



Ove Tjelta
Alustar A/S
Stavanger
Norway

Deres dato
14.10.2008

Deres referanse
Ove Tjelta

Vår dato
16.10.2008

Vår referanse
afgreig

Use and storage of aluminium scaffolding offshore

In our telephone conversation 14.10.2008 you asked for information related to how long aluminium scaffolding is stored on our platforms on the Ekofisk field in the Norwegian north sea before being sent to land.

We have no limits as to how long aluminium scaffolding can be stored offshore before it is sent to land. We have in fact several tons (probably several hundred tons) of aluminium scaffolding that has not been on land for the last 8 years. We have of course continual quality control of all aluminium scaffolding used offshore.

We have a total of approximately 400 tons of aluminium scaffolding on our platforms (we stopped using steel scaffolding 10 – 15 years ago).

Best Regards,
for ConocoPhillips Norway

Andrew Greig
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ConocoPhillips

Alustar A/S
PB 118
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Att: Martin Husebø/Svenning Pedersen

Your date

Your reference

Our date
02.07.2007

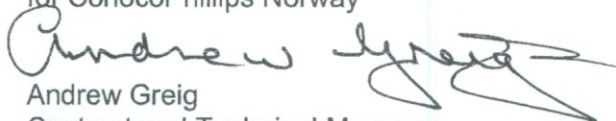
Our reference
Andrew Greig

With reference to our conversations last month concerning the use of aluminium scaffolding on ConocoPhillips Norway's offshore installations, I have listed my comments and opinions as bullet-points in this letter.

- We started using aluminium scaffolding on our offshore installations in Norway in 1995. We have a total of 31 platforms in the Norwegian North Sea, 19 of which are still producing oil and gas.
- We have since 1999 required in our contracts that all scaffolding to be used on our installations shall be made of aluminium and that steel scaffolding must not be used. We have an average of 400 tons of scaffolding offshore at any given time.
- The main reason for our requiring the use of aluminium scaffolding is the vast improvement in the scaffolder's health and safety situation thanks to the massive weight difference between steel and aluminium, but also to the cost savings in connection with the building and dismantling of the different types.
- The safety aspect related to thermite sparking was discussed and resolved in the late 80's, since the risk that this could happen is microscopic. This has not been a topic for discussion these last 15-20 years.
- To my knowledge aluminium scaffolding is now used all platforms in the Norwegian sector of the North Sea.

Should anyone wish to discuss this issue with me, please ask them to contact me as follows:
Tel: 004752021587 / 004747674511 / e-mail: andrew.greig@conocophillips.com

for ConocoPhillips Norway



Andrew Greig
Contract and Technical Manager
(Scaffolding/Painting/Insulation/Rope Access)

TOTAL E&P NORGE AS

To whom it may concern

Your date:

Your ref.:

Our ref. (please quote):

GDOC
#882750

Our date:

Stavanger
20 June 2007

USE OF ALUMINIUM SCAFFOLDING

This is to confirm that Total E&P Norge have used aluminium scaffolding on all gas and oil installations in the Norwegian sector of the North Sea. Since the change from steel to Alustar scaffolding in 1995 on the Frigg and Frøy installations, we have had reduction in accidents and sick leave within the scaffolding trade. The aluminium scaffolding has been used for plant maintenance and modifications, as well as during removal projects. As a fact the use of steel scaffolding is reduced to zero, with a few exceptions for permanent "work platforms".

At the time of change to aluminium, sparks were a concern for a gas plant in operation. However, this has proven to be without problems and incidents have not been experienced.

Total E&P Norge recommends aluminium scaffolding due to safety and work environment improvements, as well as cost efficiency.

Yours faithfully,
TOTAL E&P NORGE AS

Åge E. Pedersen
Engineering & Construction Manager

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Att: Martin Husebø

Deres dato
N/A

Deres referanse
N/A

Vår dato
31.10.2000

Vår referanse
N/A

ALUMINIUM SCAFFOLDING ON THE EKOFISK FIELD

During the 1990's Phillips Petroleum Company Norway (PPCoN) made the decision to introduce the use of aluminium scaffolding on the Ekofisk field, the primary reasons behind this initiative being:

- Health safety and environmental: Since aluminium is only 50% of the weight of equivalent steel-system scaffolding we expected that the number of accidents and incidents attributable to lifting and carrying activities would be considerably reduced.
- Productivity and efficiency: We expected higher productivity and increased efficiency as a direct consequence of the weight reduction, since each scaffolder would be able to transport considerably larger amounts of equipment. In addition the direct and indirect costs of accidents and incidents related to manual handling and lifting injuries was expected to result in lower costs.
- Morale and attitude of the workforce: We felt that the morale and attitude of the workforce would be affected in a positive manner by introducing the lower-weight aluminium system.

We were aware of the theoretical risks associated with the use of aluminium in the offshore environment with particular regard to the so called "thermite sparking" phenomenon, but a combination of earlier research carried out by Det Norske Veritas and Norsk Hydro and our own internal analysis of possible risks convinced us that the theoretical risks were extremely low, and certainly not enough to stop us from proceeding.

It has been our experience to date that the basis for our decision to use aluminium scaffolding on the Ekofisk field was correct, and there have been no accidents or incidents which have given us reason to reconsider our decision. In our present scaffolding contracts it is a requirement that all scaffolding to be used on the field shall be made of aluminium.

Yours Sincerely,

Andrew Greig, Onshore Maintenance Supervisor, scaffolding

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KVÆRNER**AMEC****Ekofisk II 2/4J Hook Up & Commissioning Group**

NSL
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4050 Sola

For the attention of Mr Martin Husebø.

Your Ref.:

Our Ref.:

Date:

22 October 1998

EKOFISK II 2/4J HOOK-UP & COMMISSIONING PROJECT

Subject: Scaffolding Services

Dear Martin

Following the demobilisation of the offshore project team it is perhaps appropriate to express our appreciation of the excellent level of service which NSL has afforded to the Ekofisk 2/4J Hook-Up and Commissioning project throughout this past two years.

You may be aware that with the achievement of our ultimate and critical milestone of COF7 some days ahead of the schedule date of 18 July 1998 set by PPCoN over four years ago, responsibility for the Ekofisk 2/4J platform has transferred to PPCoN's Operations Group. As is the nature of major offshore projects of this type we have had to deal with a number of daunting technical and operational challenges on the way to our ultimate achievement. Each of these was successfully overcome and I would say that the outcome is recognised by all of the principal parties as being highly successful. I trust NSL is pleased to have played a part in this success.

Of special mention is the positive outcome from our early decision to utilise an aluminium access system rather than conventional steel scaffolding. From our extensive use of aluminium system the following significant benefits are clearly evident:-

- more rapid erection and dismantling;
- much easier handling with consequent reduction in injury potential to the operatives, and;
- greater flexibility.

As a project, we are convinced that this was the correct decision, and one which contributed significantly to the excellent safety result which was achieved.

Finally, we would also take this opportunity to recognise the open, uncomplicated manner with which NSL, as the Scaffolding Subcontractor, has conducted its business dealings toward Kvaerner Oil and Gas Services and PPCoN.

Yours sincerely,

Robert V Tait
Kvaerner-AMEC Contractor's Representative

Svein Terje Øye
PPCoN Company's Representative

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