

**EXAMPLE LEVEL 1 ISSUE NOTE**

COIN CASE NUMBER: 1234567

Issue Note Title : **Edzell riser risk assessment**

Issue Note Reference Number 1

Safety Case Title : **Lunan Alpha Reg.14(2) riser modifications**From: **John Smith**      To: **Peter Brown, Northern Business  
Manager, Angus Oil****Michael Jones, SH&E Manager Angus Oil****1 Nature of Issue**

a) relevant legal requirements:

**Offshore Installations (Safety Case) Regulations 2005:****Regulation 12(1)(d), in particular demonstrating evaluation of all major accident risks and the taking of measures to reduce risks so as to ensure compliance with the relevant statutory provisions, in this case the Health and Safety at Work, etc. Act 1974 and PFEER.****Schedule 2 paragraph 12, in particular the description of the measures and arrangements to protect persons from fire, heat, smoke, etc.**

b) relevant part(s) of guidance document L30, where appropriate:

**Paragraphs 176-184 re management of health and safety.**

c) topic involved (for example a specific factual description, major accident hazard, risk analysis technique or aspect of the management system):

**The hazards associated with a gas release from the riser connected to the Edzell reservoir.**

d) nature and extent of deficiency (taking account of information already in the safety case):

**The case describes modifications to the installation to allow Edzell reservoir fluids to be processed in separation train A, including connection of an existing riser to a new subsea gas flowline from Edzell. The riser passes within 5m of the underside of the temporary refuge. The ESDV is located directly under the TR, which has passive fire protection on its underside and shielding to protect the lifeboats from riser fires.**

The case describes the quantified risk assessment carried out for the modifications, which indicates that the risk to the TR is significantly increased. However there is no information to show that alternatives, which might reduce the risk, have been considered or to demonstrate that such alternatives are not reasonably practicable. The revised risk figure for the TR is high and hence greater rigour is required in the supporting arguments to demonstrate that it is not reasonably practicable to reduce it further.

**Possible examples of means to reduce risk are:**

- 1) installation of a new riser further away from the TR instead of using the existing riser,**
- 2) relocation of the ESDV on the existing riser to reduce the effect of flange fires on the TR,**
- 3) installation of a subsea isolation valve on the Edzell flowline to limit gas releases on Lunan,**
- 4) relocation of one or more lifeboats further away from the Edzell ESDV.**

**Therefore the case does not contain sufficient particulars to demonstrate that appropriate measures have been taken to ensure compliance with the relevant statutory provisions, and in particular the Offshore Installations (Prevention of Fire and Explosion, and Emergency Response) Regulations 1995, regulations 5 and 9.**

**2 Action Required:**

a) nature of the response required:

**A demonstration by reference to alternative means of risk reduction that measures have been taken to ensure compliance with the relevant statutory provisions regarding a gas release from the Edzell riser.**

b) extent of the response required:

**The existing demonstration should be extended to identify and assess possible alternatives to the current Edzell riser configuration, aimed at reducing risks to persons from a gas release. It should show that the costs of such alternatives are in gross disproportion to the risk reduction achieved**

**Additional guidance on TR functions and endurance criteria is in "Assessment principles for offshore safety cases" (APOSC).**

**3 Response required by:**

**14 December 2006**

**4 Issued to addressee on:**

**30 November 2006**

Approved by Case Manager:	<b>Stephen Castle</b>	Date:	<b>30 November 2006</b>
---------------------------	-----------------------	-------	-------------------------