# Quality Management System Approval (ApBo)

**Identification Number: 2673/4/CH/2024/INF/EN/771621-1823/V01**

In accordance with the Railways (Interoperability) Regulations 2011 (as amended by S.I. 2013/3023, 2019/345, 2019/1310, 2020/318 & 2020/786).

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| **Object of Assessment** | Rail Interoperability Constituent<br>Rail steel grades HP335, R260 and R260Mn: Profiles 39E1 (R260 only), 54E1, 54E4, 56E1, 60E1 and 60E2 |
| **Applicant / Manufacturer** | British Steel , Scunthorpe Rail and Section Mill, Brigg Road, Scunthorpe, North Lincolnshire, DN16 1XA |
| **Manufacturing Locations** | Scunthorpe Rail and Section Mill, Brigg Road, Scunthorpe, North Lincolnshire, DN16 1XA |
| **Assessment Requirements** | INF-NTSN: 1 January 2021<br>In combination with the Harmonised Standards, Voluntary Standards (or parts thereof) and Alternative Solutions as identified in the Accompanying Documentation. |
| **Exemptions from Assessment** | EN 13674-1:2011+A1:2017 does not specify the requirements for the HP335 grade of rail steel (although the standard is expected to include this grade in the next version). Therefore, rail steel grade HP335 has been assessed against the minimum requirements defined in the INF NTSN point 5.3.1.2 (hardness at least 200 HBW, tensile strength at least 680 MPa, and minimum number of cycles at fatigue test without failure at least 5 × 106). Note that some of these minimum requirements are significantly below the expected performance of HP335. These requirements are assessed according to the methodologies prescribed in the INF NTSN point 6.1.5.1 [EN 13674-1:2011 paragraph 9.1.8 (for hardness), paragraph 9.1.9 (for tensile strength), and paragraphs 8.1 & 8.4 (for fatigue tests)]. The Quality Management System assessment included the production process for HP335. |
| **Module Applied** | CH as defined in the relevant legislation. |
| **Assessment / Audit Result** | The Quality Management system of the aforementioned Manufacturer (including any stated locations) has been audited and was shown to comply with the Assessment Requirements, subject to any Conditions and Limits of use as listed below. The Assessment Results are provided in detail within the Accompanying Documentation. The Essential Requirements have been assessed as being met through compliance with the requirements of the relevant NTSN only. |
| **Conditions and Limits of Use** | None |
| **Annex of QMS Approval** | See Attached. |
| **Accompanying Documentation** | Audit Report 771621-1690 Rail Constituent QMS Surveillance Audit_ApBo 01<br>771621-1773 ApBo File INF<br>This documentation is an integral part of this QMS Approval. |
| **Validity** | **Start** : 29/05/2024 **End** : 28/06/2026<br>The validity of this QMS Approval is subject to maintenance of the Quality Management System in accordance with the requirements of the above Regulations. This QMS Approval is valid as long as compliance of the Quality Management System certification requirements is maintained. If certification requirements are affected then Ricardo must be informed. Within the validity duration of this QMS Approval the Applicant can perform production/installation and final product/installation inspection of the Object of Assessment. This validity duration may be extended on the basis of future auditing. |
| **Date of Issue** | 21/06/2024 |

**Signature:**

**Schoonakker, Piet**
***Decision Maker***
***On behalf of Ricardo Certification Ltd (2673)***
***Shoreham Technical Centre, Shoreham-by-Sea, West Sussex, BN43 5FG, UNITED KINGDOM***
***e-sig: 771621-1824(02)***

# Annex of Quality Management System Approval (ApBo)

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**Change History**

| Issue | Date | Compiled By | Reason for This Issue |
|---|---|---|---|
| 01 | 24-06-2024 | Dodsworth, Mark | Initial |