			TECHNICAL SPECIFICATION N°: I-ET-3010.2Q-1200				·91A-P4X-001	
BR		CLIENT:		AGP		SF	HEET: 1 of 6	
		JOB:	OB: BASIC PROJECT - REVIT I					
PETR	OBRAS	AREA:		MLL/ML	S			
E&P			REQUIREMENTS			TENANCE	UN-BC	
				UALS AND D	ATABOOKS		INTERNAL	
E1-3010	.2Q-1200-91	A-P4X-001_0.	DOCX					
			INDE>	OF RE	/ISION			
REV.			DESCRIP	TION AND/OR	REVISED SHE	ETS		
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ΛΤΕ		REV. 0	REV. A	REV. B	REV. C	REV. D	REV. E	
ATE KECUTIO			REV. A	REV. B	REV. C	REV. D	REV. E	
		NPR/24/24	REV. A	REV. B	REV. C	REV. D	REV. E	
ECUTIO	N	VPR/24/24 CMMJ	REV. A	REV. B	REV. C	REV. D	REV. E	

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ERRO! FONTE DE	AGP		SHEET 2 of 6		
REFERÊNCIA NÃO ENCONTRADA.			ERRO! FONTE DE REFERÊNCIA NÃO ENCONTRADA.		
	MANUALS AND	MANUALS AND DATABOOKS		ERRO! FONTE DE REFERÊNCIA NÃO ENCONTRADA.	
	10N			2	
	E DOCUMENTS			-	
	SUPPLY				
3.1. AS BUILT	T documents				
	ks I- FPSO Unit Operation Manuals and			-	
	I- Engineering Data Book				
3.2.3. Part I	III- Vendors Data Books			4	
	IV – NR-13 and Documentation for c Society, with stamp of approval of t				
3.2.5. Part	V – Construction Data Book	-		5	
	VI – Commissioning Data Books/Fol VII- NR-10 dossiers				
	VIII - NR-37 – Compliance with NR-				

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REFERÊNCIA NÃO ENCONTRADA.		REFERÊNCIA NÂ REQUIREMENTS FOR OPERATION AND MAINTENANCE ENCONTRADA			
	MANUALS AND	MANUALS AND DATABOOKS		ERRO! FONTE DE REFERÊNCIA NÃO ENCONTRADA.	
This mai con This in e SEI	TRODUCTION s technical specification describes intenance manuals and databooks f ntract. s technical specification summarizes exhibits of contract. LLER shall forward this technical spec opliers in order to give them knowled	or all FPSO operation syster and complements what is re cification for all equipment/pac	ms subject ferred or r kages and	t of this equired system	
	intenance manuals and databooks as				
Ext Ext Ext Ext Ext	EFERENCE DOCUMENTS hibit I - SCOPE OF SUPPLY hibit III - DIRECTIVES FOR ENGINES hibit IV - DIRECTIVES FOR CONSTR hibit V - DIRECTIVES FOR PROCUR hibit VIII - DIRECTIVES FOR COMMI hibit XV - DIRECTIVES FOR FPSO C	RUCTION AND ASSEMBLY REMENT ISSIONING			
3. SC	OPE OF SUPPLY				
SE	B UILT documents LLER shall delivery the as-built docu YER.	umentation in a Data Book fo	rmat appro	oved by	
For app bas	 ta Books general documentation for all FPS proval the complete Data Books inclusic organization: Part I – FPSO Unit Operation Ma Part II – Engineering Data Bostamped by Classification Society Part III – Vendors Data Books Part IV – NR12 according to I-EWITH NR-12 REQUIREMENTS 970-P4X-013 - COMPLIANCE W Part V – Construction Data Book Part VI – Commissioning Data Book Part VII – NR-10 dossiers Part VIII – NR-37 - COMPLIANCE 	anuals and Certificates ok – including final as-built y, where applicable T-3010.00-1200-970-P4X-012 and NR-13 according to I-I /ITH NR-13 AND SPIE REQU ooks/Folders E WITH NR-37 REQUIREME	rs as the fo documen 2 - COMPI ET-3010.0 IIREMENT NTS	ollowing ts dully LIANCE 0-1200- S	
mai	intenance, operation and installatio rtuguese language.				
	 rt I- FPSO Unit Operation Manuals are FPSO Operation Manuals shall be of Section I- Plant Operation Manual Plant Operation Manuals shall be or 	organized as the following: als:			

		TECHNICAL SPECIFICATION	I-ET-3010.2Q-1200-91A-F	P4X-001	REV.: 0	
		A	GP	SHEET	4 of 6	
ERRO! FONTE REFERÊNC NÃO ENCONTRAI	SIA	TITLE: REFERÊNCIA REQUIREMENTS FOR OPERATION AND MAINTENANCE MANUALS AND DATABOOKS ERRO! FONTE			NCIA NÃO TRADA.	
					NCIA NÃO TRADA.	
	•	 characteristics, and speciro Plant and systems start-u Main operational parame and trips), 	ctional plant and systems des fications. p procedures; ters monitoring (cause & eff nut-down procedures and cau ttings and safety limits	ect matrix	alarms	
	Engir	II- Engineering Data Book neering Data Book requirements an RECTIVES FOR ENGINEERING E		ccording E	XHIBIT	
	Vend ENG	II- Vendors Data Books ors Data Book shall be according to EXHIBIT III – DIRECTIVES FOR NEERING EXECUTION, and EXHIBIT V DIRECTIVES FOR PROCUREMENT. asic organization of all Vendors Data Books shall be according to: Section 1- Engineering Documents Section 2- Section II – Operation & Maintenance Manual, Instruction for Installation, Preservation and Commissioning Section 3 – Certificates Quality Manual, comprising Material Certificates, Tests and Procedures, Weld and NDT reports and traceability Section 4 – Vendor NR-13 Data Book Section 5 – Vendor NR-10 Data Book				
	Secti Secti and (Secti The	Emergency and normal shut-dow Operational routines and checkin	Anual, Instruction for Installa V DIRECTIVES FOR PROC for each Vendor skid/pack quipment and systems descrip edures and cautions, ng (cause & effect matrix alar m procedures and cautions, g, troubleshooting, and main ivities schedule, proced , mbly and dismantle proce e consumables, tools and cau are parts and consumables lis vation and Commissioning,	ation, Prese UREMENT cage Oper ption, featu ms and trip tenance, ures, ap redures, t itions,	ervation F ation & Ires and	

		TECHNICAL SPECIFICATION	I-ET-3010.2Q-1200-91A-F	94X-001	0
ERRO! FONT			GP	SHEET	5 of 6
REFERÊN NÃO ENCONTRA	CIA		ERRO! FONTE DE REFERÊNCIA NÃO ENCONTRADA. ERRO! FONTE DE		
				REFERÊN ENCON	
	•	Procedures for handling and disp	oosal of parts and wastes,		
3.2.3.2.	Proce	on 3 – Certificates Quality Manua edures, Weld and NDT reports and on 3 shall be according to:		icates, Te	sts and
	•	EXHIBIT V DIRECTIVES FOR P EXHIBIT V DIRECTIVES FOR SURVEY INSPECTION REQUIR EXHIBIT VII – DIRECTIVES FOR	PROCUREMENT Appendiz		NERAL
3.2.3.3.	Secti SELL COM COM	on 4 – Vendor NR-13 Data Book on 4 shall be according EXHIBIT V ER shall comply with all requ PLIANCE WITH NR-12 REQUIRE PLIANCE WITH NR-13 AND SF iers data that shall be provided by v	irements of I-ET-3010.00.1 MENTS and I-ET-3010.00-12 PIE REQUIREMENTS, relate	200-970-P 00-970-P4	X-013 -
3.2.3.4.	Secti 3010	on 5 – Vendor NR-10 Data Book on 5 shall be according EXHIBIT V .00-5140-700-P4X-001 - SPECIF SHORE UNITS.			
3.2.4.	Class SELL 12 RI 13 AI NR-1 SELL	IV – NR-13 and Documentation for sification Society, with stamp of a ER shall comply with I-ET-3010.00- EQUIREMENTS and I-ET-3010.00- ND SPIE REQUIREMENTS. 3 Dossiers shall be archived on UN ER shall comply with I-ET-301 GRITY AND LABOR AUTHORITY	approval of the Classificatio -1200-970-P4X-012 - COMPL 1200-970-P4X-013 - COMPL IIT's library. 0.2C.1200-91K–P4X-001 GI	JIDELINES	TH NR- TH NR-
3.2.5.	Cons	V – Construction Data Book truction Data Book shall be acco .ER shall issue construction and as			
3.2.6.	SELL Book Thes colled all ne Pre-C produ	VI – Commissioning Data Books/ ER shall provide all System and S s/Folders according to EXHIBIT VII e Systems and Sub-systems (SOP/ ction of commissioning document u ccessary documentation, lists, inform Commissioning and Commissioning ucts of the Commissioning and sha her with the Subsystem (SSOP) for	ub-systems (SOP/SSOP) Co I DIRECTIVES FOR COMMIS SSOP) Commissioning Data used during all Commissioning nation to allow inspections, test ng activities. These folders Ill be prepared by the SELLE	SSIONING Books/Folc g Phase, in sts, checks s are deli	ders are ncludes , during verable
3.2.7.	In NF docu SPE as, b	VII- NR-10 dossiers R-10 Dossiers, SELLER shall provid ments required to comply with N CIFICATION FOR ELECTRICAL DI ut not only: e as-built electric diagrams,	IR-10 and I-ET-3010.00-514	10-700-P4	K-001 -

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ERRO! FONTE REFERÊNCI, NÃO ENCONTRAD	TITLE: REQUIREMENTS FOR OPERATION AND MAINTENANCE MANUALS AND DATABOOKS		ERRO! FONTE DE REFERÊNCIA NÃO ENCONTRADA. ERRO! FONTE DE REFERÊNCIA NÃO ENCONTRADA.		
c d e f) A	electric equipment and material in activities, applied in hazardous and o specifications and measurements o grounds, emergency procedures, set of health and safety procedures a system, test certificates of electric insulation and tools, NR-10 inspections related to Opera d reports shall be presented, includin	classified area, f the lightning protection syst and instructions related to elect of personal and collective pro tion System and Subsystem s	em and e ric equipm tective eq hall be co	electrical ment and uipment	
3.2.8. P	t VIII - NR-37 – Compliance with NR-37 Requirements				
T tř e	LER shall assure that all requirements from NRs (Brazilian Regulatory Standards), nnical Standards and Rules mentioned in the NR-37 will be fulfilled and followed on design, construction, fabrication, assembly and installation of all pment/packages and system by the suppliers, including all the documentation and ficates which shall be issued for them.				