

Mindre propanutsläpp vid ett stöldförsök på en depå.

881021 MARS 1988_04

Efter normal arbetstid sökte ett antal personer stjäla LPG från en obevakad lastbrygga. Då de skulle tappa propan släpptes en mindre mängd propan uppskattad till 17 liter. När gasläckan upptäcktes undersöktes hela installationen för att identifiera läckan. Gasen skingrades utan att antändas. Det framgår inte om tjuvarna ifråga fångades.

Inblandade ämnen och mängder

	CAS Nr.	Mängd
propan	74-98-6	10 kg

Skador:

Människor:	Inga.
Materiella:	Inga.
Miljö/ekologi:	Inga effekter rapporterade.
Infrastruktur:	Inga.

Erfarenheter redovisade (Ja/Nej): Ja

Mycket kortfattat anges förebyggande åtgärder.

Report Profile

Identification of Report:

country: FA ident key: 1988_004_01

reported under Seveso I directive as major accident reports: SHORT+FULL

Date of Major Occurrence: Time of Major Occurrence

start: 1988-10-21 start:

finish: finish:

Establishment:

name:

address:

industry: 2008 wholesale and retail storage and distribution (incl. LPG bottling & bulk

distrib., more: F1!)

Flammable Gases Storage (Loading/Unloading Facilities for Trucks)

Seveso II status: not applicable: Yes art. 6 (notification): No

art. 7 (MAPP): No

art. 9 (safety report): No

Date of Report:

short: full:

Authority Reporting:

name:

address:

Authority Contact:

rep_cont_name:

rep_cont_phone:

rep_cont_fax:

Additional Comments:

a) - not applicable -

b) - not applicable -

c) - not applicable -

d) - not applicable -

e) - not applicable -

Short Report

country: FA ident key: 1988_004_01

Accident Types:

release: Yes explosion: No

water contamination: No other: No

fire: No

description:

ACCIDENT CASE HISTORY DESCRIPTION:... see Appendix Short Report / description of accident types

Substance(s) Directly Involved:

toxic: No explosive: Yes

ecotoxic: No other: No

flammable: Yes

description:

- Propane (C.A.S. CODE: 74-98-6): amount involved = about 10 kg (the exact amount of liquid propane released during the accident has not been estimated but, in any case, it should have been less than 17 litres).

Immediate Sources of Accident:

storage: Yes transfer: Yes

process: No other: No

description:

The accident occurred in a storage area for flammable gases. The component involved was a hand valve on the loading line of an unattended propane trucks loading facility not in operation.

Suspected Causes:

plant or equipment: No environmental: Yes

human: Yes other: No

description:

INITIATING EVENT AND CONSEQUENCES:... see Appendix Short Report / description of suspected causes

Immediate Effects:

material loss: No

human deaths: No

human injuries: No community disruption: No

other: Yes

ecological harm: No

national heritage loss: No

description:

OTHER:

No material losses occurred except the escaped liquid propane (negligible amount).

Emergency Measures taken:

on-site systems: Yes **decontamination:** No

external services: Yes **restoration:** No

sheltering: No **other:** No

evacuation: No

description:

INTERNAL TO THE ESTABLISHMENT:... see Appendix Short Report / description of emergency measures taken

Immediate Lessons Learned:

prevention: Yes **other:** No

mitigation: No

description:

MEASURES TO PREVENT ANY RECURRENCE OF SIMILAR ACCIDENTS:... see Appendix Short Report / description of

immediate lessons learned

A Occurrence Full Report

country: FA **ident key:** 1988_004_01

1 Type of Accident

remarks: After the normal working time, unauthorized persons attempted to steal LPG

in an unattended propane truck loading facility. A blind flange was removed

and a hand valve opened on the loading line, resulting in a leakage of

several litres of ... see Appendix Full Report A / type of accident

2 Dangerous Substances

remarks: The total establishment and the potential directly involved inventories of

propane refer to the amount released during the accident. The exact amount

of liquid propane released during the accident has not been estimated but,

in any case, it... see Appendix Full Report A / dangerous substances

3 Source of Accident

illustration: - not applicable -

remarks: The accident occurred in a storage area (code 2008) for flammable gases. The

components involved was a hand valve on the loading line (code 4010) of an

unattended propane trucks loading facility not in operation (code 3304).

4 Meteorological Conditions

precipitation none: fog: rain: hail: snow:

No No No No No

wind speed (m/s):

direction (from):

stability (Pasquill):

ambient temperature (°C):

remarks: - not applicable -

5 Causes of Major Occurrence

main causes

technical / physical 5206 environment: establishment safeguarding/security deficiency

- not applicable -

- not applicable -

- not applicable -

- not applicable -

human / organizational 5404 person: malicious intervention

- not applicable -

- not applicable -

- not applicable -

- not applicable -

remarks: As the safeguard of the installation when it was not in operation was inadequate (code

5206) after the normal working time, unauthorized persons (code 5404) attempted to steal

LPG in an unattended propane truck loading facility resulting in... see Appendix Full

Report A / causes of major occurrence

6 Discussion about the Occurrence

- not applicable -

Type of Accident country: FA ident key: 1988_004_01

event:

major occurrence 1102 release: fluid release to ground

initiating event 1102 release: fluid release to ground

associated event - not applicable -

event:

major occurrence 1101 release: gas/vapour/mist/etc release to air

initiating event 1101 release: gas/vapour/mist/etc release to air

associated event - not applicable -

Dangerous substances

country: FA ident key: 1988_004_01

a) total establishment inventory

CAS number: 74-98-6 **identity:** Propane

name from Seveso I Directive: - not applicable -

name from Seveso II Directive: - not applicable -

category from Seveso II: - not applicable -

other hazards (1): - not applicable -

other hazards (2): - not applicable -

maximum quantity (tonnes): 0,01

use of substance as: NORMAL FINISHED PRODUCT

b) substance belongs to relevant inventory directly involved: Yes

actual quantity: 0,01 **potential quantity:** 0,01

c) substance belongs to relevant inventory indirectly involved: No

actual quantity: -1 **indir_pot_quant:** -1

Source of Accident - Situation **country:** FA **ident key:** 1988_004_01

situation

industry

initiating event 2008 wholesale and retail storage and distribution (incl. LPG bottling & bulk distrib., more: F1!)

associated event - not applicable -

activity/unit

major occurrence 3304 transfer: loading/unloading activities (transfer interfaces)

initiating event 3304 transfer: loading/unloading activities (transfer interfaces)

associated event - not applicable -

component

major occurrence 4010 valves/controls/monitoring devices/drain cocks

initiating event 4010 valves/controls/monitoring devices/drain cocks

associated event - not applicable -

B Consequences Full Report

country: FA **ident key:** 1988_004_01

1 Area concerned

affected

extent of effects installation: Yes

establishment: No

off-site; local: No

off-site; regional: No

off-site; transboundary: No

illustration of effects - not applicable -

remarks In the Original Report there is no evidence of significant effects outside the i... see Appendix

Full Report B / area concerned - remarks

2 People

establishment popul. emergency personnel off-site population

total at risk

immediate fatalities

subsequent fatalities

hospitalizing injuries

other serious injuries

health monitoring

remarks No people were injured during the accident.

3 Ecological Harm

pollution/contamination/damage of:

- **residential area (covered by toxic cloud)** Suspected

- **common wild flora/fauna (death or elimination)** Suspected

- **rare or protected flora/fauna (death or elimination)** Suspected

- **water catchment areas and supplies for consumption or recreation** Suspected

- **land (with known potential for long term ecological harm or** Suspected

preventing human access or activities)

- **marine or fresh water habitat** Suspected

- **areas of high conservation value or given special protection** Suspected

remarks In the Original Report there is no evidence of significant ecological harms.... see Appendix

Full Report B / ecological harm

4 National Heritage Loss

effects on:

- **historical sites** not applicable - **historic monuments** not applicable

- **historic buildings** not applicable - **art treasures** not applicable

remarks No data available.

5 Material Loss

establishment losses off site losses

costs (direct costs to operator) (social costs)

in ECU ECU

material losses

response, clean up, restoration

remarks No material losses occurred except the escaped liquid propane (negligible amount... see Appendix

Full Report B / material loss

6 Disruption of Community Life

establishment/plant evacuated disabled/unoccupiable destroyed

- **nearby residences/hotels** No No No

- **nearby factories/offices/small shops** No No No

- **schools, hospitals, institutions** No No No

- **other places of public assembly** No No No

interruption of utilities etc. no / yes duration

- gas No
- electricity No
- water No
- sewage treatment works No
- telecommunications No
- main roads No
- railways No
- waterways No
- air transport No

significant public concern none local level national level

- off site populations Yes No No
- media interest No No No
- political interest No No No

remarks In the Original Report there is no evidence of significant effects outside the i... see Appendix

7 Discussion of Consequences

C Response Full Report

country: FA ident key: 1988_004_01

1 Emergency Measures

taken - on site - not applicable - - not applicable -

- not applicable - - not applicable -

- not applicable - - not applicable -

- off site - not applicable - - not applicable -

- not applicable - - not applicable -

- not applicable - - not applicable -

still - on site - not applicable - - not applicable -

required

- not applicable - - not applicable -

- not applicable - - not applicable -

- off site - not applicable - - not applicable -

- not applicable - - not applicable -

- not applicable - - not applicable -

continuing contamination or danger

-on site not applicable

-off site not applicable

remarks - not applicable -

2 Seveso II Duties

pre-accident evaluation

Article item not due yet not done done/submitted evaluated

6 notification No No No No

7 policy (MAPP) No No No No

9 safety report No No No No

9, 10, 11 update No No No No

11 internal plan No No No No

11 external plan No No No No

13 informing public No No No No

9, 12 siting policy No No No No

post-accident evaluation

Seveso II duty was actual were actual compared with actual

contingency consequences consequences, the

addressed? addressed? predicted extent was?

Article item

7 policy (MAPP) not applicable not applicable not applicable

9 current safety report not applicable not applicable not applicable

11 internal plan not applicable not applicable not applicable

11 external plan not applicable not applicable not applicable

13 informing public not applicable not applicable not applicable

9, 12 siting policy not applicable not applicable not applicable

evaluation of safety organisation

organisational element element existed did element relate to actual circumstances of

yes / no no / partly / yes adequate?

- written policy objectives No

- specified management No

structure

- specified responsibilities No

- specified working procedures No

- specified procedures for No

assessment/auditing of

management system

- specified procedures for No

review and update of

management policy

- specified general training No

procedures

- specified emergency No

training procedures

evaluation of ecological impact control

organisational element element existed did element relate to actual circumstances of

yes / no no / partly / yes adequate?

- ecological status review No

before incident

- potential ecological No

consequences assessment

- ecological impact review No

after incident

- ecological restoration No

procedures

- subsequent review of No

restoration success

remarks - not applicable -

3 Official Action Taken

legal action

- not applicable -

other official action

- not applicable -

4 Lessons Learned

measures to prevent recurrence

After the accident, the follow... see Appendix Full Report C / lesson learned - prevent

measures to mitigate consequences:

- not applicable -

useful references:

- not applicable -

5 Discussion about Response

- not applicable -

Appendices for the FA / 1988_004_01 report

Appendix Short Report / description of accident types:

ACCIDENT CASE HISTORY DESCRIPTION:

After the normal working time, unauthorized persons attempted to steal LPG in an unattended propane truck loading facility. A blind flange was removed and a hand valve opened on the loading line, resulting in a leakage of several litres of liquid propane (the exact amount of liquid propane released during the accident has not been estimated but, in any case, it should have been less than 17 litres). When the gas leakage was detected, the whole installation was checked to identify the possible leakage sources and the gas concentration was measured within the installation. The gas cloud dispersed safely without igniting. The loading line was emptied.

Appendix Short Report / description of suspected causes:

INITIATING EVENT AND CONSEQUENCES:

An attempt to steal liquid propane from an unattended trucks loading facility was carried out, resulting in the release of several litres of LPG.

CAUSES:

The safeguard of the installation was inadequate when it was not in operation .

Appendix Short Report / description of emergency measures taken:

INTERNAL TO THE ESTABLISHMENT:

When the gas leakage was detected, the whole installation was checked to identify the possible leakage sources and the gas concentration was measured within the installation. The loading line was emptied. The loading facilities were inspected by a competent inspector.

Appendix Short Report / description of immediate lessons learned:

MEASURES TO PREVENT ANY RECURRENCE OF SIMILAR ACCIDENTS:

After the accident, the following measures were established:

- 1- a stable mechanical locking device for the hand valve to be installed;
- 2- temporarily, an electronic safeguard system to be installed;
- 3- a permanent safeguarding system on a 24 hours basis to be introduced covering the whole installation.

Appendix Full Report A / type of accident:

After the normal working time, unauthorized persons attempted to steal LPG in an unattended propane truck loading facility. A blind flange was removed and a hand valve opened on the loading line, resulting in a leakage of several litres of liquid propane (codes 1101 and 1102). The gas cloud dispersed safely without igniting.

Appendix Full Report A / dangerous substances:

The total establishment and the potential directly involved inventories of propane refer to the amount released during the accident. The exact amount of liquid propane released during the accident has not been estimated but, in any case, it should have been less than 17 litres.

Appendix Full Report A / causes of major occurrence:

As the safeguard of the installation when it was not in operation was inadequate (code 5206) after the normal working time, unauthorized persons (code 5404) attempted to steal LPG in an unattended propane truck loading facility resulting in the release of several litres of liquid propane.

Appendix Full Report B / area concerned - remarks:

In the Original Report there is no evidence of significant effects outside the installation.

Appendix Full Report B / ecological harm:

In the Original Report there is no evidence of significant ecological harms.

Appendix Full Report B / material loss:

No material losses occurred except the escaped liquid propane (negligible amount).

Appendix Full Report B / disruption of community life:

In the Original Report there is no evidence of significant effects outside the installation.

Appendix Full Report C / lesson learned - prevent:

After the accident, the following measures were established:

- 1- a stable mechanical locking device for the hand valve to be installed;
- 2- temporarily, an electronic safeguard system to be installed;
- 3- a permanent safeguarding system on a 24 hours basis to be introduced covering the whole installation.