







DOC NUMBER:

E-569-B7A-PRO-330-002

CLIENT NUMBER:

PRD-PRO-LIS-001

CLIENT:

TAKEDA/BAXALTA

PROJECT:

BURITI EPCVM PROJECT

0	30SEP2021	ISSUED FOR CONSTRUCTION	JRM	LFF	MSS
Α	05JUL2021	90% DD ISSUE	MPA	CCO	MSS
REV	DATE	DESCRIPTION	EXEC	CHECK	APPROV









NUMBER: E-569-B7A-PRO-330-002 CLII

CLIENT NR:

PRD-PRO-LIS-001

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REV.:

SHEET:

LINE LIST - PROCESS AND CLEAN UTILITIES - BUILDING 7A LISTA DE LINHAS - PROCESSO E CLEAN UTILITIES - PRÉDIO 7A

1. REVISION HISTORY / HISTÓRICO DE REVISÃO

	Rev	Reason For Change / Motivo da Revisão
ſ	Α	90% DD ISSUE
ſ	0	ISSUED FOR CONSTRUCTION

HOLD LIST / LISTA DE PENDÊNCIAS

HOLD 1 - Waiting supplier information.

HOLD 1 - Aguardando informação do fornecedor.









DOC NR:

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REV.:

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		LINE NUM	BER ID / IL	DENTIFICAÇ	ÃO DA LII	NHA	INSUL./		Dens. /	LINE INTERCONNECTION /	EXTREMIDADES DA LINHA		Typical O	perating / ação	Operating	/ Operação	Design/	Projeto	Pressure Test /	Test Fluid /	
	Buildin	Diam./ <i>Diâm</i> .	Florida (Florida	N	E (Inner Towns (ISOL.	Fluid. / Fluído	Dens.			P&ID / Fluxograma	Temp. /	Pressure/	Temp. /	Pressure/	Temp. / Temp.	Pressure/	Pressão	Fluído de	NOTES /
REV./	g/		Fluid/Fluí do	Number/ Número	Espec. / Espec.	Insul. Type / Tipo Isol.				From / De	To / Para		Temp.	Pressão	Temp.	Pressão	' '	Pressão	de Teste	Teste	NOTAS
REV.	Prédio	(pol)					(mm)		(kg/m³)				(°C) Normal	(barG)	(°C)	(barG)	(°C)	(barG)	(barG)		
													Operating	Normal Operating	Shut off Temperatur	Shut off	Operating Temperature	Operating			
													Temperatur e	Pressure	е	Pressure	+ 10°C	Pressure * 1.5			
А	7A	3/4	CA	430006	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	3/4"-CA-710013-SS5-NI	BD-4301	7A-Z-0-2-20	20	2,75	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
Α	7A	1/2	CA	460102	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1/2"-CA-710017-SS5-NI	LV-4601	7A-Z-0-2-07	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
А	7A	1/2	CA	640119	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1/2"-CA-710009-SS5-NI	MES-6401	7A-Z-0-2-24	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
А	7A	1/2	CA	650123	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1/2"-CA-710011-SS5-NI	CSG-6501	7A-Z-0-2-27	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1.1/2; 1	CA	710001	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1.1/2"-CA-840014-SS6-NI	DISTRIBUTION	7A-Z-0-2-37	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
А	7A	1	CA	710002	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1.1/2"-CA-710001-SS5-NI	DISTRIBUTION	7A-Z-0-2-37	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
А	7A	1	CA	710003	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1.1/2"-CA-710001-SS5-NI	DISTRIBUTION	7A-Z-0-2-37	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
А	7A	1; 3/4	CA	710004	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1.1/2"-CA-710001-SS5-NI	DISTRIBUTION	7A-Z-0-2-37	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
А	7A	1/2	CA	710005	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1"-CA-710001-SS5-NI	DISTRIBUTION	7A-Z-0-2-37	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
Α	7A	1/2	CA	710006	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1/2"-CA-710005-SS5-NI	TCU-3903	7A-Z-0-2-37 / 7A-Z-0-2-10	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
А	7A	1/2	CA	710007	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1/2"-CA-710005-SS5-NI	CIP-7701	7A-Z-0-2-37 / 7A-Z-0-2-21	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
А	7A	1/2	CA	710008	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1"CA-710002-SS5-NI	RO-6301	7A-Z-0-2-37 / 7A-Z-0-2-23	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	CA	710009	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1"CA-710002-SS5-NI	1/2"-CA-640119-SS5-NI	7A-Z-0-2-37 / 7A-Z-0-2-24	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
А	7A	1/2	CA	710010	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1"CA-710002-SS5-NI	SK-6401	7A-Z-0-2-37 / 7A-Z-0-2-25	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
А	7A	1/2	CA	710011	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1"CA-710002-SS5-NI	1/2"-CA-650123-SS5-NI	7A-Z-0-2-37 / 7A-Z-0-2-27	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	CA	710012	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	3/4"-CA-710020-SS5-NI	1/2"-CA-900206-SS5-NI	7A-Z-0-2-37 / 7A-Z-0-2-05	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
A	7A	3/4	CA	710013	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1"CA-710002-SS5-NI	3/4"-CA-430006-SS5-NI	7A-Z-0-2-37 / 7A-Z-0-2-20	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
А	7A	1/2	CA	710014	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1"-CA-710003-SS5-NI	DISTRIBUTION	7A-Z-0-2-37	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
А	7A	1/2	CA	710029	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1/2"-CA-710014-SS5-NI	TC-6402	7A-Z-0-2-37 / 7A-Z-0-2-26	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
А	7A	1/2	CA	710016	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1/2"-CA-710014-SS5-NI	TC-6403	7A-Z-0-2-37 / 7A-Z-0-2-26	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
A	7A	1/2	CA	710017	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	3/4"-CA-710004-SS5-NI	1/2"-CA-460102-SS5-NI	7A-Z-0-2-37 / 7A-Z-0-2-07	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	CA	710018	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	3/4"-CA-710004-SS5-NI	1/2"-CA-900106-SS5-NI	7A-Z-0-2-37 / 7A-Z-0-2-06	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
A	7A	1/2	CA	710019	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1/2"-CA-710021-SS5-NI	LYO-1105	7A-Z-0-2-37 / 7A-Z-0-2-08	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
A	7A	3/4	CA	710020	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1"-CA-710004-SS5-NI	DISTRIBUTION	7A-Z-0-2-37	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
A	7A	1/2	CA	710021	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1"-CA-710004-SS5-NI	DISTRIBUTION	7A-Z-0-2-37	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
A	7A	1/2	CA	710022	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1/2"-CA-710021-SS5-NI	LYO-1106	7A-Z-0-2-37 / 7A-Z-0-2-09	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
Α	7A	1/2	CA	710023	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1"-CA-710003-SS5-NI	FIL-3901	7A-Z-0-2-37 / 7A-Z-0-2-03	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
A	7A	1/2	CA	710024	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1"-CA-710003-SS5-NI	EV-1103	7A-Z-0-2-37 / 7A-Z-0-2-04	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
Α	7A	1	CA	710025	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1"-CA-710003-SS5-NI	TE-1102	7A-Z-0-2-37 / 7A-Z-0-2-04	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	









DOC NR:	SHEET:
E-569-B7A-PRO-330-002	4 of 36
CLIENT NR:	REV.:
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		In the learning of the field of the learning of the field of the learning of the learni	ÃO DA LII	NHA	INSUL./		Dens. /	LINE INTERCONNECTION /	EXTREMIDADES DA LINHA		1	perating / ração	Operating	/ Operação	Design/	Projeto		Test Fluid /	NOTES /		
REV.	Buildin g /	Diam./ <i>Diâm.</i>			Espec. /	Insul. Type /	ISOL.	Fluid. / Fluído	Dens.	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp.	Pressure/ Pressão	Temp. / Temp.	Pressure/ Pressão	Temp. / Temp.	Pressure/ Pressão	Pressão de Teste	Fluído de Teste	NOTAS
REV.	Prédio	(pol)	"	Numero	Lapec.	Tipo isoi.	(mm)		(kg/m³)				(°C)	(barG)	(°C)	(barG)	(°C)	(barG)	(barG)		4
Α	7A	1/2	CA	710026	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1"-CA-710003-SS5-NI	ML-1101	7A-Z-0-2-37 / 7A-Z-0-2-04	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
А	7A	1/2	CA	710027	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1"-CA-710003-SS5-NI	HV-110401 / CTM-1104	7A-Z-0-2-37 / 7A-Z-0-2-04	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
А	7A	1/2	CA	710028	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1"-CA-710002-SS5-NI	SK-8001	7A-Z-0-2-37 / 7A-Z-0-2-31	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	CA	710030	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	3/4"-CA-710004-SS5-NI	TC-6404	7A-Z-0-2-37 / 7A-Z-0-2-26	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
А	7A	1/2	CA	900106	SS5	NI		Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	1/2"-CA-710018-SS5-NI	AT-9001	7A-Z-0-2-06	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
Α	7A	1/2	CA	900206	SS5	NI	-	Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	3/4"-CA-710012-SS5-NI	AT-9002	7A-Z-0-2-05	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
А	7A	3/4	CA	900207	SS5	NI		Compressed (Instr.) Air/ Ar comprimido de Instrumentos	HOLD 1	3/4"-CA-710012-SS5-NI	AT-9002	7A-Z-0-2-05	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	









DOC NR:	SHEET:
E-569-B7A-PRO-330-0	
CLIENT NR:	REV.:
PRD-PRO-LIS-001	0

																PF	RD-PRO-LIS	S-001			0
		LINE NUM	IBER ID / IC	DENTIFICA	ÇÃO DA LI	NHA	INSUL./		Dens. /	LINE INTERCONNECTION /	EXTREMIDADES DA LINHA		Typical O Oper		Operating	/ Operação	Design/	Projeto	Pressure Test /	Test Fluid /	/ NOTES /
REV./	Buildin g /	Diam./Diâm.	Fluid/ <i>Fluí</i>		Espec. /	Insul. Type /	ISOL.	Fluid. / Fluído	Dens.	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp.	Pressure/ Pressão	Temp. / Temp.	Pressure/ Pressão	Temp. / Temp.	Pressure/ Pressão	Pressão de Teste	Fluído de Teste	NOTAS
REV.	Prédio	(pol)	do	Número	Espec.	Tipo Isol.	(mm)		(kg/m³)	Troill / De	TOTFala		(°C)	(barG)	(°C)	(barG)	(°C)	(barG)	(barG)		4
													Normal Operating Temperatur e	Normal Operating Pressure	Shut off Temperatur e	Shut off Pressure	Operating Temperature + 10°C	Operating Pressure * 1.5			
0	7A	1	CAP	110513	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1"-CAP-700016-SS10-NI	LYO-1105	7A-Z-0-2-08	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2; 1	CAP	110514	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1/2"-CAP-110515-SS10-NI	LYO-1105	7A-Z-0-2-08	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2; 1/4	CAP	110515	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1"-CAP-110513-SS10-NI	LYO-1105	7A-Z-0-2-08	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1; 1/2	CAP	110613	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1"-CAP-700017-SS10-NI	LYO-1106	7A-Z-0-2-09	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1; 1/2	CAP	110614	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1/2"-CAP-110615-SS10-NI	LYO-1106	7A-Z-0-2-09	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2; 1/4	CAP	110615	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1"-CAP-110616-SS10-NI	LYO-1106	7A-Z-0-2-09	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2;1	CAP	390118	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1/2"-CAP-700005-SS10-NI	FGA-3901-1	7A-Z-0-2-03	20	1,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	CAP	390119	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	FIT-3901	1"-CAP-390118-SS10-PP	7A-Z-0-2-03	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	CAP	460101	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1/2"-CAP-700022-SS10-NI	LV-4601	7A-Z-0-2-07	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	CAP	470101	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1/2"-CAP-700021-SS10-NI	1"-FH-470101	7A-Z-0-2-22	20	3,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	CAP	470103	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1/2"-CAP-470101-SS10-NI	1"-SFI/CAP/VEP-470101-SS10- PP	7A-Z-0-2-22	20	0.5 - 3	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1.1/2	CAP	700001	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1 1/2"-CA-840015-SS5-NI	FGA-7000-1	7A-Z-0-2-36	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	CAP	700002	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1.1/2"-CAP-700012-SS10-NI	CIP-7701	7A-Z-0-2-36 / 7A-Z-0-2-21	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1.1/2	CAP	700003	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1.1/2"-CAP-700012-SS10-NI	DISTRIBUTION	7A-Z-0-2-36	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	CAP	700004	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1.1/2"-CAP-700003-SS10-NI	DISTRIBUTION	7A-Z-0-2-36	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	CAP	700005	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	3/4"-CAP-700004-SS10-NI	1/2"-CAP-390118-SS10-NI	7A-Z-0-2-36 / 7A-Z-0-2-03	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	CAP	700006	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	3/4"-CAP-700004-SS10-NI	UP-3903	7A-Z-0-2-36 / 7A-Z-0-2-02	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	CAP	700007	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	3/4"-CAP-700004-SS10-NI	Header	7A-Z-0-2-36 / 7A-Z-0-2-01	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1.1/2	CAP	700008	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1.1/2"-CAP-710001-SS10-NI	1.1/2"-CAP-700009-SS10-NI	7A-Z-0-2-36	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1.1/2	CAP	700009	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	FGA-7000-1	FGA-7000-2	7A-Z-0-2-36	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1.1/2	CAP	700010	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1.1/2"-CAP-700003-SS10-NI	DISTRIBUTION	7A-Z-0-2-36	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	CAP	700011	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1.1/2"-CAP-700010-SS10-NI	ML-1101	7A-Z-0-2-36 / 7A-Z-0-2-04	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1.1/2	CAP	700012	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	FGA-7000-2	DISTRIBUTION	7A-Z-0-2-36	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	CAP	700013	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1.1/2"-CAP-700010-SS10-NI	ALS-1105/6	7A-Z-0-2-36 / 7A-Z-0-2-04	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	CAP	700014	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1-CAP-700023-SS10-NI	FIT-9001	7A-Z-0-2-36	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	CAP	700015	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1.1/2"-CAP-700003-SS10-NI	DISTRIBUTION	7A-Z-0-2-36	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	









DOC NR: SHEET: E-569-B7A-PRO-330-002 CLIENT NR: REV.: PRD-PRO-LIS-001

																Ph	KD-PRO-LIS	5-001			U
		LINE NUM	IBER ID / IL	DENTIFICA	ÇÃO DA LI	NHA	INSUL./		Dens. /	LINE INTERCONNECTION /	EXTREMIDADES DA LINHA		Typical O Oper	perating / ração	Operating	/ Operação	Design/i	Projeto	Pressure Test /	Test Fluid /	NOTES /
REV.	Buildin g / Prédio	Diam./Diâm.	Fluid/ <i>Fluí</i> do	Number/ Número	Espec. / Espec.	Insul. Type / Tipo Isol.	(mm)	Fluid. / <i>Fluíd</i> o	Dens. (kg/m³)	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp.	Pressure/ Pressão (barG)	Pressão de Teste (barG)	Fluído de Teste	NOTAS
0	7A	1	CAP	700016	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1"-CAP-700015-SS10-NI	1"-CAP-110513-SS10-NI	7A-Z-0-2-36 / 7A-Z-0-2-08	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	CAP	700017	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1"-CAP-700015-SS10-NI	1"-CAP-110616-SS10-NI	7A-Z-0-2-36 / 7A-Z-0-2-09	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1.1/2	CAP	700018	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1.1/2"-CAP-700009-SS10-NI	1.1/2"-CAP-700012-SS10-NI	7A-Z-0-2-36	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	CAP	700019	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1-CAP-700023-SS10-NI	FIT-4601	7A-Z-0-2-36	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	CAP	700020	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1"-CAP-700023-SS10-NI	3/4"-CAP-900107-SS10-NI	7A-Z-0-2-36 / 7A-Z-0-2-06	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	CAP	700021	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1"-CAP-700023-SS10-NI	1/2"-CAP-470101-SS10-NI	7A-Z-0-2-36 / 7A-Z-0-2-22	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	CAP	700022	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1"-CAP-700023-SS10-NI	1/2"-CAP-460101-SS10-NI	7A-Z-0-2-36 / 7A-Z-0-2-07	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	CAP	700023	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1.1/2"-CAP-700003-SS10-NI	DISTRIBUTION	7A-Z-0-2-36	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	CAP	700025	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	3/4"-CAP-700004-SS10-NI	UP-3901	7A-Z-0-2-36 / 7A-Z-0-2-02	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	CAP	700026	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	3/4"-CAP-700004-SS10-NI	UP-3902	7A-Z-0-2-36 / 7A-Z-0-2-02	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	CAP	900107	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	3/4"-CAP-700020-SS10-NI	AT-9001	7A-Z-0-2-06	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	CAP	380104	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1/2"-CAP-700007-SS10-NI	FGA-3801	7A-Z-0-2-01	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	CAP	380105	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1/2"-CAP-380104-SS10-NI	Junction Box TQ-3801	7A-Z-0-2-01	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	1
0	7A	1/2	CAP	380204	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1/2"-CAP-380104-SS10-NI	Junction Box TQ-3802	7A-Z-0-2-01	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	1
0	7A	1/2	CAP	380304	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1/2"-CAP-380104-SS10-NI	Junction Box TQ-3803	7A-Z-0-2-01	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	1
0	7A	1/2	CAP	390104	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1/2"-CAP-700006-SS10-NI	FGA-3804	7A-Z-0-2-02	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	1
0	7A	1/2	CAP	390204	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1/2"-CAP-700006-SS10-NI	FGA-3805	7A-Z-0-2-02	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	1
0	7A	1/2	CAP	390304	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1/2"-CAP-700006-SS10-NI	FGA-3806	7A-Z-0-2-02	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	1
0	7A	1/2	CAP	390105	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1/2"-CAP-390104-SS10-NI	Junction Box PTQ-3804	7A-Z-0-2-02	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	1
0	7A	1/2	CAP	390205	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1/2"-CAP-390104-SS10-NI	Junction Box PTQ-3805	7A-Z-0-2-02	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	1
0	7A	1/2	CAP	390305	SS10	NI	-	Clean Compressed Air / Ar Comprimido Limpo	HOLD 1	1/2"-CAP-390304-SS10-NI	Junction Box PTQ-3806	7A-Z-0-2-02	20	6,00	20,00	HOLD 1	30	HOLD 1	HOLD 1	HOLD 1	1









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																3. 3.					_
	Buildin g / Diam./Diâm. g / (pol) A 7A 3/4	LINE NUM	BER ID / ID	ENTIFICAÇ	ÇÃO DA LII	NHA	INSUL./		Dens. /	LINE INTERCONNECTION /	EXTREMIDADES DA LINHA		Typical O Oper		Operating I	/ Operação	Design/	_	Pressure Test /	Test Fluid /	NOTES /
REV.	/ g/		Fluid/ <i>Fluí</i> do	Number/ Número	Espec. / Espec.	Insul. Type / Tipo Isol.	ISOL.	Fluid. / Fluído	Dens. (kg/m³)	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp.	Pressure/ Pressão (barG)	de Teste (barG)	Fluído de Teste	NOTAS
REV.	rredio	(poi)					()		(kg/iii)				Normal	Normal Operating Pressure	Shut off	Shut off	Operating Temperature	Operating Pressure * 1.5	(but 0)		
А	7A	3/4	CHE	430001	SS5	NI	-	Cleaning or Neutralizing Chemicals/Prod. Químicos Limpeza ou Neutralização Cleaning or Neutralizing	HOLD 1	3/4"-CHE-430003-SS5-NI	TQ-7701-3	7A-Z-0-2-20 / 7A-Z-0-2-21	20	2,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
Α	7A	3/4	CHE	430002	SS5	NI	-	Cleaning or Neutralizing Chemicals/Prod. Químicos Limpeza ou Neutralização Cleaning or Neutralizing	HOLD 1	3/4"-CHE-430003-SS5-NI	TQ-4601-2	7A-Z-0-2-20 / 7A-Z-0-2-07	20	2,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
Α	7A	3/4	CHE	430003	SS5	NI	-	Cleaning or Neutralizing Chemicals/Prod. Químicos Limpeza ou Neutralização	HOLD 1	BD-4301	DISTRIBUTION	7A-Z-0-2-20	20	2,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	









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	LINE NUM	BER ID / ID	ENTIFICAÇ	ÇÃO DA LII	NHA	INSUL./		Dens. /	LINE INTERCONNECTION /	EXTREMIDADES DA LINHA				Operating	/ Operação	Design	Projeto	Pressure Test /	Test Fluid	NOTES /
g,	Diam./ <i>Diâm</i> .						Fluid. / Fluído		From / De	To / Para	P&ID / Fluxograma	Temp. / Temp.	Pressure/ Pressão	Temp. / Temp.	Pressure/ Pressão	Temp. / Temp.	Pressure/ Pressão	de Teste	Fluído de Teste	NOTAS
Prédio	(pol)	uo	Numero	Lapec.	Tipo isoi.	(mm)		(kg/m³)				(°C)	(barG)	(°C)	(barG)	(°C)	(barG)	(barG)		4
												Normal Operating Temperatur e	Normal Operating Pressure	Shut off Temperatur e	Shut off Pressure	Operating Temperature + 10°C	Operating Pressure * 1.5			
7A	3/4	CIPS	390120	SS10	PP	HOLD 1	Clean in Place Supply / CIP Alimentação	HOLD 1	3/4"-CIPS-770102-SS10-PP	TP-3901-1	7A-Z-0-2-03	80	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
7A	3/4	CIPS	390121	SS3	₽₽	HOLD-1	Clean in Place Supply / CIP Alimentação	HOLD-1	TP-3901-1	XV-390116B	7 A-Z-0-2-03	80	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	Canceled
7A	1	CIPS	470105	SS10	PP	HOLD 1	Clean in Place Supply / CIP Alimentação	HOLD 1	1"-CIPS-770101-SS10-PP	STA-4701	7A-Z-0-2-22	80	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
7A	1	CIPS	770101	SS10	PP	HOLD 1	Clean in Place Supply / CIP Alimentação	HOLD 1	CIP-7701	1"-CIPS-470105-SS10-PP	7A-Z-0-2-21 / 7A-Z-0-2-22	80	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
7A	3/4	CIPS	770102	SS10	PP	HOLD 1	Clean in Place Supply / CIP Alimentação	HOLD 1	CIP-7701	3/4"-CIPS-390120-SS10-PP	7A-Z-0-2-21 / 7A-Z-0-2-03	80	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
	7A 7A 7A	Buildin g / Prédio Diam./Diâm. (pol) 7A 3/4 7A 3/4 7A 1 7A 1	Buildin g / Prédio Diam./Diâm. (pol) Fluid/Fluí do 7A 3/4 CIPS 7A 3/4 CIPS 7A 1 CIPS 7A 1 CIPS	Buildin g / Prédio Diam./Diâm. (pol) Fluid/Fluí do Number/ Número 7A 3/4 CIPS 390120 7A 3/4 CIPS 390124 7A 1 CIPS 470105 7A 1 CIPS 770101	Buildin g / Prédio Diam./Diâm. (pol) Fluid/Flui do Number/ Número Espec. / Espec. 7A 3/4 CIPS 390120 SS10 7A 3/4 CIPS 390121 SS3 7A 1 CIPS 470105 SS10 7A 1 CIPS 770101 SS10	g / Prédio Diam. Diam. (pol) Fluidifiui do Número Espec. / Espec. Insul. Type / Tipo Isol. 7A 3/4 CIPS 390120 SS10 PP 7A 3/4 CIPS 390121 SS3 PP 7A 1 CIPS 470105 SS10 PP 7A 1 CIPS 770101 SS10 PP	Buildin g / Prédio Diam./Diâm. Fluid/Flui do Number/	Buildin g / Prédio Diam./Diâm. Fluid/Flui do Número Espec. Insul. Type / Tipo Isol. Fluid. Fluido Fluid. Fl	Buildin g / Prédio Diam./Diâm. (pol) Fluid/Flui do Número Espec. Insul. Type / Tipo Isol. (mm) Fluid. / Fluido Hold 1 Fluido Hold 1 Fluido Hold 1 Hold 1	Building Diam./Diâm. Fluid/Flui do Número Espec. Insul. Type Tipo Isol. (mm) Fluid. Fluid. Fluid. Fluid. Fluid. Fluid. Fluid. From Dens. (kg/m²) From Dens. Dens. (kg/m²) From Dens. Dens.	Buildin g Prédio Diam./Diâm. Fluid/Flui (pol) Pul	Building Prédio Diam./Diâm. Fluid/Flui (pol) Prédio Diam./Diâm. Prédio Diam./Diâm. Prédio Diam./Diâm. Prédio Diam./Diâm. Diam./D	Dens. Palid Fluid Flui	Building Prédic Préside Prédic Préside Prédic Préside Prédic Préside Préside Prédic Préside Présid	Diam. Diam	Diam/Diam/Prédio Diam/Diam/Prédio Prédio Prédio	$ \frac{\text{Bullding of prediction}}{\text{g if prediction}} = \text{Bull of the bull of $	Description Diam/Diam Pictor Pressure Pressur	Description Description	Description Diam Diam









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		LINE NUM	IBER ID / IC	ENTIFICAÇ	ÃO DA LII	NHA	INSUL./		Dens./	LINE INTERCONNECTION /	EXTREMIDADES DA LINHA		Typical O Oper		Operating	Operação	Design/	Projeto	Pressure Test /	Test Fluid /	NOTES /
REV.	/ g/	Diam./Diâm.	Fluid/ <i>Fluí</i> do	Number/ Número	Espec. /	Insul. Type / Tipo Isol.	ISOL.	Fluid. / <i>Fluído</i>	Dens. (kg/m³)	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp.	Pressure/ Pressão (barG)	Pressão de Teste (barG)	Fluído de Teste	NOTAS
		w /											Normal Operating Temperatur	Normal	Shut off	Shut off Pressure	Operating Temperature + 10°C	Operating Pressure * 1.5			
0	7A	3/4	CIPR	390102	SS10	PP	HOLD 1	Clean in Place Return/ CIP Retorno	HOLD 1	3/4"-SFIC-390102-SS10-PP	3/4"-CIPR-390112-SS10-PP	7A-Z-0-2-03	80	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	CIPR	390104	SS10	PP	HOLD 1	Clean in Place Return/ CIP Retorno	HOLD 1	3/4"-SFIC-390104-SS10-PP	3/4"-CIPR-390112-SS10-PP	7A-Z-0-2-03	80	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	CIPR	390106	SS10	PP	HOLD 1	Clean in Place Return/ CIP Retorno	HOLD 1	3/4"-SFIC-390106-SS10-PP	3/4"-CIPR-390112-SS10-PP	7A-Z-0-2-03	80	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	CIPR	390112	SS10	PP	HOLD 1	Clean in Place Return/ CIP Retorno	HOLD 1	3/4"-SFIC-390113-SS10-PP	3/4"-CIPR-770105-SS10-PP	7A-Z-0-2-03	80	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1.1/2	CIPR	470107	SS10	PP	HOLD 1	Clean in Place Return/ CIP Retorno	HOLD 1	STA-4701	1 1/2"-CIPR-470108-SS10-PP	7A-Z-0-2-22	80	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1.1/2	CIPR	470108	SS10	PP	HOLD 1	Clean in Place Return/ CIP Retorno	HOLD 1	1 1/2"-CIPR-470107-SS10-PP	1 1/2"-CIPR-770103-SS10-PP	7A-Z-0-2-22	80	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1.1/2	CIPR	770103	SS10	PP	HOLD 1	Clean in Place Return/ CIP Retorno	HOLD 1	1 1/2"-CIPR-470108-SS10-PP	CIP-7701 (BC-7701-2)	7A-Z-0-2-22 / 7A-Z-0-2-21	80	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	CIPR	770104	SS10	PP	HOLD 1	Clean in Place Return/ CIP Retorno	HOLD 1	XV-390120	XV-770109B	7A-Z-0-2-04/7A-Z-0-2-21	80	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	CIPR	770105	SS10	PP	HOLD 1	Clean in Place Return/ CIP Retorno	HOLD 1	3/4"-CIPR-390112-SS10-PP	XV-770110	7A-Z-0-2-03/7A-Z-0-2-21	80	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	









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		LINE NUM	BER ID / IDI	ENTIFICAÇ	ÃO DA LII	VHA	INSUL. /		Dens. /	LINE INTERCONNECTION /	EXTREMIDADES DA LINHA		Typical O	perating / ração	Operating	/ Operação	Design/	Projeto	Pressure Test /	Test Fluid /	NOTES /
REV./	Buildin g / Prédio	Diam./ <i>Diâm.</i>	Fluid/ <i>Fluí</i> do	Number/ Número	Espec. / Espec.	Insul. Type / Tipo Isol.	ISOL.	Fluid. / Fluído	Dens. (kg/m³)	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp.	Pressure/ Pressão (barG)	Pressão de Teste (barG)	Fluído de Teste	NOTAS
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,, ,							, ,				Normal Operating Temperatur	Normal Operating	Shut off Temperatur e	Shut off	Operating	Operating Pressure * 1.5			
0	7A	3/4	CIPR/SFI C	390102	SS3	PP.	HOLD 1	CIP Keturn and Clean Steam Cond./ Retorno de CIP e Cond. CIP Keturnant CIBan Steam	HOLD 1	3/4"-PR-390101-SS3-CC	3/4"-CIPR/SFIC-110102- SS3-PP	7A-Z-0-2-04	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	Canceled
0	7A	3/4	CIPR/SFI C	110102	SS3	PP	HOLD 1		HOLD 1	3/4"-CIPR/SFIC-390102-SS3-PP	XV-110101	7A-Z-0-2-04	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	Canceled
0	7A	3/4	CIPR/SFI C	390123	SS10	PP	HOLD 1	1	HOLD 1	XV-390123	XV-390120	7A-Z-0-2-04	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	









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		LINE NUM	IBER ID / IL	DENTIFICAÇ	ÇÃO DA LIN	IHA	INSUL./		Dens. /	LINE INTERCONNECTION /	EXTREMIDADES DA LINHA		Typical O Oper		Operating	/ Operação	Design/	Projeto	Pressure Test /	Test Fluid /	NOTES /
REV.	/ 9 /	Diam./Diâm.	Fluid/ <i>Fluí</i> do	Number/ Número	Espec. / Espec.	Insul. Type / Tipo Isol.	ISOL.	Fluid. / <i>Fluído</i>	Dens. (kg/m³)	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp.	Pressure/ Pressão (barG)	Pressão de Teste (barG)	Fluído de Teste	NOTAS
NE V		W - /					,		(3 /				Normal Operating Temperatur e	Normal Operating Pressure	Shut off	Shut off Pressure	Operating	Operating Pressure * 1.5			
A	7A	1.1/2	D	390307	SS5	NI	-	Drain/ Dreno	HOLD 1	TCU-3903	SANITARY WASTE	7A-Z-0-2-10	20	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	1	D	630104	SS5	NI	-	Drain/ Dreno	HOLD 1	SAMPLE (HV-630104)	SANITARY WASTE	7A-Z-0-2-23	20	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	D	630106	SS5	NI	-	Drain/ Dreno	HOLD 1	RO-6301	SANITARY WASTE	7A-Z-0-2-23	20	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	2	D	630107	SS5	NI	-	Drain/ Dreno	HOLD 1	RO-6301	SANITARY WASTE	7A-Z-0-2-23	20	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	1	D	630108	SS5	NI	-	Drain/ Dreno	HOLD 1	BREAK TANK (DRAINAGE)	SANITARY WASTE	7A-Z-0-2-23	20	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	D	640138	SS5	PP	-	Drain/ Dreno	HOLD 1	1.1/2"-VEP-640129-CS2-PP	1/2"-D-640139-SS5-PP	7A-Z-0-2-24	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	D	640139	SS5	PP	-	Drain/ Dreno	HOLD 1	1.1/2"-VEP-640137-SS5-PP	DRAIN	7A-Z-0-2-24	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	D	650128	SS5	PP	-	Drain/ Dreno	HOLD 1	1/2"-VEP-650124-CS2-PP	DRAIN	7A-Z-0-2-27	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	D	650128	SS5	PP	-	Drain/ Dreno	HOLD 1	1/2"-VEP-650125-CS2-PP	DRAIN	7A-Z-0-2-27	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	









PRD-PRO-LIS-001	0
CLIENT NR:	REV.:
E-569-B7A-PRO-330-002	12 01 35
DOC NR:	SHEET: 12 of 36

REV. / Prédio Di	LINE NUM	BER ID / ID	ENTIFICAÇ	ÃO DA LII	NHA	INSUL./		Dens. /	LINE INTERCONNECTION /	EXTREMIDADES DA LINHA		Typical O Oper		Operating	/ Operação	Design/	Projeto	Pressure Test /	Test Fluid /	NOTES /	
	/ g/	Diam./ <i>Diâm.</i> (pol)	Fluid/ <i>Fluí</i> do	Number/ Número	Espec. / Espec.	Insul. Type / Tipo Isol.	(mm)	Fluid. / Fluído	Dens. (kg/m³)	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp.	Pressure/ Pressão (barG)	Pressão de Teste (barG)	Fluído de Teste	NOTAS
													Normal Operating Temperatur e	Normal Operating Pressure	Shut off Temperatur e	Shut off Pressure	Operating Temperature + 10°C	Operating Pressure * 1.5			
0	7A	4	Ð₩	610001	PP1	NI	-	Industrial Water/ Água Industrial	998,25	1"-DW-610001-PP1-NI	RO-6301	7A Z 0 2 23	25	4,0	HOLD-1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	Canceled
А	7A	3/4	DW	900103	PP1	NI	-	Industrial Water/ Água Industrial	998,25	3/4"-DW-610014-PP1-NI	AT-9001	7A-Z-0-2-06	25	2,1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	3/4	DW	900203	PP1	NI	-	Industrial Water/ Água Industrial	998,25	3/4"-DW-610015-PP1-NI	AT-9002	7A-Z-0-2-05	25	2,1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	









DOC NR:	SHEET:
E-569-B7A-PRO-330-002	13 of 36
CLIENT NR:	REV.:
PRD-PRO-LIS-001	0

																Fr	D-PRO-LIS	3-00 I			<u>U</u>
		LINE NUM	IBER ID / ID	ENTIFICAÇ	ÃO DA LII	VHA	INSUL./		Dens./	LINE INTERCONNECTION /	EXTREMIDADES DA LINHA		Typical O Oper		Operating I	Operação	Design/	Projeto	Pressure Test /	Test Fluid /	/ NOTES /
REV./ REV.	Buildin g / Prédio	Diam./Diâm.	Fluid/ <i>Fluí</i> do	Number/ Número	Espec. / Espec.	Insul. Type / Tipo Isol.	ISOL.	Fluid. / Fluído	Dens. (kg/m³)	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp.	Pressure/ Pressão (barG)	Pressão de Teste (barG)	Fluído de Teste	NOTAS
KLV.	7702.0	(123)					()		(,				Normal Operating Temperatur	Normal Operating Pressure	Shut off Temperatur e	Shut off Pressure	Operating	Operating Pressure * 1.5			
0	7A	1/2; 1/4	GNP	110526	SS10	NI	-	Nitrogen Gas/ Nitrogênio Gasoso	HOLD 1	1/2"-GNP-860008-SS10-NI	LYO-1105	7A-Z-0-2-08	20	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	GNP	110527	SS10	NI	-	Nitrogen Gas/ Nitrogênio Gasoso	HOLD 1	1/2"-GNP-860008-SS10-NI	LYO-1105	7A-Z-0-2-08	20	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	GNP	110532	SS10	NI	-	Nitrogen Gas/ Nitrogênio Gasoso	HOLD 1	1/2"-GNP-110526-SS10-NI	LYO-1105	7A-Z-0-2-08	20	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2; 1/4	GNP	110626	SS10	NI	-	Nitrogen Gas/ Nitrogênio Gasoso	HOLD 1	1/2"-GNP-860007-SS10-NI	LYO-1106	7A-Z-0-2-09	20	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	GNP	110627	SS10	NI	-	Nitrogen Gas/ Nitrogênio Gasoso	HOLD 1	1/2"-GNP-860007-SS10-NI	LYO-1106	7A-Z-0-2-09	20	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	GNP	110632	SS10	NI	-	Nitrogen Gas/ Nitrogênio Gasoso	HOLD 1	1/2"-GNP-110626-SS10-NI	LYO-1106	7A-Z-0-2-09	20	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	GNP	860001	SS10	NI	-	Nitrogen Gas/ Nitrogênio Gasoso	HOLD 1	X-2600	FGA-8600-1	7A-Z-0-2-34	20	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	GNP	860002	SS10	NI	-	Nitrogen Gas/ Nitrogênio Gasoso	HOLD 1	1"-GNP-860001-SS10-NI	1"-GNP-860003-SS10-NI	7A-Z-0-2-34	20	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	GNP	860003	SS10	NI	-	Nitrogen Gas/ Nitrogênio Gasoso	HOLD 1	FGA-8600-1	FGA-8600-2	7A-Z-0-2-34	20	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	GNP	860004	SS10	NI	-	Nitrogen Gas/ Nitrogênio Gasoso	HOLD 1	1"-GNP-860003-SS10-NI	1"-GNP-860005-SS10-NI	7A-Z-0-2-34	20	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	GNP	860005	SS10	NI	-	Nitrogen Gas/ Nitrogênio Gasoso	HOLD 1	FGA-8600-2	DISTRIBUITION	7A-Z-0-2-34	20	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	GNP	860007	SS10	NI	-	Nitrogen Gas/ Nitrogênio Gasoso	HOLD 1	1"-GNP-860005-SS10-NI	1/2"-GNP-110627-SS10-NI	7A-Z-0-2-34 / 7A-Z-0-2-09	20	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	GNP	860008	SS10	NI	-	Nitrogen Gas/ Nitrogênio Gasoso	HOLD 1	1"-GNP-860005-SS10-NI	1/2"-GNP-110527-SS10-NI	7A-Z-0-2-34 / 7A-Z-0-2-08	20	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	









DOC NR:	SHEET:
E-569-B7A-PRO-330-002	14 01 35
CLIENT NR:	REV.:
PRD-PRO-LIS-001	0

																PR	D-PRO-LIS	-001		0)
		LINE NUM	IBER ID / IL	DENTIFICAÇ	ÇÃO DA LIN	NHA	INSUL./		Dens. /	LINE INTERCONNECTION /	EXTREMIDADES DA LINHA		Typical Oper		Operating	/ Operação	Design	Projeto	Pressure Test /	Test Fluid /	NOTES /
REV. /	Buildin g / Prédio	Diam./ <i>Diâm.</i> (pol)	Fluid/ <i>Fluí</i> do	Number/ Número	Espec. / Espec.	Insul. Type / Tipo Isol.	(mm)	Fluid. / <i>Fluído</i>	Dens. (kg/m³)	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp.	Pressure/ Pressão (barG)	Pressão de Teste (barG)	Fluído de Teste	NOTAS
													Normal Operating Temperatur e	Normal Operating Pressure	Shut off Temperatur e	Shut off Pressure	Operating Temperature + 10°C	Operating Pressure * 1.5			
А	7A	2	GW0S	110202	CS1	сс	HOLD 1	Chilled Water Supply / Água Gelada Alimentação	1000	2"-GW0S-9800168-CS1-CC	TE-1102	7A-Z-0-2-04	1 - 4	2,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	2	GW0S	110517	CS1	СС	HOLD 1	Chilled Water Supply / Água Gelada Alimentação	1000	2 1/2"-GW0S-9800170-CS1-CC	LYO-1105	7A-Z-0-2-08	1 - 4	2,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	1/2	GW0S	110518	CS1	СС	HOLD 1	Chilled Water Supply / Água Gelada Alimentação	1000	3/4"-GW0S-110523-CS1-CC	LYO-1105	7A-Z-0-2-08	1 - 4	2,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	3/4;1/2	GW0S	110519	CS1	СС	HOLD 1	Chilled Water Supply / Água Gelada Alimentação	1000	3/4"-GW0S-110523-CS1-CC	LYO-1105	7A-Z-0-2-08	1 - 4	2,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	GW0S	110523	CS1	сс	HOLD 1	Chilled Water Supply / Água Gelada Alimentação	1000	2 1/2"-GW0S-9800170-CS1-CC	LYO-1105	7A-Z-0-2-08	1 - 4	2,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	2	GW0S	110617	CS1	СС	HOLD 1	Chilled Water Supply / Água Gelada Alimentação	1000	2 1/2"-GW0S-9800172-CS1-CC	LYO-1106	7A-Z-0-2-09	1 - 4	2,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	1/2	GW0S	110618	CS1	СС	HOLD 1	Chilled Water Supply / Água Gelada Alimentação	1000	3/4"-GW0S-110623-CS1-CC	LYO-1106	7A-Z-0-2-09	1 - 4	2,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	3/4 ; 1/2	GW0S	110619	CS1	СС	HOLD 1	Chilled Water Supply / Água Gelada Alimentação	1000	3/4"-GW0S-110623-CS1-CC	LYO-1106	7A-Z-0-2-09	1 - 4	2,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	GW0S	110623	CS1	СС	HOLD 1	Chilled Water Supply / Água Gelada Alimentação	1000	2 1/2"-GW0S-9800172-CS1-CC	LYO-1106	7A-Z-0-2-09	1 - 4	2,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	GW0S	380202	SS5	СС	HOLD 1	Chilled Water Supply / Água Gelada Alimentação	1000	1"-GW0S-9800188-CS1-CC	TQ-3802	7A-Z-0-2-01	1 - 4	2,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	1
0	7A	1	GW0S	380302	SS5	СС	HOLD 1	Chilled Water Supply / Água Gelada Alimentação	1000	1"-GW0S-9800225-CS1-CC	TQ-3803	7A-Z-0-2-01	1 - 4	2,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	1
0	7A	1	GW0S	390102	SS5	СС	HOLD 1	Chilled Water Supply / Água Gelada Alimentação	1000	1"-GW0S-9800184-CS1-CC	PTQ-3804	7A-Z-0-2-02	1 - 4	2,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	1	GW0S	390202	SS5	СС	HOLD 1	Chilled Water Supply / Água Gelada Alimentação	1000	1"-GW0S-9800186-CS1-CC	PTQ-3805	7A-Z-0-2-02	1 - 4	2,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	1	GW0S	390302	CS1	СС	HOLD 1	Chilled Water Supply / Água Gelada Alimentação	1000	1"-GW0S-9800195-CS1-CC	TCU-3903	7A-Z-0-2-10	1 - 4	2,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	1	GW0S	640120	CS1	СС	HOLD 1	Chilled Water Supply / Água Gelada Alimentação	1000	3"-GW0S-980090-CS1-CC	MES-6401	7A-Z-0-2-24	1 - 4	2,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	3	GW0S	640130	CS1	СС	HOLD 1	Chilled Water Supply / Água Gelada Alimentação	1000	3"-GW0S-980090-CS1-CC	3"-GW0R-980091-CS1-CC	7A-Z-0-2-24	1 - 4	2,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	2	GW0S	640139	SS5	СС	HOLD 1	Chilled Water Supply / Água Gelada Alimentação	1000	2"-GW0S-9800236-CS1-CC	TC-6404	7A-Z-0-2-26	1 - 4	2,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	2	GW0S	640141	SS5	СС	HOLD 1	Chilled Water Supply / Água Gelada Alimentação	1000	2"-GW0S-9800178-CS1-CC	TC-6402	7A-Z-0-2-26	1 - 4	2,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	2	GW0S	640143	SS5	СС	HOLD 1	Chilled Water Supply / Água Gelada Alimentação	1000	2"-GW0S-9800192-CS1-CC	TC-6403	7A-Z-0-2-26	1 - 4	2,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	GW0S	650121	CS1	СС	HOLD 1	Chilled Water Supply / Água Gelada Alimentação	1000	1"-GW0S-9800198-CS1-CC	CSG-6501	7A-Z-0-2-27	1 - 4	2,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	2	GW0S	900105	CS1	СС	HOLD 1	Chilled Water Supply / Água Gelada Alimentação	1000	2"-GW0S-9800176-CS1-CC	AT-9001	7A-Z-0-2-06	1 - 4	2,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
Α	7A	2	GW0S	900205	CS1	СС	HOLD 1	Chilled Water Supply / Água Gelada Alimentação	1000	2"-GW0S-9800160-CS1-CC	AT-9002	7A-Z-0-2-05	1 - 4	2,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	









DOC NR:	SHEET:
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CLIENT NR:	REV.:
PRD-PRO-LIS-001	0

																PF	RD-PRO-LIS	-001			0
		LINE NUM	BER ID / ID	ENTIFICAÇ	ÇÃO DA LII	VHA	INSUL./		Dens./	LINE INTERCONNECTION	I EXTREMIDADES DA LINHA		Typical O Oper		Operating	/ Operação	Design/	Projeto	Pressure Test /	Test Fluid /	NOTES /
REV./	Buildin g / Prédio	Diam./Diâm.	Fluid/ <i>Fluí</i> do	Number/ Número	Espec. / Espec.	Insul. Type / Tipo Isol.	(mm)	Fluid. / Fluído	Dens. (kg/m³)	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp.	Pressure/ Pressão (barG)	Pressão de Teste (barG)	Fluído de Teste	NOTAS
													Normal Operating Temperatur	Normal Operating Pressure	Shut off Temperatur e	Shut off Pressure	Operating Temperature + 10°C	Operating Pressure * 1.5			
А	7A	2	GW0R	110203	CS1	СС	HOLD 1	Chilled Water Return / Água Gelada Retorno	999,9 - 999,7	TE-1102	2"-GW0R-9800169-CS1-CC	7A-Z-0-2-04	7 - 10	1,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
Α	7A	2	GW0R	110520	CS1	СС	HOLD 1	Chilled Water Return / Água Gelada Retorno	999,9 - 999,7	LYO-1105	2 1/2"-GW0R-9800171-CS1-CC	7A-Z-0-2-08	7 - 10	1,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	1/2	GW0R	110521	CS1	СС	HOLD 1	Chilled Water Return / Água Gelada Retorno	999,9 - 999,7	LYO-1105	3/4"-GW0R-110524-CS1-CC	7A-Z-0-2-08	7 - 10	1,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	1/2; 3/4	GW0R	110522	CS1	СС	HOLD 1	Chilled Water Return / Água Gelada Retorno	999,9 - 999,7	LYO-1105	3/4"-GW0R-110524-CS1-CC	7A-Z-0-2-08	7 - 10	1,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	GW0R	110524	CS1	СС	HOLD 1	Chilled Water Return / Água Gelada Retorno	999,9 - 999,7	LYO-1105	2 1/2"-GW0R-9800171-CS1-CC	7A-Z-0-2-08	7 - 10	1,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	2	GW0R	110620	CS1	СС	HOLD 1	Chilled Water Return / Água Gelada Retorno	999,9 - 999,7	LYO-1106	2 1/2"-GW0R-9800173-CS1-CC	7A-Z-0-2-09	7 - 10	1,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	1/2	GW0R	110621	CS1	СС	HOLD 1	Chilled Water Return / Água Gelada Retorno	999,9 - 999,7	LYO-1106	3/4"-GW0R-110624-CS1-CC	7A-Z-0-2-09	7 - 10	1,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
A	7A	1/2; 3/4	GW0R	110622	CS1	СС	HOLD 1	Chilled Water Return / Água Gelada Retorno	999,9 - 999,7	LYO-1106	3/4"-GW0R-110624-CS1-CC	7A-Z-0-2-09	7 - 10	1,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	GW0R	110624	CS1	СС	HOLD 1	Chilled Water Return / Água Gelada Retorno	999,9 - 999,7	LYO-1106	2 1/2"-GW0R-9800173-CS1-CC	7A-Z-0-2-09	7 - 10	1,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	GW0R	380203	SS5	СС	HOLD 1	Chilled Water Return / Água Gelada Retorno	999,9 - 999,7	TQ-3802	1"-GW0R-9800189-CS1-CC	7A-Z-0-2-01	7 - 10	1,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	1
0	7A	1	GW0R	380303	SS5	СС	HOLD 1	Chilled Water Return / Água Gelada Retorno	999,9 - 999,7	TQ-3803	1"-GW0R-9800226-CS1-CC	7A-Z-0-2-01	7 - 10	1,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	1
A	7A	1	GW0R	390103	SS5	СС	HOLD 1	Chilled Water Return / Água Gelada Retorno Chilled Water Return / Água	999,9 - 999,7 999,9 -	PTQ-3804	1"-GW0R-9800185-CS1-CC	7A-Z-0-2-02	7 - 10	1,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
A	7A	1	GW0R	390203	SS5	СС	HOLD 1	Gelada Retorno Chilled Water Return / Água	999,9 - 999,9 -	PTQ-3805	1"-GW0R-9800183-CS1-CC	7A-Z-0-2-02	7 - 10	1,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	GW0R	390301	CS1	СС	HOLD 1	Gelada Retorno Chilled Water Return / Áqua	999,7	TCU-3903	1"-GW0R-9800195-CS1-CC	7A-Z-0-2-10	7 - 10	1,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
A	7A	1	GW0R	640121	CS1	CC	HOLD 1	Gelada Retorno Chilled Water Return / Água	999,7	MES-6401	3"-GW0R-980091-CS1-CC	7A-Z-0-2-24	7 - 10	1,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	2	GW0R	650140	SS5	СС	HOLD 1	Gelada Retorno Chilled Water Return / Água	999,7	TC-6404	2"-GW0R-9800237-CS1-CC	7A-Z-0-2-26	7 - 10	1,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	2	GW0R	650142	SS5	CC	HOLD 1	Gelada Retorno Chilled Water Return / Água	999,7	TC-6402	2"-GW0R-9800179-CS1-CC	7A-Z-0-2-26	7 - 10	1,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	2	GW0R	650144	SS5	CC	HOLD 1	Gelada Retorno Chilled Water Return / Água	999,7	TC-6403	2"-GW0R-9800193-CS1-CC	7A-Z-0-2-26	7 - 10	1,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	GW0R	650122	CS1	CC	HOLD 1	Gelada Retorno Chilled Water Return / Água	999,7 999,9 -	CSG-6501	1"-GW0R-9800199-CS1-CC	7A-Z-0-2-27	7 - 10	1,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
A	7A	2	GW0R	900104	CS1	CC	HOLD 1	Gelada Retorno Chilled Water Return / Água	999,7 999,9 -	AT-9001	2"-GW0R-9800177-CS1-CC	7A-Z-0-2-06	7 - 10	1,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	2	GW0R	900204	CS1	CC	HOLD 1	Gelada Retorno	999,7	AT-9002	2"-GW0R-9800238-CS1-CC	7A-Z-0-2-05	7 - 10	1,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	









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CLIENT NR:	REV.:
PRD-PRO-LIS-001	0

																PF	RD-PRO-LIS	S-001			0
REV. / REV. / Prédio 0 7A 0 7	LINE NU	MBER ID / ID	ENTIFICAÇ	ÇÃO DA LII	NHA	INSUL./		Dens. /	LINE INTERCONNECTION /	EXTREMIDADES DA LINHA		Typical O Oper	perating / ração	Operating	/ Operação	Design/	Projeto	Pressure Test /	Test Fluid /	NOTES /	
	/ g/	Diam./Diâm (pol)	Fluid/ <i>Fluí</i> do	Number/ Número	Espec. / Espec.	Insul. Type / Tipo Isol.	(mm)	Fluid. / Fluído	Dens. (kg/m³)	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp.	Pressure/ Pressão (barG)	Pressão de Teste (barG)	Fluído de Teste	NOTAS
													Normal Operating Temperatur e	Normal Operating Pressure	Shut off Temperatur e	Shut off Pressure	Operating Temperature + 10°C	Operating Pressure * 1.5			
0	7A	4	HWFI	640101	SS10	НС	HOLD 1	Hot Water for Injection / Água para Injetáveis Quente	971,8 - 968,6	TQ-6401	4"-HWFI-640103-SS10-HC	7A-Z-0-2-25	80 - 85	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	2	HWFI	640102	SS10	НС	HOLD 1	Hot Water for Injection / Água para Injetáveis Quente	971,8 - 968,6	4"-HWFI-640101-SS10-HC	2"-HWFI-640106-SS10-HC	7A-Z-0-2-25	80 - 85	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	4	HWFI	640103	SS10	НС	HOLD 1	Hot Water for Injection / Água para Injetáveis Quente	971,8 - 968,6	4"-HWFI-640101-SS10-HC	BC-6401-1/2	7A-Z-0-2-25	80 - 85	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3	HWFI	640104	SS10	НС	HOLD 1	Hot Water for Injection / Água para Injetáveis Quente	971,8 - 968,6	BC-6401-1/2	3"-HWFI-640105-SS10-HC	7A-Z-0-2-25	80 - 85	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3, 2.1/2	HWFI	640105	SS10	НС	HOLD 1	Hot Water for Injection / Água para Injetáveis Quente	971,8 - 968,6	SK-6401 (3"-HWFI-640104-SS10- HC)	SK-6401 (1.1/2"-HWFI- 640110/11-SS10-HC)	7A-Z-0-2-25 / 7A-Z-0-2-26 / 7A-Z-0-2-08 / 7A- Z-0-2-09	80 - 85	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	2	HWFI	640106	SS10	НС	HOLD 1	Hot Water for Injection / Água para Injetáveis Quente	971,8 - 968,6	2"-HWFI-640102-SS10-HC	BC-6401-3/4	7A-Z-0-2-25	80 - 85	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	2	HWFI	640107	SS10	НС	HOLD 1	Hot Water for Injection / Água para Injetáveis Quente	971,8 - 968,6	BC-6401-3/4	2"-HWFI-640108-SS10-HC	7A-Z-0-2-25	80 - 85	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	2	HWFI	640108	SS10	НС	HOLD 1	Hot Water for Injection / Água para Injetáveis Quente	971,8 - 968,6	2"-HWFI-640107-SS10-HC	TC-6401	7A-Z-0-2-25	80 - 85	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	2; 1.1/2	HWFI	640109	SS10	НС	HOLD 1	Hot Water for Injection / Água para Injetáveis Quente	971,8 - 968,6	SK-6401 (TC-6401)	SK-6401 (LOOP - RETURN)	7A-Z-0-2-25 /7A-Z-0-2-26/7A-Z-0-2-27/7A-Z- 0-2-21/7A-Z-0-2-07/7A-Z-2-01/7A-Z-0-2-04	80 - 85	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1.1/2	HWFI	640110	SS10	НС	HOLD 1	Hot Water for Injection / Água para Injetáveis Quente	971,8 - 968,6	2.1/2"-HWFI-640105-SS10-HC	TQ-6401	7A-Z-0-2-25	80 - 85	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1.1/2	HWFI	640111	SS10	НС	HOLD 1	Hot Water for Injection / Água para Injetáveis Quente	971,8 - 968,6	2.1/2"-HWFI-640105-SS10-HC	TQ-6401	7A-Z-0-2-25	80 - 85	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3	HWFI	640112	SS10	НС	HOLD 1	Hot Water for Injection / Água para Injetáveis Quente	971,8 - 968,6	XV-640103	LYO-1105	7A-Z-0-2-08	80 - 85	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3	HWFI	640113	SS10	НС	HOLD 1	Hot Water for Injection / Água para Injetáveis Quente	971,8 - 968,6	XV-640104	LYO-1106	7A-Z-0-2-09	80 - 85	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	HWFI	640114	SS10	НС	HOLD 1	Hot Water for Injection / Água para Injetáveis Quente	971,8 - 968,6	XV-640105	CSG-6501	7A-Z-2-26/7A-Z-0-2-27	80 - 85	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1.1/2	HWFI	640115	SS10	НС	HOLD 1	Hot Water for Injection / Água para Injetáveis Quente	971,8 - 968,6	XV-640106	TQ-7701-01	7A-Z-0-2-26/7A-Z-0-2-21	80 - 85	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	HWFI	640116	SS10	НС	HOLD 1	Hot Water for Injection / Água para Injetáveis Quente	971,8 - 968,6	XV-640107	LV-4601	7A-Z-0-2-26/7A-Z-0-2-07	80 - 85	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	HWFI	640117	SS10	НС	HOLD 1	Hot Water for Injection / Água para Injetáveis Quente	971,8 - 968,6	XV-640110	ML-1101	7A-Z-0-2-25 / 7A-Z-0-2-04	80 - 85	2,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
SS10	7A	1	HWFI	640127	SS10	НС	HOLD 1	Hot Water for Injection / Água para Injetáveis Quente	971,8 - 968,6	MES-6401	TQ-6401	7A-Z-0-2-24 / 7A-Z-0-2-25	80 - 85	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	









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CLIENT NR:	REV.:
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		LINE NUMI	BER ID / ID	ENTIFICAÇ	CÃO DA LII	VHA	INSUL. /		Dens. /	LINE INTERCONNECTION /	EXTREMIDADES DA LINHA		Typical O	perating / ração	Operating	/ Operação	Design/	Projeto	Pressure Test /	Test Fluid /	NOTES /
REV./		Insul. Type / Tipo Isol.	ISOL.	Fluid. / Fluído	Dens. (kg/m³)	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp.	Pressure/ Pressão (barG)	Pressão de Teste (barG)	Fluído de Teste	NOTAS				
													Normal Operating Temperatur e	Normal Operating Pressure	Shut off Temperatur e	Shut off Pressure	Operating Temperature + 10°C	Operating Pressure * 1.5			
А	7A	1.1/2	IS8B	640122	CS2	НС	HOLD 1	Plant Steam (High Pressure)/Vapor Industrial (Alta Plant Presamo High	4,6	1 1/2"-IS8B-790314-CS2-HC	MES-6401	7A-Z-0-2-24	175	8,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	2.1/2; 1.1/2	IS8B	650107	CS2	HC	HOLD 1	Pressure)/Vapor Industrial (Alta Pressão)	4,6	2.1/2"-IS8B-790313-CS2-HC	CSG-6501	7A-Z-0-2-27	175	8,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	









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CLIENT NR:	REV.:
PRD-PRO-LIS-001	0

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		LINE NUMI	BER ID / ID	ENTIFICAÇ	ÃO DA LIN	NHA	INSUL. /		Dens. /	LINE INTERCONNECTION /	EXTREMIDADES DA LINHA		Typical O Oper		Operating	/ Operação	Design/	Projeto	Pressure Test /	Test Fluid /	NOTES /
RE RE		Diam./Diâm.	Fluid/ <i>Fluí</i> do	Number/ Número	Espec. /	Insul. Type Tipo Isol.	/ ISOL. (mm)	Fluid. / Fluído	Dens. (kg/m³)	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp.	Pressure/ Pressão (barG)	Pressão de Teste (barG)	Fluído de Teste	NOTAS
									,			Normal Operating Temperatur e	Normal Operating Pressure	Shut off Temperatur e	Shut off Pressure	Operating Temperature + 10°C	Operating Pressure * 1.5				
,	7A	1.1/2	C8B	640123	CS2	нс	HOLD 1	Condensate (High pressure)/ Condensado (Alta Pressão)	891,9	MES-6401	1 1/2"-C8B-930302-CS2-HC	7A-Z-0-2-24	175	8,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
,	7A	1.1/2	C8B	640131	CS2	HC	HOLD 1	Condensate (High pressure)/ Condensado (Alta Pressão)	891,9	1 1/2"-IS8B-640122-CS2-HC	1 1/2"-C8B-640123-CS2-HC	7A-Z-0-2-24	175	8,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
	7A	2.1/2; 1	C8B	650108	CS2	HC	HOLD 1	Condensate (High pressure)/ Condensado (Alta Pressão)	891,9	CSG-6501	2.1/2"-C8B-930303-CS2-HC	7A-Z-0-2-27	175	8,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
	7A	2.1/2	C8B	650120	CS2	НС	HOLD 1	Condensate (High pressure)/ Condensado (Alta Pressão)	891,9	2.1/2"-IS8B-650107-CS2-HC	2.1/2"-C8B-9650108-CS2-HC	7A-Z-0-2-27	175	8,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	









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CLIENT NR:	REV.:
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		LINE NUM	BER ID / ID	ENTIFICAÇ	ÇÃO DA LII	NHA	INSUL./		Dens. /	LINE INTERCONNECTION /	EXTREMIDADES DA LINHA		Typical O Oper		Operating	/ Operação	Design/	Projeto	Pressure Test /	Test Fluid /	NOTES /
REV.	/ 9 /	Diam./Diâm.	Fluid/ <i>Fluí</i> do	Number/ Número	Espec. / Espec.	Insul. Type / Tipo Isol.	(mm)	Fluid. / Fluído	Dens. (kg/m³)	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp. (°C)	Pressure/ Pressão	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp.	Pressure/ Pressão (barG)	Pressão de Teste (barG)	Fluído de Teste	NOTAS
REV.	Prédio	(pol)					(11111)		(kg/III-)				Normal Operating Temperatur	(barG) Normal Operating Pressure	Shut off Temperatur e	Shut off	Operating Temperature + 10°C	Operating Pressure * 1.5	(barg)		
А	7A	3/4	IS4B	390308	CS1	нс	HOLD 1	Plant Steam (Med. Pressure)/Vapor Ind. (Média Plant Steam (Med.	2,68	3/4"-IS4B-790204-CS1-HC	TCU-3903	7A-Z-0-2-10	152	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	IS4B	6401134	CS1	HC	HOLD 1	Pressure)/Vapor Ind. (Média	2,68	3/4"-IS4B-790210-CS1-HC	TC-6401	7A-Z-0-2-25	152	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	Canceled
А	7A	1	IS4B	900101	CS1	НС	HOLD 1	Plant Steam (wed. Pressure)/Vapor Ind. (Média	2,68	1"-IS4B-790203-CS1-HC	AT-9001	7A-Z-0-2-06	152	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	1	IS4B	900201	CS1	НС	HOLD 1	Pressão) Plant Steam (Med. Pressure)/Vapor Ind. (Média Pressão)	2,68	1"-IS4B-790205-CS1-HC	AT-9002	7A-Z-0-2-05	152	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	IS4B	640134	CS1	НС	HOLD 1	Pressão) Plant Steam (med. Pressure)/Vapor Ind. (Média Pressão)	2,68	3/4"-IS4B-790210-CS1-HC	TC-6401	7A-Z-0-2-25	152	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	









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CLIENT NR:	REV.:
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		LINE NUM	BER ID / ID	ENTIFICAÇ	ÃO DA LIN	VHA	INSUL./		Dens. /	LINE INTERCONNECTION /	EXTREMIDADES DA LINHA		Typical O Oper		Operating	/ Operação	Design/	Projeto	Pressure Test /	Test Fluid /	NOTES /
RE	'./ Y'	Diam./Diam.	Fluid/ <i>Fluí</i>	Number/ Número	Espec. /	Insul. Type /		Fluid. / Fluído	Dens.	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp.	Pressure/ Pressão	Temp. / Temp.	Pressao	Temp. / Temp.	Pressao	de Teste	Fluído de Teste	NOTAS
RE	v. Prédio	(pol)					(mm)		(kg/m³)				(°C)	(barG)	(°C)	(barG)	(°C)	(barG)	(barG)]
													Normal Operating Temperatur e	Normal Operating Pressure	Shut off Temperatur e	Shut off Pressure	Operating Temperature + 10°C	Operating Pressure * 1.5			
Δ	7A	3/4	C4B	390304	CS1	HC	HOLD 1	Condensate (Med. pressure)/ Condensado (Média Pressão)	914,8	TCU-3903	3/4"-ISC4B-930214-CS1-HC	7A-Z-0-2-10	152	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
A	7A	3/4	C4B	640135	CS1	HC	HOLD 1	Condensate (Med. pressure)/ Condensado (Média Pressão)	914,8	3/4"-IS4B-640134-CS1-HC	3/4"-C4B-640136-CS1-HC	7A-Z-0-2-25	152	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
Δ	7A	3/4	C4B	640136	CS1	HC	HOLD 1	Condensate (Med. pressure)/ Condensado (Média Pressão)	914,8	TC-6401	3/4"-C4B-930203-CS1-HC	7A-Z-0-2-25	152	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
Δ	7A	1	C4B	900102	CS1	HC	HOLD 1	Condensate (Med. pressure)/ Condensado (Média Pressão)	914,8	AT-9001	1"-C4B-930213-CS1-HC	7A-Z-0-2-06	152	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
C	7A	1	C4B	900202	CS1	HC	HOLD 1	Condensate (Med. pressure)/ Condensado (Média Pressão)	914,8	AT-9002	1"-C4B-930225-CS1-HC	7A-Z-0-2-05	152	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	









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CLIENT NR:	REV.:
PRD-PRO-LIS-001	0

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		LINE NUM	BER ID / ID	ENTIFICAÇ	ÃO DA LII	NHA	INSUL./		Dens. /	LINE INTERCONNECTION /	EXTREMIDADES DA LINHA		Typical Opera		Operating /	Operação	Design/	Projeto	Pressure Test /	Test Fluid /	NOTES /
REV.		Diam./Diâm.	Fluid/ <i>Fluí</i> do	Number/ Número	Espec. / Espec.	Insul. Type / Tipo Isol.	(mm)	Fluid. / <i>Fluído</i>	Dens. (kg/m³)	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp.	Pressure/ Pressão (barG)	Pressão de Teste (barG)	Fluído de Teste	NOTAS
REV	, Predio	(роі)					(11111)		(kg/iii)				Normal Operating Temperatur e	Normal	Shut off Temperatur e	Shut off Pressure	Operating Temperature + 10°C	Operating Pressure * 1.5	(bai G)		
0	7A	X"	LN2	110511	HOLD 1	HOLD 1	HOLD 1	Liquid Nitrogen/ Nitrogênio Líquido	HOLD 1	X"-LN2-260005-VJP	LYO-1105	7A-Z-0-2-08	-200	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	2
0	7A	X"	LN2	110512	HOLD 1	HOLD 1	HOLD 1	Liquid Nitrogen/ Nitrogênio Líquido	HOLD 1	X"-LN2-110511-VJP	LYO-1105	7A-Z-0-2-08	-200	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	2
0	7A	X"	LN2	110611	HOLD 1	HOLD 1	HOLD 1	Liquid Nitrogen/ Nitrogênio Líquido	HOLD 1	X"-LN2-260006-VJP	LYO-1106	7A-Z-0-2-09	-200	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	2
0	7A	X"	LN2	110612	HOLD 1	HOLD 1	HOLD 1	Liquid Nitrogen/ Nitrogênio Líquido	HOLD 1	X"-LN2-110611-VJP	LYO-1106	7A-Z-0-2-09	-200	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	2
0	7A	X"	LN2	260001	HOLD 1	HOLD 1	HOLD 1	Liquid Nitrogen/ Nitrogênio Líquido	HOLD 1	TQ-2600	X"-LN2-260004-VJP-XX	7A-Z-0-2-34	-200	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	2
0	7A	X"	LN2	260002	HOLD 1	HOLD 1	HOLD 1	Liquid Nitrogen/ Nitrogênio Líquido	HOLD 1	TRUCK LOADING	TQ-2600	7A-Z-0-2-34	-200	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	2
0	7A	X"	LN2	260003	HOLD 1	HOLD 1	HOLD 1	Liquid Nitrogen/ Nitrogênio Líquido	HOLD 1	TRUCK LOADING	TQ-2600	7A-Z-0-2-34	-200	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	2
0	7A	X"	LN2	260004	HOLD 1	HOLD 1	HOLD 1	Liquid Nitrogen/ Nitrogênio Líquido	HOLD 1	X"-LN2-260001-VJP-XX	DISTRIBUTION	7A-Z-0-2-34	-200	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	2
0	7A	X"	LN2	260005	HOLD 1	HOLD 1	HOLD 1	Liquid Nitrogen/ Nitrogênio Líquido	HOLD 1	X"-LN2-260004-VJP-XX	X"-LN2-110511-VJP	7A-Z-0-2-34 / 7A-Z-0-2-08	-200	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	2
0	7A	X"	LN2	260006	HOLD 1	HOLD 1	HOLD 1	Liquid Nitrogen/ Nitrogênio Líquido	HOLD 1	X"-LN2-260004-VJP-XX	X"-LN2-110611-VJP	7A-Z-0-2-34 / 7A-Z-0-2-09	-200	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	2
0	7A	X"	LN2	260007	HOLD 1	HOLD 1	HOLD 1	Liquid Nitrogen/ Nitrogênio Líquido	HOLD 1	X"-LN2-260004-VJP-XX	X"-LN2-260001-VJP	7A-Z-0-2-34 / 7B-Z-0-2-74	-200	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	2









DOC NR:	SHEET:
E-569-B7A-PRO-330-002	22 of 36
CLIENT NR:	REV.:
PRD-PRO-LIS-001	0

		LINE NUM	BER ID / ID	ENTIFICAÇ	ÃO DA LIN	VHA	INSUL./		Dens. /	LINE INTERCONNECTION /	EXTREMIDADES DA LINHA			Typical Operating / Operação		/ Operação	Design/	Projeto	Pressure Test /	Test Fluid /	NOTES /
REV./	9'	Diam./ <i>Diâm</i> .	Fluid/ <i>Fluí</i> do	Number/ Número	Espec. / Espec.	Insul. Type / Tipo Isol.	ISOL.	Fluid. / Fluído	Dens. (kg/m³)	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp.	Pressure/ Pressão (barG)	Pressão de Teste (barG)	Fluído de Teste	NOTAS
													Normal Operating Temperatur e	Normal Operating Pressure	Shut off Temperatur e	Shut off Pressure	Operating Temperature + 10°C	Operating Pressure * 1.5			
0	7A	3/4	PR	390101	SS10	СС	HOLD 1	Media	HOLD 1	TP-3901-1	SINGLE USE - EV-1103	7A-Z-0-2-03 / 7A-Z-0-2-04	25	0,2	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	









DOC NR:	SHEET:
E-569-B7A-PRO-330-002	23 of 36
CLIENT NR:	REV.:
PRD-PRO-LIS-001	0

		LINE NUM	BER ID / ID	ENTIFICAÇ	ÃO DA LII	NHA	INSUL./			LINE INTERCONNECTION /	EXTREMIDADES DA LINHA		Typical O Oper		Operating I	/ Operação	Design/	Projeto	Pressure Test /	Test Fluid /	NOTES /
REV.	/		Fluid/ <i>Fluí</i> do	Number/ Número	Espec. /	Insul. Type / Tipo Isol.	ISOL.	Fluid. / Fluído	Dens.	From / De	To / Para	P&ID / Fluxograma	Temp.	Pressure/ Pressão	Temp. / Temp.	Pressao	Temp. / Temp.	Pressure/ Pressão (barG)	de Teste	Fluído de Teste	NOTAS
REV	Prédio	(pol)					(mm)		(kg/m³)				(°C)	(barG)	(°C)	(barG)	(°C)	(barG)	(barG)		1
													Normal Operating Temperatur e	Normal Operating Pressure	Shut off Temperatur e	Shut off Pressure	Operating Temperature + 10°C	Operating Pressure * 1.5			
0	7A	1	ROW	630101	SS10	NI	-	Reverse Osmosis Water/ Água de Osmose Reversa	HOLD 1	RO-6301	1"-ROW-630102-SS10-NI	7A-Z-0-2-24 / 7A-Z-0-2-23	20	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	ROW	630102	SS10	NI	-	Reverse Osmosis Water/ Água de Osmose Reversa	HOLD 1	1"-ROW-630101-SS10-NI	RO-6301	7A-Z-0-2-23 / 7A-Z-0-2-24	20	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	ROW	630103	SS10	NI	-	Reverse Osmosis Water/ Água de Osmose Reversa	HOLD 1	1"-ROW-630101-SS10-NI	MES-6401	7A-Z-0-2-24	20	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	









DOC NR:	SHEET:
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CLIENT NR:	REV.:
PRD-PRO-LIS-001	0

																PF	RD-PRO-LIS	5-001			0
		LINE NUM	IBER ID / ID	ENTIFICAÇ	ÇÃO DA LII	NHA	INSUL./		Dens. /	LINE INTERCONNECTION	EXTREMIDADES DA LINHA		Typical O Oper	perating / ração	Operating	/ Operação	Design	Projeto	Pressure Test /	Test Fluid /	NOTES /
REV./ REV.	Buildin g / Prédio	Diam./Diâm.	Fluid/ <i>Fluí</i> do	Number/ Número	Espec. / Espec.	Insul. Type / Tipo Isol.	(mm)	Fluid. / <i>Fluído</i>	Dens. (kg/m³)	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp.	Pressure/ Pressão (barG)	Pressão de Teste (barG)	Fluído de Teste	NOTAS
													Normal Operating Temperatur e	Normal Operating Pressure	Shut off Temperatur e	Shut off Pressure	Operating Temperature + 10°C	Operating Pressure * 1.5			
0	7A	1	SFL	390115	SS3	HC	HOLD-1	Clean Steam/ Vapor Puro	1,12	1"-SFI-650102-SS3-HC	FGA-3901-1	7A-Z-0-2-03	120	1,0	HOLD 1	HOLD-1	HOLD 1	HOLD-1	HOLD-1	HOLD-1	Canceled
0	7A	1 ; 3/4	SFI	390116	SS10	PP	HOLD 1	Clean Steam/ Vapor Puro	1,12	FGA-3901-1	XV-390110	7A-Z-0-2-03	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1;3/4	SFI	390117	SS10	PP	HOLD 1	Clean Steam/ Vapor Puro	1,12	1"-SFI-390116-SS10-PP	XV-390104	7A-Z-0-2-03	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	SFI	470102	SS10	HC	HOLD 1	Clean Steam/ Vapor Puro	1,12	1"-SFI-650117-SS10-HC	1"-SFI/CAP/VEP-470101-SS10- PP	7A-Z-0-2-22	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3; 3/4	SFI	650101	SS10	HC	HOLD 1	Clean Steam/ Vapor Puro	2,18	CSG-6501	TC-6501	7A-Z-0-2-27 / 7A-Z-0-2-28	144	3,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	SFI	650111	SS10	HC	HOLD 1	Clean Steam/ Vapor Puro	2,18	3"-SFI-650101-SS10-HC	PCV-650110	7A-Z-0-2-28	144	3,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1; 3/4	SFI	650112	SS10	HC	HOLD 1	Clean Steam/ Vapor Puro	1,12	PCV-650110	FIL-3901	7A-Z-0-2-28/7A-Z-0-2-03	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	2; 3/4	SFI	650113	SS10	НС	HOLD 1	Clean Steam/ Vapor Puro	2,18	3"-SFI-650101-SS10-HC	TC-6502	7A-Z-0-2-28	144	3,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1.1/2;1	SFI	650114	SS10	HC	HOLD 1	Clean Steam/ Vapor Puro	2,18	2"-SFI-650113-SS10-HC	LYO-1106	7A-Z-0-2-28 / 7A-Z-0-2-09	144	3,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1.1/2;1	SFI	650115	SS10	НС	HOLD 1	Clean Steam/ Vapor Puro	2,18	2"-SFI-650113-SS10-HC	LYO-1105	7A-Z-0-2-28 / 7A-Z-0-2-08	144	3,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	SFI	650116	SS10	НС	HOLD 1	Clean Steam/ Vapor Puro	2,18	3"-SFI-650101-SS10-HC	PCV-650111	7A-Z-0-2-28	144	3,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1; 3/4	SFI	650117	SS10	НС	HOLD 1	Clean Steam/ Vapor Puro	1,12	PCV-650111	STA-4701	7A-Z-0-2-28 / 7A-Z-0-2-22	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	2.1/2	SFI	650118	SS10	HC	HOLD 1	Clean Steam/ Vapor Puro	2,18	3"-SFI-650101-SS10-HC	AT-9001	7A-Z-0-2-28 / 7A-Z-0-2-06	144	3,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	2.1/2	SFI	650119	SS10	НС	HOLD 1	Clean Steam/ Vapor Puro	2,18	3"-SFI-650101-SS10-HC	AT-9002	7A-Z-0-2-28 / 7A-Z-0-2-05	144	3,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	SFI	390121	SS10	HC	HOLD 1	Clean Steam/ Vapor Puro	1,12	3/4"-SFI-650116-SS10-HC	XV-390121	7A-Z-0-2-03	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	SFI	390125	SS10	HC	HOLD 1	Clean Steam/ Vapor Puro	1,12	3/4"-SFI-650121-SS10-HC	XV-390116A	7A-Z-0-2-03	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	SFI	390126	SS10	HC	HOLD 1	Clean Steam/ Vapor Puro	1,12	1"-SFI-650112-SS10-HC	1"-CAP-390118-SS10-NI	7A-Z-0-2-03	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	









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																PF	RD-PRO-LIS	5-001			0
		LINE NUM	IBER ID / II	DENTIFICA	ÇÃO DA LI	INHA	INSUL./		Dens. /	LINE INTERCONNECTION /	EXTREMIDADES DA LINHA		Typical O Oper	perating / ação	Operating	/ Operação	Design/	Projeto	Pressure Test /	Test Fluid	/ NOTES /
REV.	Buildin g / Prédio	Diam./Diâm. (pol)	Fluid/ <i>Fluí</i> do	Number/ Número	Espec. / Espec.	Insul. Type / Tipo Isol.	(mm)	Fluid. / Fluído	Dens. (kg/m³)	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp.	Pressure/ Pressão (barG)	Pressão de Teste (barG)	Fluído de Teste	NOTAS
													Normal Operating Temperatur e	Normal Operating Pressure	Shut off Temperatur e	Shut off Pressure	Operating Temperature + 10°C	Operating Pressure * 1.5			
0	7A	3/4	SFIC	110103	SS3	PP	HOLD 1	Clean Steam Condensate/ Condensado Vapor Puro	1,12	3/4"-CIPR/SFIC-110102- SS3-PP	3/4"-WW2-800015-SS5-PP	7A-Z-0-2-04-	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	Canceled
0	7A	3/4	SFIC	390102	SS10	PP	HOLD 1	Clean Steam Condensate/ Condensado Vapor Puro	1,12	3/4"-PR-390101-SS10-CC	3/4"-CIPR-390102-SS10-PP	7A-Z-0-2-03	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	SFIC	390103	SS10	PP	HOLD 1	Clean Steam Condensate/ Condensado Vapor Puro	1,12	XV-390102	1"-WW2-390114-SS5-PP	7A-Z-0-2-03	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	SFIC	390104	SS10	PP	HOLD 1	Clean Steam Condensate/ Condensado Vapor Puro	1,12	3/4"-PR-390101-SS10-CC	3/4"-CIPR-390104-SS10-PP	7A-Z-0-2-03	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	SFIC	390105	SS10	PP	HOLD 1	Clean Steam Condensate/ Condensado Vapor Puro	1,12	XV-390106	1"-WW2-390114-SS5-PP	7A-Z-0-2-03	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	SFIC	390106	SS10	PP	HOLD 1	Clean Steam Condensate/ Condensado Vapor Puro	1,12	FLQ-3901-1	3/4"-SFIC-390107-SS10-PP	7A-Z-0-2-03	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	SFIC	390107	SS10	PP	HOLD 1	Clean Steam Condensate/ Condensado Vapor Puro	1,12	XV-390109	1"-WW2-390114-SS5-PP	7A-Z-0-2-03	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	SFIC	390110	SS10	PP	HOLD 1	Clean Steam Condensate/ Condensado Vapor Puro	1,12	XV-390111C	3/4"-SFIC-390111-SS10-PP	7A-Z-0-2-03	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	SFIC	390111	SS10	PP	HOLD 1	Clean Steam Condensate/ Condensado Vapor Puro	1,12	XV-390116C	FLQ-3901-3	7A-Z-0-2-03	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	SFIC	390113	SS10	PP	HOLD 1	Clean Steam Condensate/ Condensado Vapor Puro	1,12	FLQ-3901-3	1"-WW2-390114-SS5-PP	7A-Z-0-2-03	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	SFIC	390115	SS10	PP	HOLD 1	Clean Steam Condensate/ Condensado Vapor Puro	HOLD 1	FGA-3901-1	1"-WW2-390114-SS5-PP	7A-Z-0-2-03	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	SFIC	390122	SS10	PP	HOLD 1	Clean Steam Condensate/ Condensado Vapor Puro	1,12	FLQ-3901-3	1"-WW2-390114-SS5-PP	7A-Z-0-2-03	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	SFIC	390124	SS10	PP	HOLD 1	Clean Steam Condensate/ Condensado Vapor Puro	HOLD 1	XV-390120	3/4"-WW2-800015-SS5-PP	7A-Z-0-2-04	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	SFIC	470109	SS5	PP	HOLD 1	Clean Steam Condensate/ Condensado Vapor Puro	HOLD 1	STA-4701	3/4"-SFIC-470110-SS5-PP	7A-Z-0-2-22	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	3/4	SFIC	470110	SS5	PP	HOLD 1	Clean Steam Condensate/ Condensado Vapor Puro	1,12	STA-4701	3/4"-WW2-800022-SS5-PP	7A-Z-0-2-22	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	SFIC	650101	SS10	PP	HOLD 1	Clean Steam Condensate/ Condensado Vapor Puro	2,18	3"-SFI-650101-SS10-HC	1"-WW2-650103-SS5-PP	7A-Z-0-2-27	144	3,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3; 1	SFIC	650102	SS10	PP	HOLD 1	Clean Steam Condensate/ Condensado Vapor Puro	2,18	3"-SFI-650101-SS10-HC	1"-WW2-650103-SS5-PP	7A-Z-0-2-27	144	3,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	SFIC	650110	SS10	PP	HOLD 1	Clean Steam Condensate/ Condensado Vapor Puro	2,18	3"-SFI-650101-SS10-HC	1"-WW2-800025-SS5-PP	7A-Z-2-0-28	144	3,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1; 3/4	SFIC	650112	SS10	PP	HOLD 1	Clean Steam Condensate/ Condensado Vapor Puro	1,12	1"-SFI-650112-SS10-HC	1"-WW2-800025-SS5-PP	7A-Z-0-2-28	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	SFIC	650113	SS10	PP	HOLD 1	Clean Steam Condensate/ Condensado Vapor Puro	1,12	3/4"-SFI-650113-SS10-HC	1"-WW2-800025-SS5-PP	7A-Z-0-2-28	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1; 3/4	SFIC	650117	SS10	PP	HOLD 1	Clean Steam Condensate/ Condensado Vapor Puro	1,12	1"-SFI-650117-SS3-HC	1"-WW2-800025-SS5-PP	7A-Z-0-2-28	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	









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CLIENT NR:	REV.:
PRD-PRO-LIS-001	0

																FI	D-PRO-LIS)-UU I			,
		LINE NUM	BER ID / ID	ENTIFICAÇ	ÃO DA LII	NHA	INSUL./		Dens. /	LINE INTERCONNECTION /	EXTREMIDADES DA LINHA		Typical O Oper	perating / ação	Operating	/ Operação	Design/	Projeto	Pressure Test /	Test Fluid /	NOTES /
REV.	Buildin a /	Diam./ <i>Diâm</i> .		Number/	Espec. /	Insul. Type	ISOL.	Fluid. / <i>Fluído</i>	Dens.	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp.	Pressure/ Pressão	Temp. / Temp.	Pressure/ Pressão	Temp. / Temp.	Pressure/ Pressão	de Teste	Fluído de Teste	NOTAS
REV.		(pol)	do	Número	Espec.	Tipo Isol.	(mm)		(kg/m³)				(°C)	(barG)	(°C)	(barG)	(°C)	(barG)	(barG)		
													Normal Operating Temperatur e	Normal Operating Pressure	Shut off Temperatur e	Shut off Pressure	Operating Temperature + 10°C	Operating Pressure * 1.5			
0	7A	1	SFI/CAP/ VEP	470101	SS10	PP	HOLD 1	Clean Steam / Clean Comp. Air / Process Vent / Vapor Puro / Ar Limpo / Vent Processo Clean Steam / Clean Comp. Air /	HOLD 1	1/2"-CAP-470101-SS10-NI	STA-4701	7A-Z-0-2-22	120	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	SFI/CAP/ VEP	470106	SS10	PP	HOLD 1	Clean Steam / Clean Comp. Air / Process Vent / Vapor Puro / Ar Limpo / Vent Processo	HOLD 1	1"-SFI/CAP/VEP-470101-SS10- PP	STA-4701	7A-Z-0-2-22	120	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	









DOC NR:	SHEET:
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CLIENT NR:	REV.:
PRD-PRO-LIS-001	0

		LINE NUM	BER ID / ID	ENTIFICAÇ	ÃO DA LIN	IHA	INSUL./		Dens. /	LINE INTERCONNECTION /	EXTREMIDADES DA LINHA		Typical O Oper	perating / ação	Operating	/ Operação	Design/	Projeto	Pressure Test /	Test Fluid /	NOTES /
REV.	' 9'	Diam./ <i>Diâm.</i> (pol)	Fluid/ <i>Fluí</i> do	Number/ Número	Espec. / Espec.	Insul. Type / Tipo Isol.	(mm)	Fluid. / Fluído	Dens. (kg/m³)	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp.	Pressure/ Pressão (barG)	Pressão de Teste (barG)	Fluído de Teste	NOTAS
													Normal Operating Temperatur e	Normal Operating Pressure	Shut off Temperatur e	Shut off Pressure	Operating Temperature + 10°C	Operating Pressure * 1.5			
А	7A	1	TEWS	390301	SS5	СС	HOLD 1	Tempered Water Supply/ Alimentação Água Temp.	HOLD 1	TCU-3903	UP-3903	7A-Z-0-2-10 / 7A-Z-0-2-02	5 - 40	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	









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CLIENT NR:	REV.:
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DOC NR:	SHEET: 28 of 36

		LINE NUMI	BER ID / ID	ENTIFICAÇ	ÇÃO DA LII	NHA	INSUL./		Dens. /		EXTREMIDADES DA LINHA			perating / ração	Operating	/ Operação	Design/	Projeto	Pressure Test /	Test Fluid /	NOTES /
REV.	y g y	Diam./ <i>Diâm</i> .	Fluid/ <i>Fluí</i> do	Number/ Número	Espec. / Espec.	Insul. Type / Tipo Isol.	(mm)	Fluid. / Fluído	Dens. (kg/m³)	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp.	Pressure/ Pressão (barG)	de Teste (barG)	Fluído de Teste	NOTAS
													Normal Operating Temperatur e	Normal Operating Pressure	Shut off Temperatur e	Shut off Pressure	Operating Temperature + 10°C	Operating Pressure * 1.5			
А	7A	1	TEWR	390302	SS5	СС	HOLD 1	Tempered Water Return/ Retorno Água Temp.	HOLD 1	UP-3903	TCU-3903	7A-Z-0-2-02 / 7A-Z-0-2-10	5 - 40	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	









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CLIENT NR:	REV.:
PRD-PRO-LIS-001	0

		LINE NUM	BER ID / ID	ENTIFICAÇ	ÃO DA LIN	IHA	INSUL./	Dens Dens		LINE INTERCONNECTION /	EXTREMIDADES DA LINHA		Typical O Oper		Operating	/ Operação	Design/	Projeto		Test Fluid /	
REV REV	/ 9/	Diam./ <i>Diâm</i> .	Fluid/ <i>Fluí</i> do		Espec. / Espec.	Insul. Type / Tipo Isol.	ISOL.	Fluid. / <i>Fluíd</i> o	Dens. (kg/m³)	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp.	Pressure/ Pressão (barG)	Pressão de Teste (barG)	Fluído de Teste	NOTAS
													Normal Operating Temperatur e	Normal Operating Pressure	Shut off Temperatur e	Shut off Pressure	Operating Temperature + 10°C	Operating Pressure * 1.5			
0	7A	6	₩	940090	CS1	NI	-	Cooling Water Supply/Água de Resfriamento Alimentação	995,3	6"-TWS-940092-CS1-NI	SK-8001 (TC-8001)	7A-M-0-5-42 / 7A-Z-0-2-31	31,5	3,2	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	Canceled
0	7A	6	₩	940091	CS1	NI	-	Cooling Water Supply/Água de Resfriamento Alimentação	993,3	SK-8001 (TC-8001)	16"-TWR-940069-CS1-NI	7A-Z-0-2-31 / 7A-M-0-5-42	37	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	Canceled









PRD-PRO-LIS-001	0
CLIENT NR:	REV.:
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																Pr	RD-PRO-LI	5-001			0
		LINE NUM	IBER ID / ID	ENTIFICAÇ	ÇÃO DA LIN	IHA	INSUL./		Dens. /	LINE INTERCONNECTION /	EXTREMIDADES DA LINHA		Typical Opera		Operating I	/ Operação	Design/	Projeto	Pressure Test /	Test Fluid /	NOTES /
REV.		Diam./Diâm.	Fluid/ <i>Fluí</i> do	Number/ Número	Espec. / Espec.	Insul. Type / Tipo Isol.	(mm)	Fluid. / <i>Fluído</i>	Dens. (kg/m³)	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp.	Pressure/ Pressão (barG)	Pressão de Teste (barG)	Fluído de Teste	NOTAS
													Normal Operating Temperatur e	Normal Operating Pressure	Shut off Temperatur e	Shut off Pressure	Operating Temperature + 10°C	Operating Pressure * 1.5			
А	7A	1.1/2	VE	380101	SS5	NI	-	PROCESS VENT/ VENT DE PROCESSO	HOLD 1	TQ-3801	FLOOR	7A-Z-0-2-01	20	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	1.1/2	VE	380201	SS5	NI	-	PROCESS VENT/ VENT DE PROCESSO	HOLD 1	TQ-3802	FLOOR	7A-Z-0-2-01	20	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	1.1/2	VE	380301	SS5	NI	-	PROCESS VENT/ VENT DE PROCESSO	HOLD 1	TQ-3803	FLOOR	7A-Z-0-2-01	20	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1.1/2	VE	380401	SS5	NI	-	PROCESS VENT/ VENT DE PROCESSO	HOLD 1	PTQ-3804	FLOOR	7A-Z-0-2-02	20	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1.1/2	VE	380501	SS5	NI	-	PROCESS VENT/ VENT DE PROCESSO	HOLD 1	PTQ-3805	FLOOR	7A-Z-0-2-02	20	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1.1/2	VE	380601	SS5	NI	-	PROCESS VENT/ VENT DE PROCESSO	HOLD 1	PTQ-3806	FLOOR	7A-Z-0-2-02	20	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1.1/2	VE	380701	SS10	NI	-	PROCESS VENT/ VENT DE PROCESSO	HOLD 1	PTQ-3807	FLOOR	7A-Z-0-2-02	20	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	1.1/2	VE	640126	SS5	PP	HOLD 1	PROCESS VENT/ VENT DE PROCESSO	HOLD 1	FGA-6401	SAFE LOCATION	7A-Z-0-2-25	100	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	1.1/2	VE	900109	SS5	NI	-	PROCESS VENT/ VENT DE PROCESSO	HOLD 1	AT-9001	SAFE LOCATION	7A-Z-0-2-06	20	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	2	VE	900110	SS5	NI	-	PROCESS VENT/ VENT DE PROCESSO	HOLD 1	AT-9001	SAFE LOCATION	7A-Z-0-2-06	20	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	1.1/2	VE	900209	SS5	NI	-	PROCESS VENT/ VENT DE PROCESSO	HOLD 1	AT-9002	SAFE LOCATION	7A-Z-0-2-05	20	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
Α	7A	2	VE	900210	SS5	NI	-	PROCESS VENT/ VENT DE PROCESSO	HOLD 1	AT-9002	SAFE LOCATION	7A-Z-0-2-05	20	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	









DOC NR:	SHEET:
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CLIENT NR:	REV.:
PRD-PRO-LIS-001	0

															PR	D-PRO-LIS	-001		()	
		LINE NUM	BER ID / ID	ENTIFICAÇ	ÇÃO DA LII	NHA	INSUL. /		Dens. /	LINE INTERCONNECTION/	EXTREMIDADES DA LINHA		Typical O Oper	perating / ração	Operating /	/ Operação	Design/	Projeto	Pressure Test /	Test Fluid /	NOTES /
REV./	Buildin g /	Diam./ <i>Diâm</i> .			Espec. /	Insul. Type /	ISOL.	Fluid. / Fluído	Dens.	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp.	Pressure/ Pressão	Temp. / Temp.	Pressure/ Pressão	Temp. / Temp.	Pressure/ Pressão	Pressão de Teste	Fluído de Teste	NOTAS
REV.	Prédio	(pol)	do	Número	Espec.	Tipo Isol.	(mm)		(kg/m³)				(°C)	(barG)	(°C)	(barG)	(°C)	(barG)	(barG)		4
													Operating Temperatur e	Normal Operating Pressure	Shut off Temperatur e	Shut off Pressure	Operating Temperature + 10°C	Operating Pressure * 1.5			
А	7A	Х	VEP	110504	SS5	NI	-	Process Vent/ Vent de Processo	HOLD 1	PSV-110501	ROOF	7A-Z-0-2-08	20	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	VEP	110505	SS5	NI	-	Process Vent/ Vent de Processo	HOLD 1	LYO-1105	SAFE LOCATION	7A-Z-0-2-08	20	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3	VEP	110506	SS5	PP	-	Process Vent/ Vent de Processo	HOLD 1	LYO-1105	SAFE LOCATION	7A-Z-0-2-08	20	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	2	VEP	110507	SS5	PP	-	Process Vent/ Vent de Processo	HOLD 1	LYO-1105	SAFE LOCATION	7A-Z-0-2-08	20	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	VEP	110508	SS5	NI	-	Process Vent/ Vent de Processo	HOLD 1	LYO-1105	ROOF	7A-Z-0-2-08	20	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	VEP	110509	SS5	NI	-	Process Vent/ Vent de Processo	HOLD 1	LYO-1105	ROOF	7A-Z-0-2-08	20	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	1	VEP	110510	SS5	NI	-	Process Vent/ Vent de Processo	HOLD 1	LYO-1105	ROOF	7A-Z-0-2-08	20	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	3	VEP	110524	SS5	NI	-	Process Vent/ Vent de Processo	HOLD 1	LYO-1105	ROOF	7A-Z-0-2-08	20	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	2	VEP	110525	SS5	NI	-	Process Vent/ Vent de Processo	HOLD 1	LYO-1105	ROOF	7A-Z-0-2-08	20	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	VEP	110533	SS5	NI	-	Process Vent/ Vent de Processo	HOLD 1	LYO-1105	ROOF	7A-Z-0-2-08	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	2	VEP	110534	SS5	PP	-	Process Vent/ Vent de Processo	HOLD 1	LYO-1105	ROOF	7A-Z-0-2-08	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	х	VEP	110604	SS5	NI	-	Process Vent/ Vent de Processo	HOLD 1	PSV-110601	ROOF	7A-Z-0-2-09	20	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	VEP	110605	SS5	NI	-	Process Vent/ Vent de Processo	HOLD 1	LYO-1106	ROOF	7A-Z-0-2-09	20	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3	VEP	110606	SS5	PP	-	Process Vent/ Vent de Processo	HOLD 1	LYO-1106	ROOF	7A-Z-0-2-09	20	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3	VEP	110607	SS5	PP	-	Process Vent/ Vent de Processo	HOLD 1	LYO-1106	ROOF	7A-Z-0-2-09	20	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	VEP	110608	SS5	NI	-	Process Vent/ Vent de Processo	HOLD 1	LYO-1106	ROOF	7A-Z-0-2-09	20	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	VEP	110609	SS5	NI	-	Process Vent/ Vent de Processo	HOLD 1	LYO-1106	ROOF	7A-Z-0-2-09	20	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	1	VEP	110610	SS5	NI	-	Process Vent/ Vent de Processo	HOLD 1	LYO-1106	ROOF	7A-Z-0-2-09	20	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	3	VEP	110624	SS5	NI	-	Process Vent/ Vent de Processo	HOLD 1	LYO-1106	ROOF	7A-Z-0-2-09	20	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	2	VEP	110625	SS5	NI	-	Process Vent/ Vent de Processo	HOLD 1	LYO-1106	ROOF	7A-Z-0-2-09	20	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1/2	VEP	110633	SS5	NI	-	Process Vent/ Vent de Processo	HOLD 1	LYO-1106	ROOF	7A-Z-0-2-09	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3	VEP	110634	SS5	PP	-	Process Vent/ Vent de Processo	HOLD 1	LYO-1106	ROOF	7A-Z-0-2-09	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	1.1/2	VEP	380101	SS5	NI	-	Process Vent/ Vent de Processo	HOLD 1	UP-3801	ROOF	7A-Z-0-2-01	20	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	1.1/2	VEP	390101	SS5	NI	-	Process Vent/ Vent de Processo	HOLD 1	UP-3901	ROOF	7A-Z-0-2-02	20	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	1.1/2	VEP	390201	SS5	NI	-	Process Vent/ Vent de Processo	HOLD 1	UP-3902	ROOF	7A-Z-0-2-02	20	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
Α	7A	1.1/2	VEP	390301	SS5	NI	-	Process Vent/ Vent de Processo	HOLD 1	UP-3903	ROOF	7A-Z-0-2-02	20	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	









DOC NR:	SHEET:
E-569-B7A-PRO-330-002	32 of 36
CLIENT NR:	REV.:
PRD-PRO-LIS-001	0

		LINE NUM	IBER ID / IL	DENTIFICAÇ	ÇÃO DA LII	NHA	INSUL. /		Dens. /	LINE INTERCONNECTION/E	EXTREMIDADES DA LINHA		Typical C	perating / ração	Operating	/ Operação	Design/	Projeto		Test Fluid /	NOTES /
REV./	Buildin g / Prédio	Diam./Diâm.	Fluid/ <i>Fluí</i> do	Number/ Número	Espec. / Espec.	Insul. Type / Tipo Isol.	(mm)	Fluid. / Fluído	Dens. (kg/m³)	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp.	Pressure/ Pressão (barG)	Pressão de Teste (barG)	Fluído de Teste	NOTAS
0	7A	1.1/2; 1	VEP	470104	SS5	NI	HOLD 1	Process Vent/ Vent de Processo	HOLD 1	1"-SFI/CAP/VEP-470101-SS10- PP	ROOF	7A-Z-0-2-22	120	6,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1.1/2	VEP	640129	CS2	PP	HOLD 1	Process Vent/ Vent de Processo	HOLD 1	MES-6401	SAFE LOCATION	7A-Z-0-2-24	175	8,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1.1/2	VEP	640137	SS5	PP	HOLD 1	Process Vent/ Vent de Processo	HOLD 1	MES-6401	SAFE LOCATION	7A-Z-0-2-24	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	2.1/2	VEP	650109	SS5	PP	HOLD 1	Process Vent/ Vent de Processo	HOLD 1	3"-SFI-650101-SS3-HC	SAFE LOCATION	7A-Z-0-2-27	144	3,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	2.1/2	VEP	650124	CS2	PP	HOLD 1	Process Vent/ Vent de Processo	HOLD 1	CSG-6501	SAFE LOCATION	7A-Z-0-2-27	175	8,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	3	VEP	650125	SS5	PP	HOLD 1	Process Vent/ Vent de Processo	HOLD 1	CSG-6501	SAFE LOCATION	7A-Z-0-2-27	175	8,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	4	VEP	800004	SS5	PP	HOLD 1	Process Vent/ Vent de Processo	HOLD 1	TQ-8001	SAFE LOCATION	7A-Z-0-2-31	144	3,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	4	VEP	800006	SS5	PP	HOLD 1	Process Vent/ Vent de Processo	HOLD 1	6"-WW2-800003-SS5-PP	SAFE LOCATION	7A-Z-0-2-29	100	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	2	VEP	640118	SS5	PP	HOLD 1	Process Vent/ Vent de Processo	HOLD 1	TQ-6401	FLOOR	7A-Z-0-2-25	80	4,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	HOLD 1	VEP	260007	HOLD 1	HOLD 1	HOLD 1	Nitrogen/ Nitrogênio	HOLD 1	CV-260001	SAFE LOCATION	7A-Z-0-2-34	-200	3,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	HOLD 1	VEP	260008	HOLD 1	HOLD 1	HOLD 1	Nitrogen/ Nitrogênio	HOLD 1	CV-260002	SAFE LOCATION	7A-Z-0-2-34	-200	3,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	HOLD 1	VEP	260009	HOLD 1	HOLD 1	HOLD 1	Nitrogen/ Nitrogênio	HOLD 1	CV-260003	SAFE LOCATION	7A-Z-0-2-34	-200	3,5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	









DOC NR:	SHEET:
E-569-B7A-F	PRO-330-002
CLIENT NR:	REV.:
PRD-PRO	D-LIS-001 0

																PF	RD-PRO-LIS	5-001			0		
		LINE NUM	BER ID / ID	ENTIFICA	ÇÃO DA LI	NHA	INSUL./		Dens. /	LINE INTERCONNECTION /	EXTREMIDADES DA LINHA		Typical O Oper		Operating	/ Operação	Design/	Projeto	Pressure Test /	Test Fluid			
REV./	Buildin g /	Diam./ <i>Diâm</i> .			Espec. /	Insul. Type /	ISOL.	Fluid. / Fluído	Dens.	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp.	Pressure/ Pressão	Temp. / Temp.	Pressure/ Pressão	Temp. / Temp.	Pressure/ Pressão	Pressão de Teste	Fluído de Teste			
REV.	Prédio	(pol)	do	Número	Espec.	Tipo Isol.	(mm)		(kg/m³)		1077 2.2		(°C)	(barG)	(°C)	(barG)	(°C)	(barG)	(barG)		4		
													Operating Temperatur e	Normal Operating Pressure	Shut off Temperatur e	Shut off Pressure	Operating Temperature + 10°C	Operating Pressure * 1.5					
А	7A	1.1/2	WW2	650126	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	TC-6501	6"-WW2-800003-SS5-PP	7A-Z-0-2-28 / 7A-Z-0-2-29	20 - 100	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
А	7A	1.1/2	WW2	650127	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	TC-6502	6"-WW2-800003-SS5-PP	7A-Z-0-2-28 / 7A-Z-0-2-29	20 - 100	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
0	7A	2	WW2	110101	SS10	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	ML-1101	2"-WW2-800023-SS5-PP	7A-Z-0-2-04	80	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
0	7A	2	WW2	110201	SS10	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	TE-1102	2"-WW2-800023-SS5-PP	7A-Z-0-2-04	80	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
0	7A	2	WW2	110501	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	LYO-1105	4"-WW2-800045-SS5-PP	7A-Z-0-2-08	100	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
А	7A	1/2	WW2	110502	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	LYO-1105	4"-WW2-800045-SS5-PP	7A-Z-0-2-08	100	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
А	7A	1/2	WW2	110503	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	LYO-1105	4"-WW2-800045-SS5-PP	7A-Z-0-2-08	100	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
0	7A	1/2	WW2	110528	SS5	NI	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	LYO-1105	4"-WW2-800045-SS5-PP	7A-Z-0-2-08	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
0	7A	1/2	WW2	110529	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	LYO-1105	4"-WW2-800045-SS5-PP	7A-Z-0-2-08	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
0	7A	1	WW2	110530	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	LYO-1105	4"-WW2-800045-SS5-PP	7A-Z-0-2-08	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
0	7A	1/2	WW2	110531	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	LYO-1105	OIL RELIEF	7A-Z-0-2-08	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
0	7A	2	WW2	110601	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	LYO-1106	4"-WW2-800044-SS5-PP	7A-Z-0-2-09	100	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
А	7A	1/2	WW2	110602	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	LYO-1106	4"-WW2-800044-SS5-PP	7A-Z-0-2-09	100	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
А	7A	1/2	WW2	110603	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	LYO-1106	4"-WW2-800044-SS5-PP	7A-Z-0-2-09	100	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
0	7A	1/2	WW2	110528	SS5	NI	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	LYO-1106	4"-WW2-800044-SS5-PP	7A-Z-0-2-09	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
0	7A	1/2	WW2	110529	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	LYO-1106	4"-WW2-800044-SS5-PP	7A-Z-0-2-09	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
0	7A	1	WW2	110530	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	LYO-1106	4"-WW2-800044-SS5-PP	7A-Z-0-2-09	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
0	7A	1/2	WW2	110531	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	LYO-1106	OIL RELIEF	7A-Z-0-2-09	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
0	7A	1	WW2	390114	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	3/4"-SFIC-390122-SS10-PP	1"-WW2-800024-SS5-PP	7A-Z-0-2-03	116	0,8	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
0	7A	3/4	WW2	390127	SS5	НС	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	TP-3901-1	1"-WW2-800014-SS5-PP	7A-Z-0-2-03	116	0,8	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
0	7A	1	WW2	630105	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	RO-6301	DRAIN	7A-Z-0-2-23	80	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
А	7A	1	WW2	640124	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	MES-6401 (SAMPLE)	2"-WW2-640133-SS5-PP	7A-Z-0-2-24	25	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
А	7A	1	WW2	640125	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	MES-6401 (DISTILLATE WASTE)	2"-WW2-640133-SS5-PP	7A-Z-0-2-24	80	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
0	7A	2	WW2	640128	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	SK-6401	DRAIN	7A-Z-0-2-25	80	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
А	7A	2	WW2	640132	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	MES-6401	2"-WW2-640133-SS5-PP	7A-Z-0-2-24	80	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
А	7A	2	WW2	640133	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	2"-WW2-640132-SS5-PP	2"-WW2-800011-SS5-PP	7A-Z-0-2-24	80	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1			









DOC NR: SHEET:

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CLIENT NR: REV.:

PRD-PRO-LIS-001 0

		LINE NUM	BER ID / IC	DENTIFICAÇ	ÇÃO DA LII	NHA	INSUL./		Dens. /	LINE INTERCONNECTION /	EXTREMIDADES DA LINHA		Typical Opera		Operating	/ Operação	Design/	Projeto	Pressure Test /	Test Fluid /	
DEV.	Buildin	Diam./ <i>Diâm</i> .	Fluid/ <i>Fluí</i>	Number/	Espec. /	Insul. Type /	ISOL.	Fluid. / Fluído	Dens.	From / De	To / Para	P&ID / Fluxograma	Temp. /	Pressure/ Pressão	Temp. /	Pressure/ Pressão	Temp. / Temp.	Pressure/ Pressão	Pressão de Teste	Fluído de Teste	NOTES / NOTAS
REV.	Prédio	(pol)	do	Número	Espec.	Tipo Isol.	(mm)	Process Waste/ Efluente de	(kg/m³)	110111720	1077 474		(°C)	(barG)	(°C)	(barG)	(°C)	(barG)	(barG)		
А	7A	1	WW2	650103	SS5	PP	HOLD 1	Processo	HOLD 1	1"-SFIC-650102-SS3-PP	1 1/2"-WW2-650106-SS5-PP	7A-Z-0-2-27	100	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	1	WW2	650104	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	CSG-6501 (SAMPLE)	1 1/2"-WW2-650106-SS5-PP	7A-Z-0-2-27	20	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
Α	7A	1	WW2	650105	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	CSG-6501	1.1/2"-WW2-650106-SS5-PP	7A-Z-0-2-27	85	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	1.1/2	WW2	650106	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	1"-WW2-650105-SS5-PP	2 1/2"-WW2-800014-SS5-PP	7A-Z-0-2-27	100	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	2	WW2	770109	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	CIP-7701	CIP-7701 DRAIN	7A-Z-0-2-21	80	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	3	WW2	800001	SS5	NI	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	TC-8001	COLLECTION TANK	7A-Z-0-2-31	20	3,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	2	WW2	800002	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	PROCESS WASTE HEADER	SK-8001	7A-Z-0-2-30 / 7A-Z-0-2-31	134	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	6	WW2	800003	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	PROCESS WASTE HEADER	SK-8001	7A-Z-0-2-29 / 7A-Z-0-2-31	100	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3; 4	WW2	800005	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	CIP-7701 DRAIN	SK-8001	7A-Z-0-2-21 / 7A-Z-0-2-31	80	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	3	WW2	800007	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	SK-8001	TC-8001	7A-Z-0-2-31	100	4.5	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	WW2	800008	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	1"-HWFI-640116-SS10-HC	SK-8001	7A-Z-0-2-25 / 7A-Z-0-2-31	80	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	2	WW2	800010	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	DRAIN	4"-WW2-800005-SS5-PP	7A-Z-0-2-23 / 7A-Z-0-2-31	80	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	2	WW2	800011	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	2"-WW2-640133-SS5-PP	SK-8001	7A-Z-0-2-24 / 7A-Z-0-2-31	80	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3	WW2	800012	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	DRAIN	4"-WW2-800005-SS5-PP	7A-Z-0-2-25 / 7A-Z-0-2-31	80	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	2.1/2	WW2	800014	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	1 1/2"-WW2-650106-SS5-PP	4"-WW2-800005-SS5-PP	7A-Z-0-2-27 / 7A-Z-0-2-31	100	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	3/4	WW2	800015	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	3/4"-SFIC-390124-SS3-PP	2"-WW2-800002-SS5-PP	7A-Z-0-2-04 / 7A-Z-0-2-30	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	3/4	WW2	800022	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	3/4"-SFIC-470110-SS5-PP	2"-WW2-800002-SS5-PP	7A-Z-0-2-22 / 7A-Z-0-2-30	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	2	WW2	800023	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	2"-WW2-110201-SS10-PP	6"-WW2-800003-SS5-PP	7A-Z-0-2-04 / 7A-Z-0-2-29	80	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	1	WW2	800024	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	1"-WW2-390114-SS5-PP	2"-WW2-800002-SS5-PP	7A-Z-0-2-03 / 7A-Z-0-2-30	116	0,8	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1	WW2	800025	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	PROCESS WASTE HEADER	2"-WW2-800002-SS5-PP	7A-Z-0-2-28 / 7A-Z-0-2-30	120	1,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
0	7A	1.1/2	WW2	800031	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	CIP-7701	2"-WW2-800002-SS5-PP	7A-Z-0-2-21 / 7A-Z-0-2-30	80	2,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	HOLD 1	
А	7A	2.1/2	WW2	800041	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	WASH SINK (A 2004)	6"-WW2-800003-SS5-PP	7A-Z-0-2-26 / 7A-Z-0-2-29	20 - 80	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
А	7A	2.1/2	WW2	800042	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	LV-4601	6"-WW2-800003-SS5-PP	7A-Z-0-2-07 / 7A-Z-0-2-29	80	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
0	7A	2.1/2	WW2	800043	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	AT-9001 DRAIN	6"-WW2-800003-SS5-PP	7A-Z-0-2-06 / 7A-Z-0-2-29	100	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
0	7A	4	WW2	800044	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	LYO-1106 DRAIN	6"-WW2-800003-SS5-PP	7A-Z-0-2-09 / 7A-Z-0-2-29	100	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
0	7A	4	WW2	800045	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	LYO-1105 DRAIN	6"-WW2-800003-SS5-PP	7A-Z-0-2-08 / 7A-Z-0-2-29	100	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
0	7A	2.1/2	WW2	800046	SS5	NI	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	TQ-3801	6"-WW2-800003-SS5-PP	7A-Z-0-2-01 / 7A-Z-0-2-29	80	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
0	7A	2.1/2	WW2	800047	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	AT-9002 DRAIN	6"-WW2-800003-SS5-PP	7A-Z-0-2-05 / 7A-Z-0-2-29	100	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
0	7A	2	WW2	900111	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	2"-VE-900110-SS5-NI	AT-9001 DRAIN	7A-Z-0-2-06	100	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
0	7A	2	WW2	900112	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	1 1/2"-VE-900109-SS5-NI	2"-WW2-900111-SS5-NI	7A-Z-0-2-06	100	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
0	7A	2	WW2	900113	SS5	NI	-	Process Waste/ Efluente de Processo	HOLD 1	AT-9001	AT-9001 DRAIN	7A-Z-0-2-06	100	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1			









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CLIENT NR:	REV.:
PRD-PRO-LIS-001	0

	LINE NUMBER ID / IDENTIFICAÇÃO DA LINHA						INSUL./		Dens. /	LINE INTERCONNECTION /	EXTREMIDADES DA LINHA		Typical O	perating / ração	Operating	/ Operação	Design/	Projeto		Test Fluid /	I NOTES / I
REV.	Buildin g / Prédio	Diam./Diâm.	Fluid/ <i>Fluí</i> do	Number/ Número	Espec. / Espec.	Insul. Type / Tipo Isol.	ISOL.	Tidid. / Tidido	Dens. (kg/m³)	From / De	To / Para	P&ID / Fluxograma	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp. (°C)	Pressure/ Pressão (barG)	Temp. / Temp.	Pressure/ Pressão (barG)		Fluído de Teste	NOTAS
0	7A	2	WW2	900114	SS5	NI	-	Process Waste/ Efluente de Processo	HOLD 1	AT-9001	AT-9001 DRAIN	7A-Z-0-2-06	100	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1	(11 1)		
0	7A	2	WW2	900211	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	2"-VE-900210-SS5-NI	AT-9002 DRAIN	7A-Z-0-2-05	100	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
0	7A	2	WW2	900212	SS5	PP	HOLD 1	Process Waste/ Efluente de Processo	HOLD 1	1 1/2"-VE-900209-SS5-NI	2"-WW2-900211-SS5-NI	7A-Z-0-2-05	100	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
0	7A	2	WW2	900213	SS5	NI	-	Process Waste/ Efluente de Processo	HOLD 1	AT-9002	AT-9002 DRAIN	7A-Z-0-2-05	100	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1			
0	7A	2	WW2	900214	SS5	NI	-	Process Waste/ Efluente de Processo	HOLD 1	AT-9002	AT-9002 DRAIN	7A-Z-0-2-05	100	0,0	HOLD 1	HOLD 1	HOLD 1	HOLD 1			









NUMBER: E-569-B7A-PRO-330-002 CLIENT NR: PRD-PRO-LIS-001

TITLE

LINE LIST - PROCESS AND CLEAN UTILITIES - BUILDING 7A LISTA DE LINHAS - PROCESSO E CLEAN UTILITIES - PRÉDIO 7A 36 de 36

REV.:

NOTES / NOTAS

- 1- This line is situated inside the Utility Panel showed in the PID.
- 1- Esta linha está dentro do Painel de utilidades mostrado no fluxograma.
- 2- Detailed Liquid Nitrogen distribution design part of cryogenic contractor scope.
- 1- Detalhamento da distribuição de Nitrogênio Líquido é parte do escopo do fornecedor.