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TECHNICAL SPECIFICATION

Nº I-ET-3010.00-1200-940-P4X-002

REV. E

TITLE:

SHEET 2 of 5

GENERAL TECHNICAL TERMS

INTERNAL

ESUP

SUMMARY

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1 OBJETIVE

This document defines general technical terms in order to equalize understanding of all design documents.

2 DEFINITION

- Can:

Can requirements are conditional and indicate a possibility open to the user of the standard.

- May:

May indicates a course of action that is permissible within the limits of the standard (a permission).

- Shall:

Shall is an absolute requirement which shall be followed strictly in order to conform to the standard.

- Should:

Should is a recommendation. Alternative solutions having the same functionality and quality are acceptable.

- Critical Service:

Critical service is defined as a service where failure of the equipment to operate correctly results in an unsafe condition that puts the lives of personnel at risk or jeopardizes equipment. Further, it is a service where failure of the machine to operate correctly makes plant or process unacceptable as a production unit. High criticality requires equipment with high quality, high reliability, stringent testing, and eventually redundancy.

Alternatively, three half-capacity machines shall be specified, two running in parallel, and the third unit as a spare.

- Unit:

Unit is defined as the FPSO (Floating Production Storage and Offloading), FSO (Floating Storage and Offloading), SS (Semi-Submersible) or Fixed Offshore Unit.

- Package Unit or Package:

It is defined as an assembly of equipment supplied interconnected, tested and ready to operate, requiring only the available utilities from the Unit for the Package operation.

- Packager:

It is defined as the responsible for project, assembly, construction, fabrication, testing and furnishing of the Package.

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- **Manufacturer:**

It is defined as the responsible for fabrication of equipment or components internal to the Package.

- **Module:**

It is defined as the metallic structure suitable for lift and transport, where Packages and equipment will be installed, being supplied completely mounted and pre-commissioned.

- **Module Supplier or Seller:**

It is defined as the responsible for project, assembly, erection, construction, fabrication, testing and furnishing of the Module.

- **Hull Supplier or Hull Contractor or Seller**

It is defined as the responsible for the Unit Hull engineering, construction, assembly and commissioning; and also responsible for the PACKAGE purchase, receiving, lifting, hook up and installation onboard the Unit Hull.

- **Buyer or PETROBRAS:**

It is defined as the company that is buying the FPSO, PETROBRAS.

- **Supplier or Bidder or Seller:**

It is defined as the responsible for the detailed design, purchase all instrument, equipment, system, unit, material, assembly and construction, commissioning, lift, hook up, installation and integration of all Modules on the Unit Hull.

- **Integrator, Seller or Contractor:**

The Company that will execute all the interconnections amongst Modules.

- **Automation integrator:**

The Company that will execute all the Automation and Control interconnections amongst systems, programming and configurations.

- **C.S.**

The Classification Society Bureau under whose Rules, Regulations and Survey the unit shall be certified.

- **POB:**

People On Board.

- **SPU:**

Stationary Production Units.

- **Workface Planning (WFP):**

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The process of organizing and delivering all the elements necessary, before work is started, to enable craft persons to perform quality work in a safe, effective, and efficient manner, process as defined by the COOA Association and CII.

- Path of Construction (PoC):

It is the articulation of the optimum building sequence of the physical components of a facility.

- Field Installation Work Package (FIWP):

A detailed execution plan that ensures all elements necessary to complete the scope of the FIWP are organized and delivered before work is started. This detailed planning enables craft persons to perform quality work in a safe, effective, and efficient manner. Generally, the scope of work associated with the FIWP is small enough that it could be completed by a single-foreman team, typically in a one- or two-week time frame.

- Engineering Work Package (EWP):

An engineering deliverable that is used to develop CWP's and that defines a scope of work to support construction in the form of drawings, procurement deliverables, specifications, and vendor support. The EWP is released in an approved sequence that is consistent with the CWP schedule. The scope of work is typically both by discipline and by area.

- Procurement Work Package (PWP):

A Supply deliverable comprising the engineering requisition, procurement milestone, pre-quotes, purchase order issues and shipment to site details.

- Construction Work Package (CWP):

An executable construction deliverable that defines in detail a specific scope of work and should include a budget and schedule that can be compared with actual performance. The scope of work is such that it does not overlap another CWP. The CWP can be used as a scoping document for Requests for Proposal and Contracts.