



**CMF SPA (432160)**  
**VIA VINO DELLA PACE**  
**36, CORMONS, 34071**  
**ITALY**

**Reference:** KS/NV T1450363  
**Project Number:** 3637321  
**Certificate Number:** OMC-1450363

**ATTN: Mr. Luca Signor**

**Initial Forging Facility and Process Approval**  
**ABS Approval of *CMF SPA, Cormons, Italy* to manufacture & supply Forgings to**  
**Offshore Mooring Accessory Manufacturer *First Subsea Ltd., Lancaster, UK***

We have the ABS plant survey report 3011155 dated 12 November 2015 along with your submittals for your facility with enclosure relative to the subject. With regard thereto we advise CMF SPA, Cormons, Italy is considered approved to manufacture forgings for First Subsea Ltd., Lancaster, UK to the requirements of *ABS Guide for Offshore Mooring Chain (2009)* and *ABS Materials & Welding Rules Part 2 (2015)* as outlined herein, provided the Rules are adhered to in all respects and all production, testing and inspection are to the satisfaction of the attending ABS Surveyor.

|                                |   |
|--------------------------------|---|
| <b>Product</b>                 | <b>: Mooring Chain Accessories – Connectors (Male and Female)</b> |
| <b>Grade</b>                   | <b>: ABS – R4</b>   |
| <b>Maximum Diameter</b>        | <b>: 562 mm</b>   |
| <b>Heat treatment facility</b> | <b>: In-House</b>   |
| <b>Delivery Condition</b>      | <b>: Quench &amp; Tempered</b>                                    |
| <b>Steel Manufacturer</b>      | <b>: Acciaieria Fonderia Cividale S.p.A.</b>                      |
| <b>Ingot Diameter</b>          | <b>: 930 mm</b>   |
| <b>Marking</b>                 | <b>: AB/R4</b>  |

Repair by welding of forged or rolled offshore mooring Accessory is not permitted.

The manufacturer and QA approval is valid for five years subject to quarterly audits and will expire on 11 November 2020. Please note it is the responsibility of the facility to inform ABS of any changes to the manufacturing parameters and request quarterly audits, renewal of approval prior to the five year expiry date. Our invoice to cover the costs of the technical review is subject to a separate correspondence



A copy of the documentation appropriately stamped to indicate our review is being retained. If you need to contact ABS regarding this review please email Kin-Ling Sham at [ksham@eagle.org](mailto:ksham@eagle.org) or Nikos Vrellos at [nvrellos@eagle.org](mailto:nvrellos@eagle.org).

Very truly yours

Dimitrios G. Kostaras  
Vice President of Engineering  
ABS Europe Ltd.

A handwritten signature in black ink, appearing to read 'Nikos Vrellos', is written over a horizontal line.

Nikos Vrellos  
Principal Engineer, Materials  
London Offshore Engineering Department

CC: ABS Milano  
EC: ABS Houston Materials Dept.



Drawing List

|   |                               |   |
|---|-------------------------------|---|
| <b>Engineering Office:</b>                    | London Engineering Department |   |
| <b>Submitter:</b>                             | CMF SPA (432160)              |   |
| <b>Drawing No</b>                             | <b>Revision No</b>            | <b>Drawing Title</b>  |
| 4330V HTSS Report                             | 3                             | Heat Treatment Sensitivity Study<br>Results of Tests          |
| TR2435355                                     | 0                             | ABS Grade R4 562mm Accessories<br>Qualification               |
| Approval Procedure for Forgings<br>(Combined) | -                             | Qualification Process Specification                           |
| Approval Testing of Accessory<br>(Combined)   | -                             | Approval Testing  |
| 6385  | -                             | Furnace Calibration Report                                    |
| Quality Assurance Manual                      | 5                             | Quality Management Manual                                     |
| ABS-R4-QT-Acc-562mm                           | 1                             | ABS Grade R4 562mm Accessories<br>Qualification               |
| 14/BO/MR/0098-SNT                             | -                             | BV DI FANT-DT-SNT   |
| 14/BO/MR/0608R                                | -                             | BV DI FANT-PT-ISO   |
| 14/BO/MR/0609R                                | -                             | BV DI FANT-UT-ISO   |
| 14/BO/MR/0100-SNT                             | -                             | BV DI FANT-UT-SNT   |
| PO-8.2-11                                     | 3                             | Ultrasonic Examination of Forged and<br>Preforged Steel Parts |
| PO-8.2-15                                     | 2                             | Penetrant Testing on Forged and<br>Preforged Steel Parts      |
| TESSERINO 2019-2020                           | -                             | TESSERINO 2019-2020   |
| Correspondence                                | -                             | ABS London Plan Approval Request<br>Form                      |
| MC QAPPA CMF SPA TR3011155                    | -                             | Plant Survey MC   |
| OMC QAPA CMF SPA TR3011155                    | -                             | Plant Survey OMC  |