditions within limits	☐ Yes	☐ Yes	□ Yes	□ Yes	☐ Yes	☐ Yes	
2	Communication is functioning	□ Yes	☐ Yes	□ Yes	□ Yes	□ Yes	□ Yes	
3	The safety zone requirements are observed	□ Yes	☐ Yes	□ Not applicable				
4	Monitoring and security area requirements are observed	□ Yes	☐ Yes					
5	Access ship shore is safe and controlled	□ Yes	☐ Yes					
6	Third party visitors to the site are informed at the site entrance about the bunker operation	□ Yes	☐ Yes					
7	Ignition source and toxicity restrictions are observed	☐ Yes	☐ Yes	☐ Yes	□ Yes	☐ Yes	☐ Yes	
8	SIMOPS restrictions are observed	☐ Yes	☐ Yes	□ Yes	□ Yes	☐ Yes	☐ Yes	□ Not applicable
-	Initials							



BIN:	

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



BIN:				

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	Site 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



BIN:	

Part F3 Post-operation - PIC site operator

Post-disconnection – Completion of operation

F3	Check	Status	Code	Remarks
1	Relevant personnel are informed of the completion	☐ Yes		
2	Relevant documents are signed and exchanged	☐ Yes		
3	After departure of bunker vessel: Restricted area is deactivated	☐ Yes		
4	Competent authorities are notified on the completion of bunker operation	☐ Yes		□ Not applicable
5	Near misses and incidents are reported to competent authorities	☐ Yes		□ Not applicable





BIN:

Declaration on part F

2 constant on parts.								
We the undersigned have checked the items in parts F as marked and signed below:								
	Bunker vessel	Receiving vessel	Site operator					
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	Site operator
Name	Name	Name
Position	Position	Position
Signature	Signature	Signature
Date and time	Date and time	Date and time