

Oljeutsläpp vid lossning av ett fartyg vid ett oljeraffinaderi.

890911 MARS 1989_18

Vid lossning av en fartygstank i hårt väder brast en slang och ungefär 500 kg råolja spilldes ut i vattnet. Trots försök att begränsa oljeutsläppet med flytande barriärer blev det marina livet allvarligt skadat inom en radie av flera km.

Inblandade ämnen och mängder

	CAS Nr.	Mängd
råolja		500 kg

Skador:

Människor:	Inga.
Materiella:	Inga.
Miljö/ekologi:	Trots försök att begränsa oljeutsläppet med flytande barriärer blev det marina livet allvarligt skadat inom en radie av flera km.
Infrastruktur:	Inga.

Erfarenheter redovisade (Ja/Nej): Nej

Report Profile

Identification of Report:

country: FA ident key: 1989_018_01

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

Date of Major Occurrence: Time of Major Occurrence

start: 1989-09-11 start:

finish: finish:

Establishment:

name:

address:

industry: - not applicable -

Petroleum Refinery

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: 1989_018_01

Accident Types:

release: Yes explosion: No

water contamination: Yes other: No

fire: No

description:

ENVIRONMENTAL AND ATMOSPHERIC CONDITIONS:... see Appendix Short Report / description of accident types

Substance(s) Directly Involved:

toxic: No explosive: Yes

ecotoxic: Yes other: No

flammable: Yes

description:

- Crude Oil: amount involved = 500 kg.

Immediate Sources of Accident:

storage: No transfer: Yes

process: Yes other: No

description:

The accident occurred during the unloading of crude oil from a ship-tank in a petroleum refinery. The component involved was the flexible piping of ship unloading facilities.

Suspected Causes:

plant or equipment: Yes environmental: Yes

human: No other: No

description:

CAUSES:... see Appendix Short Report / description of suspected causes

Immediate Effects:

material loss: No

human deaths: No

human injuries: No community disruption: No

other: No

ecological harm: Yes

national heritage loss: No

description:

ECOLOGICAL HARM:... see Appendix Short Report / description of immediate effects

Emergency Measures taken:

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

external services: No **restoration:** No

sheltering: No **other:** No

evacuation: No

description:

EXTERNAL TO THE ESTABLISHMENT:

Attempts to contain the spillage of crude oil by means of floating barriers were carried out.

Immediate Lessons Learned:

prevention: No **other:** No

mitigation: No

description:

A Occurrence Full Report

country: FA **ident key:** 1989_018_01

1 Type of Accident

remarks: During the unloading of a ship-tank, about 500 Kg of crude oil were released onto the sea (code 1103) due to the rupture of a flexible piping. The released crude oil caused a severe marine pollution within a radius of several km.

2 Dangerous Substances

remarks: The total establishment and the potential directly involved inventories of crude oil refer to the amount released onto the sea.

3 Source of Accident

illustration: - not applicable -

remarks: - not applicable -

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: When the accident occurred, there were bad weather conditions, with rough sea and extreme wind conditions.

5 Causes of Major Occurrence

main causes

technical / physical 5102 operation: component/machinery failure/malfunction

5201 environment: natural event (weather, temperature, earthquake, etc.)

- not applicable -

- not applicable -

- not applicable -

human / organizational - not applicable -

- not applicable -

- not applicable -

- not applicable -

- not applicable -

remarks: The accident occurred due to the rupture of the flexible piping (code 5102), probably due

to the bad weather conditions of the sea (rough sea and extreme wind intensity [code

5201]), used to unload the crude oil from the ship-tank.

6 Discussion about the Occurrence

- not applicable -

Type of Accident country: FA ident key: 1989_018_01

event:

major occurrence 1103 release: fluid release to water

initiating event 1103 release: fluid release to water

associated event - not applicable -

Dangerous substances

country: FA ident key: 1989_018_01

a) total establishment inventory

CAS number: identity: Crude Oil

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): 0,5

use of substance as: STARTING MATERIAL

b) substance belongs to relevant inventory directly involved: Yes

actual quantity: 0,5 **potential quantity:** 0,5

c) substance belongs to relevant inventory indirectly involved: No

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

B Consequences Full Report

country: FA ident key: 1989_018_01

1 Area concerned

affected

extent of effects installation: Yes

establishment: Yes

off-site; local: Yes

off-site; regional: not applicable

off-site; transboundary: not applicable

illustration of effects - not applicable -

remarks Despite of the attempts to contain the spillage of crude oil by means of floatin... 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 by the accident.

3 Ecological Harm

pollution/contamination/damage of:

- residential area (covered by toxic cloud) Suspected

- common wild flora/fauna (death or elimination) not applicable

- rare or protected flora/fauna (death or elimination) not applicable

- water catchment areas and supplies for consumption or recreation not applicable

- land (with known potential for long term ecological harm or not applicable

preventing human access or activities)

- marine or fresh water habitat not applicable

- areas of high conservation value or given special protection not applicable

remarks Despite of the attempts to contain the spillage of crude oil by means of floatin... 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 crude oil released onto the sea during th... 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 No No Yes

- media interest No No No

- political interest No No No

remarks - not applicable -

7 Discussion of Consequences

Ecological Components involved

country: FA ident key: 1989_018_01

type: 6403 offshore: sea/seabed

threatened: not applicable affected: not applicable

C Response Full Report

country: FA ident key: 1989_018_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

- not applicable -

measures to mitigate consequences:

- not applicable -

useful references:

- not applicable -

5 Discussion about Response

- not applicable -

Appendices for the FA / 1989_018_01 report

Appendix Short Report / description of accident types:

ENVIRONMENTAL AND ATMOSPHERIC CONDITIONS:

Rough sea and extreme wind conditions.

During the unloading of a ship-tank, about 500 Kg of crude oil were released onto the sea due to the rupture of a flexible piping. The released crude oil caused a severe marine pollution within a radius of several km.

Appendix Short Report / description of suspected causes:

CAUSES:

The accident occurred due to the rupture of the flexible piping, probably due to the bad weather conditions of the sea (extreme wind intensity), used to unload the crude oil from the ship-tank.

Appendix Short Report / description of immediate effects:

ECOLOGICAL HARM:

Despite of the attempts to contain the spillage of crude oil by means of floating barriers, a severe marine pollution within a radius of several km occurred.

Appendix Full Report B / area concerned - remarks:

Despite of the attempts to contain the spillage of crude oil by means of floating barriers, a severe marine pollution within a radius of several km occurred.

Appendix Full Report B / ecological harm:

Despite of the attempts to contain the spillage of crude oil by means of floating barriers, a severe marine pollution within a radius of several km occurred.

Appendix Full Report B / material loss:

No material losses occurred except the crude oil released onto the sea during the accident.