



## CERTIFICATE OF APPROVAL

This is to certify that the following products have been approved by Fearnley Procter FZE and an NS-1™ Technical Review Committee.

**Date of Approval:** 1/9/2011

**Cert/NS-1™ Approval Number:** 0049-2/11-2

**Valid Until:** 31/8/2012

**Review Number:** FPFZE 440

**Reviewed Against:** General Requirements of Fearnley Procter NS-1™ Quality and Inspection Requirements for New and Refurbished Drilling and Well Completion Equipment, Edition 2 – January 2006

03.60.00.1110 Revision Date: November 2004, Drill Stem Substitutes, Low Alloy Steel, Non-Sour Service.

03.38.85.1110 Revision Date: November 2004, Downhole Adjustable Stabilisers, Low Alloy Steel, Non-Sour Service.

03.65.00.3110 Revision Date: November 2004, Non-Magnetic Drill Collars/Drill Collar Pup Joints and Subs, High Alloy Steel, Non-Sour Service.

03.38.82.1110 Revision Date: November 2004, Integral Blade Stabilisers and Replaceable Blade Stabilisers

**Candidate:** **SMART DRILLING GmbH.** Eurovia, Gewerbepark, Middelicher Strasse 305, 45892 Gelsenkirchen, Germany

**Product:** **ZBE SCOUT 3000 Rotary Steerable Drilling System**

### FEARNLEY PROCTER NS-1™ LEVEL 2 PRODUCT APPROVAL

#### Scope:

A Level 2 Design Review was performed on ZBE Scout 3000 Rotary Steerable Drilling System against the requirement of Fearnley Procter NS-1™ Quality and Inspection Requirements for New and Refurbished Drilling and Well Completion Equipment, Edition 2 – January 2006 and that the product was designed with consideration to catastrophic failure avoidance. Evaluations are conducted based on failure modes more commonly observed when equipment is used for purposes for which they were designed.

Any changes/revisions to the essential design stated in the supplied drawings by Smart Drilling and documented in FPUK Job Report 2755 & FP FZE Report 440 will render the product "unapproved" subject to FP FZE review of the changes.

#### Approved By:

A handwritten signature in black ink, appearing to read 'Kevin Fearnley', is written over a dotted line.

**Kevin Fearnley**  
(Chairman NS-1™ Technical Review Committee)

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