



REVIEW NO > 2019-009  
CERTIFICATE NO > 0086/19-2  
APPROVAL DATE > 16<sup>th</sup> March 2019  
EXPIRY DATE > 15<sup>th</sup> March 2021  
REGISTERED SINCE > 16<sup>th</sup> March 2012

**PROCESS  
APPROVAL  
2019**

## Postle Industries, Inc.

5500 WEST 164TH STREET, CLEVELAND, OH 44142, USA.

**The above Company has demonstrated through Procedure Qualification Records that their Welding Procedure Specifications, for the welding process and scope of applications below, are capable of providing the required properties specified by the Company.**

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.**

#### SPECIFICATIONS

- > NS.03.30.00.1110 (Drill Pipe with Welded Tool Joints)
- > NS.03.30.80.1110 (Heavy Weight Drill Pipe with Welded Tool Joints)
- > NS.03.30.80.1120 (Non-welded Heavy Weight Drill Pipe)

#### SERVICE/PROCESS

- > Re-application of Tuffband® NC Hardbanding over Hardbanding Products:  
1) Smooth X®, 2) Tuffband® NC

**SCOPE:** The evaluation of the application procedures for Tuffband® NC on drill pipe tool joints for the re-application over the above stated Hardbanding products has been performed in compliance with the general requirements and recommendations as stipulated in NS-1™ Supplementary Requirements, NS.03.30.00.1110 (Rev. 10) Section 5.0, and Sub-specification 90.1, 90.3 and 160.

The following date was supplied, and tests performed by Postle Industries, Inc. for Fearnley Procter under this approval: 1) Micro Hardness Test across weld metal, HAZ plus base metal) 2) Hardbanding Adhesion Test Results 3) Welding Procedures/Guidelines 4) Inspection Guidelines 5) Acceptance/ Rejection Criteria.



**Fearnley Procter Group**  
Non-productive-time Solutions

Issued By  
**Kevin Fearnley**  
Chairman NS-1™ Technical Review Committee

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

**REFERENCE DOCUMENTS:** Postle Industries, Inc. Hardbanding Procedure Manual Version 2.0, July 7, 2011 (Initial Approval) and Version 2.6, 1<sup>st</sup> August 2018 (Re-approval).

**EXCLUSIONS:** Hardbanding on the Centre Wear Pad of Heavy Weight Drill Pipe.

This certificate relates solely to the Procedure Qualification Record of the Organisation identified above and should not be interpreted as implying that all or any other applicators of this product are competent to do so. Organisations applying the above Hardbanding are required to qualify their own Welding Procedure Specification by means of a Procedure Qualification Record and maintain Welder Performance Qualification in accordance with Fearnley Procter NS-1™ Edition 3 requirements.

To maintain validity during the said period the above named Company must maintain a valid subscription to and comply with the Fearnley Procter NS-1™ Quality and Inspection Requirements for New and Refurbished Drilling and Well Completion Equipment.  
Certificates and Levels of Approval can be verified at [www.fearnleyprocter.com](http://www.fearnleyprocter.com)