

GENERAL SPECIFICATION

SUBSEA SYSTEMS

GS EP SPS 028

Obsolescence Management Plan for Subsea Production Control System

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1. Scope

This specification has been developed by joint effort between a number of major operators and Total in order to address the obsolescence issues of subsea equipment in a consistent manner. This specification is a supplement to [IEC 62402](#).

[IEC 62402](#) has two complimentary definitions of obsolescence:

- Transition from availability from the original manufacturer to unavailability
- Permanent transition from operability to non-functionality due to external reasons.

Obsolescence management is defined by [IEC 62402](#) as:

- Co-ordinated activities to direct and control an organization with respect to obsolescence.

The purpose of this document is to define the pro-active Obsolescence Management Process as it applies to subsea production control systems and detail minimum subsea equipment vendor requirements to manage the risks of obsolescence through activities associated with:

- Preventing
- Predicting
- Resolving.

The combination of these tasks will help reduce the risks, costs and impact to the business caused when components, tooling, suppliers, process and knowledge become obsolete through the continued management of the equipment Obsolescence Management Plan.

These requirements are applicable during the different phases of the complete product life cycle:

- Concept and definition
- Design and development
- Manufacturing
- Installation
- Operation and maintenance
- Long term support and sustainability throughout the project lifecycle
- Decommissioning
- Disposal.

In this document the word “component” is used to reference all elements of the Bill of Materials (BOM) such as electronic components, mechanical components, product, tooling, processes, software and firmware. The non-availability of any of these components can potentially have an impact on the sustainability of the equipment and financial implications to the Operators field operations.

Therefore subsea equipment vendor shall have pro-active Obsolescence Management as part of their internal processes and procedures.

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This revision of the specification is intended to cover the complete subsea production control system on new deliveries. As new deliveries may include existing design of equipment, special care must be taken to remediate any deviations from the early phases of the product life cycle. The scope of the specification includes, but is not limited to:

- Electrical and electronic assemblies
 - Subsea
 - Topside
 - Test equipment.
- Firmware and software (This includes all supplied software and firmware, both internally and externally developed firmware/software and associated development tools)
 - Subsea
 - Topside
 - Test equipment.
- Ensure in start of contract that obsolescence issues regarding all equipment are taken care of regardless of actual manufacturer.

2. Reference documents

The reference documents listed below form an integral part of this General Specification.

The key guidance document in managing obsolescence is the [IEC 62402](#). Obsolescence Management - Application guide. The relevant sections pertain to supporting a pro-active obsolescence management process.

The following list also provides additional information on the standards used in support of pro-active obsolescence management:

External Documents

Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published at the effective date of this document.

Reference	Title
IEC 62402	Obsolescence Management - Application guide

Total General Specifications

Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published in the applicable yearly collection.

Reference	Title
Not applicable	