



LİKİTGAZ DAĞITIM ve ENDÜSTRİ A.Ş.

LİKİTGAZ YARIMCA TERMINAL

DANGEROUS CARGO HANDLING GUIDE



ISSUE DATE: 15.09.2026

UGUR AVCI

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## 1. INTRODUCTION

The facility started operating on 20.06.2020. It operates in a total area of 29.451 m<sup>2</sup>, 1793 m<sup>2</sup> of which is closed. Hydrocarbon Gas Mixture - (UN 1965) final products are stored and filled at the terminal. As the terminal border neighbours LİKİTGAZ A.Ş Körfez-4 Facility, EFOR FUEL DAG. A.Ş, LİKİTGAZ A.Ş Körfez-1 Facility has facilities.

1.1. The entry and possession of dangerous goods in the Coastal Facility, the subsequent handling, the general safety and protection of the area, the protection of the loads, the safety of everyone at or near the coastal facility and the protection of the environment should be controlled.

1.2. Safety of life at sea is also related to the safety and protection of a ship, its cargoes and crew at the coastal facility, and the precautions taken regarding dangerous cargoes before they are directly loaded/discharged and during handling.

1.3. The recommendations in this guide are limited to dangerous goods in the port area as part of the transport chain. The recommendations in this guide do not apply to dangerous goods that are generally kept in the port area or used in the port area, but the Administration may wish to check whether the said use and storage procedures comply with legal national requirements.

1.4. Although land, port and sea elements are included in the general transport chain, it is very important that the persons responsible for the matters specified in previous articles take all kinds of precautions and that all relevant information is given to the persons involved in the transport chain, also on the final consignment. Consideration should be given to the possible different requirements for different modes of transport.

1.5. The safe transportation and loading of dangerous goods is based on the correct and precise application of the regulations for the transportation and loading of the cargo in question, and is subject to the judgment of everyone who knows the regulations fully and in detail and is aware of the current risks related to these issues. This can only be achieved through properly planned and executed training and retraining of the persons concerned.

1.6. Laws, regulations and related publications are under constant evaluation and are regularly revised. It is very important to use only current versions. The contents of these Laws, regulations and related publications are reproduced in the recommendations in this guide only to the extent necessary.

1.7. In the preparation of this guide MARPOL, IGC CODE and IMO 1216 CR. documents were consulted and information was used.

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#### FACILITY INFORMATION FORM

|                                       |                                                                                                                  |                                                                                                                                                                                                                                            |                                       |                |                 |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------|-----------------|
| 1                                     | Facility operator name/title                                                                                     | LİKİTGAZ DAĞITIM ve ENDÜSTRİ A.Ş.                                                                                                                                                                                                          |                                       |                |                 |
| 2                                     | Contact information of the facility operator (address, telephone, fax, e-mail and web page)                      | CEVİZLİ MAH. TUGAY YOLU CAD. NO:10/C İÇ<br>KAPI NO:89 MALTEPE / İSTANBUL<br>0216 606 72 00<br><a href="mailto:likitgazdagitim@hs03.kep.tr">likitgazdagitim@hs03.kep.tr</a><br><a href="http://www.milangaz.com.tr">www.milangaz.com.tr</a> |                                       |                |                 |
| 3                                     | Facility name                                                                                                    | LİKİTGAZ YARIMCA TERMINAL                                                                                                                                                                                                                  |                                       |                |                 |
| 4                                     | City where the facility is located                                                                               | KOCAELİ                                                                                                                                                                                                                                    |                                       |                |                 |
| 5                                     | Contact information of the facility (address, telephone, fax, e-mail and web page)                               | BARBAROS MAH. PETROL CAD.NO:15<br>KÖRFEZ/KOCAELİ<br>Phone: 0262 527 14 38<br>e-mail: <a href="mailto:ugur.avci@milangaz.com.tr">ugur.avci@milangaz.com.tr</a>                                                                              |                                       |                |                 |
| 6                                     | Geographical region of the facility                                                                              | MARMARA REGION                                                                                                                                                                                                                             |                                       |                |                 |
| 7                                     | Port Authority and contact details of the facility                                                               | KOCAELİ REGIONAL PORT AUTHORITY<br>ATALAR MAH. SAHİL YOLU CAD. NO:26 YARIMCA<br>KÖRFEZ KOCAELİ<br>Phone: 0262 528 37 54                                                                                                                    |                                       |                |                 |
| 8                                     | Mayor's Office and contact details of the facility                                                               | KÖRFEZ MUNICIPALITY<br>MIMAR SINAN MAH. ESREF BITLİS CAD. NO:369<br>KÖRFEZ/KOCAELİ<br>Phone: 0262 528 23 02                                                                                                                                |                                       |                |                 |
| 9                                     | Name of the Free Zone or Organized Industrial Zone where the facility is located                                 | -                                                                                                                                                                                                                                          |                                       |                |                 |
| 10                                    | Validity date of Coastal Facility Operation Permit/Temporary Operation Permit                                    | 22.05.2029                                                                                                                                                                                                                                 |                                       |                |                 |
| 11                                    | Facility activity status                                                                                         | <table> <tr> <td>Own load and additional 3rd party (X)</td> <td>Own load (...)</td> <td>3rd Party (...)</td> </tr> </table>                                                                                                                | Own load and additional 3rd party (X) | Own load (...) | 3rd Party (...) |
| Own load and additional 3rd party (X) | Own load (...)                                                                                                   | 3rd Party (...)                                                                                                                                                                                                                            |                                       |                |                 |
| 12                                    | Name and surname of the facility manager, contact details (phone, fax, e-mail)                                   | UGUR AVCI<br>Phone: 0532 2254793<br>e-mail: <a href="mailto:ugur.avci@milangaz.com.tr">ugur.avci@milangaz.com.tr</a>                                                                                                                       |                                       |                |                 |
| 13                                    | Name and surname, contact details (phone, fax, e-mail) of the dangerous goods operations officer of the facility | UGUR AVCI<br>Phone: 0532 2254793<br>e-mail: <a href="mailto:ugur.avci@milangaz.com.tr">ugur.avci@milangaz.com.tr</a>                                                                                                                       |                                       |                |                 |

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| 14                   | Name and surname of the Dangerous Goods Safety Advisor of the facility, contact details (phone, fax, e-mail)                                                                                                                                                    | Kerim GÜNAY<br>Phone: 0532 654 62 36<br>E-mail: <a href="mailto:kerim@tmgddanismanlik.com">kerim@tmgddanismanlik.com</a>                                                                                                                                                                                                                            |  |  |       |          |           |           |                    |                    |                      |                    |                    |                 |                    |                    |
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| 15                   | Marine coordinates of the facility                                                                                                                                                                                                                              | <table><tr><th>Point</th><th>Latitude</th><th>Longitude</th></tr><tr><td>Main Buoy</td><td>40°45'52.604<br/>"K</td><td>29°43'55.296<br/>"D</td></tr><tr><td>Starboard Stern Buoy</td><td>40°45'57.452<br/>"K</td><td>29°44'02.410<br/>"D</td></tr><tr><td>Port Stern Buoy</td><td>40°45'51.752<br/>"K</td><td>29°44'05.712<br/>"D</td></tr></table> |  |  | Point | Latitude | Longitude | Main Buoy | 40°45'52.604<br>"K | 29°43'55.296<br>"D | Starboard Stern Buoy | 40°45'57.452<br>"K | 29°44'02.410<br>"D | Port Stern Buoy | 40°45'51.752<br>"K | 29°44'05.712<br>"D |
| Point                | Latitude                                                                                                                                                                                                                                                        | Longitude                                                                                                                                                                                                                                                                                                                                           |  |  |       |          |           |           |                    |                    |                      |                    |                    |                 |                    |                    |
| Main Buoy            | 40°45'52.604<br>"K                                                                                                                                                                                                                                              | 29°43'55.296<br>"D                                                                                                                                                                                                                                                                                                                                  |  |  |       |          |           |           |                    |                    |                      |                    |                    |                 |                    |                    |
| Starboard Stern Buoy | 40°45'57.452<br>"K                                                                                                                                                                                                                                              | 29°44'02.410<br>"D                                                                                                                                                                                                                                                                                                                                  |  |  |       |          |           |           |                    |                    |                      |                    |                    |                 |                    |                    |
| Port Stern Buoy      | 40°45'51.752<br>"K                                                                                                                                                                                                                                              | 29°44'05.712<br>"D                                                                                                                                                                                                                                                                                                                                  |  |  |       |          |           |           |                    |                    |                      |                    |                    |                 |                    |                    |
| 16                   | Types of dangerous goods handled at the facility (Loads within the scope of MARPOL Annex-I, IMDG Code, IBC Code, IGC Code, IMSBC Code, Grain Code, TDC Code, asphalt/bitumen and scrap loads)                                                                   | (UN 1965 HYDROCARBON GAS MIXTURE )<br>IGC CODE                                                                                                                                                                                                                                                                                                      |  |  |       |          |           |           |                    |                    |                      |                    |                    |                 |                    |                    |
| 17                   | Types of ships that can approach the facility                                                                                                                                                                                                                   | LIQUEFIED GAS VESSEL<br>(LPG SHIP)                                                                                                                                                                                                                                                                                                                  |  |  |       |          |           |           |                    |                    |                      |                    |                    |                 |                    |                    |
| 18                   | Dangerous goods handled at the facility (loads other than IMDG Code, among the cargo types in Article 16, will be written separately. Additional cargo request will be sent to the port authority with Annex-1 form. It will be added to TYER when appropriate) | -                                                                                                                                                                                                                                                                                                                                                   |  |  |       |          |           |           |                    |                    |                      |                    |                    |                 |                    |                    |
| 19                   | Classes for cargo handled, subject to IMDG Code                                                                                                                                                                                                                 | Class 2.1 Flammable Gases                                                                                                                                                                                                                                                                                                                           |  |  |       |          |           |           |                    |                    |                      |                    |                    |                 |                    |                    |
| 20                   | Groups in characteristic table for handled cargo subject to IMSBC Code                                                                                                                                                                                          | -                                                                                                                                                                                                                                                                                                                                                   |  |  |       |          |           |           |                    |                    |                      |                    |                    |                 |                    |                    |
| 21                   | Distance of the facility to the main road (kilometers)                                                                                                                                                                                                          | 1 KM                                                                                                                                                                                                                                                                                                                                                |  |  |       |          |           |           |                    |                    |                      |                    |                    |                 |                    |                    |
| 22                   | The distance of the facility to the railway (kilometers) or the railway connection (Yes/No)                                                                                                                                                                     | 3 KM –NO                                                                                                                                                                                                                                                                                                                                            |  |  |       |          |           |           |                    |                    |                      |                    |                    |                 |                    |                    |
| 23                   | Name of the nearest airport and its distance from the facility (kilometers)                                                                                                                                                                                     | CENGİZ TOPEL AIRPORT / 45KM                                                                                                                                                                                                                                                                                                                         |  |  |       |          |           |           |                    |                    |                      |                    |                    |                 |                    |                    |
| 24                   | Load handling capacity of the facility (Ton/Year;TEU/Year;Vehicle/Year)                                                                                                                                                                                         | 500.000 TONS / YEAR                                                                                                                                                                                                                                                                                                                                 |  |  |       |          |           |           |                    |                    |                      |                    |                    |                 |                    |                    |
| 25                   | Whether scrap handling is done at the facility                                                                                                                                                                                                                  | NO                                                                                                                                                                                                                                                                                                                                                  |  |  |       |          |           |           |                    |                    |                      |                    |                    |                 |                    |                    |
| 26                   | Is there a border gate? (Yes No)                                                                                                                                                                                                                                | NO                                                                                                                                                                                                                                                                                                                                                  |  |  |       |          |           |           |                    |                    |                      |                    |                    |                 |                    |                    |
| 27                   | Is there a bonded area? (Yes No)                                                                                                                                                                                                                                | NO                                                                                                                                                                                                                                                                                                                                                  |  |  |       |          |           |           |                    |                    |                      |                    |                    |                 |                    |                    |

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|    |                                                                                                                                  |                   |                 |                                                                                                                 |                                       |                                                               |
|----|----------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------|
| 28 | Cargo handling equipment and capacities                                                                                          |                   |                 | 3 PCS LPG PUMP<br>Total 650 m3/hour                                                                             |                                       |                                                               |
| 29 | Storage tank capacity (m3)                                                                                                       |                   |                 | 31.100m3                                                                                                        |                                       |                                                               |
| 30 | Open storage area (m2)                                                                                                           |                   |                 | -                                                                                                               |                                       |                                                               |
| 31 | Semi-closed storage area (m2)                                                                                                    |                   |                 | -                                                                                                               |                                       |                                                               |
| 32 | Closed storage area (m2)                                                                                                         |                   |                 | -                                                                                                               |                                       |                                                               |
| 33 | Determined fumigation and/or de-fumigation area (m2)                                                                             |                   |                 | Not Available                                                                                                   |                                       |                                                               |
| 34 | Name/title contact details of pilotage and tugboat services provider                                                             |                   |                 | HAS KILAVUZLUK HİZMETLERİ A.Ş.<br>Phone: 0262 281 27 00<br>SUN RÖMORKÖR HİZMETLERİ A.Ş<br>Phone: 0216 458 59 00 |                                       |                                                               |
| 35 | Has a Security Plan been created? (Yes No)                                                                                       |                   |                 | YES                                                                                                             |                                       |                                                               |
| 36 | Waste Reception Facility capacity<br>(This section will be arranged separately according to the wastes accepted by the facility) |                   |                 | İZMİT ATIK VE ARTIKLARI ARITMA YAKMA VE DEĞERLENDİRME A.Ş. (İZAYDAŞ)                                            |                                       |                                                               |
| 37 | Dock/pier etc. properties of fields                                                                                              |                   |                 |                                                                                                                 |                                       |                                                               |
|    | Dock / Pier No                                                                                                                   | Height<br>(meter) | Most<br>(metre) | Maximum<br>water<br>depth<br>(meters)                                                                           | Minimum<br>water<br>depth<br>(meters) | Largest<br>Tonnage<br>Length<br>DWT/GRET/Meter<br>Ship<br>and |
|    | Buoy                                                                                                                             |                   |                 | 27 MT                                                                                                           | 3 MT                                  | 60000 DWT -227<br>MT                                          |

|   | Pipeline Name (If Available) | Piece | Length (meter) | Diameter of Pipes |
|---|------------------------------|-------|----------------|-------------------|
| 1 | SEA BOTTOM PIPELINE NO. 1    | 1     | 1.100 MT       | 14 inches         |
| 2 | SEA BOTTOM PIPELINE NO 2     | 1     | 1.100 MT       | 10 inches         |

## 1.2 Loading/Unloading, Handling and Storage Procedures for Dangerous Cargoes Handled and Temporarily Stored at the Port Facility

1.2.1.1 Our facility handles Class 2.1 Hydrocarbon gas mixture (UN1965), which is classified as dangerous cargo under the IGC Code.

1.2.1.2 The following issues must be fulfilled for the safety of the coastal facility, employees, and ships in the coastal facility in matters such as the handling of dangerous cargoes coming to the port facility, their waiting at the coastal facility, stacking and sorting, and storage

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1.2.1.2.1 With the participation of Operation, Field planning, HSE, DGSA and other related staff, a coordination meeting will be held at least 1 day before the acceptance of dangerous cargo to the Port facility. (The decision to held this meeting for the routinely handled dangerous cargoes accepted to the port can be made by the Operation or HSE / DGSA)

1.2.1.2.2 Following issues will be discussed during the coordination meeting with regard to the dangerous cargo (es) to be accepted to the port:

1. Risks arising from dangerous cargo
2. Interaction with Dangerous cargoes present in the Port facility,
3. Interaction with the cargoes planned to be accepted to the Port facility in the near future,
4. Storage, stacking conditions,
5. Material and equipment requirements in terms of Emergency Response
6. Adequacy of Emergency Response teams
7. Interaction with/from adjacent facilities

The issues mentioned herein above will be discussed within the scope of current IMDG CODE documents and a management decision for accepting/rejecting will be taken.

1.2.1.2.3 If a decision is made at the meeting to accept the dangerous cargo, the management, operation, storage, security, emergency response units are informed and the preparation and acceptance process is started.

1.2.1.2.4 In case of the need to inform the Port Authority in the acceptance of the cargo and the bringer to the port facility, the situation is notified to the Port Authority in writing, together with the reasons.

### **1.3 Operational Procedures for Safe Handling of Dangerous Liquid Bulk Cargoes**

#### **1.3.1 Application**

1.3.1.1 Liquid bulk dangerous cargoes are handled with the help of buoys within our port facility.

1.3.1.2 The equipment, number of shifts and team are determined during the operations meeting held one day before. SDS of the cargo in ship notification is provided to HSE unit by the agency 3 days before.

1.3.1.3 After the ship is securely tied to the buoy with the support of the pilot and mooring, a safety inspection is carried out on the ship. If there is an unsafe situation exists, the situation shall be notified to the ship's staff and shall be ensured that they take the relevant measures. Unloading equipment and appropriate pipe selection are made by the staff of port facility. ISGOTT Ship/Shore Safety Checklist is mutually signed. A communication network is established between the ship and the Port Facility.

1.3.1.4 Appropriate pressure adjustment is made with the ship and measures are taken to prevent the tanks from overflowing. In case of danger, the ship's personnel is immediately informed and the line should be cut off.

#### **1.3.2 Requirements**

1.3.2.1 Gas detectors at the port facility will be kept ready being calibrated and made ready to use.

1.3.2.2 The vehicles coming to the loading or unloading platform at the port facility will be eliminated from static electricity, flame arrestor apparatus will be placed at their exhausts and their groundings shall be made

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during the loading or unloading at the port facility. Flame arrestor apparatus will be provided by the Ground Tanker Operations Unit. Ground tankers which don't have flame arrestors shall not be taken to the port facility. This will not be required for tankers having ADR standards (I.E. Euro Motor 5 & 6)

1.3.2.3 Required notices and warning signs shall be placed around the handling area. Related personnel will wear personal protective clothing and outfit in accordance with work health and safety requirements at dangerous places and under dangerous conditions. Personnel who don't have protective clothing and adequate equipment in line with their job descriptions and their working areas will not be employed.

1.3.2.4 Periodic repair/maintenance and calibration works of devices to be used will be made and certificates, journals or ledgers of records will be kept updated.

1.3.2.5 First aid equipment to be used during intervention will be placed at a place known by the personnel which is easily accessible in case of emergency or accidents.

1.3.2.6 Communication equipment to be used in the Port facility shall be of the type that can be used safely in flammable or explosive environments are used in the loading / unloading operations of dangerous liquid bulk cargoes.

1.3.2.7 Flexible hoses used in loading or unloading of liquid bulk dangerous cargoes should have a certificate specifying the approval of type as well as pipe type, maximum working pressure of the pipe and production month and year of the pipe. Repair and maintenance works and testing of the said pipes will be carried out as per the criteria stated in ISGOTT and relevant records shall be kept. Hoses to be used in loading or unloading operations which are not in service will be kept according to the criteria specified by ISGOTT.

1.3.2.8 Adequate number of electrical insulation flanges for the flexible hoses used in loading or unloading operations of liquid bulk dangerous cargoes.

1.3.2.9 Handling, loading/unloading and storage of dangerous liquid bulk cargoes are provided in a way to eliminate the possibility of dangerous reaction with other incompatible cargoes and materials.

1.3.2.10 The Shift Supervisor is responsible for the additional safety and security measures to be taken at the Port facility.

1.3.2.11 In our Port Facility, Operations Officer and Shift Supervisor are responsible for handling dangerous liquid bulk cargoes.

1.3.2.12 The master of a ship and the liquid cargo foreman, within their respective areas of responsibility, should have immediately make available the following information with respect to each liquid bulk cargo transported in cargo operations and emergency cases to the port authority and other involved parties

1.3.2.12.1 Information to be provided by the Ship Master;

1.3.2.12.1.1 Proper shipping name, UN number (if any) and description of its physical and chemical properties (including reactivity) of the dangerous cargo.

1.3.2.12.1.2 Procedures for cargo transfer, slop transfer, gas-freeing, inerting, ballasting, de-ballasting and tank cleaning.

1.3.2.12.2 Information to be provided by the Operations Manager;

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1.3.2.12.2.1 Information on special equipment required for the safe handling and loading/unloading of certain loads, and emergency response procedures, including:

- What to do in case of spillage or leakage,
- Measures to be taken to prevent accidental contact of persons with dangerous cargoes within the scope of Occupational Health and Safety,
- Fire fighting procedures and appropriate communication systems to be used in case of fire.

1.3.2.13 It should be ensured that, before and during handling and loading or unloading operations of liquid bulk dangerous cargoes at any area, appropriate warning notices, preferably pictograms, are placed at all entrances.

1.3.2.14 Continuous communication will be ensured during the handling and loading or unloading of dangerous liquid bulk cargoes, through Sea Band Channel 16 and from the work channel specified in the protocol and effectiveness of communication will be ensured during the cargo operations.

### **1.3.3 Piping used for dangerous bulk liquid cargoes**

1.3.3.1 Flexible hose:

- Flexible hoses will be used for cargo by considering the temperature and suitability and not be used for other than these cargoes.
- If they are prone to be damaged by impact they will be protected accordingly.
- The pipe will be electrically continuous except for the inclusion of an insulating flange or non-conductive spool piece when used for the transfer of a flammable liquid. The pipeline on the seaward side of the insulating section should be electrically continuous to the ship, and that on the landward side should be electrically continuous to the jetty earthing system. The insulating flange should be tested in accordance with chapter 17 of ISGOTT.

### **1.3.4 The Operations Officer should fulfill the following responsibilities:**

1.3.4.1 He shall take adequate precautions are taken to prevent a short-circuit of the insulating section.

1.3.4.2 He shall inspect and test the insulating and earthing systems at appropriate intervals to ensure their effectiveness.

1.3.4.3 In the case of a flammable atmosphere, he shall ensure that other metallic connections between the berth and the ship are arranged or maintained in such a way that they do not allow sparks.

1.3.4.4 He shall take actions in accordance with appropriate checklists in the International Safety Guide for Oil Tankers and Terminals (ISGOTT).

### **1.3.5 Ignition sources**

1.3.5.1 The Operations Officer shall ensure that that the master of a ship is notified of any conditions which may require precautions to be taken for avoidance of sources of ignition on the ship such as galley stoves or cooking appliances with non-immersed elements.

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### 1.3.6 Containment of spills

1.3.6.1 In the event of an accident, all discharge holes and pipes and all kinds of drains at the interface where dangerous liquid bulk cargoes may leak are closed before the start of the loading / unloading operation of dangerous liquid bulk cargoes, and it is ensured that they are kept closed during the operation. In addition, in case of any cargo spillage, appropriate collection and disposal of the spilled cargo by the Port facility is also provided.

### 1.3.7 Handling

#### 1.3.7 Handling

##### 1.3.7.1 Flexible hoses

1.3.7.1.1 Within their respective areas of responsibility, the Ship's Master and Operations Officer must ensure that:

- .1 No Flexible hose is used for cargoes other than those for which it is suitable, having regard to the temperature and compatibility of such cargoes, or at any working pressure for which it is unsuitable.
- .2 Before being placed in service, each flexible hose should be hydrostatically tested in accordance with Administration requirements.
- .3 Before being placed in service, each Flexible hose supplied should be hydraulically tested in accordance with the requirements of the regulatory authority.
- .4 Before being put into use on any day a Flexible hose is visually inspected. Flexible hoses should be inspected at frequent intervals during operations..
- .5 Documents showing the type of hose, its specified maximum working pressure and its month and year of manufacture will be kept at the facility.
- .6 It will be ensured that there are adequate electrical insulation flanges and the length of each Flexible hose is sufficient to satisfactorily operate within the defined operating envelope without overstressing the terminal connections.
- .7 Procedures for leak-free separation from the flexible hose coupling are adequately implemented to protect the environment, personal safety, and equipment in the event of an emergency.
- .8 A Flexible hose rigged for the handling of liquid bulk dangerous cargoes is kept under adequate supervision.
- .9 It will be ensured that there are adequate procedures for the disconnection of the Flexible hose in the event of an emergency, to protect the environment, personnel safety and equipment.

### 1.3.8 Initial measures

1.3.8.1 Within their respective areas of responsibility, the Ship's Master and Operations Officer shall ensure that the cargo handling controls, measuring systems, emergency shutdown and alarm systems are tested and found to be satisfactory before starting the cargo transfer operation.

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1.3.8.2 Before starting the dangerous liquid bulk cargo operation, the following requirements will be met.

1.3.8.2.1 The suitability of the number, diameter, flow rate and maximum working pressures of the pipelines and hoses that the ship and the terminal can allocate for unloading.

1.3.8.2.2 The presence of responsible persons during start up operations on board ship and ashore

1.3.8.2.3 In case of an emergency that may occur during handling operations, the steps to be taken and the signs to be used are reported.

1.3.8.2.4 Agree in writing the action to be taken and the signals to be used in the event of an emergency during handling operations; and

1.3.8.3 It will be ensured that appropriate safety precautions and clothing are used.

1.3.8.4 The Operations Officer shall ensure that the loading/unloading connections of the flexible hose are safely and securely blinded when not in use or in standby service.

1.3.8.5 "Ship/Shore Safety checklist" in International Safety Guide for Oil Tankers and Terminals (ISGOTT) shall be completed and signed according to "Guidelines for completing Ship/ Shore Safety checklist".

### 1.3.9 Pumping

1.3.9.1 Within their respective areas of responsibility, the Ship's Master and Operations Officer shall ensure that:

1.3.9.1.1 Frequent checks are made to ensure that the agreed back-pressures and loading or unloading rates are not exceeded;

1.3.9.1. All reasonable care is taken to prevent all relevant pipelines, loading arms, Flexible hoses and associated equipment on board the ship and ashore from developing a leak, and that they are kept under adequate supervision during the handling of liquid bulk dangerous cargoes;

1.3.9.1.3 Effective communication is maintained between the ship and Port equipment during transfer operations;

1.3.9.1.4 A safety checklist is available for inspection during handling operations;

1.3.9.1.5 During the handling of dangerous liquid bulk cargoes, necessary arrangements have been made to measure the tankers to be discharged to ensure that the tanks are not overfilled;

1.3.9.1.6 Responsible persons are present during operations on board and on Port;

1.3.9.1.7 Appropriate safety equipment and clothing are used

### 1.3.10 Connecting hoses to ships

The following operations are carried out by the ship:

1.3.10.1 Whether the ship's valve is the correct one before the hose connection is made between the ship's docked manifold valve and the ship's manifold valve. It is checked by looking at the "Ship Load Plan" together with the captain.

1.3.10.2 Labels showing the type of cargoes and tank numbers of the ship are attached to the ship lines by the ship.

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### 1.3.11 Completion of the operation

1.3.11.1 The master of a ship and berth operator within their respective areas of responsibility should ensure that after the completion of every transfer of liquid bulk dangerous cargoes the valves of the discharging and receiving cargo spaces and tanks are closed and any residual pressure in the relevant pipelines and Flexible hoses is released. Moreover;;

1.3.11.2 It must be ensured that prior to the disconnection of the flexible pipelines from the ship it is drained of liquids and the pressure is relieved;

1.3.11.3 It must be ensured that all safety precautions are taken, including sealing the vessel manifold connections and Flexible hoses with a blind flange.

1.3.11.4 It must be ensured that appropriate safety equipment and clothing are used.

1.3.11.5 According to their responsibilities, the ship's master and the Port facility operator should carry out the unloading operation of low temperature liquefied gases only if the following conditions are met;

- All relevant tanks, pipelines and other pipelines on the ship and on the Port facility are to be cooled gradually and evenly to avoid thermal (thermal) stresses.
- Keeping all automatic controls, gas detectors and other related equipment in working order, Flexible hoses or pipes will be cleaned with a method suitable for the load by emptying the remaining loads after use. In cases where it is not possible or not to perform these operations, the free ends of the flexible pipes will be closed with a suitable equipment in order to prevent the steam or air inside from escaping.

## 2 RESPONSIBILITIES

All parties engaged in the transport of dangerous cargoes have to take all necessary measures to carry out the transportation in a safe, secure and environmentally friendly manner, to prevent accidents and to minimize the damage in case of an accident.

The EmS Guide which includes Emergency Response Methods and Emergency Schedules for Ships Carrying Dangerous Cargoes in emergencies such as fire, leakage, spillage that occur during the transportation of dangerous cargoes should be used. The Medical First Aid Guide (MFAG) in the IMDG Code annex is used in order to provide the necessary medical first aid for the people affected by the damages of dangerous cargoes and the health problems caused by the accidents involving these cargoes.

### 2.1 Responsibilities of The Relevant Person of Cargoes

2.1.1 To prepare and has all mandatory documents, information and documents related to dangerous cargoes prepared and ensures that these documents are present with the cargo during the transportation activity.

2.1.2 To provide classification, definition, packaging, marking, labeling and placarding of dangerous cargoes, in accordance with the legislation, if possible, according to their type.

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2.1.3 To ensure that dangerous cargoes are safely loaded, stacked, securely fastened, transported and unloaded to the packaging and cargo transport unit, whichever is possible, in accordance with the approved and rules, according to the type of load.

## 2.2 Responsibilities of The Port Facility Operator

2.2.1 Not to berth the ships carrying dangerous cargoes without the permission of the port authority.

2.2.2 To provide written information within the scope of facility rules, cargo handling rules and relevant legislation to the ship that will dock at its facility.

2.2.3 Not to handle dangerous cargoes for which it has not received a handling permit from the administration, and not to make the ships that will berth suffer by planning in this context.

2.2.4 To request mandatory documents, information and documents related to dangerous cargoes from the person concerned and ensures that they are included with the cargo. In case the relevant documents, information and documents cannot be provided by the cargo person, it is not obliged to accept or handle the dangerous cargo at its facility.

2.2.5 To carry out the loading or unloading operation according to the agreement to be reached by sharing all the data that may be required according to the characteristics of the cargo with the ship's person. The ship does not make any changes in the operation without the knowledge of the person concerned.

2.2.6 To determine the working limits by taking into account the safe working capacity of the facility and the weather forecasts, and takes the necessary measures to ensure that the ship is safely moored at the pier and handling.

2.2.7 To control the transport documents containing information that the dangerous cargoes coming to the facility are classified, packaged, marked, labeled, plated and loaded safely to the cargo transport unit.

2.2.8 To ensure that the personnel involved in the handling of dangerous cargoes and the planning of this handling are certified by receiving the necessary training, and does not assign the personnel without documents to these operations.

2.2.9 To ensure that the dangerous cargoes handling equipment in its facility is in working condition and that the relevant personnel are trained and documented on the use of these equipment.

2.2.10 To ensure that the personnel use personal protective equipment suitable for the physical and chemical properties of the dangerous cargo by taking occupational safety measures at the coastal facility.

2.2.11 To perform activities related to dangerous cargoes at piers, piers and warehouses established in accordance with these works.

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2.2.12 To equip the piers and piers reserved for ships that will load or unload dangerous liquid bulk cargoes with appropriate installations and equipment for this work.

2.2.13 To keep the updated list of all dangerous cargoes in the closed and open areas of the ships berthed at its facility and gives this information to the relevant parties upon request.

2.2.14 To notify the port authority of the instant risk posed by the dangerous cargoes that it handles or temporarily stores in its facility and the measures it takes for it.

2.2.15 To notify the port authority of the accidents related to dangerous cargoes, including the accidents at the entrance to closed areas.

2.2.16 To provide the necessary support and cooperation in the controls and inspections carried out by the Administration and the port authority.

2.2.17 To ensure that Class 1 (except Class 1 Compatibility Group 1.4 S), Class 6.2 and Class 7 dangerous cargoes that are not allowed to be temporarily stored are transported out of the coastal facility as soon as possible, without waiting, and applies to the Administration for permission in cases where it is necessary to wait.

2.2.18 To take fire, environment and other safety measures in accordance with the class of dangerous cargo in the temporary warehouses and storage area in accordance with the separation and stacking rules of the cargo transport units where dangerous cargoes are transported. It keeps fire extinguishing systems and first aid units ready for use at any time in the areas where dangerous cargoes are handled and makes the necessary controls periodically.

2.2.19 To get permission from the port authority before the hot working works and operations to be carried out in the areas where dangerous cargoes are handled and temporarily stored.

2.2.20 To prepare an emergency evacuation plan for the evacuation of ships from coastal facilities in case of emergency and submits it to the port authority and informs the relevant people about the plan approved by the port authority.

2.2.21 To ensure the internal loading of the cargo transport units in accordance with the loading safety rules in its facility.

### **2.3 Responsibilities of The Ship's Contact Person**

2.3.1 To ensure that the cargo to be carried by the vessel is certified as suitable for transportation and that the cargo holds, cargo tanks and cargo handling equipment are suitable for cargo transportation.

2.3.2 To request all mandatory documents, information and documents related to dangerous cargoes from the cargo person and ensures that they are present with the cargo during the transportation activity.

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2.3.3 To ensure that the documents, information and documents required to be found on the ship regarding dangerous cargoes within the scope of legislation and international conventions are appropriate and up-to-date.

2.3.4 To control the transport documents containing information that the cargo transport units loaded on the ship are appropriately marked, plated and loaded safely.

2.3.5 To inform the relevant ship personnel on the risks of dangerous cargoes, safety procedures, safety and emergency measures, response methods and similar issues.

2.3.6 To keep up-to-date lists of all dangerous cargoes on board and declares them to the relevant parties upon request.

2.3.7 To ensure that the loading program, if any, is approved and documented and kept in working condition.

2.3.8 To notify the port authority and the coastal facility about the instant risk posed by the dangerous cargoes on the ship berthing to the coastal facility and the measures taken for it.

2.3.9 In case of leakage in the dangerous cargo or if such a possibility exists, it does not accept the dangerous cargo to be carried.

2.3.10 To notify the port authority of the dangerous cargo accidents that occur on his ship while navigating or at the coastal facility.

2.3.11 To provide the necessary support and cooperation in the controls and inspections carried out by the Administration and the port authority.

2.3.12 To do not accept to carry dangerous cargoes that are not included in the ship certificates issued by the relevant institutions and organizations.

2.3.13 To ensure that the people of the ship involved in the handling of dangerous cargoes use personal protective equipment suitable for the physical and chemical properties of the cargo.

2.3.14 To provide the requirements regarding the loading safety of the loads on the ships.

## **2.4 Responsibilities of the Carrier**

2.4.1 To prepare and has the mandatory documents, information and documents related to dangerous cargoes prepared and ensures that these documents are present with the cargo during the transportation activity.

2.4.2 To provide classification, packaging, marking, labeling and placarding of dangerous cargoes in accordance with their type.

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2.4.3 To ensure that dangerous cargoes are loaded, stacked and securely fastened to approved packaging and cargo transport units in accordance with the rules and safely.

## 2.5 Dangerous Goods Safety Advisor' Responsibilities

2.5.1 To monitor compliance with the requirements for the transport of dangerous cargoes.

2.5.2 To provide suggestions to the coastal facility regarding the transportation of dangerous cargoes.

2.5.3 To prepare an annual report to the coastal facility on the activities of the coastal facility operator in the transport of dangerous cargoes.(Annual reports are kept for 5 years and submitted to the administration upon request.)

2.5.4 To control the following applications and methods;

- Control and control results that the dangerous cargoes arriving at the facility are properly identified, the correct shipping names are used, certified, packaged/packaged, labeled and declared, that they are safely loaded and transported in approved and legal packaging, container or cargo transport unit reporting procedures.
- Loading/discharging procedure for handled and temporarily stored dangerous cargoes,
- Whether the coastal facility takes into account the special requirements regarding the dangerous cargoes transported while purchasing the transport vehicles for the handled dangerous cargoes,
- Control methods of equipment used in the transport, loading and unloading of dangerous cargoes,
- Whether the shore facility employees have received appropriate training, including the changes made in the legislation, and whether these training records have been kept,
- The suitability of emergency methods to be applied in case of an accident or an event that will affect safety during the transportation, loading or unloading of dangerous cargoes,
- Compliance of reports prepared on serious accidents, incidents, or serious violations that occur during the transportation, loading or unloading of dangerous cargoes,
- Determination of the necessary measures against the reoccurrence of accidents, incidents, or serious violations and evaluation of the implementation,
- Subcontractors or 3.To what extent the rules regarding the selection of the parties and the transport of dangerous cargoes are taken into account,
- Determining whether the employees in the transport, handling, storage and loading/unloading of dangerous cargoes have detailed information about the operational procedures and instructions.
- Appropriateness of the measures taken to be prepared for risks during the transportation, handling, storage and loading/unloading of dangerous cargoes
- Procedures for all mandatory documents, information and documents related to dangerous cargoes.
- Procedures for the safe berthing, mooring, loading/discharging, sheltering or anchoring of ships carrying dangerous cargoes to the shore facility day and night.

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- Procedures for additional measures to be taken according to seasonal conditions for the loading, unloading and limbo operations of dangerous cargoes.
- Procedures for fumigation, gas measurement and degassing operations. Procedures for keeping records and statistics of dangerous cargoes,
- The accuracy of the issues regarding the possibility, capability and capacity of the coastal facility to respond to emergencies,
- Appropriateness of the regulations for the first interventions to be made for the accidents involving dangerous cargoes,
- Procedures for handling and disposal of damaged dangerous cargoes and waste contaminated by dangerous cargoes,
- Information on personal protective clothing and procedures for using them.

- 2.5.5 In addition to the IMDG Code, within the scope of dangerous cargoes handled at the coastal facility, DGSA's should be informed about the IBC Code, IGC Code, IMSBC Code and MARPOL 73/78 applications and generally the dangerous cargoes activities of the coastal facility. The coastal facility operator notifies the coastal facility operator in writing, with the periods agreed between the coastal facility operator and the coastal facility operator, on the condition that it does not exceed 6 (six) months, about its evaluations on whether the dangerous cargoes handled at the coastal facility are handled in accordance with the rules.
- 2.5.6 DGSA's authorized within the scope of the IMDG Code prepare quarterly reports regarding the responsibilities determined in the Regulation on the Maritime Transport of Dangerous Cargoes and Loading Safety of the coastal facilities they serve, and notify this report to the Administration.
- 2.5.7 DGSA, with the exception of the coastal facilities that will receive Dangerous Cargo Conformity Certificate (TYUB) for the first time, is present at the coastal facility during TYUB inspections and actively participates in the inspections.
- 2.5.8 DGSA prepares the parts of the coastal facility's guide on dangerous cargo handling and/or temporary storage together with the coastal facility and checks its accuracy. DGSA's signature is also included in the sections of the guide on dangerous cargoes handling and/or temporary storage.

### **3. RULES AND MEASURES TO BE FOLLOWED / APPLIED BY THE PORT FACILITY**

The rules and precautions outlined in this section are the same as in the relevant chapters of this guide. Chapters, Dangerous Cargo Emergency Plan and Accident Prevention Policy are detailed. Infrastructural requirements are provided by our Port Facility.

#### **3.1 The precautions and rules to be followed and applied in the port facility are given below**

##### **3.1.1 Berthing**

###### **3.1.1.1 Port facility operations officers ensure that:**

###### **3.1.1.2 Provides adequate and safe access between the ship and shore**

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3.1.2.1 The port operator should ensure that areas where cargo ships or cargo transport units are properly kept supervised and packages or cargo transport units are regularly inspected for leakage or damage.

3.1.2.2 The port operator should ensure that no person, without reasonable cause, opens or otherwise interferes with any freight container, tank-container, portable tank or vehicle containing dangerous cargoes. When a freight container, tank-container, portable tank or vehicle is opened by a person authorized to examine its contents, the port operator should ensure that the person concerned is aware of the possible hazards arising from the presence of the dangerous cargoes.

3.1.2.3 Any equipment which is used for handling processes and driven with/without power shall be checked and inspected to ensure that it is manufactured in accordance with the manufacturer's instructions and exists in good operating conditions and in compliance with proper standards.

### 3.1.2 Emergency Precautions

Port Operators;

3.1.2.1 Ensures that appropriate emergency arrangements are made and notified to the relevant parties. These regulations include:

3.1.2.1.1 The provision of appropriate emergency alarm operating points,

3.1.5.1.2 Procedures for notification of an incident or emergency to the appropriate emergency services within and outside the port area ,

3.1.2.1.3 Procedures for notification of an incident or emergency to the port authority and port area users both on land and water,

3.1.2.1.4 The provision of emergency equipments suitable for the hazards of the dangerous cargoes to be handled;

3.1.2.1.5 Co-ordinated arrangements for the departure of a ship in the event of an emergency; and;

3.1.2.1.6 Arrangements to ensure adequate access/exit at all times.

3.1.2.2 The port operator should consider the necessity of arrangements for a safe and quick emergency escape, taking into account the nature of the dangerous cargoes and any special conditions.

3.1.2.2.1 The "Medical First Aid Guide (MFAG)" in the IMDG Code annex shall be used in order to provide the necessary medical first aid for the people affected by the damages caused by the dangerous cargoes and the health problems caused by the accidents involving such cargoes.

3.1.2.2.2 "Emergency Response Procedures (EmS)" annexed to IMDG Code annex shall be used for any emergency situations involving dangerous cargoes.

3.1.2.2.3 In case of any emergencies or accidents, the first aid material to be used for response shall be kept in easily accessible locations known to personnel.

### 3.1.3 Emergency Information

Port facility Operators;

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3.1.3.1 The person responsible for the areas where dangerous goods are handled is informed about the occupancy status of dangerous goods in his/her area and keeps the information ready for use in emergencies.

3.1.3.2 Ensures that the person responsible for hazardous cargo operations has the necessary information on the measures to be taken to deal with hazardous cargo-related accidents and that this information is available for use in emergency situations.

3.1.3.3 Should ensure that the MSDS forms of all stored products are available at the handling points and they are also accessed electronically.

3.1.3.4 Should ensure that port or dock emergency response procedures and port emergency telephone numbers are placed at prominent locations within or at warehouses, sheds or areas where dangerous cargoes are transported or handled.

3.1.3.5 Ensures that fire-fighting and pollution-fighting equipment and supplies are clearly marked and that notices drawing attention to them are clearly visible in all appropriate places.

3.1.3.6 Provides information on emergency procedures in force and on the services at the interface to the captain of the ship loading or carrying dangerous cargo.

#### 3.1.4 Fire precautions

3.1.4.1 The Port Operator Should Ensure That:

3.1.4.1.1 All parts of the port and any ship moored to it are at all times accessible to emergency services;

3.1.4.1.2 Audible or visual alarms for emergency use are installed in the area or other means of rapid communication with emergency services are available,

3.1.4.1.3 Areas used for the handling of dangerous cargoes kept clean and tidy,

3.1.4.1.4 Before dangerous cargoes are handled, the master of the ship is informed of the location of the nearest means of summoning emergency services; and

3.1.4.1.5 The lighting and other electrical equipment in areas where dangerous cargoes are present on the port is of a type safe for use in a flammable or explosive atmosphere.

3.1.4.1.6 The places where smoking is prohibited are designated, and

3.1.4.1.7 The signs prohibiting smoking are visible at all points, and smoking areas are kept safe from dangerous places.

3.1.4.8 Equipment used in an area or space where a flammable or explosive atmosphere may exist or develop, is of a type safe for use in a flammable or explosive atmosphere and used in such a manner that no fire or explosion can be caused.

3.1.4.9 Only portable electrical equipment of a type safe for use in a flammable atmosphere is used in an area or space in which a flammable atmosphere may occur.

3.1.4.10 Ex-proof electrical equipment by the zoning code of the area is used.

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3.1.4.11 Considering the fire and explosion hazards that may occur as a result of the transportation of dangerous cargoes, it should be known that the cargo transport units that are kept empty may still contain residues and flammable vapors and may pose a hazard.

### 3.1.5 Fire fighting

3.1.5.1 The port operator should ensure that adequate and properly tested fire-fighting equipment and facilities are provided and readily available in accordance with the requirements of the regulatory authority in areas where dangerous cargoes are transported or handled.

3.1.5.2 The port operator should ensure that personnel involved in the handling or transport of dangerous cargoes are trained and practised in the use of fire-fighting equipment in accordance with the requirements of the regulatory authority.

### 3.1.6 Environmental precautions

3.1.6.1.1 The port operator should ensure that dangerous cargoes are only handled in areas which comply with the requirements of the regulatory authority.

3.1.6.1.2 Dangerous cargoes spilled into the dolphin are not thrown into the sea by sweeping or washing. The cargoes in question are surrounded by a curb in a way that prevents them from going into the sea with rainwater, and the rainwater and possible spilled liquids accumulated in the area surrounded by the curb are collected in the collection pit via a collection pipe.

3.1.6.1.3 During the loading and unloading of bulk liquid cargoes onto the ship, necessary precautions are taken to prevent cargo from spilling from the ship or dolphin into the sea.

3.1.6.1.4 Necessary precautions are taken to prevent hazardous liquids handled at the shore facility from contaminating the soil, water or areas where water is discharged.

### 3.1.7 Pollution Measures

3.1.7.1 The port operator should ensure that adequate equipment is available to minimize the damage in case of a spillage of dangerous cargoes.

3.1.7.2 A contract has been signed with Seagull Denizcilik on Emergency Response within the scope of the Law and Implementation Legislation on the Principles of Responding to Emergency Situations and Regulation of Damages in Pollution of the Marine Environment with Petroleum and Other Harmful Substances (Law No. 5312 )

3.1.7.3 Equipment includes oil spill fences, condensate caps, absorbent and neutralizing agents, as well as cleaning supplies and portable collection basins.

3.1.7.4 The port operator should ensure that personnel involved in the transport and handling of dangerous cargoes are trained and practised in the use of pollution combating equipment and facilities in accordance with the requirements of the regulatory authority.

### 3.1.8 Reporting of Incidents

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3.1.8.1 The port operator, within his area of responsibility, should ensure that, if an incident occurs during the handling of dangerous cargoes which may endanger the safety or security of persons, of ships within the port, of the port or of any other property, or the environment, the person having charge of the handling immediately causes the operation to be stopped, if it is safe to do so, and prevents it being resumed until appropriate safety measures have been taken. The port operator should require every member of his personnel to report, to the person having charge of the operation, any such incident they see to occur during the handling of dangerous cargoes.

3.1.8.2 For the purposes of responding quickly and effectively; the short and proper description of the event should be communicated to the emergency center as soon as possible to treat the injured personnel and mitigate any potential damage.

3.1.8.3 The port operator should ensure that any incident involving dangerous cargoes which may endanger the safety or security of persons, or of ships within the port or of the port or of any other property or the environment is reported immediately to the port authority.

3.1.8.4 The port operator should ensure that any damaged or leaking package, unit load or cargo transport unit containing dangerous cargoes is reported immediately to the port authority and that suitable remedial action is taken.

### 3.1.9 Hot work and other repair or maintenance work

3.1.9.1 Hot work is not allowed on the buoys during the ship unloading/loading. The ship has to keep the main engine and auxiliary navigation devices ready at any time.

### 3.1.10 Alcohol and drug abuse

3.1.10.1 The port operator, within his area of responsibility, should ensure that no person under the influence of alcohol or drugs is allowed to participate in any operation involving the handling of dangerous cargoes.

3.1.10.2 Any such persons should always be kept clear of the immediate areas where dangerous cargoes are being transported or handled.

### 3.1.11 Protective equipment

3.1.11.1 All personnel involved in the handling of dangerous cargoes within their area of responsibility are provided with adequate protective equipment when necessary.

### 3.1.12 Lighting

3.1.12.1 The port operator, within his area of responsibility, should ensure that areas where dangerous cargoes are handled or where preparations are being made to handle dangerous cargoes and access to such areas are adequately illuminated.

### 3.1.13 Handling Equipment

3.1.13.1 The port operator, within his area of responsibility, should ensure that all equipment used in the handling of dangerous cargoes is suitable for such use and used only by skilled persons.

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3.1.13.2 The port operator, within his area of responsibility, should ensure that all cargo handling equipment is of an approved type where appropriate, properly maintained and tested in accordance with national and international legal requirements.

#### 3.1.14 Protective Equipment

3.1.14.1 Ensures that all personnel involved in the transportation of dangerous goods within their area of responsibility are provided with adequate amounts of appropriate protective equipment when necessary.

3.1.14.2 This equipment is checked to ensure that it provides adequate protection against the hazards specific to the dangerous goods carried and is of an approved type.

#### 3.1.15 Communication

3.1.15.1 The port authority should ensure that every ship engaged in the transport of dangerous cargoes can maintain effective communications with the port authority. When appropriate and practicable such communications should be carried out by VHF in accordance with the provisions of SOLAS regulation IV/7 and complying with the performance standards set out in IMO Assembly resolution A.609(15) and the requirements of the regulatory authority.

#### 3.1.16 Education

The trainings specified in the Directive on IMDG CODE Training Seminars published with the Minister's Approval dated 26.07.2019 and numbered 56617 had started to be given to the relevant personnel. Within the scope of the Regulation on the Transport of Dangerous Cargoes by Road, ADR trainings were given and documented by DGSA.

It will be ensured that the personnel who are in charge of actions and operations for the loading/unloading of hazardous materials at the onshore facility shall be provided with training on emergencies (fire, explosion, leakage etc.) and response, occupational health and safety, ISPS code security awareness and safety in line with their job descriptions and fields of work.

## 4. CLASSIFICATION OF DANGEROUS CARGOES, TRANSPORTATION, LOADING/UNLOADING, HANDLING, SEGREGATION, STACKING AND STORAGE

### 4.1. Classes of dangerous goods.

Liquefied petroleum gas with hazard class 2.1 is stored in the terminal.

Liquefied petroleum gas with IMO Danger Class 2.1 is stored in the terminal.

**Trade Name:** LPG (Liquefied Petroleum Gas)

**CAS No:** 68476-85-7

**EINECS No:** 270-704-2

**Definition:** Hydrocarbons derived from petroleum or natural gas, liquefied under pressure, essentially such as propane, propene, butane, butene and their isomers, or mixtures thereof.

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**Appearance:** Gas (15 °C and 1 atm) (Liquid under pressure)

**Color:** Colorless

**Odor:** Different and unpleasant. It is scented.

Recognizable at 20% of the lower glare limit.

**Upper / Lower-Flash Limits:** Upper flammability limit of air-gas mixtures: 9.6%

#### **Hand Protection:**

Neoprene, rubber or leather gloves with heat insulation should be used to protect from cold burns.

Gloves should be checked before use.

Dispose of contaminated gloves after use in accordance with applicable law and good laboratory practice.

Wash and dry your hands.

The selected protective gloves must meet the EU Directive 89/686/EEC and EN 374 standard.

#### **Body Protection:**

Use protective clothing that is resistant to frostbite.

Use chemical and cold resistant gloves / armrests, boots and aprons

Use respirators and parts that have been tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### **Requirements for ETHYL MERCAPTAN**

It is used as an additive to gases (propane and natural gas), with a foul-smelling chemical in order to detect gas leakage. Situations where odorant cannot be detected in a gas made to smell by adding chemicals:

- The odor intensity may be reduced or eliminated due to various physical and chemical reasons, as a result of sticking/absorbing to pipes or devices, including the oxidation of rusted pipes.
- In case of underground leaks, if it comes into contact with the soil, the odor-causing chemical can be separated from the gas and its smell can go away.
- Some people may experience atrophy in their sense of smell over time or due to various factors. The factors that affect an individual's sense of smell are age, gender, health status, consumption of alcohol and tobacco products.
- Some people may experience atrophy in their sense of smell over time or due to various factors. The factors that affect an individual's sense of smell are age, gender, health status, consumption of alcohol and tobacco products.
- While asleep, the chemically scented gas may not wake the individual.
- It can suppress or hide other odors.

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- Exposure to this scented gas, even for a short time, can cause nasal congestion.

#### **Precautions for safe handling**

Aerosol formation should be avoided and vapors/dust should not be inhaled. Eating, smoking or drinking should be prohibited in work areas. Preventive measures should be taken against static discharge. Adequate air exchange and/or exhaust should be provided to work areas. The packaging or tanks should be opened carefully as the contents may be under pressure. Washing water should be disposed of according to national regulations. It should not be sprayed on open flame or any other incandescent material. Necessary precautions should be taken to avoid static electricity discharge (which may cause ignition of organic vapors). Only explosion-proof equipment should be used. Keep away from open flames, hot surfaces and sources of ignition.

#### **Storage Conditions:**

Smoking should not be allowed in the areas where it is stored. Containers should be kept in tightly closed, dry and well-ventilated areas. Containers that have been opened should be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with technological safety standards.

#### **Technical measures:**

Adequate ventilation should be provided to keep airborne concentrations below exposure limits. The hazards of the substance, applicable exposure limits, work activities and other substances in the work area should be considered when planning engineering controls and selecting personal protective equipment. If engineering controls or work practices are not sufficient to prevent exposure to harmful levels, the personal protective equipment listed below is recommended. Users must read and understand all instructions and restrictions provided by protective equipment under certain conditions or for a limited period of time.

#### **Respiratory protective measures:**

Where ventilation or other engineering controls are not sufficient to maintain a minimum oxygen content of 19.5% by volume at normal atmospheric pressure, an air-supplied, approved respirator should be used. If exposure to harmful levels of airborne substances occurs when working with this material, protectants such as an air-purifying respirator for organic vapors should be used. If there is potential for uncontrolled release, exposure levels are unknown, or if in other circumstances air-purifying respirators do not provide adequate protection, a positive-pressure-supplied respirator should be used.

#### **Hand protection:**

The suitability of protective gloves for a particular workplace should be decided with the manufacturer. The instructions on permeability and break-through time given by the glove manufacturer must be followed. In all conditions in which the substance is used, features such as cutting, abrasion and contact time should be considered. If the glove shows signs of deterioration or chemical wear, it should be discarded and replaced.

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#### Eye protection:

Pure aqueous eyewash can be used. Eye protection equipment must be used. Face shield and protective clothing should be worn for unusual handling problems.

#### Skin and body protection:

Body protection should be selected according to the type, concentration, amount and specific working area of the harmful substance. Appropriate protective clothing should be worn. Wash contaminated clothing before reuse. In case of contact, the skin should be washed. Remove contaminated clothing and wash before reuse. Non-flammable protective clothing. Employees should wear antistatic shoes.

#### Hygiene measures:

Wash your hands immediately after handling the product and before breaks.

#### Fire Extinguishers

- Suitable extinguishers: Alcohol resistant foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical.
- Unsuitable extinguishers: High volume water jet.
- Special hazards arising from the substance or mixture
- Hazardous decomposition products: Carbon oxides. Sulfur oxides.
- Prevent fire extinguishing water from entering drains or waterways.

Use self-contained breathing apparatus when fighting fire if necessary. In case of fire, the boxes should be stored separately in a closed place for safety reasons. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. Do not discharge into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with national regulations.

Do not spray on open flame or any other incandescent material. Take necessary precautions to avoid static electricity discharge (which may cause ignition of organic vapours). Only use explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

#### Environmental Measures:

Prevent product from entering drains. Prevent further leaks and spills if safe to do so. Notify authorities if product contaminates drains.

Contain and collect spillages with non-combustible, absorbent materials (sand, earth, diatomaceous earth, vermiculite) and place in suitable containers for disposal according to national regulations

#### Class 2 : Gases



Class 2.1 Flammable Gases : gases at a standard pressure of 101.3 kPa and 20 °C with:  
(a) Gases with a low flammability or combustible in a mixture of 13% or less by volume with air..

#### 4.2. Packages and packages of dangerous goods

Shoulder labels are made for hazardous materials in the terminal in accordance with ADR legislation.

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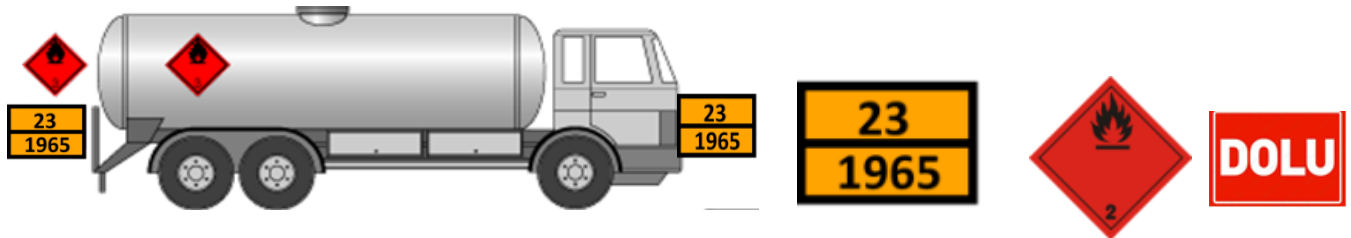
#### 4.3. Placards, plates, brands and labels for dangerous goods.

Hazardous materials at the terminal are stored in tanks. There are labels on the dangerous substance stored on the tank surface where everyone can see it.

| Health (Blue)                     |                                                                                                                                                                               | Flammability (Red) |                                                                                                                                                           |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>0</b>                          | There is no health hazard. No precautions are required. (Ex. Water)                                                                                                           | <b>0</b>           | Fireproof. (Ex. Carbon Dioxide)                                                                                                                           |
| <b>1</b>                          | Slight irritation on contact. (Ex. Acetone)                                                                                                                                   | <b>1</b>           | It can burn if heated.[Note 1] (eg mineral oil)                                                                                                           |
| <b>2</b>                          | Temporary incapacitation (insufficiency) in intense or continuous contact or possible residual diseases. (Ex. Diethyl ether)                                                  | <b>2</b>           | It can burn if partially heated or subjected to relatively high pressure.[Note 2] (Ex. Diesel).                                                           |
| <b>3</b>                          | Severe persistent or moderate residual disease in short contact. (Ex. Chlorine)                                                                                               | <b>3</b>           | Solid and liquid substances that can burn under almost all pressure conditions.[Note. 3] (Ex. Gasoline).                                                  |
| <b>4</b>                          | Death or heavy residue on very short contact diseases. (Ex. Phosphine, sarin, carbon monoxide)                                                                                | <b>4</b>           | It can evaporate rapidly or completely under normal atmospheric pressure and temperature, or dispersed in air and burns.[Note 4] (Ex. Propane, hydrogen). |
| Instability / Reactivity (Yellow) |                                                                                                                                                                               | Custom (White)     |                                                                                                                                                           |
| <b>0</b>                          | Even if it is exposed to fire, it does not enter into a chemical reaction. It does not react in contact with water. (Ex. Helium)                                              |                    | The white "special note" field can contain many different characters or symbols. The following symbols are specified in the NFPA 704 standard.            |
| <b>1</b>                          | It is stable under normal conditions and can react at high temperature and pressure. (Ex. Propane)                                                                            |                    |                                                                                                                                                           |
| <b>2</b>                          | It undergoes a drastic chemical change at high temperature and pressure. Reacts violently with water or forms an explosive mixture. (Ex. White phosphorus, potassium, sodium) | <b>OX</b>          | The substance is an oxidant. (Ex. potassium perchlorate, ammonium nitrate, hydrogen peroxide)                                                             |
| <b>3</b>                          | It may explode as a result of high temperature and may decompose with explosion. Explosion occurs as a result of reaction with water or shaking. (Ex. Ammonium nitrate)       | <b>W</b>           | The substance reacts with water. (Ex. Sodium, sulfuric acid)                                                                                              |
| <b>4</b>                          | May explode under normal temperature and pressure and can be explosively dissolved. (Ex. Nitroglycerin, trinitrotoluene)                                                      | <b>SA</b>          | The substance is an asphyxiant gas that will cause asphyxia.[Note 5]                                                                                      |

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Road Vehicles must have appropriate plaques on both the rear and both sides.



**Tankers Carrying Dangerous Goods**

#### 4.4 Signs and packing groups of dangerous goods.

For packaging purposes, dangerous goods belonging to all classes except classes 1, 2, 6.2 and 7 are divided into three "packaging groups" (PG) according to the degree of danger they represent:

Packing Group I – High level of danger

Packing Group II – Medium hazard level

Packing Group III – Low hazard level

#### 4.5. Segregation tables on the ship and in the port according to the classes of dangerous goods.

Since packaged cargo is not handled at the shore facility, there is no need for a segregation table.

#### 4.6. Segregation distances and separation terms of dangerous goods in warehouse storage

Hazardous Substances are not stored in the warehouse, since the product handled in the facility is of one type, segregation is not carried out and necessary precautions are taken within the scope of the ATEX directive.

### 5. HANDBOOK ON DANGEROUS LOADS HANDLED ON THE PORT FACILITY

The Coastal Facility, which carries out dangerous cargo loading/unloading, handling and temporary storage activities, in order to contribute to the safe fulfillment of these activities;

- Hazardous substance classes,
- packages of dangerous goods,
- packaging,
- tags,

|                                                                                   |                                                                     |                        |            |
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- marks and packing groups,
- Separation tables on the ship and in the port according to the classes of dangerous goods,
- Dangerous loads emergency response action flow chart
- emergency contact information
- emergency equipment locations and operating instructions
- There is a Dangerous Goods Handbook in pocket size, which includes coastal establishment rules.

## 6. PROCEDURES FOR OPERATION

### 6.1 Procedures for safe berthing, mooring, loading/discharging, sheltering or anchoring of ships carrying dangerous cargoes day and night

6.1.1 Guiding a ship that has any dangerous cargo on board, where and when to anchor, moor, berth and stay in the port area, taking into account the nature and amount of dangerous cargoes, environment, population and weather conditions. is the responsibility of the presidency.

6.1.2 In an emergency, directing the transportation of a ship with any dangerous cargo on board in the port area or its removal in the port area for the safety of the ship and crew can be made with the approval of the ship's captain, the decision of the port operator and the port authority.

6.1.3 It is the responsibility of the port authority to determine any additional requirements in accordance with the local conditions and the amount and nature of the dangerous cargoes exposed.

6.1.4 Port facility operators should ensure that:

Ensuring adequate and secure mooring facilities and

Ensuring adequate and safe access between the ship and the shore

For all other operational matters, Technical Information Booklet shall be reviewed.

### 6.2 Procedures for additional measures to be taken according to seasonal conditions for loading and unloading of dangerous cargoes.

Dangerous cargoes can be affected by high temperature (in summer) and rain, strong wind (all year) events, depending on the seasons. Daily weather reports are shared by the relevant unit and meteorological conditions are constantly followed as the port operator. Pre-emergency weather conditions are also shared with all parties along with the measures to be taken.

Operations may be interrupted in lightning storms and severe swells at the discretion of the Ship's Captain, Loading Master and Terminal Manager. In addition, the wind criteria are as follows.

- 25 Knots: Unloading is stopped
- 30 Knots: Hose is removed
- 35 Knots: The ship must be ready to leave the buoy area immediately

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- In case of severe storm warnings, port foreman, technicians and tethered ships are informed.
- According to the severity of the storm to come, it is ensured that the ship machinery is always ready for action in the fastest way.
- In heavy rainy weather, filling / unloading activities are suspended, taking into account personnel safety.
- Loading and unloading operations are suspended in case of storms, sudden strong winds and lightning strikes.
- In case of snow and icing, port machinery and transfer vehicles are not allowed to operate until the slippery environment is eliminated. When the environment is safe, the vehicles operate at the safest speed.
- The relevant procedures are specified in the ship-shore checklist.
- In the event that the ship under operation leaves the pier for compelling reasons before the operation is completed, both the Port Authority and the Customs Directorate are informed.

### **6.3. Procedures on keeping any inflammable, combustible and explosive materials away from operations which cause or are likely to cause sparking and abstaining from operating any tools, apparatus or device which cause or are likely to cause sparking in areas where hazardous materials are handled, stowed and stored.**

6.3.1 Before performing a hot work at our facility, the responsible company officer who will perform the hot work shall have a written authorization issued by the port administration to perform this hot work. Such authorization will include details of the hot workplace as well as the safety measures to be followed.

6.3.2 In addition to the security measures required to be taken by the port administration, additional security measures required by the ship and/or interface will be taken, together with the ship and/or interface responsible(s) responsible for the hot work, before starting the hot work.

6.3.3 These additional security measures will include:

6.3.3.1 Frequency of inspection and re-inspection of local areas and adjacent areas, including testing by approved testing organizations to ensure that areas will remain free and free of flammable and/or explosive atmospheres and that there is no oxygen deficiency;

6.3.3.2 Removal of dangerous cargoes and other combustible materials from work areas and adjacent areas. Substances to be removed from the said areas; including lime, sludge, sediment and other potentially flammable materials.

6.3.3.3 Combustible building materials (eg; beams, wooden partitions, floors, doors, wall and ceiling coverings) against accidental ignition.

6.3.3.4 In order to prevent the spread of flames, sparks and hot particles from work areas to adjacent or other areas; sealing and sealing open pipes, pipe passages, valves, joints, cavities and open parts.

6.3.4 A copy of the hot work authorization and safety precautions will be posted at the entrance to each work area, as well as in the area adjacent to the work area. Authorization and security measures to be taken will be posted in a place where all employees who will take part in the hot work can see it, and this will be clearly understood by the employees.

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6.3.5 When performing hot work,

6.3.5.1 Checks will be made to ensure that conditions have not changed;and

6.3.5.2 At least one suitable fire extinguisher or other suitable fire extinguishing equipment shall be available for immediate use in the hot workplace.

6.3.6 Upon completion of this work during hot work and for a sufficient period of time after completion, effective fire control shall be carried out in the hot work area as well as in adjacent areas where a hazard from heat transfer may occur.

6.3.7 For additional more detailed information and procedures regarding hot works and processes, the document "International Safety Guidelines for Oil Tankers and Terminals (ISGOTT)" shall be consulted.Permission will be granted for the works to be carried out on the facility and dock in accordance with ISGOTT and the Work Permit Procedure.

6.3.8 The Port Facility Occupational Safety Procedure will also be implemented.Heat treatment is not allowed on the ships berthed to the buoy and during the discharge/loading of these ships.

## **7. DOCUMENTATION, CONTROL AND REGISTRATION**

### **7.1 Procedures regarding the supply and control of all mandatory documents, information, and control of dangerous cargoes by the relevant persons**

Documents related to dangerous goods are recorded at the facility according to the Ship Berthing Procedure.The documents are checked by the authorities and revised when there is a change related to the relevant process.

The current program is kept up-to-date and controls are made by making use of elements such as the control reminder mechanism, internal audits, and external audits.In particular, material safety data sheets for all dangerous substances kept in the terminal are also registered on this system.

### **7.2 Procedures for keeping up-to-date list and other relevant information of all dangerous cargoes in the coastal facility site regularly and completely**

UN 1965 HYDROCARBON GAS MIXTURE (LPG), which is in the dangerous product group at the terminal, is stored in pressurized tanks.Only the registered product group is stored in these tanks, which are registered in our Storage License approved by the Energy Market Supervision Board.

Tank stock movements, transfer transactions and other tank operation processes are followed manually.Apart from this, the tanks that are opened for sale are tracked and recorded via the SAP program for the transfer processes.

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### 7.3 Procedures for checking that the dangerous goods arriving at the facility are properly identified, the correct shipping names are used, certified, packed/packaged, labeled and declared, loaded and transported safely in approved and legal packaging, container or cargo transport unit, and reporting the control results

Systematic records of dangerous substances, which constitute our main field of activity, are tracked through the SAP program at the terminal.

The SAP system is a program that is created not only by the terminal but also by the chain data group that is entered by the relevant units as soon as the dangerous cargo is taken from the exit area. All details such as which product it is, how much it is, which method of shipment it comes with, its receipt in tanks, purchase quantities, transfer quantities, the analysis report of the product on which day it is sold, and what specific values it has are available in the system.

### 7.4 Procedures for obtaining and maintaining a safety data sheet (SDS).

As of January 1, 2014, it is obligatory to have a Safety Data Sheet (SDS) containing the following information together with the dangerous goods to be transported in all modes of transport (by Road, Railroad, Airway and Seaway) by the laws of our country.

- UN Number,
- PSN name (Proper Shipping Name,) (Required for sea freight)
- Class, (with sub-hazards)
- Packing Group ( Class 3, 4.1, 4.2, 4.3, 5.1, 6.1, 8, 9 )
- Whether it is a Marine Pollutant,
- Tunnel Restriction Code (Required for road transport.)

This scope Safety data sheets are provided and recorded as appropriate. These safety information forms are stored in digital or physical media for one year.

### 7.5 Procedures for keeping records and statistics of dangerous cargoes.

In the terminal, the registration of the UN 1965 LPG cargo in the dangerous product group is made through the SAP software. Reports and statistical data can be obtained as computer data via SAP at any time.

### 7.6 Information About the Quality Management System

As Likitgaz Dağıtım ve Endüstri A.Ş., all of the activities in line with our continuous improvement goals are carried out in an integrated manner with management systems. Our company has ISO 9001, management systems certificate obtained from the relevant authorized certification bodies. The documents mentioned in this guide are numbered and recorded and made available to the relevant persons within the company. Within the scope of these documents, we are subject to internal and external audits at least once a year, and our

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activities aiming to continuously increase the importance we attach to human and environmental health and our stakeholder satisfaction are continued.

## **8. EMERGENCIES, EMERGENCY PREPAREDNESS AND RESPONSE**

### **8.1 Response procedures for dangerous cargoes that pose/may create risks to life, property and/or the environment and dangerous situations involving dangerous cargoes**

#### **To decide;**

The preventive action options for a given situation depend on a number of factors. In some cases, evacuation may be the best option. In other cases, shelter in place may be the best option. Sometimes, these two actions can be used together. In any emergency, authorities need to quickly issue instructions to the victims. Subjects will need to constantly hear information and instructions while being protected at the scene or being evacuated.

Proper evacuation in the following elements will determine the degree of effectiveness of evacuation or on-scene protection. The degree of importance of these factors may vary depending on the emergency conditions. In emergencies, other factors may need to be identified and considered. This list shows what information might be needed to make the initial decision.

#### **Dangerous cargoes**

Degree of harm

Chemical and physical properties

Amount involved

Containment/control of release

Rate of vapor movement

#### **Population Exposed to Threat**

Locations

Number of People

Time available to evacuate or shelter in-place

Ability to control evacuation or shelter in-place

Building types and availability

Special institutions or populations, e.g., nursing homes, hospitals, prisons

#### **Weather conditions**

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Effect on vapor and cloud movement

Potential for change

Effect on evacuation or shelter in-place

### **Protective Actions and Response**

Protective Actions are those steps taken to preserve the health and safety of emergency responders and the public during an incident involving releases of dangerous goods and Appendix-5 produced according to specified hazardous substances in the feature act according to the Emergency Response Table.

Isolate Hazard Area and Deny Entry means to keep everybody away from the area if they are not directly involved in emergency response operations. Unprotected emergency responders should not be allowed to enter the isolation zone.

### **Evacuation**

"Evacuation" means to move all people from a threatened area to a safer place. To perform an evacuation, there must be enough time for people to be warned, to get ready, and to leave an area. If there is enough time, evacuation is the best protective action.

Begin evacuating people near by and those outdoors in direct view of the scene. When additional help arrives, expand the area to be evacuated downwind and crosswind to at least the extent recommended in measures specified in the Emergency Response Table referred to in Annex-5. Even after people move to the distances recommended, they may not be completely safe from harm.

They should not be permitted to congregate at such distances. Send evacuees to a definite place, by a specific route, far enough away so they will not have to be moved again if the wind shifts.

In the case of an emergency, the areas to which the persons are to be assembled in the Terminal are identified and marked as "Emergency Assemble Points".

### **Shelter In-place**

Shelter In-Place means people should seek shelter inside a building and remain inside until the danger passes. Sheltering in-place is used when evacuating the public would cause greater risk than staying where they are, or when an evacuation cannot be performed. Direct the people inside to close all doors and windows and to shut off all ventilating, heating and cooling systems.

**In-Place protection measures should be taken into account in the following situations;**

- In case the vapors are combustible,
- In case it takes a long time to degas the area,
- In case the buildings cannot be firmly closed.

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It is vital to maintain communication with competent people inside the building so that we can advise on changing conditions. Persons under guard in situ should be warned to stay away from windows, as in the event of a fire and/or explosion there is a danger of being struck by glass or metal fragments. Every event related to dangerous cargoes differs from each other. Each of these has separate problems and concerns. The form of action to protect people must be chosen carefully.

### **BLEVE(Explosion of Steam from Boiling Liquid)**

Background information on BLEVEs is provided, and safety information is provided below, including what to do in the event of incidents involving liquefied petroleum gas (LPG), UN1075 type substances. LPGs contain the following flammable gases: Butane, UN1011; Butylene, UN1012, Isobutylene, UN1055, Profillen, UN2077, Isobutane, UN1969 and Propane, UN1979.

What Are the Major Hazards from a BLEVE Condition?

The main hazards involved in a propane or LPG based BLEVE event are:

- fire
- Thermal radiation from fire
- Explosion
- Piece splash

### **BLEVE – SAFETY PRECAUTIONS**

Use it carefully. The table below provides summary information on tank characteristics, critical distances, and coolant water flow rates for various tank sizes. This chart is provided as some guidance to responders, but the information contained herein should be used with caution. The dimensions of the tank are approximate and may vary depending on the design and application of the tank. The minimum time to exhaustion is based on severe torch light impact in the vapor cavity of a good tank and is approximate. Tanks fail sooner when damaged or corroded. Tanks may also fail minutes or hours after the minimum time specified here, depending on these conditions. It is assumed here that these tanks are not equipped with thermal barriers or a water spray cooling system.

The minimum time to discharge is based on a fire swallow with an appropriately sized pressure relief valve. If the tank is only partially swallowed, then the time required to empty is increased. (for example, if the tank is 50 percent swallowed, then it takes twice as long to empty the tank)

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Once again, it is assumed that the tank is not equipped with a thermal barrier or water spray. Tanks equipped with thermal barriers or water spray coolers significantly increase the time required to empty and the time required to empty. A thermal barrier can reduce heat input to a tank by a factor of ten or more. This means that it can take ten times longer to empty the tank with the Pressure Relief Valve (PRV). Fireball Radius and emergency response distance are based on Mathematical equations and are approximate. They assume a round fireball, and that may not always be the case. Two safety distances for public evacuation.

The minimum distance is based on tanks placed at a small elevation angle (ie several degrees above horizontal). This is most common in horizontal cylinders. The preferred evacuation distance has a greater margin of safety, as they assume tanks are placed at a 45 degree angle to the horizontal. This is more convenient if you have a vertical cylinder.

It is understood that these distances are extremely wide and cannot be useful in an environment with a large number of people. However, it is important to understand that the closer you get to the BLEVE zone, the faster the risks increase.

Note that those that reach the furthest from the broken pieces correspond to the 45-degree area of each end of the tank.

The water flow rate is based on the equation:  $5 \sqrt{\text{capacity (US gal)}}$  = US gal/minute time required to cool the tank metal. Warning: The data given here are approximate and should only be used with the utmost care.

For example, where times are given for the end of a tank or for the tank to be emptied from the pressure relief valve, these times are typical, but they may vary from case to case. Therefore, do not risk your life based on these deadlines.

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| BLEVE(BE CAREFUL WHEN USING) |         |               |        |               |        |              |          |                                               |                                                    |                 |       |                             |        |                             |        |                               |        |                         |          |
|------------------------------|---------|---------------|--------|---------------|--------|--------------|----------|-----------------------------------------------|----------------------------------------------------|-----------------|-------|-----------------------------|--------|-----------------------------|--------|-------------------------------|--------|-------------------------|----------|
| Capacity                     |         | Diameter      |        | Length        |        | Propane Mass |          | Maximum time required for severe fever to end | Approximate time of discharge for fever swallowing | Fireball radius |       | Emergency response distance |        | Minimum evacuation distance |        | Preferred evacuation distance |        | Coolant water flow rate |          |
| Liter (Gallon)               |         | meters (feet) |        | meters (feet) |        | Kilogram(Lb) |          | Minute                                        | Minute                                             | Meter(feet)     |       | meters (feet)               |        | meters (feet)               |        | meters (feet)                 |        | liter/min.              | gal/min. |
| 100                          | (38.6)  | 0.3           | (1)    | 1.5           | (4.9)  | 40           | (88)     | 4                                             | 8                                                  | 10              | (33)  | 90                          | (295)  | 154                         | (505)  | 307                           | (1007) | 94.6                    | 25       |
| 400                          | (154.4) | 0.61          | (2)    | 1.5           | (4.9)  | 160          | (353)    | 4                                             | 12                                                 | 16              | (53)  | 90                          | (295)  | 244                         | (801)  | 488                           | (1601) | 189.3                   | 50       |
| 2000                         | (772)   | 0.96          | (3.2)  | 3             | (9.8)  | 800          | (1764)   | 5                                             | 18                                                 | 28              | (92)  | 111                         | (364)  | 417                         | (1368) | 834                           | (2736) | 424                     | 112      |
| 4000                         | (1544)  | 1             | (3.3)  | 4.9           | (16.1) | 1600         | (3527)   | 5                                             | 20                                                 | 35              | (115) | 140                         | (459)  | 525                         | (1722) | 1050                          | (3445) | 598                     | 158      |
| 8000                         | (3088)  | 1.25          | (4.1)  | 6.5           | (21.3) | 3200         | (7055)   | 6                                             | 22                                                 | 44              | (144) | 176                         | (577)  | 661                         | (2169) | 1323                          | (4341) | 848                     | 224      |
| 22000                        | (8492)  | 2.1           | (6.9)  | 6.7           | (22.1) | 8800         | (19400)  | 7                                             | 28                                                 | 62              | (203) | 247                         | (810)  | 926                         | (3038) | 1852                          | (6076) | 1404                    | 371      |
| 42000                        | (16212) | 2.1           | (6.9)  | 11.8          | (38.7) | 16800        | (37037)  | 7                                             | 32                                                 | 77              | (253) | 306                         | (1004) | 1149                        | (3770) | 2200                          | (7218) | 1938                    | 512      |
| 82000                        | (31652) | 2.75          | (9)    | 13.7          | (45.1) | 32800        | (72310)  | 8                                             | 40                                                 | 96              | (315) | 383                         | (1257) | 1435                        | (4708) | 2200                          | (7218) | 2710                    | 716      |
| 140000                       | (54040) | 3.3           | (10.8) | 17.2          | (56.4) | 56000        | (123457) | 9                                             | 45                                                 | 114             | (374) | 457                         | (1499) | 1715                        | (5627) | 2200                          | (7218) | 3539                    | 935      |

## 8.2 Information on the ability, capability and capacity of the port facility to respond to emergencies

The terminal has a security mechanism that is always ready for emergency response. The terminal has Emergency Instruction and Fire Fighting Instruction prepared for an emergency. Scenario-based studies were carried out in these instructions and the distribution of personnel was determined.

There is a 3.898 m<sup>3</sup> fire water tank in the terminal against a possible fire hazard. The fire pumps in the terminal have 1 electric and 3 diesel as backups of each other. The fire pipeline is located throughout the terminal. There are hydrants connected to the fire pipeline throughout the terminal and fire cabinets (included in the necessary equipment) next to these hydrants. There are fire extinguishers suitable for the exit point and response method of the fire in the terminal. Fire extinguishers are checked periodically. In a possible tank fire, cooling tanks can be done.

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There is a fire detection and alarm system in the terminal. With the detectors (Gas Detector) in this system, a possible fire situation is detected in advance and the intervention time is reduced to the lowest level. This system gives an audible warning after detection. There are also fire alarm buttons integrated into the above system throughout the terminal. Periodic control and maintenance of this system are carried out by the authorized company.

Fire drills are held at least twice a year.

SEAGULL MARTİ ÇEVRE HİZMETLERİ LTD ŞTİ provides 1. 2. 3rd level service to response to chemical spill events. In partnership with the company, drills are held twice a year under the supervision of the Kocaeli Regional Port Authority. Every year, trainings within the scope of ISPS code, inspection by the port authority and exercises are carried out under the supervision of Kocaeli Regional Port Authority.

#### NUMBERS TO CALL IN TERMINAL AND OUT OF THE FACILITY

|                                                                                                         |                |
|---------------------------------------------------------------------------------------------------------|----------------|
| Terminal Manager (Uğur Avcı)                                                                            | 0532 225 47 93 |
| Kocaeli Regional Port Authority                                                                         | 0262 528 37 54 |
| Kocaeli Governorship Directorate of Environment, Urbanization and Climate Change Provincial Directorate | 0262 312 13 12 |
| Kocaeli Directorate of Environmental Protection                                                         | 0262 331 83 91 |
| Körfez District Police Department                                                                       | 0262 528 15 82 |
| Kocaeli Governorship                                                                                    | 0262 300 50 00 |
| Kocaeli Körfez Petrochemical Customs Directorate                                                        | 0262 528 44 72 |
| Tugboat and Pilotage Services                                                                           | .....          |
| Marine Cleaning Company (Seagull Marti Environment Services)                                            | 0212 243 48 32 |
| Emergency (Fire/Ambulance)                                                                              | 112            |

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### 8.3 Regulations regarding the first response to the accidents involving dangerous cargoes (first aid procedures, first aid possibilities and capabilities, etc.)

Facility Emergency Instruction is available. Emergency response team lists are given in the emergency plan. In order for the teams to be constantly ready for emergencies, at least 1 ISPS Code exercise, 2 times a sea rash exercise, 1 time a land rash exercise, 1 earthquake drill and 2 fire drills are held. In addition, all trainings required for the teams to gain skills such as "emergency response level 1 and 2, emergency equipment usage training, fire safety training, first aid training, ISPS code training, Seveso and Process safety training and TMGD training" are taken by authorized institutions and certifications are given. is kept up to date.

The "Medical First Aid Guide (MFAG)" in the IMDG Code appendix and Emergency Plans (EmS) in the IMDG Code appendix are used for emergency situations involving dangerous cargoes.

### 8.4 Notifications to be made inside and outside the facility in case of emergency

In case of emergency, action is taken according to Emergency Procedure, Emergency Instruction, Fire Fighting Instruction.

### 8.5 Procedures for reporting accidents

In case of any work accident, the necessary forms are filled according to the nature of the accident.

### 8.6 Coordination, support and cooperation method with official authorities

In any emergency, the response is carried out in coordination with the official authorities. In case of a fire, the local fire department is informed and the fire crew intervenes until the fire crews arrive. In emergencies arising from sabotage and terrorist activities, coordination with local security units is ensured. In cases such as natural disasters, the fire department is contacted if necessary, and coordination with AFAD is provided if necessary. In case of spillage at sea, coordination is ensured by contacting the Main Search and Rescue Coordination Center. In case of work accidents, notifications are made to the Ministry of Labor and Social Security. In case of a possible explosion, fire or emergency in the adjacent facility; First of all, measures will be taken at the facility, and teams will be prepared to assist the neighboring facility.

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## 8.7 Emergency evacuation plan for dispersion of ships and vessels from port facility

The emergency evacuation plan is as follows.

### Emergency Conditions

The terms that require the emergency departure of ships connected to the port facility maritime systems are stated below.

- Adverse Weather Conditions
- Fire or conditions requiring emergency on board
- Fire or conditions requiring emergency at the port facility area
- Other Reasons
- Fire on the facility or ship located in other facilities
- Acts of Terrorism
- Warfare
- Natural Disasters
- Situations considered necessary by officials
- Pollution
- Disturbance of ship position
- Ship damages
- Medical problems

#### Adverse Weather Conditions

- 25 Knot: Unloading is stopped.
- 30 Knot: Hose is unmounted.
- 35 Knot: The ship must be ready to leave the buoy area immediately.

### Fire or Emergency Conditions on Board

Fire situations that may occur in ships connected to the buoy system and that can grow out of control even if it is fought, are situations that require the operation to be stopped immediately and the ship to leave the buoy area.

In addition, in cases where there is an unavoidable leak/spill into the atmosphere in cases of breakage or splitting that may occur in any ship's tank or pipeline, the ship connected to the marine systems should be immediately removed from the buoy system in order not to damage the port facility and its surroundings.

### Fire or Emergency Conditions on Terminal

The ship is immediately removed from the buoy area in order to ensure the safety of the ship and the environment, in conditions that require emergency situations such as fire or uncontrollable leaks that may occur in the port facility. Leaks and fires that can be easily extinguished without affecting the operation at

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the port facility will be evaluated by the emergency terminal management, and the ship on the buoy will be decided to disperse.

### Communication

In the event of the above-mentioned emergencies, a fast, secure and uninterrupted communication between the port facility, the ship and the relevant authorities will be ensured by the communication tools specified below.

- VHF Radio
- Mobile phone
- Land phone

### Emergency Dispersion Preparation Process

- All emergencies are reported to the Port Authority by VHF and telephone.
- If it is decided to leave the ship urgently, the ship is taken to anchor area 5 under controlled conditions.
- The ship's captain and the port facility will initiate the emergency dispersion process by mutual agreement in cases where emergency dispersion is required and will notify the Port Authority as soon as possible.
- All loading and unloading operations must be stopped, the hose must be disconnected and the ship must be ready for dispersion.
- The ship will activate its own emergency plans against the risk of fire. (Must be discussed at the Safety meeting)
- It will be ensured that there are no sources that may cause sparks, as fast drainage will be made in the hose disconnection process.
- In all emergencies, if the required response exceeds the port facility capabilities, it should be immediately reported to the local guide organization, coast guard and port authorities.

The decision about dispersion the ship under control is based on the principle of life safety and will involve the following conditions.

1. Sufficiency of tugboats
2. The ability of the ship to lift under its own power
3. Availability of safe places to proceed or tow a ship in an emergency
4. Qualification of firefighting equipment
5. Proximity of other ships

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### Emergency Dispersion

If all relevant preparations are examined and deemed appropriate, the immediate dispersion of the ship will begin. Emergency separation will be provided by following the steps below in order.

Close coordination and cooperation are required between the Port Facility, Maritime & Port Authority at each stage.

1. Giving an alarm
2. Giving information about the emergency via telephone and VHF
3. Making the initial situation assessment between the Captain and the Port Facility Officer
4. Stopping the operation
5. Implementation of the port facility and ship emergency plan precautions
6. Deterioration of the current situation and the existence of the above-mentioned emergency dispersion conditions
7. Evaluation of the situation between the Captain, Port Facility Officer, Port Authority or Port Master, and Maritime Pilot
8. Deciding to immediate dispersion
9. Informing neighboring facilities and other vessels
10. Deploying of the tugboats emergency departure around the ship, completing their preparations, and indicating readiness
11. The captain completes the arrangement of the ship and implies readiness
12. Confirmation of the opening of the release hooks by the Loading Master
13. Emergency dispersion will be applied as a last resort and dispersion hooks will not be released until all precautions are taken and the above conditions are met.

### CAUTION !

**THE SHIP EMERGENCY LEAVING PROCESS MUST BE CONSIDERED TO BE APPLIED AS A LAST REMEDY**

**AND THE HOOKS MUST NOT BE RELEASED UNTIL ALL PRECAUTIONS ARE TAKEN**

**AND THE ABOVE CONDITIONS ARE FOLLOWED**

### Post Emergency Dispersion

1. Towing the ship after the departure process and declaring the place where the ship will be taken
2. Transfer of the ship to the allocated area accompanied by tugboats or with its own machine
3. Detection of possible damage or deficiency by analyzing the Port Facility
4. Evaluation of the time when the Ship and Port Facility will be ready for cargo handling again
5. Sharing the problems, if any, that occurred during the emergency dispersion
6. Agreement between the pilotage regarding fire, explosion, and similar emergencies that may occur during loading/unloading, towage agency, and the Port facility authorities.

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According to the commitment given to the Port Authority for tugboat and pilotage services authorized by the Ministry of Transport and Infrastructure, in order to quickly disperse the ship away from the facility and tow it to a safe point, with tugboats equipped to fight fires according to the weather and sea conditions

## **8.8 Procedures for the handling and disposal of damaged dangerous cargoes and waste contaminated by dangerous cargoes**

### **8.8.1 Waste Collection and Transport**

8.8.1.1 According to the types of wastes generated, they are collected separately in waste bins, transported, and stored appropriately. Wastes generated as a result of maintenance activities are also considered within this scope.

8.8.1.2 If an additional waste class is determined to the existing waste classification, it will be integrated into the system

8.8.1.3 Waste containers and storage areas should be appropriate for hazardous cargo wastes. The waste storage area should be surrounded, and the floor should be made up of concrete. There should be wastewater collection raceways inside the waste storage area.

### **8.8.2 Waste Disposal**

8.8.2.1 According to whether the collected wastes are non-hazardous or hazardous wastes, the wastes are sold and removed from the facility with contracted organizations in accordance with legal recovery/disposal methods.

8.8.2.2 The possibilities of all contractors and carriers within the scope of waste management to transport and/or dispose of wastes with appropriate methods are examined.

8.8.2.3 It is evaluated in terms of whether they fulfill their legal obligations and the methods of performing waste recycling and disposal processes without harming the environment, if contracting services are received for the transportation, sale, and/or disposal/recycling of wastes.

8.8.2.4 It is mandatory to keep all records of waste disposal.

### **8.8.3 Contaminated Packages;**

8.8.3.1 These wastes are empty barrels. When it is generated, it is left in the contaminated packaging area at the landfill, and the Environmental Consulting Firm and the Environmental Management System Officer contact the contracted and licensed firm, and it is sent via the Mobile Waste Tracking System (MoTaT) within the time specified in the legislation. DGSA should be contacted, and a "Transport Document" should be prepared and delivered to the transporter for hazardous waste shipments. The vehicle must also be subject to vehicle control

8.8.3.2 Contaminated Waste; These wastes are those that do not harm the environment but can be dangerous as a result of the combination of different materials or goods. When it is generated, it is collected in the barrel under the name of the waste at the exit of the production & warehouse and taken to the waste area. The Environmental Consulting Firm and the Environmental Management System Officer contact the contracted and licensed firm, and it is sent via the Mobile Waste Tracking System (MoTaT) within the time specified in the legislation. DGSA should be contacted, and a "Transport Document" should be prepared and

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delivered to the transporter for hazardous waste shipments. The vehicle must also be subject to vehicle control

### 8.9 Emergency drills and their records.

Drills are scheduled annually. The records of the exercises are kept with the Training Participation Form.

### 8.10 Information on fire protection systems

Fire Fighting System Material List is kept up to date. Detailed information on fire protection systems is given in the emergency plan.

### 8.11 Procedures for approval, inspection, testing, maintenance and availability of fire protection systems

Our terminal has a fire department report approved by the fire department.

#### 8.11.1 Fire Water Tanks and Fire Water

8.11.1.1 In order to prevent algae and sludge formed at the bottom or sides of the tank from creating a hazard during a fire, it should be emptied and cleaned at least once a year. During the emptying of the pools, the intake valve, check valve and filters are maintained.

8.11.1.2 In case of rapid drops in the water level, the leak location should be investigated and the malfunction, if any, should be corrected due to the possibility of leakage.

8.11.1.3 As a result of the annual checks to be made, if necessary, internal cleaning and maintenance should be carried out in closed warehouses.

#### 8.11.2 Fire Water Pumps

8.11.2.1 In addition to the planned maintenance, the issues to be considered regarding the operation of fire pumps and the elimination of possible malfunctions are listed below.

8.11.2.1.1 It should be checked that the thrust bolts of the shaft seal bearings of the pumps are mutually tight so that the pump can be easily turned by hand. It is normal for water to drip from the packing bearings during the operation of the pump. In order to prevent this water from flowing to the floor, it should be connected to the drainage with a thin pipe from the threaded mouth under the bearing console.

8.11.2.1.2 Fire water pumps are operated for at least 1 hour a week and recorded.

8.11.2.1.3 It must be ensured that the pump and the suction pipe are completely filled with water. If this is suspected, water should be filled by opening the water filling plug and the air intake taps, until the water overflows from the air intake taps, and the plug should be tightened when the water stops at the plug level.

8.11.2.1.4 Pump motors will draw more than normal current due to inrush current at the first moment of operation. When all pumps start working at the same time, due to the high current to be drawn, disjunctors may trip or major malfunctions may occur in the diesel generator. For this reason, the time relays that regulate the transition from star to delta in the protective switches that drive the pump motors should be adjusted according to the number of pumps and the amount of pumps to be activated at the same time, according to different and appropriate time intervals, and the pumps should be activated sequentially.

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8.11.2.1.5 After the above preparation and controls are done, the pumps are started by pressing the drive switches. During operation, the electric motor voltage and the amperage it draws should be checked from time to time. If the amp draw is high in normal operation, the causes should be investigated and rectified. There may be a fault or mechanical stress in the pump or motor. Voltages below normal can pose a danger to the motor.

8.11.2.1.6 Manometers should be kept under constant control and one or more of the pumps should be stopped in case of excessive pressure rises.

8.11.2.1.7 The discharge pipes of the pumps must be equipped with a valve first and a check valve after the valve.

8.11.2.1.8 Check valve in the discharge pipe of the pump that does not work; If the materials such as paper, garbage, stone pieces, moss and slime are jammed and prevent the check valve from closing completely, some of the water pumped by the other pumps is pumped back into the pool while passing through these inoperative pumps and suction pipes. This fault, which restricts the required water flow in the event of a fire, must be eliminated. If a rotation is observed in the couplings of some of the non-operating pumps during the operation of some pumps, it should be considered as an indication of the presence of the above-described fault in these pumps.

8.11.2.1.9 It must be ensured that the pump and motor rotate in the right direction during operation. For this reason, the direction of rotation must be drawn on the couplings and the control must be done accordingly.

8.11.2.1.10 During the operation of the pumps, the temperature of the pump and motor bearings can be hot enough to withstand the hand. If the temperature is high, it may be due to internal mechanical stress or coupling misalignment. In such cases, the pump must be stopped immediately and the fault must be corrected.

8.11.2.1.11 In pumps driven by a diesel engine, the engine must be started in accordance with the special instructions.

8.11.2.1.12 If any deficiencies or malfunctions are detected as a result of the control, they are corrected by the responsible persons.

### 8.11.3 Sprinkler Installation

8.11.3.1 The most important point to be considered and the maintenance to be done in the sprinkler installation is to prevent the sprinkler heads from clogging. To ensure this, the sprinkler must be operated in accordance with the standards/legislation and it must be ensured that it is in working order. Sufficient sprinkler heads should be kept as spares in each facility, and in case of a failure, they should be replaced with new ones and the defective ones should be repaired and backed up.

### 8.11.4 Fire Hydrant Installation

8.11.4.1 Rain water should be prevented from entering the fire hydrant hose cabinets, the hoses should be intact, strong and tightened enough. At least one of the hoses should always be kept connected to the fire valve.

8.11.4.2 Fire valves must be fault-free and leak-proof. Defective nozzles, valves, hoses will be promptly replaced with new ones, and faults should be repaired and backed up. For this reason, a sufficient amount of

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hoses, nozzles, fire valves, clamps, couplings and spare materials should be available in each facility. In the fire installation, it is not allowed to wait for the fault for any reason.

8.11.4.3 While the malfunctions detected following the drills are eliminated, the working fire hoses should not be placed in the cabinets when they are wet and contain water. Facilities should provide suitable hose hanger assemblies for the water in the hoses to drain and dry completely and should not put them back in place without making sure that the hose is thoroughly dried. If sea water has been pumped with hoses, they must first be washed with fresh water and dried in a cool-windy place.

8.11.4.4 All pipes of the fire hydrant and sprinkler installation should be inspected every three months, rusted parts must be painted, rotten parts must be replaced with new ones, valves and check valves must be checked and faults must be fixed.

8.11.4.5 If any deficiencies or malfunctions are detected as a result of the inspection of all fire hydrants, hoses and nozzles, they are corrected by the relevant responsible persons.

#### 8.11.5 Portable Fire Extinguishers

8.11.5.1 Sufficient spare devices should always be available in plant warehouses for malfunction, control or maintenance. For the above-mentioned purposes, spares should be put in place of the extinguishers taken from their place in order.

8.11.5.2 All fire extinguishers are eye-examined and checked on a monthly basis. After the control, the extinguishers are marked. During the control, especially dry powder extinguishers are turned upside down and tapped lightly on the base, thus allowing the powder in the tube to move. Otherwise, the powder inside the extinguishers, which remain in the same position for a long time, may settle to the bottom and solidify. If any deficiencies or malfunctions are detected as a result of the control, they are corrected by the relevant responsible persons.

8.11.5.3 Fire extinguishers TS ISO 11602-2 Fire Protection: According to the Portable and Wheeled Fire Extinguishers standard, a general control is passed by the seller company once a year. Fire extinguishers are tested by the relevant company at intervals not exceeding 10 years, and chemical powder is checked at the end of the year.

#### 8.11.6 Frost Protection

##### 8.11.6.1 Protection of Generators

8.11.6.1.1 When the outside temperature drops below +4C in winter, the water may start to freeze. For this reason, the radiators of generators with water-cooled engines should be secured with antifreeze.

##### 8.11.6.2 Protection of Fire Water Pumps

8.11.6.2.1 Fire water pumps and suction pipes are always filled with water. Therefore, the ambient temperature should not fall below +4C.

##### 8.11.6.3 Protection of Fire Water Distribution Pipes

8.11.6.3.1 The exposed main and branch pipes must be protected against freezing up to the hydrant taps. Therefore, the lines are protected against freezing either by means of insulation or by laying them underground.

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### 8.12 Precautions to be taken in cases where fire protection systems do not work

Fire protection equipment is critical equipment in the terminal. First of all, if such equipment is out of order for some reason, necessary action is taken. Within the scope of the Process Safety Procedure, critical equipment deactivation forms are used and this form is shared with the relevant people. In the daily shift reports, it is stated that such equipment is disabled and how precautions are taken, and it is ensured that the entire facility is aware of the situation. If the equipment to be deactivated is very critical and there is a dangerous situation that may be encountered in the operational process, the operations can be stopped, if necessary, by obtaining the approval of the Terminal Operations Department.

If an equipment change is made, it is submitted to the approval mechanism of the relevant authorities. If accepted, that change will be made.

### 8.13 Other risk control equipment

Risk analyzes are made for the management of risks at the terminal. Risk analyzes are prepared by the Terminal Manager, HSSE Operations Manager, Maintenance Supervisor, Shift Supervisor, OHS specialist, on-site doctor, and employees in the region/operation where the risk analysis is made. It is updated when necessary.

## 9. OCCUPATIONAL HEALTH AND SAFETY

### 9.1 Occupational health and safety measures

Occupational health and safety issues are given priority in the terminal. All kinds of work carried out in the terminal area are evaluated and carried out within the scope of risk assessments, work safety analyzes and work permit procedures, provided that certain procedures and instructions are followed. Before the work, all personnel who will work in the relevant work are given trainings on safety precautions, and orientation is made on what to do in case of an emergency. It is obligatory to use personal protective equipment in the terminal area and in all work areas related to the terminal.

### 9.2. Information on Personal Protective Clothing

Personal protective equipment; all tools, tools, equipment and devices that protect the employee against one or more risks arising from the work carried out, affecting health and safety, worn, worn or held by the employee, designed for this purpose, in order to protect the person against one or more risks. A device, tool or material made up of a whole by the manufacturer, a detachable or non-separable protective device, tool or material that is used with equipment that is carried or worn without a protective purpose to perform a specific activity, for the comfortable and functional operation of personal protective equipment. means replaceable parts that are required and used only with such equipment.

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- PPE should provide adequate protection against all risks encountered during its intended use.
- PPE designed and manufactured in such a way as to protect the user at the highest possible level during use in foreseeable conditions and in the intended direction, while carrying out hazardous work will be used.
- The most appropriate level of protection to be considered during design is the point at which the effectiveness of PPE begins to decline when exposed to risk from the use of PPE or during normal business conduct. PPE suitable for this design will be used.
- In the design of PPE, appropriate protection classifications will be taken into account in cases where the foreseeable conditions of use differ, such as different levels of the same risk factor can be distinguished.
- PPE that is designed and manufactured in such a way that it will not cause hazards and other disturbing factors that may arise from its structure during use in foreseeable conditions will be used.
- PPE material and parts, including substances resulting from deterioration, must not adversely affect the health and hygiene of the user.
- Any PPE element that comes into contact with the user or is likely to come into contact with the wearer should not be hard enough to cause irritation or injury, and should not have sharp edges or protrusions.
- Restrictions caused by PPE on posture and movement of the body and loss of sensitivity in sensory organs should be minimized, and PPE should not cause dangerous movements for the user or other persons.
- PPE's will be used, which are designed and produced in such a way as to ensure that the user can easily stand in the correct position by taking into account the movements to be made during the work and the postures of the body, and to remain in place for the foreseen usage period. For this purpose, it should be ensured that PPE can be used most effectively with the help of adjustable and addable systems or by producing it in different body sizes, ensuring that it is suitable for the body structure of the user.
- PPE which is manufactured as light as possible without reducing its durability and functionality should be used.
- If the same manufacturer has introduced PPE models of different types and classes to ensure simultaneous protection of adjacent parts of the body against these risks when there is more than one risk at the same time, they must be used in harmony with each other.

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All PPE used in the terminal are kept and used in accordance with the provisions of the “personal protective equipment regulation” and “the regulation on the use of personal protective equipment in workplaces”.

### 9.3 Closed Space Entry Permit Precautions and Procedures.

Closed Space Entry Permit Precautions and Procedures SEÇ-PRS-001 work permit procedures are also explained. In addition, during indoor entrances, SEC-FRM-005 Indoor Area Entry Permit Form (B) is used to ensure that the indoor area is entered and exited in a controlled manner. Relevant records are kept for at least three years. Personnel who have been working at the coastal facility for less than six months are not allowed to enter closed areas.

## 10. OTHER MATTERS

### 10.1 Validity of Dangerous Goods Conformity Certificate

TYUB was set by the TR Ministry of Transport and Infrastructure, General Directorate of Transport and Maritime Affairs, until the end of the coastal facility operation permit on 31.12.2028.

### 10.2 Tasks defined for Dangerous Goods Safety Advisor

As in section 2.4

### 10.3 Issues for those carrying dangerous goods that will arrive/leave the coastal facility by road (documents required to be kept by road vehicles carrying dangerous goods at the entrance/exit of the port or coastal facility area, equipment and equipment that these vehicles must have; speed limits in the port area, etc. matters)

Dangerous goods entry and exit to our terminal by road are made with the forms prepared within the scope of ADR. Vehicles within the facility will not exceed 20 KM/Hour.

### 10.4. Issues for those carrying dangerous goods that will arrive/leave the coastal facility by sea

- At least twenty-four hours before the ship and vessels carrying dangerous goods enter the port administrative area; Ships and marine vessels with a cruise time of less than twenty-four hours until they enter the port area submit a notification document containing detailed information about their cargo to the port authority in writing, right after their departure from the coastal facility.

- Transportation should be carried out in a safe, secure and environmentally friendly manner, and all necessary precautions should be taken to prevent accidents and to minimize the damage when an accident occurs.

- It is ensured that dangerous goods are safely loaded, stacked, secured, transported and unloaded in approved and legal packaging, container and cargo transport unit.

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- All relevant personnel are trained on the risks of dangerous goods transported by sea, safety precautions, safe working, emergency measures, security and similar issues, and training records are kept.
- It is ensured that the necessary safety measures are taken for dangerous substances that do not comply with the rules, are unsafe or pose a risk to people or the environment.
- In case of emergency or accident, necessary information and support is provided to those concerned.
- Dangerous goods accidents occurring in the area of responsibility are reported to the administration.
- It ensures that the ship's equipment and devices are suitable for dangerous cargo transportation.
- All mandatory documents, information and documents related to dangerous goods are obtained from the coastal facility and the cargo requests from the person concerned and ensures that they accompany the dangerous cargo.
- Ensures that the safety measures regarding loading, stacking, separation, handling, transportation and unloading of dangerous goods on board are fully implemented and maintained, and performs the necessary inspections and controls.
- Controls that the dangerous goods entering the ship are defined, classified, certified, packaged, marked, labeled, declared in accordance with the procedure, and that they are safely loaded and transported to the approved and legal packaging, container and cargo transport unit.
- It ensures that all ship personnel are informed and trained about the risks of transported, loaded and unloaded dangerous goods, safety precautions, safe working, emergency measures and similar issues.
- It ensures that people who are qualified and trained in the loading, transportation, unloading and handling of dangerous goods work in a way that takes occupational safety precautions.
- He cannot go out of the area allocated to him, cannot anchor, cannot approach buoys and docks without the permission of the port authority.
- Navigation, maneuvering, anchoring, berthing for the ship to carry the dangerous cargo safely and applies all rules and precautions during departures. - Provides safe entry-exit between the ship and the dock.

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- Informs its personnel about the practices, safety procedures, emergency measures and response methods related to dangerous goods on board.
- Keeps the current lists of all dangerous goods on board and declares them to the relevant parties.
- Takes the necessary safety measures for dangerous goods that do not comply with the rules, are unsafe, pose a risk to the ship, people or the environment, and report the situation to the port authority.
- Notifies the port authority of the dangerous cargo accidents that occur on the ship.
- Provides the necessary support and cooperation in on-board controls by official authorities.

**10.5 Additional matters to be added by the port facility.**

**N/A**



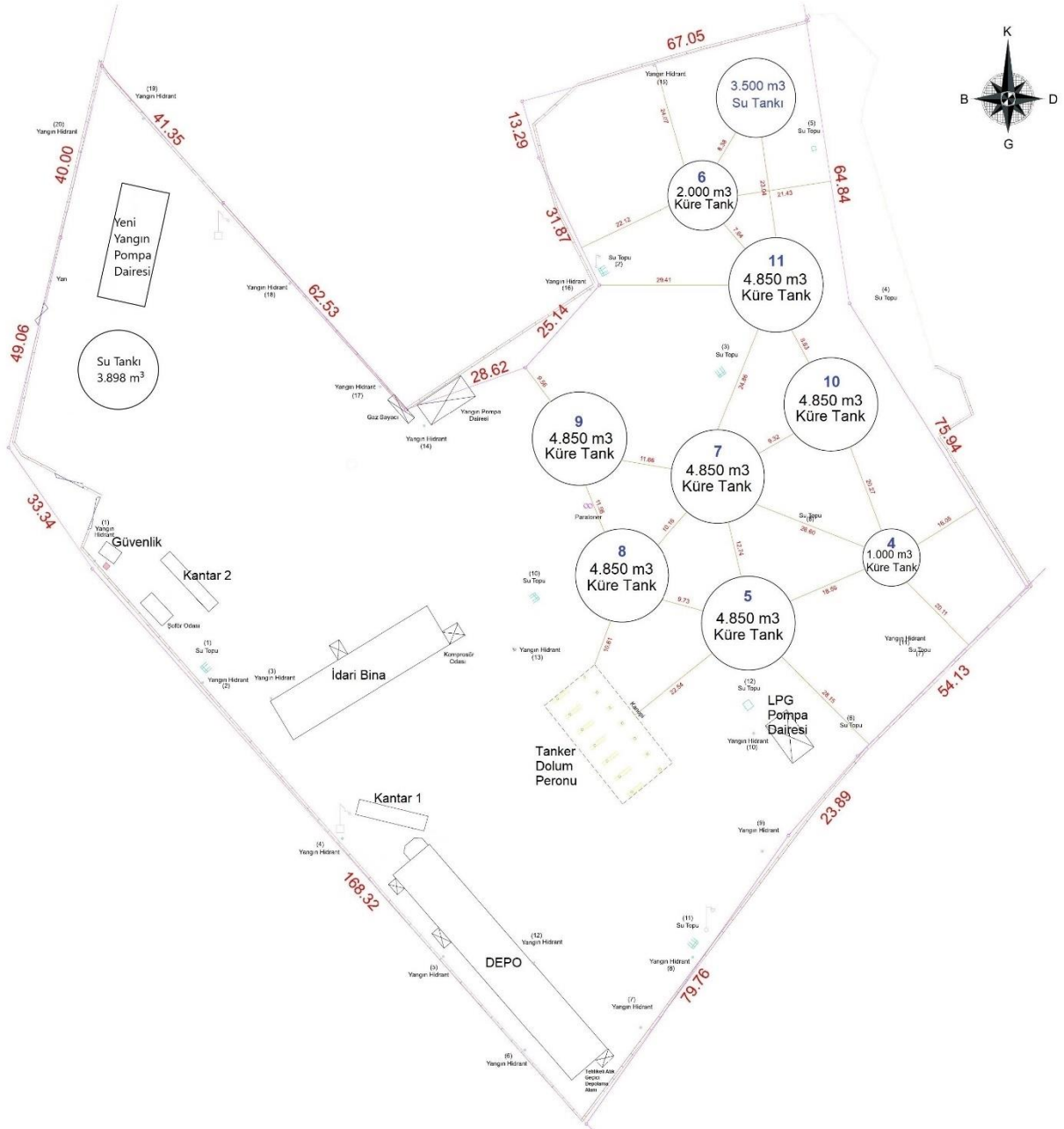
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## ATTACHMENTS

### 1- General site plan of the coastal facility

## YARIMCA TERMINAL VAZİYET PLANI



|                                                                                   |                                                                           |                 |            |
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## 2- General view photos of the coastal facility



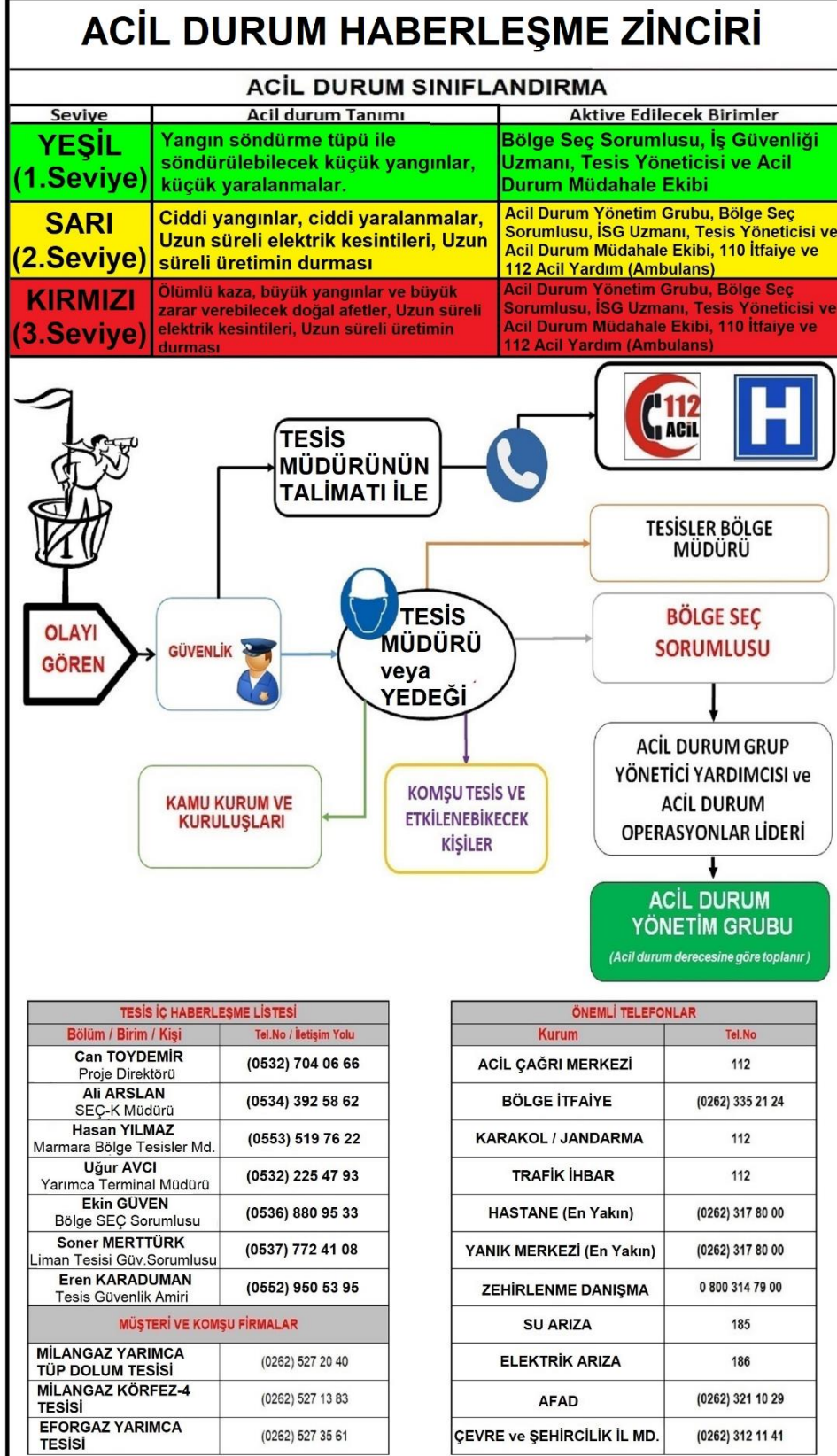


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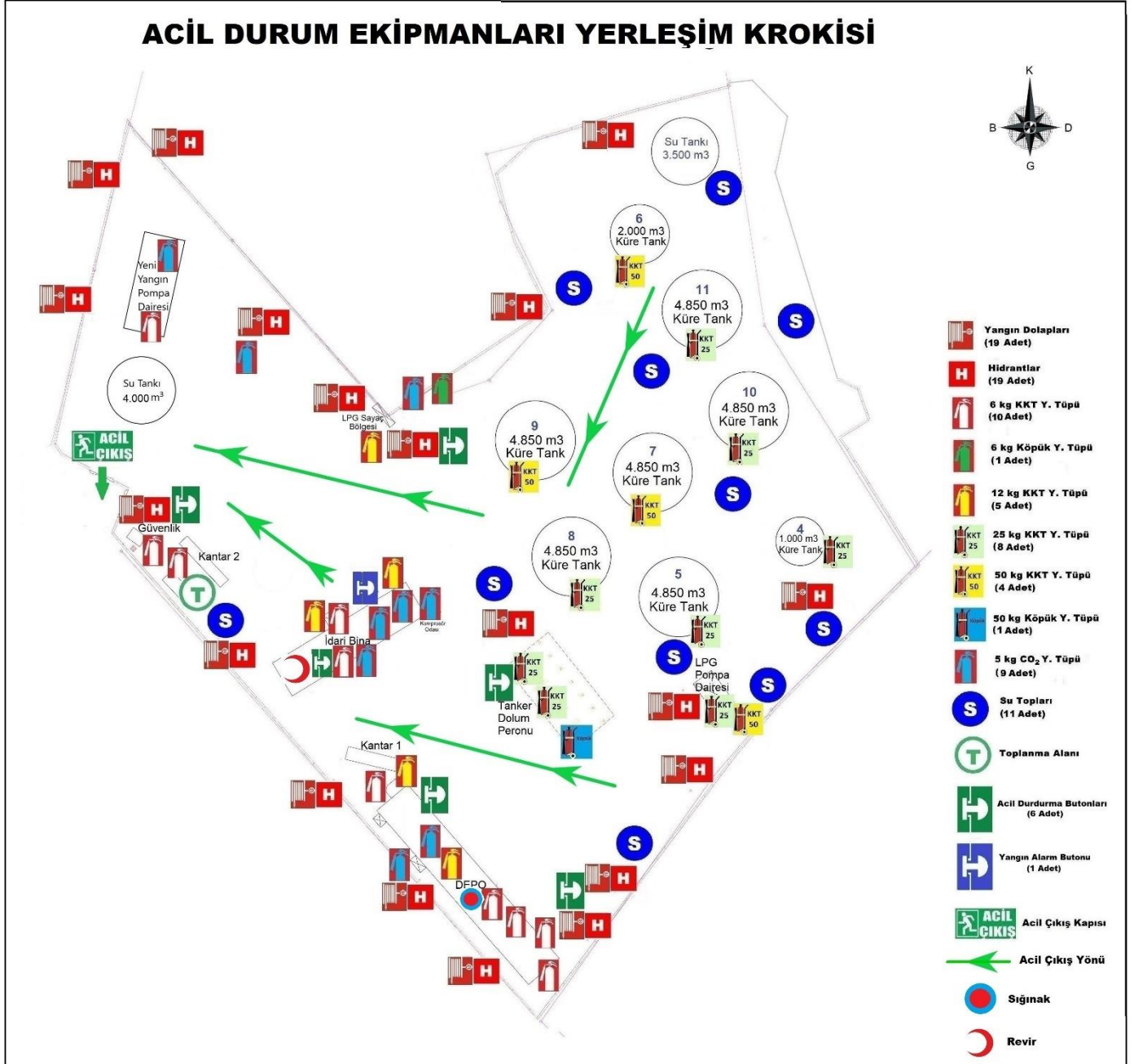


### 3- Emergency Contact Points and Contact Information





5- General Fire Plan of the Facility

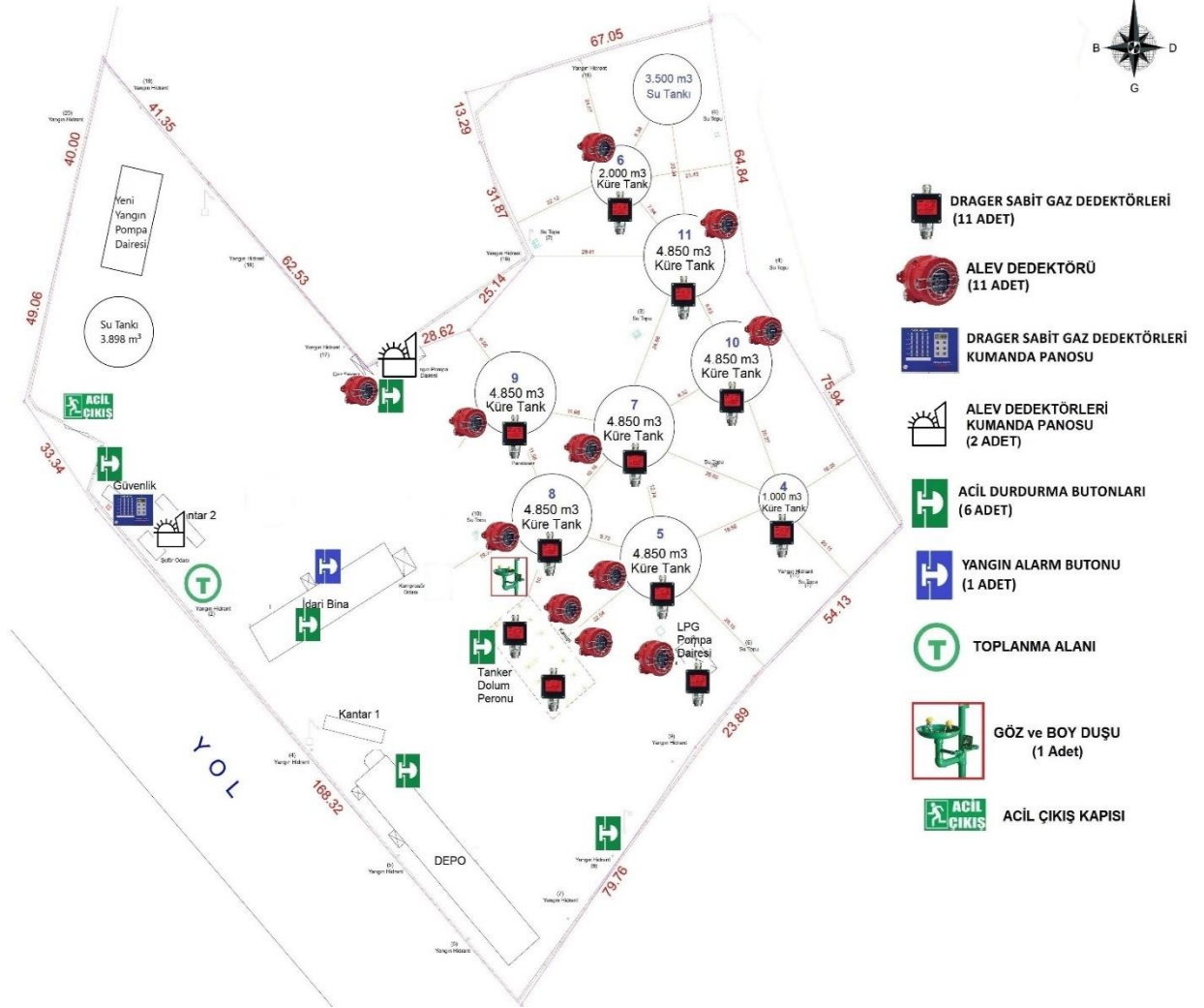


6- Fire Plan for Areas Where Hazardous Loads Are Handled  
As stated in Annex 4.

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## 7- Emergency Assembly Places Plan

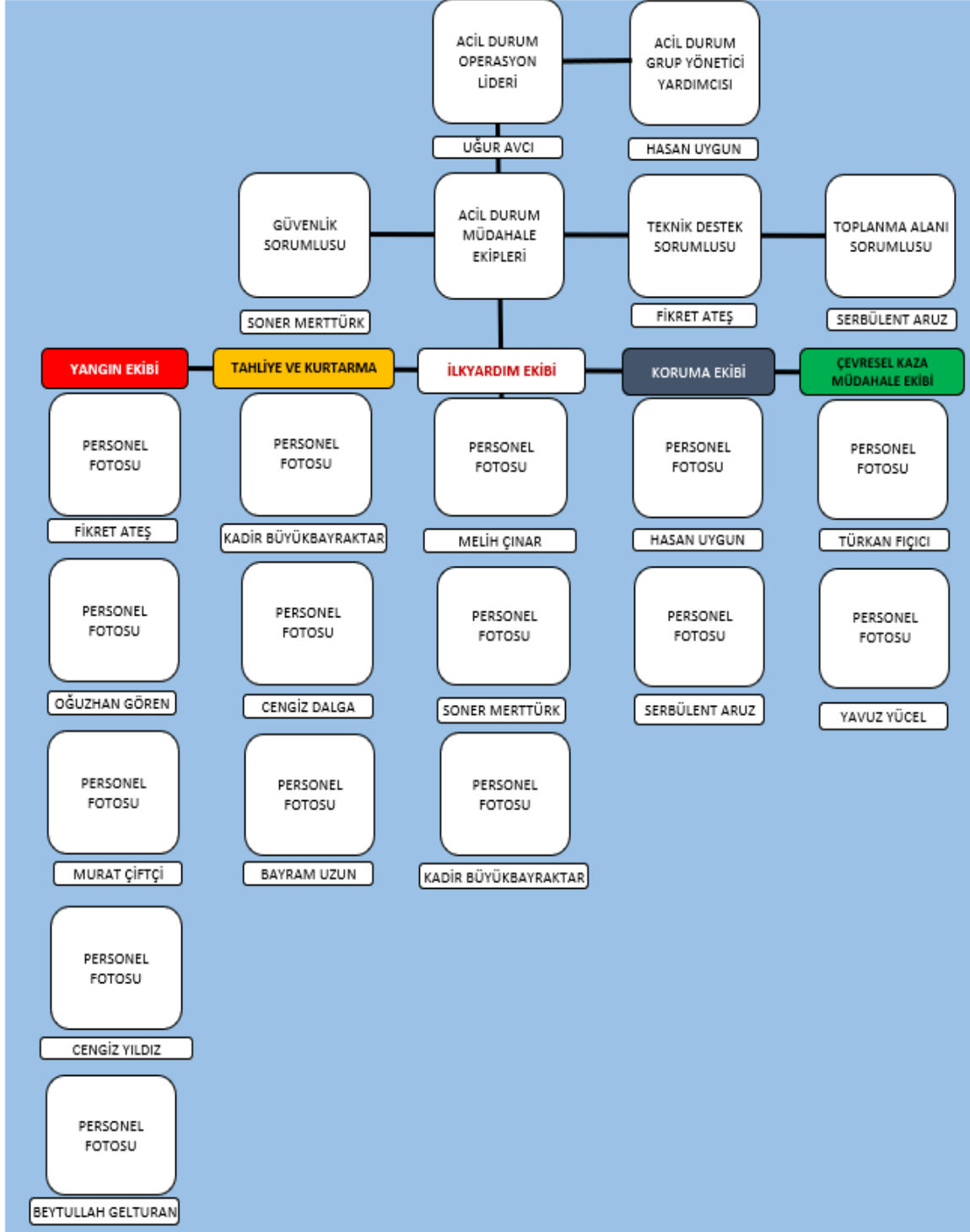
### YARIMCA TERMINAL ACİL DURDURMA SİSTEMİ





## 9- Emergency Management Chart

### TESİS ACİL DURUM ORGANİZASYONU





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#### 11- Leakage areas and equipment for CTU and Packages, entrance/exit drawings

Not applicable

#### 12- Inventory of Port Service Ships

Not applicable

#### 13- Sea coordinates of the administrative borders of the Port Authority, anchorage areas and the pilot's disembarkation/embarkation points

**The port administrative area of the İzmit (Kocaeli) Port Authority is the sea and coastal area within the line formed by the coordinates below.**

- a) 40° 45' 24" N – 029° 21' 15" E (Yelkenkaya Burnu)
- b) 40° 43' 00" N – 029° 21' 18" E
- c) 40° 43' 00" N – 029° 23' 24" E
- d) 40° 44' 57" N – 029° 30' 57" E
- e) 40° 44' 48" N – 029° 32' 30" E
- f) 40° 41' 12" N – 029° 33' 36" E

##### **B) Anchorage areas**

a) İzmit anchorage area: The anchorage area for vessels not carrying hazardous materials is the sea area defined by the following coordinates.

- 1) 40° 45' 00" N – 029° 52' 48" E
- 2) 40° 44' 00" N – 029° 52' 48" E
- 3) 40° 44' 00" N – 029° 55' 00" E
- 4) 40° 45' 00" N – 029° 55' 00" E

b) Yarımca anchorage area: The sea area formed by the following coordinates, which is used for ships carrying hazardous materials, nuclear-powered military ships and quarantine anchorage.

- 1) 40° 46' 24" N – 029° 41' 00" E
- 2) 40° 45' 09" N – 029° 41' 00" E
- 3) 40° 44' 54" N – 029° 43' 00" E
- 4) 40° 46' 18" N – 029° 43' 00" E

c) Hereke anchorage area: The anchorage area for vessels not carrying hazardous materials is the sea area formed by the following coordinates.

- 1) 40° 46' 36" N – 029° 38' 09" E
- 2) 40° 45' 24" N – 029° 38' 09" E
- 3) 40° 45' 12" N – 029° 40' 30" E
- 4) 40° 46' 27" N – 029° 40' 30" E

d) Eskihisar anchorage area: The anchorage area for vessels not carrying hazardous materials is the sea area between the line connecting the coordinates below and the coastline north of this line. Anchoring is not permitted within 2.5 dominoes of the shore in this area.

- 1) 40° 45' 12" N – 029° 23' 27" E (Darıca Burnu)
- 2) 40° 46' 00" N – 029° 30' 57" E (Kaba Burnu)

|                                                                                   |                                                             |                 |            |
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#### 14- Emergency response equipment against marine pollution in the port facility

|                           | Ekipman/Malzeme Çeşiti (1)           | Özellikleri                                                                                                                                                                                                                                                             | Onaylı Acil Müdahale Planında Seviye 1 için belirlenen miktar | Tesiste mevcut olup kendi öz malı olan kısım | Tesiste mevcut olup Acil Müdahale Firmasına ait olan kısım | Tesiste yer alan ekipmanın bulunduğu konum                         | Ekipmanın ortak kullanıldığı tesis var mı (2) |
|---------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------|
| BARİYER                   |                                      |                                                                                                                                                                                                                                                                         |                                                               |                                              |                                                            |                                                                    |                                               |
| 1                         | Silindirik Kesit Köpük Dolgu (Solid) | fribord: 45 cm, draft: 65 cm., TPU malzemeden imal, güneş ışınlarına ve tuzlu suya dayanıklı, alev geciktirici özellikte kumaş, astm-z tip bağlantı bacağı. Her bir ünite 25 m. Çekme kuvveti 47.000 N, Kaldırma Kuvveti/Ağırlık Oranı: 12/1. SEAGULL marka.            | 750 m                                                         | 0                                            | 300                                                        | Firmanın DP World Limanındaki deposu                               | DP World Yarımca Limanı, 500 m                |
| 2                         | Çit Tipi                             | fribord: 40 cm, draft: 70 cm., PVC çift dokuma malzemeden imal, güneş ışınlarına ve tuzlu suya dayanıklı, alev geciktirici özellikte kumaş, astm-z tip bağlantı bacağı. Her bir ünite 25 m. Çekme kuvveti 25.000 N, Kaldırma Kuvveti/Ağırlık Oranı: 6/1. SEAGULL marka. |                                                               | 0                                            | 450 m                                                      | Tesisin boru hattı kara bağlantı istasyonu, 4 adet tambur üzerinde | yok                                           |
| EMİCİ MALZEME (SORBENT)   |                                      |                                                                                                                                                                                                                                                                         |                                                               |                                              |                                                            |                                                                    |                                               |
| 1                         | Sorbent Bariyer                      | Çap: 20 cm, Boy:3 m. Ucundaki kancalarla birbirine eklenebilir, hidrofobik, oleofilik. Ağırlığının en az 10 katı emiş kapasitesi, tam doyduğunda bile batmaz. %100 polipropilen malzemeden imal, SEAGULL Marka.                                                         | 80 adet (150 m)                                               | 0                                            | 150 m                                                      | Tesisin boru hattı kara bağlantı istasyonu                         | yok                                           |
| 2                         | Sorbent Pad                          | 40 cmx 50 cm ebatlarında. Hidrofobik, oleofilik, %100 polipropilen malzemeden imal, SEAGULL Marka.                                                                                                                                                                      | 1000 adet                                                     | 0                                            | 1000 adet                                                  | Tesisin boru hattı kara bağlantı istasyonu                         | yok                                           |
| YAĞ SU SIYIRICI (SKİMMER) |                                      |                                                                                                                                                                                                                                                                         |                                                               |                                              |                                                            |                                                                    |                                               |
| 1                         | Disk/Fırça Tip Skimmer               | Kanalı Drum Tip. Dizel Hidrolik, power pack, pompa ve hortum ünitesi bulunan. ELASTEC marka.                                                                                                                                                                            | 1 adet (13 m3/h)                                              | 0                                            | 1 adet (36 m3/h)                                           | Firmanın sultangazi-İstanbul Ana deposunda                         | firmanın bölgedeki anlaşmalı diğer tesisleri  |
| TAZYİKLİ YIKAMA MAKİNESİ  |                                      |                                                                                                                                                                                                                                                                         |                                                               |                                              |                                                            |                                                                    |                                               |
| 1                         | Su jeti                              | 180-200 psi                                                                                                                                                                                                                                                             | 2 adet                                                        | 0                                            | 2 adet (220 bar, sıcak soğuk yıkama)                       | Firmanın sultangazi-İstanbul Ana deposunda                         | firmanın bölgedeki anlaşmalı diğer tesisleri  |

#### 15- Personal protective equipment (PPE) usage map

The use of PPE is mandatory in the entire port area. Antistatic shoes, hard hat, goggles and fireproof overalls are mandatory.

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#### 16- Dangerous Goods incidents notification form

##### Dangerous Goods Incidents Notification Form

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                     |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------|--|
| Issue number- Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                     |  |
| Company / Institution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                     |  |
| Sender                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | CONTACT INFORMATION |  |
| as required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     |  |
| PORT FACILITY<br>"DANGEROUS GOODS EVENT NOTIFICATION"<br>DATE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                     |  |
| 1. When the accident occurred,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                     |  |
| 2. If the accident is known, how it occurred and the reason,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                     |  |
| 3. The place where the accident occurred (coastal facility and/or ship), its position and area of influence, ç) Information (name, flag, IMO number, owner, operator, cargo, if any) of the ship involved in the accident.<br>and amount, captain's name and similar information),                                                                                                                                                                                                                                                                                   |  |                     |  |
| 4. Meteorological conditions,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                     |  |
| 5. UN number of the dangerous substance, proper transport name (based on the legislation specified in the definition of dangerous substance) and amount,<br>Hazard class of the dangerous substance or sub-hazard division, if any,<br>Packing group of the dangerous substance, if any,<br>Additional risks of the dangerous substance, such as marine pollutants, if any,<br>Sign and label details of the dangerous substance,<br>The characteristics and number of the package, cargo transport unit and tanker in which the dangerous substance is transported, |  |                     |  |

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|                                                                                       |
|---------------------------------------------------------------------------------------|
| Manufacturer, sender, carrier and receiver of dangerous goods                         |
| 6. The extent of the damage/pollution,,                                               |
| 7. Number of dead and injured in the accident (if any),                               |
| 8. How the accident was intervened,                                                   |
| 9. From which organizations help is requested,                                        |
| 10. Other ships or neighboring facilities that may be affected by the accident,       |
| <p>FORM PREPARED BY:</p> <p>Name and surname :</p> <p>Mission:</p> <p>Signature :</p> |

17- Control results notification form for dangerous cargo transport units (CTUs)

N/A

18- Other required annexes