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# Quality Requirements for Diesel Generator Package

Public Review Draft



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## Acknowledgements

This IOGP Specification was prepared by a Joint Industry Programme 33 Standardization of Equipment Specifications for Procurement organized by IOGP with support by the World Economic Forum (WEF).

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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 2014).

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## Introduction

The purpose of this quality requirements specification (QRS) is to define quality management requirements for the procurement of diesel generator package in accordance with IOGP S-714 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 datasheet or purchase order.

This QRS shall be used in conjunction with the supplementary requirements specification IOGP S-714, the information requirements specification IOGP S-714L and the equipment data sheet IOGP S-714D 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 diesel generator package to IOGP S-714 including:

- a) supplier 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-714 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*

IOGP S-714, *Specification for Diesel Generator Package*

## 3 Terms and definitions

For the purpose of this document, the terms and definitions given in IOGP S-714 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 supplier/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 supplier's control activities by the customer (second party) or independent body (third party) based on evaluation of the supplier'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 supplier 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 supplier'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.

### **3.7 Critical**

That deemed by the organization, product specification, or purchaser as mandatory, indispensable or essential, needed for a stated purpose or task, and requiring specific action.

## **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 supplier 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 supplier 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 data sheet. See Annex A.

### 5.2.4

Supplier 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 supplier 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 supplier 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 (conformance 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 |
| <b>1</b> | <b>Planning and control activities</b>  |     |   |   |   |
| 1.1      | Quality planning (ISO 9001, 8.1 and ISO 10005)  | H   | R | R | R |
| 1.2      | Weld quality management (ISO 3834 or equivalent) 5.4.2.2.1.1 Table 1                                    | H   | H | W | R |
| 1.3      | Inspection and test planning (ISO 9001, 8.1 and ISO 10005)  | H   | H | H | H |
| 1.4      | Pre-inspection/pre-production planning (meetings)   | H   | W | W | W |
| <b>2</b> | <b>Design and development activities</b>  |     |   |   |   |
| 2.1      | Design and development  |     |   |   |   |
| 2.1.1    | Design verification review as required (ISO 9001, 8.3)  | R   | R | R | - |
| 2.2      | Welding process qualification (MPS)   |     |   |   |   |
| 2.2.1    | Review WPS (including any repairs) against WPQR(s) 5.4.2.2.2.1 5.4.2.2.2.2 5.4.2.2.2.3                  | H   | H | W | W |
| <b>3</b> | <b>Control of external supply</b>   |     |   |   |   |
| 3.1      | Review external supply scope, risk assessment and controls (ISO 9001, 8.4)                              | H   | R | R | R |
| 3.2      | Test laboratory accreditation (ISO 17025) 5.4.2.2.6   | R   | R | R | R |
| 3.3      | NDE quality management (ISO/IEC 17020) 5.4.2.2.7  | H   | H | W | R |
| 3.4      | Diesel engines  |     |   |   |   |
| 3.4.1    | Engine emission tests (ISO 8178) 6.2.3.2.1.3  | W   | R | R | R |
| 3.4.2    | Engine control panel functional test 4.1.1.3 5.7.2.1 5.7.2.2 5.7.7.2 5.8.1.2.1.3 6.2.3.4.1              | W   | R | R | R |
| 3.4.3    | Engine performance test (ISO 15550 / ASME PTC 17) 5.1.1 6.2.3.2.2.1 6.2.3.2.2.2                         | W   | R | R | R |
| 3.4.4    | Engine auxiliaries hydrostatic test 6.2.2.1 6.2.3.2.1.2   | W   | R | R | R |
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| 3.4.6    | Marking and certification verification (CE marking, UL/FM type tests, ATEX, etc.) 6.2.3.2.1.1           | W   | W | S | S |
| 3.5      | Low voltage motors  |     |   |   |   |
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| 3.5.2    | Marking and certification verification (CE marking, UL/FM type tests, ATEX, etc.) 5.7.5.1 5.7.5.2       | W   | W | S | S |
| 3.6      | Generator control panel   |     |   |   |   |
| 3.6.1    | Generator control panel communication tests 5.1.6.5 5.8.1.1.8 6.2.3.4.2                                 | W   | W | R | R |

|         |   |   |   |   |   |
|---------|---|---|---|---|---|
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|  |  |   |   |   |   |
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| 4.5.4  | Check paint system is in accordance with specification for equipment and enclosures 5.4.3.1 5.4.3.2 5.4.3.3 5.4.3.4  | W | W | R | R |
| 4.5.5  | Check overall dimensions and interface locations on engine, enclosure and generator skid. Check nameplates and tagging. 5.5.5.3.2 6.3.1.1 6.3.1.2 6.4.1.1 6.4.1.2 6.4.1.3 6.4.1.4 6.4.1.5 6.4.1.6  | H | W | R | R |
| 4.5.6  | Weighing of complete package in accordance with the approved weighing procedure. 6.4.2.1   | H | H | W | W |
| 4.5.7  | Check spare parts and special tools against respective lists. 6.4.3.2  | H | W | S | S |
| <b>5</b>   | <b>Release of product or service</b>   |   |   |   |   |
| 5.1  | Completeness against purchaser order and approved documentation, weight and certificate of conformity  | H | H | H | H |
| 5.2  | Check handling, packing, preservation, storage and loading against approved procedures. 6.4.4.1 6.4.4.2 6.4.4.3 6.4.5.1  | H | H | W | W |
| 5.3  | Check final documentation is in conformance with IOGP S-714L   | H | H | H | H |
| 5.4  | Release equipment  | H | H | H | H |
| H is hold point, W is witness point, S is surveillance and R is review.<br>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 |
|--|-----------------------------------|------------------|--------------------|-------------------------|
| Diesel generator package   | Metallic pressurized components   | 3.1              | Level II           |                         |
|  | Piping, tubing and valves         | 3.1              | Level II           |                         |
|  | Impact tested structural material | 3.1              | Level II           |                         |
|  | External weld attachments         | 3.1              | Level II           |                         |
|  | Acoustic enclosure                | 2.2              | Level II           |                         |
| <p><b>Explanatory notes</b></p> <p>Inspection Certificates shall be provided in accordance with ISO 10474 or EN 10204.</p> <p><b>Traceability</b></p> <p><b>A. Level I - Full Traceability</b> - Material is uniquely identified and its history tracked from manufacture through stockists (where applicable) to the supplier 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>B. Level II - Type Traceability</b> - The supplier maintains a system to identify material throughout manufacture, with traceability to a material certificate.</p> <p><b>C. Level III - Compliance Traceability</b> - The supplier maintains a system of traceability that enables a declaration of compliance to be issued by the supplier.</p> |                                   |                  |                    |                         |

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