



Qualité Endeavour

Quarterly Newsletter from Équipe Qualité Consultants, Issue No. 24, 1st January 2018

About EQC India

Équipe Qualité Consultants (EQC India) comprises of a team of quality professionals engaged in providing quality management and welding services for the infrastructure sector and manufacturing units.

EQC's areas of Operation of are:

- Supplier assessment, audits and development
➤ Review and approval of Quality Plans and Field Quality Plans
➤ Field Quality Audits
➤ Consultancy for PED certification/ CE Marking
➤ Welding Qualifications as per ASME and EN/ISO
➤ ISO: 9001-2015, ISO: 14001-2015 implementation
➤ Quality Improvement Studies
➤ Documentation & Implementation of ISO: 3834 Series for Quality requirements for fusion welding of metallic materials EN: 15085-2/ BS EN 1090
➤ Responsible Welding Coordinator (RWC Services)
➤ Technical Support and Training on Codes and standards on Steels including Chinese, Russian, Indian, EN and ASME codes.
➤ Technical Support, Consultancy & Training on Welding Technology, NDT, Industrial Painting, Dynamic Balancing & Engineering Materials.

EQC India was started in 2009 to provide value added to Industry.



Inspiring Quality Since 2009

New Year Greetings from Équipe Qualité Consultants.



EQC India has completed eight (8) years of its journey last month and thanks all its clients & well wishers for their support and encouragement during this journey



In the present issue of Qualité Endeavour, we cover briefly the requirements of EN 15085, for Welding of Railway Vehicles and Components. Welding in the production of railway vehicles is an important process for the safety of public transport. EN 15085 establishes quality criteria to ensure that the basic welding technical requirements are met.

Happy Reading!

Please do send in your comments & suggestions for improvement of the newsletter.

Editor, 1st January 2018

NEW CLIENTS/ CONTRACTS/ PARTNERS DURING THE LAST QUARTER



GMR Bajoli Holi Hydropower Private Limited



Profound Corporate Training

Welding Fabrication Process for Railway Vehicle – EN 15085

In the field of the welding fabrication of railway vehicles, the standard EN 15085 without any doubt has a fundamental importance in the international scenario; it contains a significant amount of shared knowledge and it represents, therefore, the level of technology acquired in this field, nationally and internationally. This makes it an indispensable tool for operators, system integrators, suppliers and manufacturers of railway vehicles.



The standard is divided into 5 parts as follows:

Part 1: General

Part 2: Quality requirements and certification of the manufacturer

Part 3: Design requirements

Part 4: Requirements for construction

Part 5: Inspection, testing and documentation

The second part specifies the criteria for the definition of the minimum requirements which a Manufacturer that performs or subcontracts welding works, in new construction or maintenance, should refer to, in order to give evidence of his capability for operating in the field of rolling stock. The criteria that must be taken as a reference for the conformity assessment of the Company to the above requirements, by third parties recognized, if applicable, are specified as well.

Parts 3, 4 and 5 contain technical guidelines for the design, manufacture, inspection and testing of welded metal components of railway rolling stock.

Levels of Certification

Certification Level (CL)	Description
CL1	Welding manufacturers which manufacture welded parts with joints classified in weld performance classes CP A to CP D.
CL2	Welding manufacturers which manufacture welded parts with joints classified in weld performance CP C2 to CP D.
CL3	Welding manufacturers which manufacture welded parts with welded joints classified in weld performance class CP D
CL4	Manufactures who do not weld but design railway vehicles and parts of rail vehicles or buy and assemble or sell them.






What essential areas are covered during the audit?

The following areas are covered:

S No.	Audit Areas	S No	Audit Areas
1	Current product range, welding Processes deployed	15	Production planning
2	Parent material and thickness range	16	Welding Procedure Specifications
3	Maximum handling size and weight	17	Qualification of the welding procedure
4	Transportation limitations	18	Batch testing of consumables (if required)
5	Training facilities and schedule	19	Storage and handling of welding consumables
6	Review of requirements	20	Storage of parent materials
7	Technical review	21	PWHT
8	Sub-contracting	22	Inspection and testing before, during and after welding
9	Welders and welding operators	23	Non conformances and corrective actions
10	Welding coordination personnel	24	Calibration or validation of measure, inspection and testing equipment
11	Inspection and testing personnel	25	Identification during process
12	Production and testing equipment	26	Traceability
13	Equipment maintenance	27	Quality records
14	Description of equipment, forming, machining and cutting facilities	28	Internal Audit reports

EQC provides consultancy and training for implementation of EN 15085 at fabrication works. EQC's extensive experience in welding systems will lead to improvements in the fabrication process leading to increase in productivity and reduction of costs. EQC can also help improve quality of welded products to the level required to enter new markets.

STANDARDS/ MANAGEMENT SYSTEMS UPDATE

TITLE		Update
<p>ISO : 45001</p> <p>Occupational health and safety management systems -- Requirements with guidance for use</p>		<p>The international standard ISO 45001 has reached the Final Draft International Standard (FDIS) stage. Voting on ISO/FDIS 45001:2017 began on Nov. 11, 2017, and will end Jan. 25, 2018. The final publication of ISO 45001 is expected in March 2018. It will contain guidelines needed for an organization to adopt an occupational health and safety management system.</p>
<p>ASME BPVC Section IX Welding, Brazing, and Fusing Qualifications</p>		<p>ASME's Boiler and Pressure Vessel Code series has been revised in 2017. There are major changes in Section IX for Welding, Brazing, and Fusing Qualifications. The PQR format This facilitates the recording of data used for the calculation of heat input. Impact testing is now termed as Toughness test. Refer to the code for other changes</p>
<p>EN ISO 15614-1 Specification and qualification of welding procedures for metallic materials. Arc and gas welding of steels ...</p>		<p>Europe's most used standard for welding procedure qualifications (WPQ), EN ISO 15614-1 has been significantly amended as of the end of July 2017. The amendments are designed to harmonise the standard with the ASME Boiler and Pressure Vessel Code (BPVC) Section IX.</p>

Équipe Qualité Consultants also provides consultancy and customized training for QA, QC/ Inspection/ Welding/ Engineering / Power Professionals/ Fabricators in the following areas:

1. Welding Coordination Personnel	2. Welding Qualifications as per ASME IX
3. Welding Qualifications as per EN/ISO	4. Engineering Materials - Steels
5. Welding Certification as per ISO: 3834	6. Railway Certification as per EN: 15085-2
7. ISO:9001, ISO: 14001 & OHSAS 18001	8. Factory Production Control (FPC) for CE
9. QA/QC for Chinese Power Equipment	10. Industrial Painting Systems

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