PETROBRAS	TECHNICAL SPECIFICATION	Nº:	I-ET-0000.00-0000-274-P9U-006
	CLIENT: PETROBRAS		SHEET: 1 OF 4
	JOB: OFFSHORE RISERS		
	AREA: GENERAL		
-	TITLE: RISER CONFIGURATION DATA SHEET		SUB/ES/EDD
			-

INDEX OF REVISION

REV.	DESCRIPTION AND/OR REVISED SHEETS
0	ORIGINAL
A	REFERENCE UPDATE, WORDING REVISION, DATA SHEET FORMAT UPDATED
B	REFERENCE UPDATE, WORDING REVISION, DATA SHEET FORMAT UPDATED

	REV. 0	REV. A	REV. B	REV. C	REV. D	REV. E
DATE	26/02/18	15/05/2020	13/10/2022			
EXECUTION	CSOE	CSOE	CSOE			
CHECK	BF7D	C5DL	BXQ9			
APPROVAL	CLZ2	CLZ2	CLZ2			

CONTENTS

1. PURPOSE

This technical specification establishes a standard format to exchange Riser Configuration data.

2. ABBREVIATIONS AND DEFINITIONS

- CONTRACTOR Company responsible for the interference analysis.
- FH Free Hang or free catenary.
- FSHR Free Standing Hybrid Riser.
- HOG Riser section bends upward, or buoyancy section top.
- May Verbal form used to indicate a course of action permissible within the limits of the standard.
- MHR Multiple Hybrid Risers.
- OD Outer Diameter.
- Project Scope of activities the CONTRACTOR performs to design, construct and install the riser system for a specific field and host FPU.
- RHAS Riser Hibrido Auto Sustentável.
- SAG Riser section bend downward, or riser deepest section between the unit and buoyancy section.
- SCR Steel Catenary Riser.
- Shall Mandatory requirement. Indicates requirements strictly to be followed to conform to this Technical Specification and from which no deviation is permitted.
- Should Recommended Practice. Indicates that among several possibilities, one is recommended as particularly suitable, without mentioning or excluding others, or that a particular course of action is preferred but not necessarily required. Other possibilities may be applied subject to agreement.
- SLWR Steel Lazy Wave Riser.
- SSWR Steel Steep Wave Riser.
- TDP/TDZ Touch Down Point/ Touch Down Zone.
- UNIT Fixed or Floating Platform.
- VIV Vortex-Induced Vibration.

3. APPLIED DOCUMENTS

[A1] API RP 17B, Recommended Practice for Flexible Pipe, Fifth Edition;

[A2] API RP 17L2, Recommended Practice for Flexible Pipe Ancillary Equipment;

[B1] I-ET-3010.00-1500-274-P56-001 – Riser Interference Analysis;

[B2] I-ET-0000.00-0000-274-P9U-001, SLWR Detailed Structural Design Requirements;

[B3] I-ET-0000.00-0000-278-P9U-001, Technical Specification For Vortex Suppressors – “Strakes”;

[B4] I-ET-0000.00-0000-250-P9U-002, Minimum Requirements for Buoyancy Modules for Flowlines and SLWRs;

4. GENERAL REQUIREMENTS

All essential information influencing the submerged weight and the vertical and horizontal configuration profiles must be presented in the Riser Configuration Data Sheet.

Data must be presented in SI units, including at least the information data in Annex A and B.

Structural data that varies as a function of water depth, pipe mean tension, or differential pressure (internal x external), like Axial and Bend Stiffness in flexible pipes, must also be present in the Data Sheet if incurred in Sag or Hog height variation in more than 2x OD.

All properties that lead to lower Sag / Hog (i.e., maximum fluid specific weight, floaters net buoyancy in End of Life, seawater upper salinity levels) should be combined into the same configuration profile. Likewise, the same consideration with properties that lead to a higher Sag / Hog (i.e., minimum/empty fluid specific weight, floaters net buoyance in Start of Life, seawater upper lower levels) should be combined into the same configuration profile.

Buoyancy data shall be presented in detailed form (net buoyancy and specific weight per module). Average buoyancy per meter (equivalent section) is not acceptable.

The Riser Configuration Data-Sheet is expected to be updated throughout the riser system design cycle.

The Riser Configuration Data-Sheet will be used as a technical documentation interface allowing data exchange between different Riser Contractors on the same UNIT.

The Riser Configuration Data Sheet shall not present proprietary information that cannot be shared with other Contractors.

5. CONFIGURATION DATA SHEET FORMAT

The data sheet shall be presented in a digital spreadsheet file.

The format to present de flexible riser configuration data-sheet can be found in Annex A, and for the rigid riser, in Annex B.

/ANNEX A

/ANNEX B