



Exploration & Production

GENERAL SPECIFICATION

PROJECTS - CONSTRUCTION

GS EP PJC 301

Hook-up organization and preparation

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1. Scope

This document defines the minimum requirements for preparing, organizing and carrying out hook-up work between constituent parts (jacket, deck, module, etc.) of a new installation, and all connections with the existing installations.

This work must be prepared for and carried out in such a way as to minimize the time necessary and the risks associated with working at sea. The organization to be set up, the measures taken and resources used must be in keeping with the scale of the work which may or may not be associated with hydrocarbon production.

2. Reference documents

The reference documents listed below form an integral part of this General Specification. Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published at the EFFECTIVE DATE of the CONTRACT.

Standards

Reference	Title
Not applicable	

Professional Documents

Reference	Title
Not applicable	

Regulations

Reference	Title
Not applicable	

Codes

Reference	Title
Not applicable	

Other documents

Reference	Title
Not applicable	

Total General Specifications

Reference	Title
GS EP EXP 101	Precommissioning and commissioning guidelines
GS EP EXP 103	Precommissioning and commissioning technical preparation
GS EP EXP 105	Precommissioning execution
GS EP EXP 107	Commissioning execution

3. Definitions

3.1 Hook-up

Hook-up work between constituent parts (jacket, deck, module, etc.) **of a new installation** and all connections with the existing installations.

By extension, hook-up also includes all work on the platform that is required by the contract (work not completed onshore, modifications to existing installations, etc.).

3.2 Integration work

The term "integration work" is used to mean any major work carried out on a petroleum installation that is **in service** and, more specifically:

- Setting up new installations
- Removing existing installations
- Major alterations to existing installations
- Handling heavy equipment above the installation
- Major maintenance projects as required.

3.3 Simultaneous installation and production (TIPS) work

Work done on a petroleum installation or in the immediate vicinity while hydrocarbon production (or injection) continues.

All activity with drilling or workover equipment relating to the work activity must comply with the same requirements as applied to TIPS or OPPS works (Operation on wells and simultaneous production).

3.4 Hook-up task

This is a specific construction activity by discipline on a single system which must be divided up according to the:

- Organization of the CONTRACTOR
- Imperatives of conducting the work
- Scheduling imperatives

- Management imperatives
- Safety imperatives.

3.5 Task sheet

This document shall identify a task and specify:

- The task description
- The duration
- The schedule
- The resources applied (personnel and material).

4. Quality control procedure

During this phase, the compliance checks will be in line with the technical acceptance methodology developed in precommissioning and commissioning guidelines (GS EP EXP 101), precommissioning and commissioning technical preparation (GS EP EXP 103) and precommissioning execution (GS EP EXP 105).

5. Technical preparation/organization

Preparation for the hook-up or integration work shall begin early enough for the cost and lead time requirements to be optimized during the engineering phase. It shall be completed during the construction phase with the reservations and the work not completed onshore.

The CONTRACTOR in charge of hook-up or integration shall also be responsible for preparing for the work.

Preparing for these activities involves producing:

- The technical documentation
- The operating manual
- The accommodation documentation
- The safety manual.

5.1 Technical documentation

This must be completed before the end of assembly on the construction site.

It shall comprise:

5.1.1 General documents

These are the documents needed to prepare the technical manual:

- PID
- Schematic, electrical diagrams
- Safety flow diagram

- Plans of classified areas
- All other drawings, documents or diagrams that may help to describe the task.

5.1.2 Listing the tasks

An exhaustive list of the tasks shall be produced by system and by discipline.

5.1.3 Task sheets

Task sheets shall be used for:

- Preparing schedules (estimating individual job times and monitoring progress)
- Defining, preparing and procuring the materials needed for the work
- Carrying out the work
- Allocating and monitoring expenditure
- Construction checks
- "As built" documentation.

They shall include the following information:

- Working area
- Reference documents
- Work description by individual operation
- List of special tools required
- List of equipment and materials required
- Scheduling data (start-finish)
- Planned quality inspections.

5.1.4 Packing list

This covers:

- Equipment for executing the tasks
- Installation accessories in sufficient numbers to meet requirements on site (gaskets, bolts, couplings, etc.)
 - Information required
 - . Destination
 - . Task numbers and system for hook-up
 - . Order numbers for the equipment
 - . Exact descriptions
 - . Quantities
 - . Package weight
 - . Package identification.