



ElectroGas Malta Project

Internal Emergency Plan – Emergency Drills

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ElectroGas Malta Limited

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1 INTRODUCTION

1.1 Objective

This document provides information on drills/exercises at the FSU, the Delimara LNG Regasification Terminal (Regasification Compound and Jetty) and the Delimara 4 Power Plant (CCGT).

1.2 Reference Documents

The reference documents are tabulated below:

| Reference | Designation | Issued by | Date |
|---------------------------|--------------------------------|-------------|------------|
| OPS-MALT-ALM-HSE-PLN-0003 | Emergency Response Plan Manual | Bumi Armada | 10/04/2015 |

Table 1: Reference Documents

1.3 Abbreviation List

| | |
|-------|-----------------------------|
| BOG | Boil-Off Gas |
| CCGT | Combined Cycle Gas Turbine |
| CPD | Civil Protection Department |
| FSU | Floating Storage Unit |
| LNG | Liquefied Natural Gas |
| NG | Natural Gas |
| [TBC] | To Be Completed |

2 TRAINING REQUIREMENTS

2.1 Emergency Response Plan Training

All employees will be trained on the Internal Emergency Plan and will attend refresher training on a regular basis (at least once every year).

All off-site Emergency Services will be invited to attend the Internal Emergency Plan training and refresher training courses. It is the responsibility of the LNG Terminal and CCGT to issue training schedules to the off-site Emergency Services.

2.2 Medical Training

All employees will be trained and qualified in cardiopulmonary resuscitation and First Aid.

2.3 Fire Fighting Training

Employees assigned to operations and maintenance groups and volunteers will be trained for dealing with incipient fires and also fires involving natural gas vapours and will receive refresher training on a regular basis (at least once every year).

2.4 Civil Protection Department

Civil Protection Department (CPD) is the primary local fire/rescue organizations serving the LNG Terminal and CCGT. They will be invited on-site for Terminal familiarization training that will include:

- Terminal layout;
- Terminal firefighting equipment and firefighting equipment locations; and
- Locations of major sources of potential fires and LNG fire fighting training.

They will also be asked to participate in routine emergency exercises.

It is also anticipated that the CPD will attend specialized fire training that will focus on LNG and natural gas.

3 PERIODIC DRILLS

Emergency response drills will be held to:

- Maintain proficiency in the Internal Emergency Plan;
- Integrate new equipment, practices, or procedures into the emergency response effort;
- Familiarize new employees and new members of off-site emergency organizations with their Emergency Response Plan duties; and
- Correct any deficiencies or weaknesses noted in Emergency Exercises.

The drills will include as many of the emergency response activities as practical. The type of drill may vary. The Terminal Managers are responsible for developing the schedule of drills with the off-site emergency services.

3.1 Emergency Drills Schedule

3.1.1 FSU

The emergency drills schedule at the FSU is as follows:

| Location | Year | Compiled by (name and signature) |
|---|----------|----------------------------------|
| <input type="checkbox"/> Floating Storage Unit <input type="checkbox"/> Jetty <input type="checkbox"/> Regasification <input type="checkbox"/> Delimara 4 Power Plant <input type="checkbox"/> Enemalta | | |
| | Revision | Reviewed by (name and signature) |
| | | |

| # | Drill | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|----|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | [TBC] | | | | | | | | | | | | |
| 2 | Abandon Facility Drill | | | | | | | | | | | | |
| 3 | Offloading Tanker Incident | | | | | | | | | | | | |
| 4 | LNG Spill on Deck | | | | | | | | | | | | |
| 5 | LNG Spill into Sea | | | | | | | | | | | | |
| 6 | Accommodation incident | | | | | | | | | | | | |
| 7 | Cargo tank / pump room incident | | | | | | | | | | | | |
| 8 | Man Over Board | | | | | | | | | | | | |
| 9 | Machinery Space Incident | | | | | | | | | | | | |
| 10 | First Aid Injury | | | | | | | | | | | | |
| 11 | Collision Incident | | | | | | | | | | | | |
| 12 | Confined Space Incident | | | | | | | | | | | | |
| 13 | Security Incident | | | | | | | | | | | | |
| 14 | Engine Room Incident | | | | | | | | | | | | |
| 15 | Main Deck Incident | | | | | | | | | | | | |
| 16 | Fire extinguisher use | | | | | | | | | | | | |
| 17 | Breathing Apparatus use | | | | | | | | | | | | |
| 18 | [TBC] | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | |

Table 2: Emergency Drills Schedule at the FSU

3.1.2 Delimara LNG Regasification Terminal and Power Plant

The emergency drills schedule at the Delimara LNG Regasification Terminal and Power Plant is as follows:

| Location | Year | Compiled by (name and signature) |
|---|----------|----------------------------------|
| <input type="checkbox"/> Floating Storage Unit <input type="checkbox"/> Jetty <input type="checkbox"/> Regasification <input type="checkbox"/> Delimara 4 Power Plant <input type="checkbox"/> Enemalta | | |
| | Revision | Reviewed by (name and signature) |
| | | |

| # | Drill | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|----|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | [TBC] | | | | | | | | | | | | |
| 2 | LNG Spill | | | | | | | | | | | | |
| 3 | BOG Release | | | | | | | | | | | | |
| 4 | NG Release | | | | | | | | | | | | |
| 5 | Fire | | | | | | | | | | | | |
| 6 | Explosion | | | | | | | | | | | | |
| 7 | Security Incident | | | | | | | | | | | | |
| 8 | First Aid Injury | | | | | | | | | | | | |
| 9 | Fire extinguisher use | | | | | | | | | | | | |
| 10 | Breathing Apparatus use | | | | | | | | | | | | |
| 11 | Enemalta Incident | | | | | | | | | | | | |
| 12 | [TBC] | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | |

Table 3: Emergency Drills Schedule at the Delimara LNG Regasification Terminal and Power Plant

3.2 Emergency Drills Description

3.2.1 FSU

The emergency drills description at the FSU is as follows:

| # | Drill | Description |
|----|-------|-------------|
| 1 | [TBC] | [TBC] |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |
| 11 | | |
| 12 | | |
| 13 | | |
| 14 | | |
| 15 | | |
| 16 | | |
| 17 | | |
| 18 | | |
| 19 | | |
| 20 | | |

Table 4: Emergency Drills Description at the FSU


3.2.2 Delimara LNG Regasification Terminal and Power Plant

The emergency drills description at the Delimara LNG Regasification Terminal and Power Plant is as follows:

| # | Drill | Description |
|----|-------|-------------|
| 1 | [TBC] | [TBC] |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |
| 11 | | |
| 12 | | |
| 13 | | |
| 14 | | |
| 15 | | |
| 16 | | |
| 17 | | |
| 18 | | |
| 19 | | |
| 20 | | |

Table 5: Emergency Drills Description at the Delimara LNG Regasification Terminal and Power Plant

APPENDIX 1: EMERGENCY DRILL REPORT

| EMERGENCY DRILL REPORT | | | |  | | | |
|--|----------|------------------------------|------------|---|----------|-----------|--|
| Facility involved: | | | | | | | |
| Title of drill/exercise: | | | | | | | |
| Date & time of drill/exercise: | | | | | | Drill N°: | |
| PART A: DESCRIPTION OF DRILL / EXERCISE | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Was a debriefing held? | | Yes <input type="checkbox"/> | | No <input type="checkbox"/> | | | |
| If YES, provide a brief description: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Describe any corrective actions, non-conformances, problems encountered or improvements needed for drill/exercise: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Names of participating personnel (the following personnel contributed to this drill/exercise): | | | | | | | |
| Name | Company | Position | Name | Company | Position | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| PART B: CORRECTIVE ACTION STATUS LOG | | | | | | | |
| Corrective action required: | | | Action by: | | Date: | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| ACKNOWLEDGMENT | | | | | | | |
| Name | Position | Signature | | Date | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |