

# Safety Induction for KN Energies Deutschland GmbH Employees and WHV-2 LNG Terminal Visitors

	NAME	POSITION	DATE
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# CONTENT

1. General Information
2. Terminal Key Locations
3. Hazards and Risk Factors
4. Escape Evacuation & Emergency Preparedness
5. Work Operation and Maintenance O&M
6. Incident Reporting



# 1. General Information

# OVERVIEW

## Terminal Access



## Key Signs and their meaning



Danger  
Explosive  
Atmosphere



Unauthorized  
Persons are  
Permitted to  
Enter



No Open  
Fire Allowed



No Use of  
unauthorized  
electronic  
equipment  
Allowed



No Smoking  
Allowed



No Alcohol or Drugs  
(incl. marihuana)  
Allowed

- **For Employees** – upon Terminal entry make sure you have a valid **Employees Badge**
- **For Visitors** – upon Terminal entry make sure you have a valid **ID Card** and **Entry Permit**
- **For Contractors** – upon Terminal entry make sure you have a valid **ID Card** and **Entry and Work Permits**
- Before entering the Terminal, you may be a subject to a security check. The aim of such inspections is to prevent bringing any **forbidden objects** to the Terminal. Particularly **alcohol, drugs, weapons, explosives**. Security officer may also conduct a random drug and/or alcohol test.
- By entering the Terminal, it is mandatory to wear **Personal Protective Equipment (PPE)**. PPE for Employees, Visitors and Contractors may vary, but minimum PPE requirements includes **safety helmet, safety glasses, high visibility vest and safety shoes**.
- Please pay attention to **ATEX zone signs** and ensure that your **electronic devices are switched off** in these hazard areas (slide No. 18).
- **Permit** is required to take pictures or film.
- **Communication** and **dissemination of information** about the terminal to external parties or the press is only permitted through the DET press office.
- **Interviews** or **the dissemination of information to third parties** or the public without written permission from DET are prohibited.
- **Publications on social media** are prohibited and shall be prosecuted.

# MANDATORY AND SPECIAL PPE

## Mandatory PPE for entering EX zone



1. Safety helmet with chin strap
2. Safety glasses
3. Hi-visibility, antistatic and nonflammable workwear
4. Antistatic shoes
6. Gloves

## Special PPE



Life vest – to be worn during transfer, on Jetty, Pontoon Gangways, and whenever risk of falling overboard can not be excluded.

**Strictly follow CTV crew instructions.**

## Important Information for Visitors



Use handrails whenever available. Always keep one hand free to hold onto the handrail. Especially on sloped surfaces: using the handrail is mandatory. The risk of slipping, particularly on rainy days, should not be underestimated.



# Modification Manipulation and removal of barriers, warning signs or protective devices

Barriers, warning signs, and protective devices are intended to protect against hazards. There are permanent, temporary, organizational, verbal, and written barriers and warning signs.

- ❖ Unauthorized modification and removal, including of parts (e.g., gratings, railings, etc.), is prohibited.
- ❖ If a cover or railing must be temporarily removed for compelling reasons, this area must be secured by other means, e.g., by supervision or permanent barriers, in consultation with the on-site responsible person shift engineer.
- ❖ The exact regulations in each individual case must be discussed with the HSE Officer.



## Umgehen von Sicherheitseinrichtungen

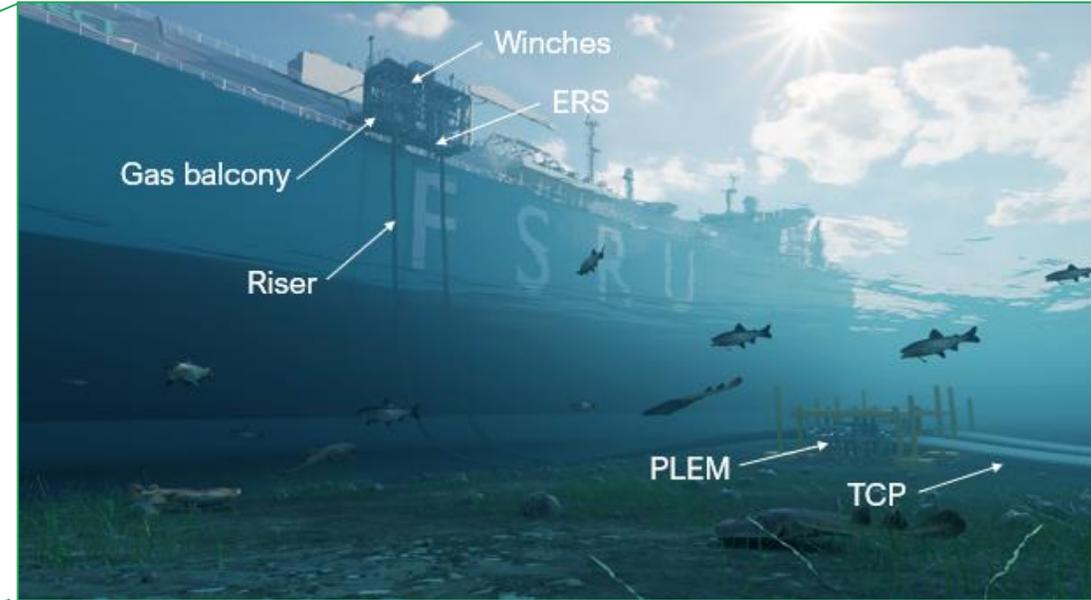
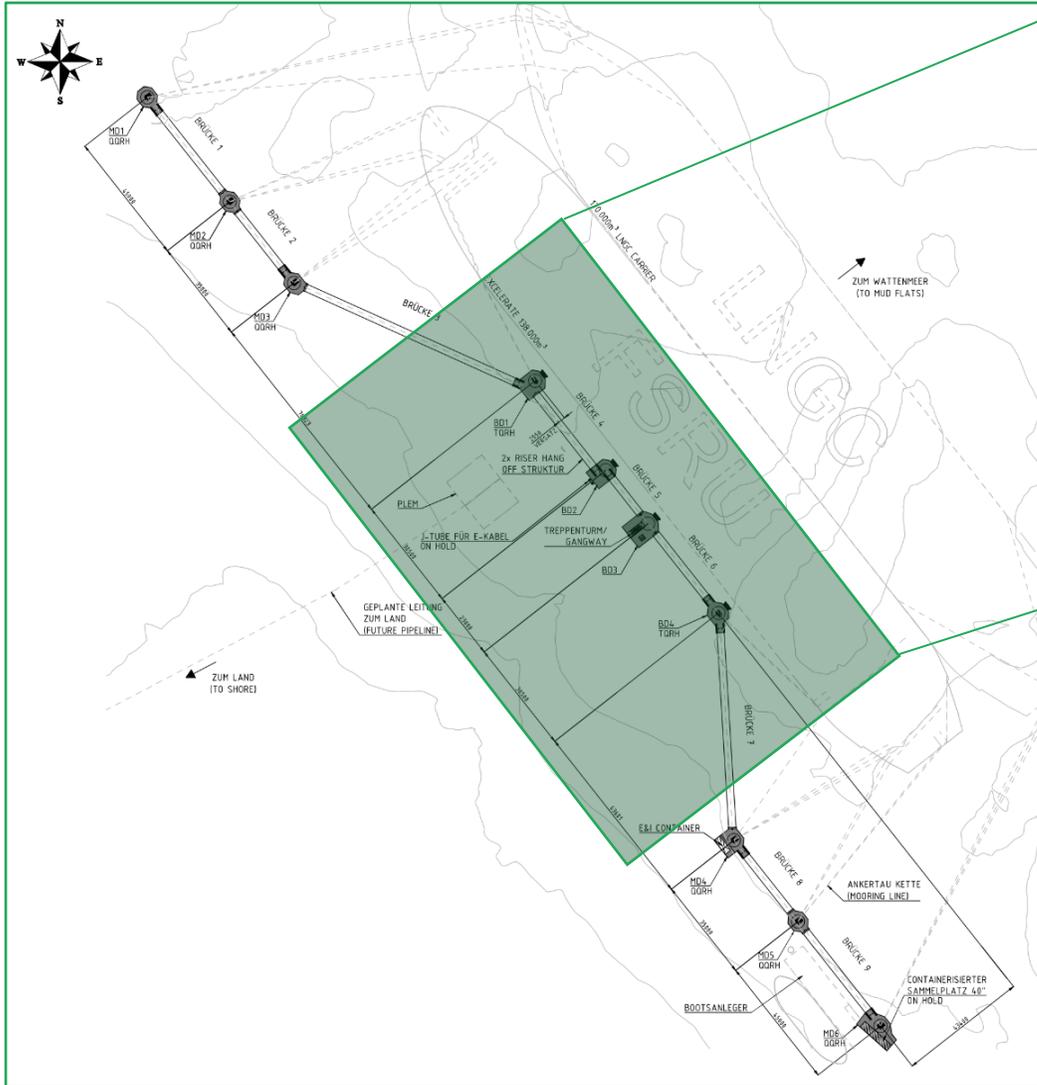
Hole Dir eine Genehmigung ein, bevor Du eine Sicherheitseinrichtung außer Kraft setzen oder deaktivieren willst.

- ⊙ Ich verstehe und verwende sicherheitsrelevante Ausrüstungen und Verfahren, die meinen Aufgabenbereich betreffen.
- ⊙ Ich hole eine Genehmigung ein bevor ich:
  - eine Sicherheitseinrichtung außer Kraft setze oder deaktiviere
  - vom vorgesehenen Ablauf abweiche
  - eine Sicherheitsabspernung überschreite



## 2. WHV-2 Terminal Key Locations

# WILHELMSHAVEN-2 LNG – OFFSHORE GAS TRANSFER SYSTEM



## OVERVIEW:

- Gas Balcony on FSRU, a structure for the connection of gas Risers. Includes Winches to raise/lower the Risers and ERS – Emergency Release System.
- PLEM – Pipeline End Manifold, an underwater connection structure, to interconnect Risers to 6 underwater TCPs (Thermoplastic Composite Pipelines).

# WILHELMSHAVEN-2 LNG – ONSHORE HEADER STATION



## Overview:

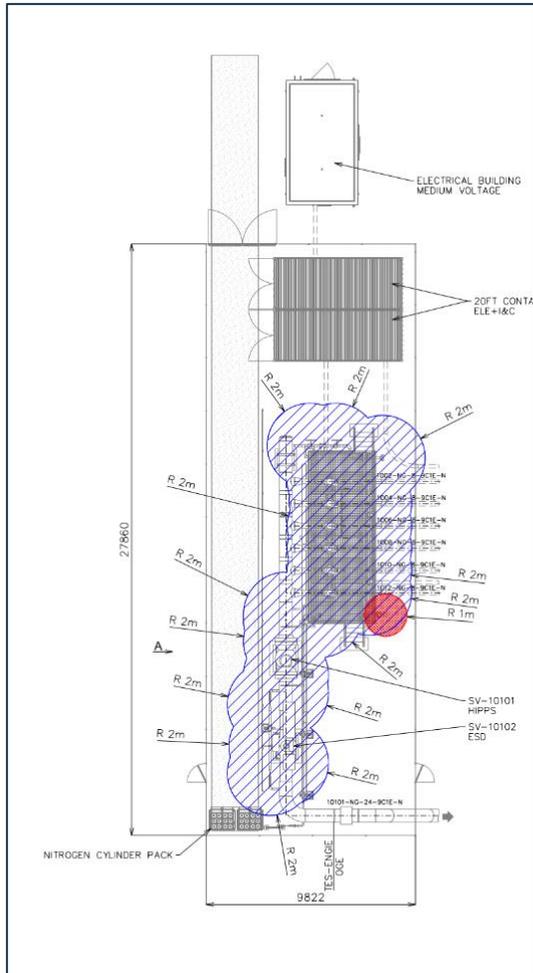
Onshore Header station connects offshore natural gas send-out system to national gas grid operator (OGE). It consists of common gas header where 6 TCPs connect to a High Integrity Pressure Protection System (HIPPS) and Emergency Shutdown System (ESD) that protects the downstream system from gas overpressure.



## 3. Hazards and Risk Factors

# HAZARDOUS AREAS PLAN

Onshore Header Station



Jetty and FSRU



## Classification of hazardous areas in the Terminal:

- **Zone 0** – an **explosive atmosphere is present continuously** or for long periods or frequently;
- **Zone 1** – an **explosive atmosphere is likely to occur** in normal operation occasionally;
- **Zone 2** – an **explosive atmosphere is not likely to occur** in normal operation but, if it does occur, will persist for a short period only.



Zone 1



Zone 2 (**Switch off your electronic devices**)



Ex zone – explosive zone that applies to Zone 1 and Zone 2 shown in the pictures on the left

## Work Related Hazards

Mechanical	Electrical	Hazardous Material	Fire and Explosion	Physical	Environmental
Objects with dangerous surfaces, slips trips and falls,	Electric shocks. Electric Arcs Electrocutions	Gas, vapor/fumes Particles, liquid and solids that could be irritating to the skin, destroy organs and tissues	Fire risk from solid, liquid or gas. Electrostatic discharges Explosive material Explosive atmosphere	Heavy dynamic work, Body posture, static work and a combination of static and dynamic work	Weather/climate Human related factors Animals Plants

# ALARM SIGNAL



Fire Alarm	Gas Alarm	ESD Alarm	AIS Alarm
Red Light Signal	Blue Light Signal	Orange Light Signal	No Light Signal, Only Sound
Sound: DIN	Sound: DIN	Sound: DIN	Sound: DIN

# BEHAVIOR IN THE EVENT OF EVACUATION

- ✓ Once an evacuation/Alarm is triggered all personnel must stop all activity
- ✓ Shut down equipment/plant in accordance with operating procedures, leave the workplace immediately and follow marked escape routes to a point of assembly or shelter in place
- ✓ Do not take personal belongings
- ✓ Do not use the lift
- ✓ Stay at the point of assembly until clear command is given.



# BEHAVIOR IN THE EVENT OF GAS LEAK

## Dangers arise from:

- ✓ Ignition of explosive gas-air mixtures
- ✓ Pressurized media escaping and parts flying or moving under pressure
- ✓ Risk of suffocation from escaping gas

## in case of gas leakage...

- ✓ Keep calm
- ✓ Shut off the gas supply
- ✓ Avoid or eliminate ignition sources
- ✓ Ensure adequate ventilation
- ✓ Clear and keep the danger area clear of unauthorized persons



# BEHAVIOR IN THE EVENT OF BAD WEATHER

## **Be prepared:**

- ❖ Use weather warning apps
- Wear weatherproof clothing

## **Before the storm:**

- ❖ Check scaffolding, machinery, building materials, and work equipment for storm resistance and secure fastening

## **Stop work**

- ❖ Immediately leave endangered areas such as scaffolding, roofs, and tunnels

## **Go to safe areas:**

- ❖ Car, container, or CTV

## **After the storm:**

- ❖ Check for damage
- Have damage to scaffolding, machinery, and electrical equipment professionally repaired
- Have work areas repaired after water ingress



# BEHAVIOR IN THE EVENT OF A FIRE

- ✓ Everyone must be familiar with emergency procedures, escape/evacuation routes, and firefighting equipment.
- ✓ Extinguishing agents or connections must not be concealed, blocked, or tampered with. Access must be ensured at all time.
- ✓ Familiarize yourself with the firefighting equipment and evacuation routes for your work area.
- ✓ In an emergency, proceed calmly and quickly to the assembly point and wait there.

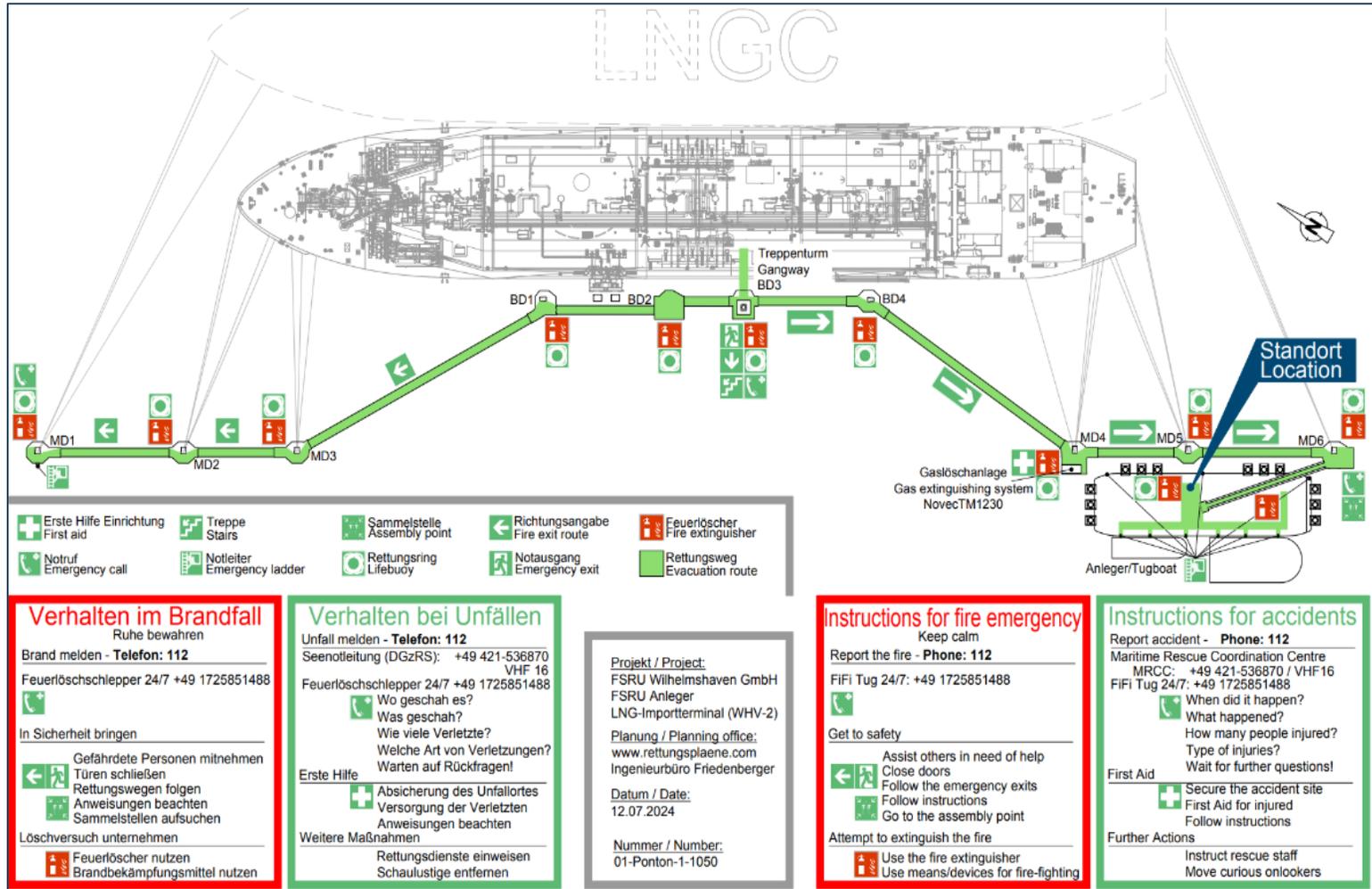


# BEHAVIOR IN THE EVENT OF MAN IN THE WATER

- ✓ Throw the lifebuoy with the line into the water, secure the line, and give a loud voice signal „Man overboard“.
- ✓ Continue to track and indicate the direction of the person in the water.
- ✓ Contact the CCR for rescue and medical assistance, including ambulance services.
- ✓ Seek assistance to organize the retrieval of the person from the water.
- ✓ Provide first aid to the injured person (if possible).



# JETTY EVACUATION ROUTE



In case of gas leak, fire or other emergency at the jetty, all personnel should follow the evacuation route as shown in the evacuation scheme and assemble at the muster point which is located at the pontoon southwest of the jetty. The staff must evacuate on their own, taking the shortest path.

- ❖ A crew transfer boat will be present and moored at the pontoon and ready to evacuate all personnel.



# 4. Escape Evacuation & Emergency Preparedness

# EMERGENCY CONTACT LIST



## AGAP telephone list of external emergency response forces

		Telephone number	
Fire department	Emergency call	112	From GSM phones
	Other	+49 4421 9818-0	
Emergency services	Emergency call	112	From GSM phones
Police	Emergency call	110	From GSM phones
	Other	+49 4421 942-0 +49 4421 942-213	
Water Police		+49 4421 942-832	
Wilhelmshaven Port Office		+49 4421 4098 0999	
Pilot station Wilhelmshaven		+49 4421 994697	8 AM to 5 PM
Pilot station Bremerhaven		+49 471 944242	5 PM to 8 AM
Tug coordinator	Boluda	+49 421 3488 219	
	Fair Play	+49 171 2777 038	
Emergency Command – Maritime Situation Center, Cuxhaven		+49 4721 567 392	mlz@havariekommando.de
Oil Pollution Reporting Center		+49 4721 567 485	
FSRU Excelsior		VoIP +16464448142 +16464448143	Master.excelsior@fleet.acceleratetm.com

# STOP WORK

- ❖ When an "All Stop!" or "Stop Work!" order is issued, all activities must be stopped immediately in a safe and controlled manner.
- ❖ Everyone has the right and responsibility to refuse unsafe work and/or to prevent others from behaving unsafely.
- ❖ This also applies to ambiguous situations.
- ❖ Work will not resume until the hazardous situation has been eliminated or clarified.
- ❖ The supervisor must coordinate the resumption of work.
- ❖ Long work interruptions must be documented.
- ❖ Those calling a stop-work order have the full support of management.

✓ **Restore the site to its original Safe State!**

Safety is our top priority, and everyone at KN Energies DE has the authority to stop work if an activity or condition is perceived to be unsafe or if the task is not fully understood.

A stylized line-art illustration of a person with their mouth open as if shouting. A speech bubble above their head contains the text 'STOP WORK!' in red, bold, uppercase letters.

**STOP  
WORK!**



THANK YOU FOR YOUR  
ATTENTION

QUESTIONS?

