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ADDENDUM 1

This addendum (Version 1.01) replaces Edition 1.0 published in August 2020.

NOTE: In addition to the updates listed below, minor editorial/typographical amendments may have been made.

List of updates

Section	Description
Annex B table, row "Welded components including"	Certificate type amended to 3.1 Traceability level amended to Level I
Annex B table, row "Lifting points"	Certificate type amended to 3.1 Traceability level amended to Level I

Quality Requirements for Subsea Pipeline Valves

Revision history

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Acknowledgements

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Foreword

This specification was prepared under Joint Industry Programme 33 (JIP33) "Standardization of Equipment Specifications for Procurement" organized by the International Oil & Gas Producers Association (IOGP) with the support from the World Economic Forum (WEF). Companies from the IOGP membership participated in developing this specification to leverage and improve industry level standardization globally in the oil and gas sector. The work has developed a minimized set of supplementary requirements for procurement, with life cycle cost in mind, resulting in a common and jointly agreed specification, building on recognized industry and international standards.

Recent trends in oil and gas projects have demonstrated substantial budget and schedule overruns. The Oil and Gas Community within the World Economic Forum (WEF) has implemented a Capital Project Complexity (CPC) initiative which seeks to drive a structural reduction in upstream project costs with a focus on industry-wide, non-competitive collaboration and standardization. The CPC vision is to standardize specifications for global procurement for equipment and packages. JIP33 provides the oil and gas sector with the opportunity to move from internally to externally focused standardization initiatives and provide step change benefits in the sector's capital projects performance.

This specification has been developed in consultation with a broad user and supplier base to realize benefits from standardization and achieve significant project and schedule cost reductions.

The JIP33 work groups performed their activities in accordance with IOGP's Competition Law Guidelines (November 2020).

Table of Contents

Foreword	1
Introduction	3
1 Scope	4
2 Normative References.....	4
3 Terms and Definitions	4
3.1 Conformity assessment.....	4
3.2 Conformity assessment system (CAS)	4
3.3 Conformity assessment - Hold point (H)	5
3.4 Conformity assessment - Witness point (W).....	5
3.5 Conformity assessment - Surveillance (S).....	5
3.6 Conformity assessment - Review (R)	5
4 Symbols and abbreviations	5
5 Quality requirements	5
5.1 Quality management system.....	5
5.2 Conformance assessment	5
6 Certification and traceability	6
7 Control of nonconforming products and services.....	6
8 Evidence (records)	6
Annex A (normative) Purchaser conformity assessment requirements	7
Annex B (normative) Material traceability and certification requirements	9

Introduction

The purpose of this quality requirements specification (QRS) is to define quality management requirements for the procurement of subsea pipeline valves in accordance with IOGP S-708 for application in the petroleum and natural gas industries.

The QRS includes definition of a conformity assessment system (CAS) which specifies standardized purchaser interventions against quality management activities at four different levels. The applicable CAS level is specified by the purchaser in the equipment data sheet or purchase order.

This QRS shall be used in conjunction with the supplementary requirements specification IOGP S-708, the information requirements specification IOGP S-708L and the equipment data sheet IOGP S-708D which together comprise the full set of specification documents. The introduction section in the supplementary requirements specification provides further information on the purpose of each of these documents and the order of precedence for their use.



**JIP33 Specification for Procurement Documents
Quality Requirements Specification**

1 Scope

To specify quality management requirements for the supply of subsea pipeline valves to IOGP S-708 Supplementary Specification to API Specification 6DSS Subsea Pipeline Valves including:

- a) manufacturer quality management system requirements;
- b) purchaser conformity assessment (surveillance and inspection) activities;
- c) traceability requirements;
- d) evidence of conformance;
- e) factory acceptance.

2 Normative References

For the purpose of this document, the documents referenced in IOGP S-708 and those listed below, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 9001, *Quality management systems - Requirements*

ISO 29001, *Petroleum, petrochemical and natural gas industries - Sector-specific quality management systems - Requirements for product and service supply organizations*

API Specification Q1, *Specification for Quality Management System Requirements for Manufacturing Organizations for the Petroleum and Natural Gas Industry*

API Specification 6DSS:2017, *Specification for Subsea Pipeline Valves including Addendum 1 (April 2019)*

IOGP S-708, *Supplementary Specification to API Specification 6DSS Subsea Pipeline Valves*

3 Terms and Definitions

For the purpose of this document, the terms and definitions given in IOGP S-708 and ISO 9000 (normative to ISO 9001) and the following shall apply.

3.1 Conformity assessment

Demonstration that requirements relating to a product, process, system, person or body are fulfilled.

NOTE 1 Conformity assessment (or assessment) includes but is not limited to review, inspection, verification and validation activities.

NOTE 2 Assessment activities may be undertaken at a manufacturer/sub-supplier's premises, virtually by video link, desktop sharing, etc. or by review of information formally submitted for acceptance or for information.

3.2 Conformity assessment system (CAS)

Systems providing different levels of assessment of the manufacturer's control activities by the purchaser (second party) or independent body (third party) based on evaluation of the manufacturer's capability to conform to the product or service specification and obligatory requirements.

NOTE CAS A reflects the highest risk and associated extent of verification. CAS D is the lowest.

3.3 Conformity assessment - Hold point (H)

Point in the chain of activities beyond which an activity shall not proceed without the approval of the purchaser or purchaser's representative.

3.4 Conformity assessment - Witness point (W)

Point in the chain of activities that the manufacturer shall notify the purchaser or purchaser's representative before proceeding. The operation or process may proceed without witness if the purchaser does not attend after the agreed notice period.

3.5 Conformity assessment - Surveillance (S)

Observation, monitoring or review by the purchaser or purchaser's representative of an activity, operation, process, product or associated information.

3.6 Conformity assessment - Review (R)

Review of the manufacturer's information to verify conformance to requirements.

NOTE Information review requirements are managed on a surveillance basis and as such do not impose schedule constraints, unless specified as hold points in Annex A or as conditions specified in the associated IRS.

4 Symbols and abbreviations

For purposes of this document, the following symbols and abbreviations apply:

CAS	conformity assessment system
IRS	information requirements specification
QRS	quality requirements specification (this document)

5 Quality requirements

5.1 Quality management system

The manufacturer shall demonstrate that the quality management arrangements established for the supply of products and services conform to ISO 9001, ISO 29001, API Specification Q1 or an equivalent quality management system standard.

5.2 Conformance assessment

5.2.1

Quality plans and inspection and test plans developed as outputs to operational planning and control shall define the specific controls to be implemented by the manufacturer to ensure conformance with the specified requirements.

5.2.2

Controls shall address both internally and externally sourced processes products and services.

5.2.3

Quality plans and inspection and test plans shall include provision for the purchaser conformity assessment system (CAS) as specified in the valve datasheet. See Annex A.

5.2.4

Manufacturer performance in meeting the requirements will be routinely assessed during execution of the scope and where appropriate, corrective action requested and conformity assessment activities increased or decreased consistent with criticality and risk.

NOTE 1 For industrial proven solutions CAS level D is specified unless risk assessment indicates that a more stringent CAS level is required.

NOTE 2 Irrespective of conformity assessment requirements defined by the purchaser, either, by reference to standard or specification requirements or in the scope, the manufacturer remains responsible for operational planning and control and demonstration of the conformity of products and services with the requirements. See ISO 9001, 8.1 and 8.2.

6 Certification and traceability

Material certification and traceability shall be maintained in accordance with Annex B.

7 Control of nonconforming products and services

Nonconformance with specified requirements identified by or to the manufacturer shall be corrected such that the specified requirements are satisfied or the purchaser's acceptance of the nonconformance agreed in accordance with purchase order conditions. See ISO 9001, 8.2.3, 8.2.4, 8.5.6 and 8.7.

8 Evidence (records)

Plans, procedures, methods and resultant records shall be provided in accordance with the associated IRS.

Annex A (normative)

Purchaser conformity assessment requirements

This annex defines four conformity assessment systems (CAS) or levels of purchaser assessment.

	PURCHASER ASSESSMENT ACTIVITIES	CAS			
		A	B	C	D
1	Operational planning and control activities				
1.1	Quality planning (ISO9001, 8.1 and ISO 10005, API Q1) (IOGP S-708,15.2, 8.1, A.1, A.3.1, A.3.2, A.3.3, A.3.4, A.3.5, A.4, A.5, Table 7)	H	H	-	-
1.2	Inspection and test planning (ISO 9001, 8.1) (IOGP S-708, 8.1, Table 7)	H	H	W	W
1.3	Pre-Inspection/pre-production planning & review against compliance with purchase order (IOGP S-708, 8.1 Table 7)	H	W	R	-
2	Design and development activities				
2.1	Review of design development against plan (IOGP S-708, 5.10, F.2.3, F.2.4, 14.1, A.6, F.11.2, F.2.2, Table 7, Table E.1)	H	H	-	-
2.1.1	Verification of design calculations and FEA (IOGP S-708, F.2.0)	H	W	R	R
2.2	Design validation (IOGP S-708 Annex F and G)				
2.2.1	Verification of existing validations including scaling (if applicable) (IOGP S-708, F.2.1, L.7)	H	H	H	H
2.2.2	Test setup to the test procedure verification (IOGP S-708, 5.29, 5.30, Annex F, Annex G)	H	W	S	S
2.2.3	Test execution (IOGP S-708, 5.29, 5.30, Annex F, Annex G, Annex L)	H	W	W	W
2.2.4	Post-test examination (IOGP S-708, F.17, G.2.2.2.8)	H	W	W	W
2.3	Manufacturing process qualification / re-qualification including				
2.3.1	Forging qualification low alloy steel (DNVGL-RP-0034) (IOGP S-708, 6.5, 6.7, 15.3, 8.3.6)	H	W	W	S
2.3.2	Forging qualification – Other (manufacturer approved documentation) (IOGP S-708, 6.5, 6.7, 15.3, 8.3.6)	H	W	W	S
2.3.3	Casting qualification (manufacturer approved documentation) (IOGP S-708, Table R.11)	H	W	W	S
2.3.4	Welding qualification including repairs (IOGP S-708, 15.3, 8.5)	H	W	R	R
2.3.5	Coating systems qualification (IOGP S-708, Section 11, 15.3)	W	R	R	-
2.3.6	Non-destructive testing process and personnel qualification (IOGP S-708, Annex K)	H	W	R	-
3	Control of external supply				
3.1	External supply scope, risk assessment and controls (ISO 9001, 8.4) (IOGP S-708, 6.8, Q.1, Table 7)	H	W	-	-

	PURCHASER ASSESSMENT ACTIVITIES	CAS			
		A	B	C	D
3.2	Nominated sub-suppliers list for accessories, pressure containing and pressure controlling parts (IOGP S-708, Table 7)	H	W	-	-
3.3	Manufacture of forged material (forging, heat treatment, sampling and mechanical testing) (IOGP S-708, 6.1, 6.2, 6.4, 6.5, 6.6, 6.7, 8.7, Figure J.1, Figure J.2, J.1, J.2.1, J.2.2, J.2.3, J.3, Table R.1)	H	W	S	-
3.4	Manufacture of castings (casting, heat treatment, sampling and mechanical testing) (IOGP S-708, 6.1, 6.2, 6.4, 6.5, 6.6, 6.7, 6.4, 8.7, Figure J.1, Figure J.2, J.1, J.2.1, J.2.2, J.2.3, J.3, Table R.1)	H	W	S	S
3.5	Weld repair on castings (IOGP S-708, 7.1, 7.6)	H	H	W	S
4	Manufacturing and inspection of components (pressure containing, pressure controlling components as defined in S-708 + seals)				
4.1	Input material identification, traceability and certification (IOGP S-708, 14.1 Table R.1)	W	S	-	-
4.2	Incoming materials visual and dimensional check of pressure containing and pressure controlling parts (IOGP S-708, 5.8.1.1, F.17, 5.8.1.1, 6.9, 8.3.2, 8.4.4, F.3.1, Annex K, Annex R)	W	W	-	-
4.3	NDE on rough machined pre-overlay surfaces (IOGP S-708, 7.6, Table R.1)	W	S	S	-
4.4	Welding and overlays (IOGP S-708, 5.10, 5.28, 6.12, 7.1, 7.6)	W	W	S	-
4.5	Hardfacing/PWHT/NDE (IOGP S-708, Annex K, 8.2, F.2.4, Table R.1)	W	S	S	-
4.6	Finished machine/dimensional/NDE operations (IOGP S-708, 8.2, 8.6, Annex K, F.17, 10.14, 14.1, 15.3, 8.4.4, F.3.1, Table R.1)	W	S	S	S
5	Assembly inspection, testing and painting				
5.1	Material traceability/PMI (IOGP S-708, 14.1)	W	S	-	-
5.2	Assembly (IOGP S-708, 10.1, Section 9, O.1, O.2.1, O.2.2, O.2.3, O.2.4)	W	W	S	-
5.3	Factory Acceptance Test				
5.3.1	Test setup to the test procedure verification (IOGP S-708, Section 10, Annex L, 5.10, 5.6.2, 5.7, 5.9, 8.3, 14.1, F.3.1, Table 5, Table 9)	W	S	-	-
5.3.2	Test execution including NDE for seal welding (per 10.13) if applicable (IOGP S-708, Section 10, Annex L, Annex K if applicable, 5.10, 5.6.2, 5.7, 5.9, 8.3.1, 8.3, 14.1, Table 5, Table 9)	H	W	W	W
5.4	Painting / coating application (IOGP S-708, Section 11, Annex N, 10.16, 14.2, 15.3)	W	W	S	-
6	Release of product or service (verify conformance to PO including as applicable)				
6.1	Final inspection, including visual, weight, removal of temporary lifting points, legible markings, dimensional, painting, preservation, packing, nameplates and labelling (IOGP S-708, Section 12, Section 13, 5.19, 14.1, 5.2, 8.8.1, 8.8.2, A.5, A.7, Figure 5, O.1, O.2.1, O.2.2, O.2.3, O.2.4, Table 6, Table 7)	H	W	W	W
6.2	Final documentation review; as per IRS (IOGP S-708, 14.2, 8.3.3.4)	H	W	W	W
6.3	Equipment release note (IOGP S-708, Section 13, Table 7)	H	W	W	W
H is hold point, W is witness point, S is surveillance and R is review. NOTE Definitions for these terms are provided in Section 3.					

Annex B (normative)

Material traceability and certification requirements

Item		Certificate Type	Traceability level	Additional Requirements
Valves	Metallic pressure containing parts	3.2	Level I	
	Metallic pressure controlling parts	3.2	Level I	
	Metallic non-pressure containing and non-pressure controlling parts	2.2	Level II	
	Non-metallic parts (pressure containing and controlling)	2.2	Level II	
	Other non-metallic parts	2.2	Level III	
Welded components including	Welds, repair welds, overlay welds	3.1	Level I	Weld maps to be retained to provide traceability of each weld to applicable WPS, PQR, certified welder qualification, consumables used and NDE
Lifting points	Lifting points	3.1	Level I	
<p>Explanatory notes</p> <p>Inspection certificates shall be provided in accordance with ISO 10474 or EN 10204.</p> <p>Traceability</p> <p>A. Level I - Full Traceability - Material is uniquely identified and its history tracked from manufacture through stockists (where applicable) to the manufacturer and to actual position on the equipment with specific location defined on a material placement record (the traceability to a specific location only applies to skids / packaged equipment, not to bulks).</p> <p>B. Level II - Type Traceability - The manufacturer maintains a system to identify material throughout manufacture, with traceability to a material certificate.</p> <p>C. Level III - Compliance Traceability - The manufacturer maintains a system of traceability that enables a declaration of compliance to be issued by the supplier.</p>				



International
Association
of Oil & Gas
Producers



IOGP Headquarters

Level 6, 3 Moorgate Place, London, EC2R 6EA, United Kingdom
T: +44 20 4570 6879
E: reception@iogp.org

IOGP Europe

T: +32 2 882 16 53
E: reception-europe@iogp.org

www.iogp.org