

Fearnley Procter



DESIGN APPROVAL

DP-Master Manufacturing (S) PTE LTD.

300 Tampines Avenue 5, 07-03 Tampines Junction, Singapore 529653

This is to certify that the following design has been reviewed and approved by Fearnley Procter Group and a NS-1™ Technical Review Committee.

Qualification is in conformance with the requirements of:

Fearnley Procter NS-1™ Edition 3 Quality and Inspection Requirements for New and Refurbished Drilling and Well Completion Equipment Standards.

SCOPE:

Specification

NS.03.30.00.1110

Connection

DPM-DS55 Double Shouldered Rotary Drilling Connection

Scope Content:

A Level 3 Design and Performance Review was performed on DP-Master Manufacturing (S) PTE LTD. DPM-DS55 Double Shouldered Rotary Drilling Connection, for use on Drill Pipe only.

The Level 3 review incorporated compatibility tests (make and break) with NKK 5 ½ DSTJ along with FEA review and witness of connection make and break. A combination of both DSTJ pin and box and DS55 pin and box combinations were included in the make and break review. A final 'Technical Review Committee' was convened to review the Fearnley Procter report.

Any changes/revisions to the essential design stated in the supplied drawings by DP-Master Manufacturing (S) PTE LTD. and documented in FP FZE 1003 will render the product "unapproved" subject to Fearnley Procter review of the changes.

Issued By

A handwritten signature in black ink, appearing to read 'Kevin Fearnley', is written over a light green background.

Kevin Fearnley

Chairman NS-1™ Technical Review Committee

Review No : FP FZE 1003

Certificate No : 0097/13-3

Approval Date : 26th June, 2013

Valid Till : 25th June, 2015

Registered Since : 26th June, 2012

To maintain validity during the said period the above named Company must fully comply with the current requirements of **Fearnley Procter NS-1™ Edition 3** Quality and Inspection Requirements for New and Refurbished Drilling and Well Completion Equipment latest revisions.

Certificates can be verified at Fearnley Procter Website www.fearnleyproctergroup.com