



EASTERN NAVIGATION PTE LTD



**ENA HABITAT SAFETY CASE
SUMMARY FOR PUBLIC INFORMATION**

EXECUTIVE SUMMARY

Name of the duty holder and address in Brunei Darussalam of the facility.

This Safety Case has been developed for the **ENA Habitat Accommodation Workboat** while operating within the sovereign territory of Negara Brunei Darussalam. Prepared by **Eastern Navigation Pte Ltd**, it fulfils statutory requirements set by the Government of Brunei to demonstrate that ENA Habitat is safe to operate and does not present unacceptable risks to human life, property, or the environment.

The designated owner of this Safety Case is and providing this information to the public is **Mr. Tan Yew Meng, General Manager, Eastern Navigation Pte Ltd**.

FACILITY DUTY HOLDER

Name of the duty holder and address in Brunei Darussalam of the facility

The Duty Holder for ENA Habitat is:

Mr. Tan Wei Lee, Managing Director, Eastern Navigation Pte Ltd

Brunei Address:

In care of **LANTANA SERVICES SDN. BHD.** Lot 7191, No. 13B, Simpang 116, Bangunan Haji Hassan Bin Haji Abd. Ghani Dan Anak-Anak, Jalan Jaya Negara, Kuala Belait KA1931, Negara Brunei Darussalam

STATEMENT OF FITNESS

Confirmation that the facility is subject to these Regulations and that the notification or the Safety Case has been submitted to the competent authority

Eastern Navigation Pte Ltd maintains a **Safety Management System (SMS)** to support its offshore operations in providing safe floating accommodation and deck space for maintenance activities.

This Safety Case confirms that the Duty Holder has:

- Implemented all practicable measures to prevent major accidents and mitigate consequences to people, property, and the environment, maintaining risks **As Low as Reasonably Practicable (ALARP)**.
- Established both **on-site** and **off-site emergency plans**, in consultation with relevant authorities and charterers.
- Ensured the adequacy of the facility's **design, construction, operation, maintenance, and modification** throughout its lifecycle.
- Complied with regulatory requirements by submitting this Safety Case and operating only with a valid **Safety Case Certificate**.
- Ensured all documented procedures are consistently implemented.
- Provided necessary information on the vessel to the public where appropriate.

Through hazard management, competent supervision, and a strong HSE culture, it is confirmed that ENA Habitat is **fit for continued safe operation**.

Assessment confirmed by:

Mr. Tan Wei Lee

Managing Director, Eastern Navigation Pte Ltd

Date of last update: 20 October 2025

The duty holder shall ensure that the information referred to in this Schedule is updated and provided again at intervals not exceeding 5 years.

REGULATORY CONFIRMATION

Confirmation that the facility is subject to these Regulations and that the notification or the Safety Case has been submitted to the competent authority

In accordance with Section 14(1)(c) of the **Workplace Safety and Health (Facilities) (Control of Major Accident Hazards) Regulations (as amended)**, Eastern Navigation Pte Ltd is required to submit a Safety Case for ENA Habitat. This Safety Case has been submitted and approved. The Duty Holder remains responsible for ensuring that all procedures and arrangements described are fully implemented.

FACILITY ACTIVITIES

In explanation in simple terms of the activity or activities undertaken at the facility.

The ENA Habitat is an **Accommodation Workboat**, providing offshore living quarters and deck space for maintenance support. It is not designed for well operations or hydrocarbon production.

Scope covered by this Safety Case:

- **Physical Scope:** Hull, structure, accommodation, vessel systems (propulsion, power generation, navigation, DP systems, communications, lifting appliances, and auxiliary services), lifesaving appliances, storage areas, and all categories of personnel onboard.
- **Operational Scope:**
 - Safe infield and ocean transits between ports and offshore worksites.
 - Provision of safe living and working conditions for all personnel.
 - **Dynamic Positioning (DP) operations** within 500-meter safety zones, including lifting support for client facilities and other vessels.
 - Scheduled and unscheduled maintenance activities (mechanical, electrical, painting).
 - Storage and handling of hazardous and non-hazardous materials in compliance with IMDG requirements.

While ENA Habitat generally operates outside the 500-meter safety zone, certain operations (such as lifting) require entry and coordination with clients and other vessels. All associated risks are addressed in the Safety Case to ensure safe operations and regulatory compliance.

HAZARDOUS SUBSTANCES ONBOARD

The common names or, in the case of hazardous substances, the generic names or the general danger classification of the substances and preparations involved at the facility which could give rise to a major accident, with an indication of their principal hazardous characteristics.

The following substances are present onboard ENA Habitat but are **well below regulatory threshold limits**:

Substance specified in Division 2 of Part II of the Fifth Schedule to the WSHO	Present on board	Above Threshold limit
(a) ACETYLENE	Yes – 150kg maximum	No – limit is 50,000kg
Pure acetylene is a colourless and odourless gas. It has a density of 1.097 kg/m ³ and a boiling point of -84°C. Its auto-ignition temperature is 300°C. Acetylene gas is extremely flammable and easily ignited by open flames, sparks and static discharge, heat and oxidizing materials. However, it also differs from other flammable gases because its molecules are unstable: under certain conditions, it can decompose explosively into its constituent elements - Carbon and Hydrogen. Decomposition of bottled Acetylene may		

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Substance specified in Division 2 of Part II of the Fifth Schedule to the WSHO	Present on board	Above Threshold limit
<p>result in an explosion with a hazard range of many tens of meters; such events are usually triggered by heat, e.g. from an external fire or from flashback of a welding flame down the hose. However the risk of catastrophic decomposition is exacerbated by any damage to cylinder and its internal porous mass. Such damage may be caused by repeated flashbacks or by mishandling or dropping the cylinder. Pure acetylene in itself is not toxic.</p>		
(b) OXYGEN	Yes – 320kg maximum	No – limit is 50,000kg
<p>Pure Oxygen is a colourless and odourless gas. It has a density of 1.429 g/L and a boiling point of -182.962°C. Oxygen is a highly reactive gas that is naturally present in air at a concentration of around 21%. Even a small increase in the oxygen level in the air - to 24% - can create a dangerous situation: it becomes easier to start a fire, which will then burn hotter and more fiercely than in normal air and may be almost impossible to extinguish until all the fuel is burnt. A leaking valve or hose in a poorly ventilated room or confined space can quickly increase the oxygen concentration to a dangerous level. Many materials catch fire spontaneously in the presence of pure oxygen, with oil and grease reacting particularly violently. Inhaling pure oxygen can have harmful effects on people.</p>		
(c) Marine Gas Oil	Yes – Marine Gas Oil 1,700 m³ maximum (Approx. 600 tonnes)	No – limit is 25,000 tonnes
<p>Physical and Chemical Behaviour: Marine Diesel fuel is a flammable liquid. It may be fatal if swallowed, harmful if inhaled and causes skin irritation. It may cause damage to organs through prolonged or repeated exposure. It is toxic to aquatic life with long lasting effects. Potential harm to people and environment: Ignited in an uncontrolled fire marine diesel generates heavy smoke and heat that can burn, kill or asphyxiate people. If leaked in large quantities to the environment it can damage local marine life.</p>		

MAJOR ACCIDENT HAZARDS

General information relating to the nature of the major accident hazards, including their potential effects on the public, property and the environment

Key potential hazards identified include:

No.	Major Accident Hazards (MAH)	Major Accident Events (MAE)
1	Marine Diesel Oil in the main storage tanks, day tanks and piping (approx. 600 tonnes onboard ENA Habitat)	Escalated engine room / marine diesel fires onboard
2	Flammable materials in the Accommodation, e.g. furniture, paper, clothes, plastics, cooking oils & fats.	Escalated Accommodation fires onboard
3	Unrefined Hydrocarbons (crude oil, condensate and natural gas) on client platforms and in connected (sub-sea) pipelines	Fires and explosions resulting from loss of containment of Hydrocarbons on adjacent client facilities impacting the safety of ENA Habitat and its POB. Note that vessel-platform collisions are considered a potential cause of this MAE.

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No.	Major Accident Hazards (MAH)	Major Accident Events (MAE)
4	Bacteria and/or toxins in food	Mass Food poisoning
5	Heavy objects at height lifted by the vessel crane, including the main crane boom (max lift 100 tonnes at 23m height) and auxiliary crane (max lift 48 tonnes at 47m height)	Structural damage and loss of stability of the vessel caused by sudden dropping of heavy load
6	Extreme weather combined with failure to secure loads and/or failure to secure water-tight doors & hatches	Loss of stability and potential capsizes / sinking
7	Adjacent vessels for passenger transfers / Passing vessels	Collisions by Adjacent vessels for passenger transfers / Passing vessels, resulting in structural damage and loss of stability of ENA Habitat
8	Subsea hazards including anchor piles, shallow coral reefs	Structural damage to ENA Habitat and potential loss of stability / capsizes / sinking
9	Personnel / Crewboat transfers	Manoverboard during personnel transfers

PUBLIC INFORMATION IN THE EVENT OF A MAJOR ACCIDENT

Adequate information on how the public concerned will be warned and kept informed in the event of a major accident.

All media communication during an emergency will be managed by the Managing Director or an appointed spokesperson, acting as the single point of contact. A dedicated team of Company Management personnel may be convened to support press releases, media briefings, and conferences.

All public statements will be factual, legally compliant, and aligned with COMAH requirements, including:

- Name of the Duty Holder and the facility's address in Brunei Darussalam.
- Identification of the person giving the statement, by name and position.
- Confirmation that the facility is subject to WSHO and COMAH Regulations, and that the Safety Case/notification has been submitted to the competent authority.
- A clear, plain-language explanation of the activities undertaken at the facility.
- Common or generic names of hazardous substances carried onboard.
- Definition of whether the crisis is local, regional, national, or international.
- Behaviour the public should adopt, including how warnings and updates will be communicated.
- Details of where additional relevant information can be obtained.
- Any other information specified under Brunei WSH (Facilities) COMAH Regulations.

Communication will be conducted in collaboration with the Client and relevant authorities to ensure consistency and accuracy. Updates will be provided through approved channels such as press releases, the Company website, and the emergency notification system. Media will be briefed and updated at regular intervals as new information becomes available.

All media inquiries (calls, emails, correspondence) will be answered promptly, recorded, and logged for transparency, accountability, and audit purposes.

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PUBLIC GUIDANCE ON BEHAVIOUR DURING A MAJOR ACCIDENT

Adequate information on the actions the public concerned should take, and on the behaviour they should adopt, in the event of a major accident.

If the public notices any unsafe behaviour or accidents occurring, they should email hseq@easternnavigation.com or call +65 6268 3222. The public is advised to keep away from any dangerous situations so as not to endanger lives or hamper the work of the emergency services. The public is also advised to cooperate with any instruction or request from the emergency services at the time of an accident.

EMERGENCY ARRANGEMENTS WITH AUTHORITIES

Confirmation that the duty holder is required to make adequate arrangements onsite, in particular, liaison with the emergency services to deal with major accidents and to minimise their effects.

Eastern Navigation Pte Ltd, in coordination with its Brunei entity Lantana Services Sdn Bhd, has established arrangements with Brunei's police, hospitals, and relevant government agencies to ensure an effective emergency response and mitigation in the event of a major accident.

OFFSITE EMERGENCY PLAN

A reference to the offsite emergency plan for the facility. This should include advice to cooperate with any instruction or request from the emergency services at the time of an accident.

Following the initial alert and communications, the Client Emergency Focal Person with the assistance of the Master and Eastern Navigation Pte Ltd's DPA will coordinate further communications as necessary with all external parties in Brunei. The Master of the ENA Habitat or his designate will continue to be responsible for communications between the vessel and the Client / Eastern Navigation Pte Ltd.

All Major Accident Events that occur on the vessel are to be reported by the B Eastern Navigation Pte Ltd's DPA to SHENA within 6 hours directly by telephone. Emergency services are called out as needed and provided with all necessary information for them to help aid in an emergency scenario.

FURTHER INFORMATION

Details of where further relevant information can be obtained, unless making that information available would be contrary to the interests of national security or personal confidentiality or would prejudice to an unreasonable degree the commercial interests of any person.

For additional details, please contact:

MR. JOFFIRY BIN RIFIN

Managing Director, Lantana Services Sdn. Bhd.

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