



PETROLEUMSTILSYNET

Eni Norge AS
Postboks 101 Forus

4064 Stavanger

Vår saksbehandler
Arnt-Heikki Steinbakk

Deres ref.

Vår ref. (bes oppgitt ved svar)
Ptil 2016/784/AHS

Dato

Dear Sirs

Report of the investigation of the incident with a serious personal injury on the Goliat FPSO on 25 June 2016 and notice of an order

The Petroleum Safety Authority Norway (PSA) has conducted an investigation from 25 June 2016 to 5 January 2017 into the incident with a serious personal injury which occurred on the Goliat FPSO on 25 June 2016.

A deck operator on the Goliat facility was seriously injured at about 10.55 on that day. He was hit on the head by wire rope being reeled in using a work winch in the D-10 area. The accident occurred while the area was being cleared after offloading crude oil the day before.

The PSA's investigation concludes that the socket termination on the wire rope got caught in the guide roller in front of the winch, which caused it to come under considerable strain. Findings at the site and witness statements indicate that the cast socket came free and that the rope struck the deck operator on the head.

Several regulatory breaches have been identified, including a lack of or inadequate barriers which could otherwise have prevented the serious incident. A number of underlying technical, organisational and operational causes have thereby contributed to allowing this accident to happen.

The investigation has found deficiencies in governing documents, inadequate management of risk and competence, and a lack of clarity in roles and responsibilities. Examples include design faults and deficiencies in the winch and guide roller, a lack of risk assessment for the work operation, insufficient competence and inadequate training in using the equipment. In addition, user manuals were missing and no conformity measurements had been made of the equipment being used.

The PSA's report is attached. Nonconformities have been identified in the following areas, see chapter 9:

- follow-up of technical conditions
- identification of operational risk

- governing documents
- work processes
- worker participation
- commissioning work before start-up and operation
- material handling plan
- roles and responsibilities
- competence.

In addition, the investigation has identified improvement points related to

- marking and signage
- evacuation routes.

On the basis of the nonconformities described in chapter 9.1 in the report, the PSA hereby gives notice of the following order:

Pursuant to section 69 of the framework regulations on administrative decisions, see sections 17 of the framework regulations on the duty to establish, follow up and further develop a management system, and 6, 8, 15 and 22 of the management regulations on the management of health, safety and the environment, internal requirements, information and handling of nonconformities respectively, Eni Norge AS is ordered to:

- 1. systematically identify and review all lifting equipment and winches used for material handling on board and assess measures for further use or possibly ceasing to use this equipment*
- 2. present a binding and timetabled plan with a deadline for implementing measures based on findings from the review*
- 3. present a plan for permanent resolution of design deficiencies in the loading hose with regard to twisting, and describe risk-reducing measures until a permanent solution is in place.*

The deadline for complying with this order is 13 February 2017. We must be notified when the order has been complied with.

Possible comments on the notice must reach us by 13 January 2017. We also request that Eni presents a status report by that date on measures in the action plan for following up the earlier order of February 2016, presented to the PSA in a meeting of 29 September 2016.

The report describes identified nonconformities, including the ones which form the basis for the notice of an order, and we request an explanation of how these nonconformities will be dealt with. The report also contains observations on conditions with a potential for improvement, and we request your assessment of these.

We would ask for a response to the report within six weeks of the date of this letter. We also request that this letter and report are made known to union officials, including the safety delegates.

The report will be published on our website.

Yours faithfully

Erik Hørnlund, by authority
supervision coordinator

Arnt-Heikki Steinbakk
principal engineer

This letter has been approved electronically in the PSA and accordingly bears no signatures

Attachments: 2