

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک								
	CRITICAL LINE LIST								
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طرح نگهداشت و افزایش تولید ۲۷ مخزن

CRITICAL LINE LIST

نگهداشت و افزایش تولید میدان نفتی بینک

D00	MAY.2022	IFC	F.Mosayebnejad	M.Fakharian	M.Mehrshad	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

Class: 2 CLIENT Doc. Number: F0Z-708902

status:

- IDC:** Inter-Discipline Check
- IFC:** Issued For Comment
- IFA:** Issued For Approval
- AFD:** Approved For Design
- AFC:** Approved For Construction
- AFP:** Approved For Purchase
- AFQ:** Approved For Quotation
- IFI:** Issued For Information
- AB-R:** As-Built for CLIENT Review
- AB-A:** As-Built –Approved



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



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4	X					68					
5	X					69					
6	X					70					
7	X					71					
8	X					72					
9	X					73					
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Item No.	LINE NUMBER						LINE DESCRIPTION			DESIGN		OPERATING		Density (kg/m3)	Test Press. (barg)	Test Service	PWHT	Radiography Testing (%)	Insulation Thickness	Paint Code	Critical Level	Calculation Number
	Fluid ID Code	Unit Serial No.	Piping Serial No.	Piping Class Code	Nominal Pipe Size	Insulation Code	From	To	Fluid Phase	Press. (barg)	Temp. (°C)	Press. (barg)	Temp. (°C)									
1	GAS	111	0080	AN07	2	PT	GAS-111-0001-AN07-6"-PT	FL-112-0002-AN07-2"-PT	GAS	9	85	7.5	46.1	6.6	13.5	Water	N	20%	-	A	1	
2	GAS	111	0180	AN07	2	PT	GAS-111-0080-AN07-2"-PT	SAFE AREA	GAS	3.5	85	atm	amb	6.6	5.25	Water	N	20%	-	A	1	
3	FL	112	0002	AN07	2	PT	GAS-111-0080-AN07-2"-PT	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	A	1	
4	GAS	111	0001	AN07	6	PT	TP-01	FCV-2101	GAS	9	85	7.5	46.1	6.6	13.5	Water	N	20%	-	A	2	
5	GAS	111	0101	AN07	6	PT	FCV-2101	GAS-111-0005-AN07-10"-PT	GAS	9	85	7.5	46.1	6.6	13.5	Water	N	20%	-	A	2	
6	CHM	112	0001	AS00	3/4	NP	CHM-112-0003-AS00-1 1/2"-NP	GAS-111-0101-AN07-6"-PT	LIQUID	10.8	85	9	amb.	850	16.2	Water	N	100%	-	-	1	
7	GAS	111	0010	AN07	2	PT	GAS-111-0007-AN07-10"-PT	FL-112-0004-AN07-2"-PT	GAS	9	85	7.5	32	6.2	13.5	Water	N	20%	-	A	1	
8	GAS	111	0081	AN07	2	PT	GAS-111-0010-AN07-2"-PT	SAFE AREA	GAS	3.5	85	atm	amb	6.6	5.25	Water	N	20%	-	A	1	
9	FL	112	0004	AN07	2	PT	GAS-111-0010-AN07-2"-PT	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
10	GAS	111	0007	AN07	10	PT	GOLKHARI	PR-2102	GAS	9	85	7.5	32	6.2	13.5	Water	N	20%	-	A	2	
11	FL	112	0003	AN07	2	PT	PR-2102	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
12	CDH	112	0002	AN07	2	PT	PR-2102	CDH-112-0030-AN07-6"-PT	LIQUID	5.5	85	0.5	amb	982	8.25	Water	N	20%	-	A	1	
13	GAS	111	0008	AN07	2	PT	GAS-111-0007-AN07-10"-PT	FCV-2102	GAS	9	85	7.5	32	6.2	13.5	Water	N	20%	-	A	1	
14	GAS	111	0009	AN07	8	PT	PR-2102	GAS-111-0008-AN07-10"-PT	GAS	9	85	7.5	32	6.2	13.5	Water	N	20%	-	A	2	
15	GAS	111	0012	AN07	14	PT	FCV-2102	V-2104	GAS	9	85	5.5	32	6.2	13.5	Water	N	20%	-	A	3	
16	CHM	112	0002	AS00	3/4	NP	CHM-112-0003-AS00-1 1/2"-NP	GAS-111-0012-AN07-14"-PT	LIQUID	10.8	85	9	amb.	850	16.2	Water	N	100%	-	-	1	



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							BK	GCS	PEDCO	120	PI	LI		0001	D00							
Item No.	LINE NUMBER						LINE DESCRIPTION			DESIGN		OPERATING		Test Press. (barg)	Test Service	PWHT	Radiography Testing (%)	Insulation Thickness	Paint Code	Critical Level	Calculation Number	
	Fluid ID Code	Unit Serial No.	Piping Serial No.	Piping Class Code	Nominal Pipe Size	Insulation Code	From	To	Fluid Phase	Press. (barg)	Temp. (°C)	Press. (barg)	Temp. (°C)									Density (kg/m³)
17	GAS	111	0013	AN07	4	PT	V-2104	PSV-2111	GAS	9	85	5.3	31.8	6	13.5	Water	N	20%	-	A	3	
18	FL	112	0005	AN07	6	PT	PSV-2111	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	3	
19	GAS	111	0017	AN07	8	PT	GAS-111-0012-AN07-14"-PT	GAS-111-0019-AN07-8"-PT	GAS	9	85	5.5	32	6.2	13.5	Water	N	20%	-	A	2	
20	GAS	111	0019	AN07	8	PT	V-2104	GAS-111-0005-AN07-10"-PT	GAS	9	85	5.3	31.8	6	13.5	Water	N	20%	-	A	3	
21	CDH	112	0004	AS00	14	NP	V-2104	LCV-2111	LIQUID	9	85	5.3	31.8	845.5	13.5	Water	N	100%	-	-	3	
22	CDH	112	0003	AN07	3	PT	CDH-112-0004-AS00-14"-NP	CDH-112-0030-AN07-6"-PT		5.5	85	0.5	amb	845.5	8.25	Water	N	20%	-	A	1	
23	CDH	112	0005	AN05	20	PT	LCV-2111	V-2106	LIQUID	5.5	85	0.5	amb	1002	8.25	Water	N	20%	-	A	1	
24	CDH	112	0007	AN05	14	PT	V-2106	TK-2101	LIQUID	9	85	0.5	32	1002	13.5	Water	N	20%	-	A	3	
25	CDH	112	0041	AN07	6	PT	CDH-112-0033-AN07-2"-PT	CDH-112-0007-AN05-14"-PT	LIQUID	7.7	85	1.7	amb	980	11.55	Water	N	20%	-	A	2	
26	CDH	112	0006	AN07	3	PT	CDH-112-0007-AN05-14"-PT	CDH-112-0030-AN07-6"-PT	LIQUID	5.5	85	0.5	amb	1002	8.25	Water	N	20%	-	A	1	
27	CDH	112	0009	AN05	4	PT	TK-2101	SLUG PUMP(P-2101 A/B)	LIQUID	0.6	85	0.5	32	1002	0.9	Water	N	20%	-	A	3	
28	FLG	112	0001	AN07	2	PT	FLG-112-0010-AN07-2"-PT	PRV-2111	GAS	9	85	4.9	36.8	5.8	13.5	Water	N	20%	-	A	1	
29	FL	112	0007	AN07	2	PT	PRV-2112	FL-112-0008-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
30	FL	112	0008	AN07	14	PT	V-2106	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	3	
31	CDH	112	0010	AN05	4	PT	CDH-112-0009-AN05-4"-PT	P-2101A	LIQUID	0.6	85	0.5	32	1002	0.9	Water	N	20%	-	A	3	
32	CDH	112	0011	AN05	4	PT	CDH-112-0009-AN05-4"-PT	P-2101B	LIQUID	0.6	85	0.5	32	1002	0.9	Water	N	20%	-	A	3	



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							BK	GCS	PEDCO	120	PI	LI	0001	D00								
Item No.	LINE NUMBER						LINE DESCRIPTION			DESIGN		OPERATING			Test Press. (barg)	Test Service	PWHT	Radiography Testing (%)	Insulation Thickness	Paint Code	Critical Level	Calculation Number
	Fluid ID Code	Unit Serial No.	Piping Serial No.	Piping Class Code	Nominal Pipe Size	Insulation Code	From	To	Fluid Phase	Press. (barg)	Temp. (°C)	Press. (barg)	Temp. (°C)	Density (kg/m³)								
33	CDH	112	0017	AN07	2	PT	P-2101 A/B	CDH-112-0030-AN07-6"-PT	LIQUID	5.5	85	0.5	amb	1002	8.25	Water	N	20%	-	A	1	
34	CDH	112	0012	CN05	3	PT	P-2101A	CDH-112-0014-CN05-3"-PT	LIQUID	24.5	amb	19.5	32.1	1002	36.75	Water	N	50%	-	A	3	
35	CDH	112	0013	CN05	3	PT	P-2101B	CDH-112-0014-CN05-3"-PT	LIQUID	24.5	amb	19.5	32.1	1002	36.75	Water	N	50%	-	A	3	
36	CDH	112	0014	CN05	3	PT	P-2101 A/B	FCV-2111	LIQUID	24.5	amb	19.5	32.1	1002	36.75	Water	N	50%	-	A	3	
37	CDH	112	0015	CN05	4	PT	FCV-2111	BANK CLUSTER	LIQUID	5.5	85	0.5	amb	1002	8.25	Water	N	50%	-	A	1	
38	CHM	112	0003	AS00	3/4	NP	CHM-112-0003-AS00-1 1/2"-NP	GAS-111-0025-AN07-10"-PT	LIQUID	10.8	85	9	amb.	850	16.2	Water	N	100%	-	-	1	
39	GAS	111	0025	AN07	10	PT	V-2105	1ST STAGE GAS COMPRESSION SUCTION	GAS	9	85	5.1	37	6	13.5	Water	N	20%	-	A	1	
40	GAS	111	0020	AN07	10	PT	GAS-111-0005-AN07-10"-PT	GAS-111-0025-AN07-10"-PT	GAS	9	85	5.3	37.2	6.2	13.5	Water	N	20%	-	A	2	
41	GAS	111	0005	AN07	10	PT	GAS-111-0019-AN07-8"-PT	V-2105	GAS	9	85	5.3	37.2	6.2	13.5	Water	N	20%	-	A	3	
42	GAS	111	0021	AN07	2	PT	V-2105	PSV-2113	GAS	9	85	5.1	37	6	13.5	Water	N	20%	-	A	2	
43	GAS	111	0022	AN07	2	PT	GAS-111-0021-AN07-2"-PT	PSV2114	GAS	9	85	5.1	37	6	13.5	Water	N	20%	-	A	2	
44	FL	112	0010	AN07	2	PT	GAS-111-0021-AN07-2"-PT	FL-112-0011-AN07-3"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
45	FL	112	0009	AN07	3	PT	PSV-2114	FL-112-0011-AN07-3"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	2	
46	FL	112	0011	AN07	3	PT	PSV-2113	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	2	
47	FL	112	0017	AN07	2	PT	GAS-111-0025-AN07-10"-PT	LP FLARE HEADER	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
48	CDH	112	0042	AN07	2	PT	V-2105	CDH-112-0020-AN07-2"-PT	LIQUID	5.5	85	0.5	amb	842.7	8.25	Water	N	20%	-	A	1	



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Item No.	LINE NUMBER						LINE DESCRIPTION			DESIGN		OPERATING		Density (kg/m3)	Test Press. (barg)	Test Service	PWHT	Radiography Testing (%)	Insulation Thickness	Paint Code	Critical Level	Calculation Number
	Fluid ID Code	Unit Serial No.	Piping Serial No.	Piping Class Code	Nominal Pipe Size	Insulation Code	From	To	Fluid Phase	Press. (barg)	Temp. (°C)	Press. (barg)	Temp. (°C)									
49	CDH	111	0019	AS00	2	NP	V-2105	LCV-2114	LIQUID	9	85	5.1	37	842.6	13.5	Water	N	100%	-	-	1	
50	CDH	112	0020	AN07	2	PT	LCV-2114	CDH-112-0030-AN07-6"-PT	LIQUID	5.5	85	0.5	amb	842.7	8.25	Water	N	20%	-	A	1	
51	GAS	111	0026A	AN07	8	PT	GAS-111-0025-AN07-10"-PT	V-2101-A	GAS	9	85	5.1	37	6	13.5	Water	N	20%	-	A	3	
52	GAS	111	0024	AN07	2	PT	GAS-111-0026A-AN07-8"-PT	GAS-111-0026A-AN07-8"-PT	GAS	9	85	5.1	37	6	13.5	Water	N	20%	-	A	1	
53	GAS	111	0026B	AN07	8	PT	GAS-111-0025-AN07-10"-PT	V-2101-B	GAS	9	85	5.1	37	6	13.5	Water	N	20%	-	A	3	
54	GAS	111	0024B	AN07	2	PT	GAS-111-0026B-AN07-8"-PT	GAS-111-0026B-AN07-8"-PT	GAS	9	85	5.1	37	6	13.5	Water	N	20%	-	A	1	
55	GAS	111	0026C	AN07	8	PT	GAS-111-0025-AN07-10"-PT	V-2101-C	GAS	9	85	5.1	37	6	13.5	Water	N	20%	-	A	3	
56	GAS	111	0024C	AN07	2	PT	GAS-111-0026C-AN07-8"-PT	GAS-111-0026C-AN07-8"-PT	GAS	9	85	5.1	37	6	13.5	Water	N	20%	-	A	1	
57	GAS	111	0004	AN07	2	PT	GAS-111-0025-AN07-10"-PT	PCV-2272	GAS	9	85	5.1	37	6	13.5	Water	N	20%	-	A	1	
58	CDH	112	0018	AN07	2	PT	GAS-111-0025-AN07-10"-PT	CLOSED DRAIN HEADER	LIQUID	5.5	85	0.5	amb	842.6	8.25	Water	N	20%	-	A	1	
59	GAS	111	0058A	FS00	6	NP	GAS-111-0055A-FS00-6"-PT	PSV-2123A	GAS	62	175	54.1	60	59.6	93	Water	N	100%	-	-	3	
60	GAS	111	0046A	AN07	6	PT	PSV2123A	GAS-111-0026A-AN07-8"-PT	GAS	9	85	5.1	37	6	13.5	Water	N	20%	-	A	2	
61	GAS	111	0029A	AN07	2	PT	V-2101-A	PSV-2121A	GAS	9	85	4.9	36.1	5.8	13.5	Water	N	20%	-	A	2	
62	FL	112	0012A	AN07	2	PT	GAS-111-0029A-AN07-2"-PT	FL-112-0013A-AN07-2"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
63	FL	112	0013A	AN07	2	PT	PSV-2121A	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	2	
64	GAS	111	0031A	AN05	8	PT	V-2101-A	C-2101-A	GAS	9	85	4.9	36.1	5.8	13.5	Water	N	20%	-	A	3	



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Item No.	LINE NUMBER						LINE DESCRIPTION			DESIGN		OPERATING		Density (kg/m3)	Test Press. (barg)	Test Service	PWHT	Radiography Testing (%)	Insulation Thickness	Paint Code	Critical Level	Calculation Number
	Fluid ID Code	Unit Serial No.	Piping Serial No.	Piping Class Code	Nominal Pipe Size	Insulation Code	From	To	Fluid Phase	Press. (barg)	Temp. (°C)	Press. (barg)	Temp. (°C)									
65	CDH	112	0021A	AS00	2	NP	V-2101-A	CDH-112-0022A-AN07-2"-PT	LIQUID	9	85	4.9	36.8	842.7	13.5	Water	N	100%	-	-	1	
66	CDH	112	0022A	AN07	2	PT	CDH-112-0021A-AS00-2"-NP	CDH-112-0030-AN07-6"-PT	LIQUID	5.5	85	0.5	amb	842.7	8.25	Water	N	20%	-	A	1	
67	GAS	111	0058B	FS00	6	NP	GAS-111-0055B-FS00-6"-PT	PSV-2123B	GAS	62	175	54.1	60	59.6	93	Water	N	100%	-	-	3	
68	GAS	111	0046B	AN07	6	PT	PSV-2123B	GAS-111-0026B-AN07-8"-PT	GAS	9	85	5.1	37	6	13.5	Water	N	20%	-	A	3	
69	GAS	111	0029B	AN07	2	PT	V-2101-B	PSV-2121B	GAS	9	85	4.9	36.1	5.8	13.5	Water	N	20%	-	A	2	
70	FL	112	0012B	AN07	2	PT	GAS-111-0029B-AN07-2"-PT	FL-112-0013B-AN07-2"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
71	FL	112	0013B	AN07	2	PT	PSV-2121B	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	2	
72	GAS	111	0031B	AN05	8	PT	V-2101-B	C-2101-B	GAS	9	85	4.9	36.1	5.8	13.5	Water	N	20%	-	A	3	
73	CDH	112	0021B	AS00	2	NP	V-2101-B	CDH-112-0022B-AN07-2"-PT	LIQUID	9	85	4.9	36.8	842.7	13.5	Water	N	100%	-	-	2	
74	CDH	112	0022B	AN07	2	PT	CDH-112-0021B-AS00-2"-NP	CDH-112-0030-AN07-6"-PT	LIQUID	5.5	85	0.5	amb	842.7	8.25	Water	N	20%	-	A	1	
75	GAS	111	0058C	FS00	6	NP	GAS-111-0055C-FS00-6"-PT	PSV-2123C	GAS	62	175	54.1	60	59.6	93	Water	N	100%	-	-	3	
76	GAS	111	0046C	AN07	6	PT	PSV-2123C	GAS-111-0026C-AN07-8"-PT	GAS	9	85	5.1	37	6	13.5	Water	N	20%	-	A	3	
77	GAS	111	0029C	AN07	2	PT	V-2101-C	PSV-2121C	GAS	9	85	4.9	36.1	5.8	13.5	Water	N	20%	-	A	2	
78	FL	112	0012C	AN07	2	PT	GAS-111-0029C-AN07-2"-PT	FL-112-0013C-AN07-2"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
79	FL	112	0013C	AN07	2	PT	PSV-2121C	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	2	
80	GAS	111	0031C	AN05	8	PT	V-2101-C	C-2101-C	GAS	9	85	4.9	36.1	5.8	13.5	Water	N	20%	-	A	3	
81	CDH	112	0021C	AS00	2	NP	V-2101-C	CDH-112-0022C-AN07-2"-PT	LIQUID	9	85	4.9	36.8	842.7	13.5	Water	N	100%	-	-	1	



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							BK	GCS	PEDCO	120	PI	LI		0001	D00							
Item No.	LINE NUMBER						LINE DESCRIPTION			DESIGN		OPERATING			Test Press. (barg)	Test Service	PWHT	Radiography Testing (%)	Insulation Thickness	Paint Code	Critical Level	Calculation Number
	Fluid ID Code	Unit Serial No.	Piping Serial No.	Piping Class Code	Nominal Pipe Size	Insulation Code	From	To	Fluid Phase	Press. (barg)	Temp. (°C)	Press. (barg)	Temp. (°C)									
82	CDH	112	0022C	AN07	2	PT	CDH-112-0021C-AS00-2"-NP	CDH-112-0030-AN07-6"-PT	LIQUID	5.5	85	0.5	amb	842.7	8.25	Water	N	20%	-	A	1	
83	GAS	111	0036A	CN05	6	PT	C-2101-A	AE-2101-A	GAS	22	155	19	124.8	15.4	33	Water	N	50%	-	-	3	
84	GAS	111	0032A	CN05	3	PT	GAS-111-0036A-CN05-6"-NP	PSV-2122A	GAS	22	155	19	124.8	15.4	33	Water	N	50%	-	B	1	
85	GAS	111	0033A	CN05	3	PT	GAS-111-0032A-CN05-3"-PT	PSV-2123A	GAS	22	155	19	124.8	15.4	33	Water	N	50%	-	B	1	
86	FL	112	0015A	AN07	2	PT	GAS-111-0032A-CN05-3"-PT	FL-112-0016A-AN07-6"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
87	FL	112	0016A	AN07	6	PT	PSV-2122A	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	2	
88	NIT	112	0001A	AN01	1	PT	NIT-112-0024-AN01-2"-PT	UCP-C2101	GAS	12.5	85	8	60	8.6	13.75	Water	N	5%	-	A	-	
89	ISA	112	0001A	AZ00	2	NP	ISA-112-0012-AZ00-2"-NP	UCP-C2101	GAS	12.5	85	8	65	9.3	13.75	Air	N	-	-	-	1	
90	GAS	111	0036B	CN05	6	PT	C-2101-B	AE-2101-B	GAS	22	155	19	124.8	15.4	33	Water	N	50%	-	-	3	
91	GAS	111	0032B	CN05	3	PT	GAS-111-0036B-CN05-6"-NP	PSV-2122B	GAS	22	155	19	124.8	15.4	33	Water	N	50%	-	B	3	
92	GAS	111	0033B	CN05	3	PT	GAS-111-0032B-CN05-3"-PT	PSV-2123B	GAS	22	155	19	124.8	15.4	33	Water	N	50%	-	B	3	
93	FL	112	0015B	AN07	2	PT	GAS-111-0032A-CN05-3"-PT	FL-112-0016B-AN07-6"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
94	FL	112	0016B	AN07	6	PT	PSV-2122B	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	3	
95	NIT	112	0001B	AN01	1	PT	NIT-112-0024-AN01-2"-PT	UCP-C2101	GAS	12.5	85	8	60	8.6	13.75	Water	N	5%	-	A	-	
96	ISA	112	0001B	AZ00	2	NP	ISA-112-0012-AZ00-2"-NP	UCP-C2101	GAS	12.5	85	8	65	9.3	13.75	Air	N	-	-	-	1	
97	GAS	111	0036C	CN05	6	PT	C-2101-C	AE-2101-C	GAS	22	155	19	124.8	15.4	33	Water	N	50%	-	-	3	



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							BK	GCS	PEDCO	120	PI	LI		0001		D00						
Item No.	LINE NUMBER						LINE DESCRIPTION			DESIGN		OPERATING		Test Press. (barg)	Test Service	PWHT	Radiography Testing (%)	Insulation Thickness	Paint Code	Critical Level	Calculation Number	
	Fluid ID Code	Unit Serial No.	Piping Serial No.	Piping Class Code	Nominal Pipe Size	Insulation Code	From	To	Fluid Phase	Press. (barg)	Temp. (°C)	Press. (barg)	Temp. (°C)									Density (kg/m³)
98	GAS	111	0032C	CN05	3	PT	GAS-111-0036C-CN05-6"-NP	PSV-2122C	GAS	22	155	19	124.8	15.4	33	Water	N	50%	-	B	3	
99	GAS	111	0033C	CN05	3	PT	GAS-111-0032C-CN05-3"-PT	PSV-2123C	GAS	22	155	19	124.8	15.4	33	Water	N	50%	-	B	3	
100	FL	112	0015C	AN07	2	PT	GAS-111-0032C-CN05-3"-PT	FL-112-0016C-AN07-6"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
101	FL	112	0016C	AN07	6	PT	PSV2122C	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	3	
102	NIT	112	0001C	AN01	1	PT	NIT-112-0024-AN01-2"-PT	UCP-C2101	GAS	12.5	85	8	60	8.6	13.75	Water	N	5%	-	A	-	
103	ISA	112	0001C	AZ00	2	NP	ISA-112-0012-AZ00-2"-NP	UCP-C2101	GAS	12.5	85	8	65	9.3	13.75	Air	N	-	-	-	1	
104	GAS	111	0037A	CS00	6	NP	AE-2101-A	V-2102-A	GAS	22	155	18.3	60	18.3	33	Water	N	100%	-	-	3	
105	GAS	111	0037B	CS00	6	NP	AE-2101-B	V-2102-B	GAS	22	155	18.3	60	18.3	33	Water	N	100%	-	-	2	
106	GAS	111	0037C	CS00	6	NP	AE-2101-C	V-2102-C	GAS	22	155	18.3	60	18.3	33	Water	N	100%	-	-	2	
107	GAS	111	0042A	CN05	2	PT	V-2102-A	PSV-2131A	GAS	22	115.4	18.1	59.9	18.1	33	Water	N	50%	-	A	2	
108	GAS	111	0044A	CN05	6	ET	V-2102-A	C-2102-A	GAS	22	115.4	18.1	59.9	18.1	33	Water	N	50%	40	-	3	
109	FL	112	0018A	AN07	2	PT	GAS-111-0042A-CN05-2"-PT	FL-112-0019A-AN07-2"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
110	FL	112	0019A	AN07	2	PT	PSV2131A	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	2	
111	FL	112	0119A	AN07	2	PT	GAS-111-0044A-CN05-6"-ET	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
112	GAS	111	0042B	CN05	2	PT	V-2102-B	PSV2131B	GAS	22	115.4	18.1	59.9	18.1	33	Water	N	50%	-	A	2	
113	GAS	111	0044B	CN05	6	ET	V-2102-B	C-2102-B	GAS	22	115.4	18.1	59.9	18.1	33	Water	N	50%	40	-	3	



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							BK	GCS	PEDCO	120	PI	LI		0001	D00							
Item No.	LINE NUMBER						LINE DESCRIPTION			DESIGN		OPERATING		Density (kg/m ³)	Test Press. (barg)	Test Service	PWHT	Radiography Testing (%)	Insulation Thickness	Paint Code	Critical Level	Calculation Number
	Fluid ID Code	Unit Serial No.	Piping Serial No.	Piping Class Code	Nominal Pipe Size	Insulation Code	From	To	Fluid Phase	Press. (barg)	Temp. (°C)	Press. (barg)	Temp. (°C)									
114	FL	112	0018B	AN07	2	PT	GAS-111-0042B-CN05-2"-PT	FL-112-0019B-AN07-2"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
115	FL	112	0019B	AN07	2	PT	PSV2131B	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	2	
116	FL	112	0119B	AN07	2	PT	GAS-111-0044B-CN05-6"-ET	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
117	GAS	111	0042C	CN05	2	PT	V-2102-C	PSV2131C	GAS	22	115.4	18.1	59.9	18.1	33	Water	N	50%	-	A	2	
118	GAS	111	0044C	CN05	6	ET	V-2102-C	C-2102-C	GAS	22	115.4	18.1	59.9	18.1	33	Water	N	50%	40	-	3	
119	FL	112	0018C	AN07	2	PT	GAS-111-0042C-CN05-2"-PT	FL-112-0019C-AN07-2"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
120	FL	112	0019C	AN07	2	PT	PSV2131C	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	2	
121	FL	112	0119C	AN07	2	PT	GAS-111-0044C-CN05-6"-ET	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
122	CDH	111	0023A	CS00	2	NP	V-2102-A	CDH-112-0024A-AN07-2'-PT	LIQUID	22	115.4	18.1	59.9	829.1	33	Water	N	100%	-	-	1	
123	CDH	112	0024A	AN07	2	PT	CDH-112-0023A-AN07-2'-PT	CDH-112-0030-AN07-6"-PT	LIQUID	22	115.4	18.1	59.9	829.1	33	Water	N	20%	-	A	1	
124	CDH	111	0023B	CS00	2	NP	V-2102-B	CDH-112-0024B-AN07-2'-PT	LIQUID	22	115.4	18.1	59.9	829.1	33	Water	N	100%	-	-	1	
125	CDH	112	0024B	AN07	2	PT	CDH-112-0023B-AN07-2'-PT	CDH-112-0030-AN07-6"-PT	LIQUID	22	115.4	18.1	59.9	829.1	33	Water	N	20%	-	A	1	
126	CDH	111	0023C	CS00	2	NP	V-2102-C	CDH-112-0024A-AN07-2'-PT	LIQUID	22	115.4	18.1	59.9	829.1	33	Water	N	100%	-	-	1	
127	CDH	112	0024C	AN07	2	PT	CDH-112-0023C-AN07-2'-PT	CDH-112-0030-AN07-6"-PT	LIQUID	22	115.4	18.1	59.9	829.1	33	Water	N	20%	-	A	1	
128	GAS	111	0051A	FN05	6	IS	C-2102-A	AE-2102-A	GAS	62	175	54.8	142.3	43	93	Water	N	75%	60	-	3	
129	GAS	111	0047A	FN05	2	PT	GAS-111-0051A-FN05-6"-IS	PSV2132A	GAS	62	175	54.8	142.3	43	93	Water	N	75%	-	B	2	



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							BK	GCS	PEDCO	120	PI	LI		0001	D00							
Item No.	LINE NUMBER						LINE DESCRIPTION			DESIGN		OPERATING		Density (kg/m3)	Test Press. (barg)	Test Service	PWHT	Radiography Testing (%)	Insulation Thickness	Paint Code	Critical Level	Calculation Number
	Fluid ID Code	Unit Serial No.	Piping Serial No.	Piping Class Code	Nominal Pipe Size	Insulation Code	From	To	Fluid Phase	Press. (barg)	Temp. (°C)	Press. (barg)	Temp. (°C)									
130	GAS	111	0048A	FN05	2	PT	GAS-111-0047A-FN05-2"-PT	PSV2133A	GAS	62	175	54.8	142.3	43	93	Water	N	75%	-	B	2	
131	FL	112	0021A	AN07	2	PT	GAS-111-0047A-FN05-2"-PT	FL-112-0022A-AN07-6"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
132	FL	112	0020A	AN07	6	PT	PSV2133A	FL-112-0022A-AN07-6"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	3	
133	FL	112	0022A	AN07	6	PT	PSV2132A	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	3	
134	GAS	111	0051B	FN05	6	IS	C-2102-B	AE-2102-B	GAS	62	175	54.8	142.3	43	93	Water	N	75%	60	-	3	
135	GAS	111	0047B	FN05	2	PT	GAS-111-0051B-FN05-6"-IS	PSV2132B	GAS	62	175	54.8	142.3	43	93	Water	N	75%	-	B	2	
136	GAS	111	0048B	FN05	2	PT	GAS-111-0047B-FN05-2"-PT	PSV2133B	GAS	62	175	54.8	142.3	43	93	Water	N	75%	-	B	2	
137	FL	112	0021B	AN07	2	PT	GAS-111-0047B-FN05-2"-PT	FL-112-0022B-AN07-6"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
138	FL	112	0020B	AN07	6	PT	PSV2133B	FL-112-0022B-AN07-6"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	3	
139	FL	112	0022B	AN07	6	PT	PSV2132B	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	3	
140	GAS	111	0051C	FN05	6	IS	C-2102-C	AE-2102-C	GAS	62	175	54.8	142.3	43	93	Water	N	75%	60	-	3	
141	GAS	111	0047C	FN05	2	PT	GAS-111-0051C-FN05-6"-IS	PSV-2132C	GAS	62	175	54.8	142.3	43	93	Water	N	75%	-	B	2	
142	GAS	111	0048C	FN05	2	PT	GAS-111-0047C-FN05-2"-PT	PSV-2133C	GAS	62	175	54.8	142.3	43	93	Water	N	75%	-	B	2	
143	FL	112	0021C	AN07	2	PT	GAS-111-0047C-FN05-2"-PT	FL-112-0022C-AN07-6"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
144	FL	112	0020C	AN07	6	PT	PSV-2133C	FL-112-0022C-AN07-6"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	3	
145	FL	112	0022C	AN07	6	PT	PSV-2132C	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	3	



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							BK	GCS	PEDCO	120	PI	LI	0001	D00								
Item No.	LINE NUMBER						LINE DESCRIPTION			DESIGN		OPERATING			Test Press. (barg)	Test Service	PWHT	Radiography Testing (%)	Insulation Thickness	Paint Code	Critical Level	Calculation Number
	Fluid ID Code	Unit Serial No.	Piping Serial No.	Piping Class Code	Nominal Pipe Size	Insulation Code	From	To	Fluid Phase	Press. (barg)	Temp. (°C)	Press. (barg)	Temp. (°C)	Density (kg/m³)								
146	CHM	112	0005A	FS00	3/4	NP	CHM-112-0021-FS00-1 1/2"-NP	GAS-111-0054A-FS00-2"-NP	LIQUID	74.4	85	62	amb.	850	111.6	Water	N	100%	-	-	-	
147	GAS	111	0054A	FS00	2	NP	GAS-111-0058A-FS00-6"-NP	BDV-2132A	GAS	62	175	54.1	60	59.6	93	Water	N	100%	-	-	1	
148	GAS	111	0082A	FS00	2	NP	GAS-111-0054A-FS00-2"-NP	SAFE AREA	GAS	62	175	54.1	60	59.6	93	Water	N	100%	-	-	1	
149	FL	112	0023A	AN07	2	PT	BDV-2132A	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
150	GAS	111	0058A	FS00	6	NP	AE-2102-A	GAS-111-0059-FS00-6"-NP	GAS	62	175	54.1	60	59.6	93	Water	N	100%	-	-	3	
151	GAS	111	0055A	FS00	6	PT	GAS-111-0058A-FS00-6"-NP	GAS-111-0058A-FS00-6"-NP	GAS	62	175	54.1	60	59.6	93	Water	N	100%	-	A	2	
152	GAS	111	0057A	FS00	4	NP	GAS-111-0055A-FS00-6"-NP	FL-112-0001-AN07-14"-PT	GAS	62	175	54.1	60	59.6	93	Water	N	100%	-	-	2	
153	CHM	112	0005B	FS00	3/4	NP	CHM-112-0021-FS00-1 1/2"-NP	GAS-111-0054B-FS00-2"-NP	LIQUID	74.4	85	62	amb.	850	111.6	Water	N	100%	-	-	-	
154	GAS	111	0054B	FS00	2	NP	GAS-111-0058B-FS00-6"-NP	BDV2132B	GAS	62	175	54.1	60	59.6	93	Water	N	100%	-	-	1	
155	GAS	111	0082B	FS00	2	NP	GAS-111-0054B-FS00-2"-NP	SAFE AREA	GAS	62	175	54.1	60	59.6	93	Water	N	100%	-	-	1	
156	FL	112	0023B	AN07	2	PT	BDV2132B	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
157	GAS	111	0158B	FS00	6	NP	AE-2102-B	GAS-111-0059-FS00-6"-NP	GAS	62	175	54.1	60	59.6	93	Water	N	100%	-	-	3	
158	GAS	111	0055B	FS00	6	PT	GAS-111-0058B-FS00-6"-NP	GAS-111-0058B-FS00-6"-NP	GAS	62	175	54.1	60	59.6	93	Water	N	100%	-	A	2	
159	GAS	111	0057B	FS00	4	NP	GAS-111-0055B-FS00-6"-NP	FL-112-0001-AN07-14"-PT	GAS	62	175	54.1	60	59.6	93	Water	N	100%	-	-	2	
160	CHM	112	0005C	FS00	3/4	NP	CHM-112-0021-FS00-1 1/2"-NP	GAS-111-0054C-FS00-2"-NP	LIQUID	74.4	85	62	amb.	850	111.6	Water	N	100%	-	-	-	
161	GAS	111	0054C	FS00	2	NP	GAS-111-0058C-FS00-6"-NP	BDV2132C	GAS	62	175	54.1	60	59.6	93	Water	N	100%	-	-	1	



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							BK	GCS	PEDCO	120	PI	LI		0001	D00							
Item No.	LINE NUMBER						LINE DESCRIPTION			DESIGN		OPERATING		Density (kg/m3)	Test Press. (barg)	Test Service	PWHT	Radiography Testing (%)	Insulation Thickness	Paint Code	Critical Level	Calculation Number
	Fluid ID Code	Unit Serial No.	Piping Serial No.	Piping Class Code	Nominal Pipe Size	Insulation Code	From	To	Fluid Phase	Press. (barg)	Temp. (°C)	Press. (barg)	Temp. (°C)									
162	GAS	111	0082C	FS00	2	NP	GAS-111-0054C-FS00-2"-NP	SAFE AREA	GAS	62	175	54.1	60	59.6	93	Water	N	100%	-	-	1	
163	FL	112	0023C	AN07	2	PT	BDV2132C	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
164	GAS	111	0158C	FS00	6	NP	AE-2102-C	GAS-111-0059-FS00-6"-NP	GAS	62	175	54.1	60	59.6	93	Water	N	100%	-	-	3	
165	GAS	111	0055C	FS00	6	PT	GAS-111-0058C-FS00-6"-NP	GAS-111-0058C-FS00-6"-NP	GAS	62	175	54.1	60	59.6	93	Water	N	100%	-	A	2	
166	GAS	111	0057C	FS00	4	NP	GAS-111-0055C-FS00-6"-NP	FL-112-0001-AN07-14"-PT	GAS	62	175	54.1	60	59.6	93	Water	N	100%	-	-	2	
167	CHM	112	0006	FS00	3/4	NP	CHM-112-0021-FS00-1 1/2"-NP	GAS-111-0065-FN05-2"-PT	LIQUID	74.4	85	62	amb.	850	111.6	Water	N	100%	-	-	-	
168	CHM	112	0010	FS00	3/4	NP	CHM-112-0003-FS00-1 1/2"-NP	GAS-111-0066-FN05-6"-PT	LIQUID	74.4	85	62	amb.	850	111.6	Water	N	100%	-	-	-	
169	GAS	111	0066	FN05	6	PT	V-2103	PK-2101	GAS	62	130	53.9	59.9	59.2	93	Water	N	75%	-	A	3	
170	GAS	111	0060	FN05	2	PT	V-2103	PSV-2141	GAS	62	130	53.9	59.9	59.2	93	Water	N	75%	-	A	2	
171	GAS	111	0062	FN05	2	PT	GAS-111-0060-FN05-2"-PT	PSV-2142	GAS	62	130	53.9	59.9	59.2	93	Water	N	75%	-	A	2	
172	FL	112	0026	AN07	2	PT	GAS-111-0060-FN05-2"-PT	FL-112-0027-AN07-8"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
173	FL	112	0025	AN07	8	PT	PSV-2142	FL-112-0027-AN07-8"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	3	
174	GAS	111	0065	FN05	2	PT	GAS-111-0066-FN05-6"-PT	BDV-2141	GAS	62	130	53.9	59.9	59.2	93	Water	N	75%	-	A	1	
175	FL	112	0001	AN07	3	PT	BDV-2141	FL-112-0027-AN07-8"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
176	FL	112	0027	AN07	8	PT	PSV-2141	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	3	
177	CDH	112	0025	FS00	2	NP	V-2103	CDH-112-0026-AN07-2"-PT	LIQUID	62	130	53.9	59.9	982	93	Water	N	100%	-	-	1	
178	CDH	112	0026	AN07	2	PT	CDH-112-0027-AN05-2"-PT	CDH-112-0030-AN07-6"-PT	LIQUID	5.5	85	0.5	amb	982	8.25	Water	N	20%	-	A	1	



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Item No.	LINE NUMBER						LINE DESCRIPTION			DESIGN		OPERATING			Test Press. (barg)	Test Service	PWHT	Radiography Testing (%)	Insulation Thickness	Paint Code	Critical Level	Calculation Number
	Fluid ID Code	Unit Serial No.	Piping Serial No.	Piping Class Code	Nominal Pipe Size	Insulation Code	From	To	Fluid Phase	Press. (barg)	Temp. (°C)	Press. (barg)	Temp. (°C)	Density (kg/m3)								
179	CDH	112	0027	AN05	2	PT	GAS-111-0059-FS00-6"-NP	CDH-112-0030-AN07-6"-PT	LIQUID	5.5	85	0.5	amb	982	8.25	Water	N	20%	-	A	1	
180	GAS	111	0059	FS00	6	NP	AE-2101-A/B/C	V-2103	GAS	62	175	54.1	60	59.6	93	Water	N	100%	-	-	3	
181	ISA	112	0002	AZ00	1	NP	ISA-112-0012-AZ00-2"-NP	PK-2101	GAS	12.5	85	8	65	9.3	13.75	Air	N	-	-	-	-	
182	FL	112	0028	AN07	4	PT	PK-2101	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	3	
183	GAS	111	0079	FN05	6	PT	GAS-111-0066-FN05-6"-PT	GAS-111-0179-FN05-6"-PT	GAS	62	130	53.9	59.9	59.2	93	Water	N	75%	-	A	2	
184	GAS	111	0179	FN05	6	PT	GAS-111-0079-FN05-6"-PT	PCV-2151	GAS	62	130	52.9	59.4	58.1	93	Water	N	75%	-	A	3	
185	GAS	111	0072	FN05	6	PT	PCV2151	PL-3101	GAS	62	130	50.9	58.3	55.9	93	Water	N	75%	-	A	3	
186	GAS	111	0090	FN05	4	PT	GAS-111-0179-FN05-6"-PT	GAS-111-0072-FN05-6"-PT	GAS	62	130	50.9	58.3	55.9	93	Water	N	75%	-	A	2	
187	GAS	111	0052	FN05	4	PT	GAS-111-0179-FN05-6"-PT	PCV2152	GAS	62	130	50.9	58.3	55.9	93	Water	N	75%	-	A	2	
188	GAS	111	0091	FN05	3	PT	GAS-111-0052-FN05-4"-PT	FL-112-0129-AN07-6"-PT	GAS	62	130	50.9	58.3	55.9	93	Water	N	75%	-	A	2	
189	GAS	111	0071	FN05	4	PT	GAS-111-0179-FN05-6"-PT	BDV2151	GAS	62	130	52.9	59.4	58.1	93	Water	N	75%	-	A	2	
190	FL	112	0129	AN07	4	PT	PCV-2152	FL-112-0029-AN07-6"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	2	
191	FL	112	0029	AN07	6	PT	FL-112-0129-AN07-6"-PT	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	2	
192	FL	112	0002	AN07	4	PT	BDV-2151	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	2	
193	CDH	112	0029	AN05	2	PT	PK-2101	CLOSED DRAIN HEADER	LIQUID	5.5	85	0.5	amb	982	8.25	Water	N	20%	-	A	1	
194	TEG	111	0001	AN04	2	PT	P-2103 A/B	PK-2101	LIQUID	2.9	85	2.1	amb	1115	4.35	Water	N	10%	-	A	2	
195	FL	112	0030	AN07	2	PT	LCP-2101	LP FLARE HEADER	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
196	CDH	112	0040	AN07	2	PT	LCV	CLOSED DRAIN HEADER	LIQUID	5.5	85	0.5	amb	982	8.25	Water	N	20%	-	A	1	



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							BK	GCS	PEDCO	120	PI	LI		0001	D00							
Item No.	LINE NUMBER						LINE DESCRIPTION			DESIGN		OPERATING		Test Press. (barg)	Test Service	PWHT	Radiography Testing (%)	Insulation Thickness	Paint Code	Critical Level	Calculation Number	
	Fluid ID Code	Unit Serial No.	Piping Serial No.	Piping Class Code	Nominal Pipe Size	Insulation Code	From	To	Fluid Phase	Press. (barg)	Temp. (°C)	Press. (barg)	Temp. (°C)									Density (kg/m³)
197	FLG	112	0003	AN07	2	PT	V-2205	PK-2101	GAS	9	85	4.9	36.8	5.8	13.5	Water	N	20%	-	A	1	
198	TEG	111	0002	AN04	2	PT	P-2103A	TEG-111-0006-AN04-2"-PT	LIQUID	2.9	85	2.1	amb	1115	4.35	Water	N	10%	-	A	2	
199	TEG	111	0004	AN04	2	PT	TK-2102	P-2103A	LIQUID	3.5	85	0.5	amb	1115	5.25	Water	N	10%	-	A	2	
200	TEG	111	0020	AN04	2	PT	TEG-111-0002-AN04-2"-PT	TEG-111-0003-AN04-2"-PT	LIQUID	3.5	85	0.5	amb	1115	5.25	Water	N	10%	-	A	1	
201	TEG	111	0003	AN04	2	PT	TEG-111-0020-AN04-2"-PT	P-2103A	LIQUID	3.5	85	0.5	amb	1115	5.25	Water	N	10%	-	A	2	
202	TEG	111	0005	AN04	2	PT	TEG-111-0004-AN04-2"-PT	P-2103B	LIQUID	3.5	85	0.5	amb	1115	5.25	Water	N	10%	-	A	2	
203	TEG	111	0006	AN04	2	PT	P-2103B	TEG-111-0001-AN04-2"-PT	LIQUID	2.9	85	2.1	amb	1115	4.35	Water	N	10%	-	A	2	
204	TEG	111	0007	AN04	2	PT	P-2102	TK-2102	LIQUID	1.9	85	1.5	amb	1115	2.85	Water	N	10%	-	A	2	
205	TEG	111	0008	AN04	2	PT	BARREL DIP PIPE FOR GLYCOL	P-2102	LIQUID	3.5	85	atm	amb	1115	5.25	Water	N	10%	-	A	2	
206	TEG	111	0021	AN04	2	PT	TK-2102	OWA-112-0001-AN01-4"-PT	LIQUID	3.5	85	0.5	amb	1115	5.25	Water	N	10%	-	A	1	
207	TEG	111	0028	AN04	3	PT	P-2103 A/B	GLYCOL DRAIN HEADER	LIQUID	2.9	85	2.1	amb	1115	4.35	Water	N	10%	-	A	1	
208	OWA	112	0001	AN01	4	PT	TEG-111-0021-AN04-2"-PT	OWA-BK-7114-AN01-4"-PT	LIQUID	3.5	85	2	amb	1024	5.25	Water	N	5%	-	A	1	
209	NIT	112	0010	AN01	1	PT	NIT-112-0021-AN01-2"-PT	TK-2102	GAS	12.5	85	8	60	8.6	13.75	Water	N	5%	-	A	-	
210	ISA	112	0012	AZ00	3	NP	PK-DR-2203	V-2203	GAS	12.5	85	8	65	9.3	13.75	Air	N	-	-	-	1	
211	PLA	112	0010	AN04	1 1/2	PT	PK-DR-2203	PCV-2201	GAS	12.5	amb	4.5	60	5.7	13.75	Air	N	5%	-	A	-	
212	ISA	112	0112	AZ00	3	NP	ISA-112-0012-AZ00-3"-NP	ISA-112-0007-AN04-2"-PT	GAS	12.5	85	8	65	9.3	13.75	Air	N	-	-	-	1	



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							BK	GCS	PEDCO	120	PI	LI		0001	D00							
Item No.	LINE NUMBER						LINE DESCRIPTION			DESIGN		OPERATING			Test Press. (barg)	Test Service	PWHT	Radiography Testing (%)	Insulation Thickness	Paint Code	Critical Level	Calculation Number
	Fluid ID Code	Unit Serial No.	Piping Serial No.	Piping Class Code	Nominal Pipe Size	Insulation Code	From	To	Fluid Phase	Press. (barg)	Temp. (°C)	Press. (barg)	Temp. (°C)									
213	ISA	112	0007	AZ00	2	PT	V-2203	PRV-2201	GAS	12.5	85	8	65	9.3	13.75	Air	N	5%	-	A	1	
214	ISA	112	0008	AZ00	2	PT	PLA-112-0009-AN04-2"-PT	PSV2201A	GAS	12.5	85	8	65	9.3	13.75	Air	N	5%	-	A	2	
215	ISA	112	0009	AZ00	2	PT	V-2203	PSV2201B	GAS	12.5	85	8	65	9.3	13.75	Air	N	5%	-	A	2	
216	ISA	112	0012	AZ00	2	NP	PRV2201	INSTRUMENT HEADER	GAS	12.5	85	8	65	9.3	13.75	Air	N	-	-	-	1	
217	NIT	112	0020	AN01	2	PT	PK-G-2204	V-2204	GAS	12.5	85	8	60	8.6	13.75	Water	N	5%	-	A	1	
218	NIT	112	0023	AN01	2	PT	V-2204	PSV2211B	GAS	12.5	85	8	60	8.6	13.75	Water	N	5%	-	A	2	
219	NIT	112	0022	AN01	2	PT	NIT-112-0023-AN01-2"-PT	PSV2211A	GAS	12.5	85	8	60	8.6	13.75	Water	N	5%	-	A	2	
220	NIT	112	0021	AN01	2	PT	V-2204	PCV2211	GAS	12.5	85	8	60	8.6	13.75	Water	N	5%	-	A	1	
221	NIT	112	0025	AN01	2	PT	NIT-112-0020-AN01-2"-PT	NIT-112-0021-AN01-2"-PT	GAS	12.5	85	8	60	8.6	13.75	Water	N	5%	-	A	1	
222	NIT	112	0026	AN01	X	PT	NIT-112-0021-AN01-2"-PT	NIT-112-0024-AN01-2"-PT	GAS	12.5	85	8	60	8.6	13.75	Water	N	5%	-	A	1	
223	NIT	112	0024	AN01	2	PT	NIT-112-0021-AN01-2"-PT	CONSUMTION POINTS	GAS	12.5	85	8	60	8.6	13.75	Water	N	5%	-	A	1	
224	CDH	112	0030	AN07	6	PT	ALL DRAIN POINTS	V-2202	LIQUID	5.5	85	0.5	amb	982	8.25	Water	N	20%	-	A	2	
225	FL	112	0031	AN07	6	PT	V-2202	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	2	
226	CDH	112	0031	AN07	2	PT	V-2202	P-2202 A/B	LIQUID	5.5	85	0.5	amb	982	8.25	Water	N	20%	-	A	2	
227	CDH	112	0032	AN07	2	PT	P-2202 A	CDH-112-0033-AN07-2"-PT	LIQUID	7.7	85	1.7	amb	980	11.55	Water	N	20%	-	A	2	
228	CDH	112	0033	AN07	2	PT	P-2202 B	EXISTING BURN PIT	LIQUID	7.7	85	1.7	amb	980	11.55	Water	N	20%	-	A	2	
229	CDH	112	0145	AN07	2	PT	CDH-112-0038-AN07-2"-PT	CDH-112-0033-AN07-2"-PT	LIQUID	7.7	85	1.7	amb	980	11.55	Water	N	20%	-	A	1	
230	OWA	112	0003	AN01	2	PT	P-2203 A	OWA-112-0004-AN01-2"-PT	LIQUID	3.5	85	2	amb	1024	5.25	Water	N	5%	-	A	2	



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							BK	GCS	PEDCO	120	PI	LI		0001	D00							
Item No.	LINE NUMBER						LINE DESCRIPTION			DESIGN		OPERATING		Density (kg/m3)	Test Press. (barg)	Test Service	PWHT	Radiography Testing (%)	Insulation Thickness	Paint Code	Critical Level	Calculation Number
	Fluid ID Code	Unit Serial No.	Piping Serial No.	Piping Class Code	Nominal Pipe Size	Insulation Code	From	To	Fluid Phase	Press. (barg)	Temp. (°C)	Press. (barg)	Temp. (°C)									
231	OWA	112	0004	AN01	2	PT	P-2203 B	OWA-BK-7114-AN01-4"-PT	LIQUID	3.5	85	2	amb	1024	5.25	Water	N	5%	-	A	2	
232	CDH	112	0008	AN07	2	PT	CDH-112-0033-AN07-2"-PT	OWA-112-0004-AN01-2"-PT	LIQUID	2.5	85	2	amb	1024	3.75	Water	N	20%	-	A	1	
233	CDH	112	0130	AN07	6	PT	CDH-112-0030-AN07-6"-PT	EXISTING BURN PIT	LIQUID	5.5	85	0.5	amb	982	8.25	Water	N	20%	-	A	2	
234	CDH	113	0001	AN07	8	PT	PL-3201	CDH-112-0030-AN07-6"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Water	N	20%	-	B	2	
235	DO	112	0009	AN01	3	PT	DO-112-0012-AN01-2"-PT	PK-TK-2207	LIQUID	3.5	85	1	amb	850	5.25	Water	N	5%	-	A	2	
236	CHM	112	0003	FS00	1 1/2	NP	PK-TK-2207	CONSUMTION POINTS	LIQUID	74.4	85	62	amb.	850	111.6	Water	N	100%	-	-	-	
237	CHM	112	0003	AS00	1 1/2	NP	PK-TK-2207	CONSUMTION POINTS	LIQUID	10.8	85	9	amb.	850	16.2	Water	N	100%	-	-	-	
238	CHM	112	0020	AS00	3/4	NP	CHM-112-0003-AS00-1 1/2"-NP	FLG-112-0110-AN07-2"-PT	LIQUID	10.8	85	9	amb.	850	16.2	Water	N	100%	-	-	-	
239	CDH	112	0034	AN07	2	PT	PK-TK-2207	CDH-112-0030-AN07-6"-PT	LIQUID	5.5	85	0.5	amb	982	8.25	Water	N	20%	-	A	1	
240	OWA	112	0005	AN01	4	PT	PK-TK-2207	OWA-BK-7114-AN01-4"-PT	LIQUID	3.5	85	2	amb	1024	5.25	Water	N	5%	-	A	2	
241	NIT	112	0023	AN01	1	PT	NIT-112-0024-AN01-2"-PT	PK-TK 2208	GAS	12.5	85	8	60	8.6	13.75	Water	N	5%	-	A	-	
242	CHM	112	0021	FS00	1 1/2	NP	PK-TK 2208	CONSUMTION POINTS	LIQUID	74.4	85	62	amb.	850	111.6	Water	N	100%	-	-	-	
243	CDH	112	0035	AN07	2	PT	PK-TK 2208	CDH-112-0030-AN07-6"-PT	LIQUID	5.5	85	0.5	amb	982	8.25	Water	N	20%	-	A	1	
244	OWA	112	0006	AN01	4	PT	PK-TK 2208	OWA-BK-7114-AN01-4"-PT	LIQUID	3.5	85	2	amb	1024	5.25	Water	N	5%	-	A	2	
245	FL	112	0001	AN07	14	PT	ALL FLARE POINTS	V-2201	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	3	
246	FL	112	0004	AN07	16	PT	V-2201	FST-2201	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	Y	20%	-	B	3	
247	FL	113	0001	AN01	8	PT	PL-3201	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	A	2	
248	CDH	112	0036	AN07	2	PT	V-2201	P-2201 A/B	LIQUID	5.5	85	0.5	amb	982	8.25	Water	N	20%	-	A	1	



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Item No.	LINE NUMBER						LINE DESCRIPTION			DESIGN		OPERATING		Density (kg/m3)	Test Press. (barg)	Test Service	PWHT	Radiography Testing (%)	Insulation Thickness	Paint Code	Critical Level	Calculation Number
	Fluid ID Code	Unit Serial No.	Piping Serial No.	Piping Class Code	Nominal Pipe Size	Insulation Code	From	To	Fluid Phase	Press. (barg)	Temp. (°C)	Press. (barg)	Temp. (°C)									
249	CDH	112	0037	AN07	2	PT	P-2201 B	CDH-112-0038-AN07-2"-PT	LIQUID	5.5	85	0.5	amb	982	8.25	Water	N	20%	-	A	2	
250	CDH	112	0038	AN07	2	PT	P-2201 A	CDH-112-0030-AN07-6"-PT	LIQUID	5.5	85	0.5	amb	982	8.25	Water	N	20%	-	A	2	
251	CDH	112	0045	AN07	2	PT	CDH-112-0038-AN07-2"-PT	EXISTING BURN PIT	LIQUID	5.5	85	0.5	amb	980	13.5	Water	N	20%	-	A	1	
252	FLG	112	0010	AN07	2	PT	FLG-112-0110-AN07-2"-PT	IG-2201	GAS	9	85	4.9	36.8	5.8	13.5	Water	N	20%	-	A	1	
253	FLG	112	0005	AN07	2	PT	IG-2201	FST-2201	GAS	9	85	4.9	36.8	5.8	8.25	Water	N	5%	-	B	1	
254	OWA	BK	7114	AN01	4	PT	ALL OILY WATER POINTS	SU-2202	LIQUID	3.5	85	2	amb	1024	5.25	Water	N	5%	-	A	2	
255	OWA	113	0001	AN01	2	PT	PL-3201	OWA-BK-7114-AN01-4"-PT	LIQUID	3.5	85	2	amb	1024	5.25	Water	N	5%	-	A	1	
256	FLG	112	0006	AN07	2	PT	PCV2272	V-2205	GAS	9	85	4.9	36.8	5.8	13.5	Water	N	20%	-	A	1	
257	FLG	112	0110	AN07	2	PT	V-2205	PRV2272	GAS	9	85	4.9	36.8	5.8	13.5	Water	N	20%	-	A	1	
258	FL	112	0040	AN07	2	PT	PRV2272	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
259	FLG	112	0116	AN07	2	PT	V-2205	PSV2271A	GAS	9	85	4.9	36.8	5.8	13.5	Water	N	20%	-	A	2	
260	FL	112	0034	AN07	2	PT	PSV2271A	FL-112-0001-AN07-14"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	2	
261	FLG	112	0009	AN07	2	PT	FLG-112-0008-AN07-2"-PT	PSV2271B	GAS	9	85	4.9	36.8	5.8	13.5	Water	N	20%	-	A	2	
262	FL	112	0032	AN07	2	PT	PSV2271B	FL-112-0034-AN07-2"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	2	
263	FL	112	0033	AN07	2	PT	FLG-112-0009-AN07-2"-PT	FL-112-0034-AN07-2"-PT	GAS	5.5	85	0.5	30-200	1.5	8.25	Air	N	20%	-	B	1	
264	CDH	112	0039	AN07	2	PT	V-2205	CDH-112-0030-AN07-6"-PT	LIQUID	9	85	4.9	36.8	842.7	13.5	Water	N	20%	-	A	1	
265	FLG	112	0106	AN07	2	PT	FLG-112-0006-AN07-2"-PT	FLG-112-0110-AN07-2"-PT	GAS	9	85	4.9	36.8	5.8	13.5	Water	N	20%	-	A	1	
266	DO	112	0001	AN07	2	PT	TRUCK	DO-112-0007-AN01-2"-PT	LIQUID	3.5	85	0.1	amb	850	5.25	Water	N	20%	-	A	1	



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Item No.	LINE NUMBER						LINE DESCRIPTION			DESIGN		OPERATING		Density (kg/m3)	Test Press. (barg)	Test Service	PWHT	Radiography Testing (%)	Insulation Thickness	Paint Code	Critical Level	Calculation Number
	Fluid ID Code	Unit Serial No.	Piping Serial No.	Piping Class Code	Nominal Pipe Size	Insulation Code	From	To	Fluid Phase	Press. (barg)	Temp. (°C)	Press. (barg)	Temp. (°C)									
267	DO	112	0007	AN01	2	PT	V-2206	P-2206	LIQUID	3.5	85	0.1	amb	850	5.25	Water	N	5%	-	A	2	
268	DO	112	0002	AN01	2	PT	DO-112-0007-AN01-2"-PT	DO-112-0012-AN01-2"-PT	LIQUID	3.5	85	1	amb	850	5.25	Water	N	5%	-	A	1	
269	DO	112	0010	AN01	2	PT	DO-112-0012-AN01-2"-PT	P-2302 B/C	LIQUID	3.5	85	1	amb	850	5.25	Water	N	5%	-	A	2	
270	DO	112	0011	AN01	2	PT	DO-112-0012-AN01-2"-PT	DIESEL GENERATOR PACKAGE	LIQUID	3.5	85	1	amb	850	5.25	Water	N	5%	-	A	1	
271	OWA	112	0009	AN01	4	PT	ALL OILY WATER POINTS	OWA-BK-7114-AN01-4"-PT	LIQUID	3.5	85	2	amb	1024	5.25	Water	N	5%	-	A	2	
272	DO	112	0004	AN01	2	PT	DO-112-0012-AN01-2"-PT	V-2206	LIQUID	3.5	85	1	amb	850	5.25	Water	N	5%	-	A	1	
273	DO	112	0006	AN01	1	PT	DO-112-0002-AN01-2"-PT	TSV2261	LIQUID	3.5	85	1	amb	850	5.25	Water	N	5%	-	A	-	
274	DO	112	0005	AN01	1	PT	TSV2261	DO-112-0004-AN01-2"-PT	LIQUID	3.5	85	1	amb	850	5.25	Water	N	5%	-	A	-	
275	DO	112	0012	AN01	2	PT	P-2206	ALL DIESEL OIL CONSUMTION	LIQUID	3.5	85	1	amb	850	5.25	Water	N	5%	-	A	2	
276	PTW	112	0001	AZ00	2	NP	TRUCK	P-2209	LIQUID	3.5	85	0.15	amb	1000	5.25	Water	N	-	-	-	1	
277	PTW	112	0002	AZ00	2	NP	PTW-112-0002-AZ00-2"-NP	PTW-112-0003-AZ00-2"-NP	LIQUID	3.5	85	2	amb	1000	5.25	Water	N	-	-	-	1	
278	PTW	112	0003	AZ00	2	NP	P-2209	TK-2209	LIQUID	3.5	85	2	amb	1000	5.25	Water	N	-	-	-	2	
279	PTW	112	0006	AZ00	2	NP	PTW-112-0002-AZ00-2"-NP	PTW-112-0009-AZ00-2"-NP	LIQUID	3.5	85	2	amb	1000	5.25	Water	N	-	-	-	1	
280	PTW	112	0005	AZ00	2	NP	TK-2209	OPEN DRAIN	LIQUID	3.5	85	1	amb	1000	5.25	Water	N	-	-	-	1	
281	PTW	112	0009	AZ00	2	NP	TK-2209	ALL WATER CONSUMTION	LIQUID	3.5	85	1	amb	1000	5.25	Water	N	-	-	-	1	
282	PTW	112	0008	AX02	2	UW	PTW-112-0009-AZ00-2"-NP	PLANT WATER	LIQUID	3.5	85	1	amb	1000	5.25	Water	N	-	-	-	1	
283	PTW	112	0019	AX02	2	UW	PTW-112-0009-AZ00-2"-NP	TOILET BLOCK BUILDING	LIQUID	3.5	85	1	amb	1000	5.25	Water	N	-	-	-	1	



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							BK	GCS	PEDCO	120	PI	LI		0001		D00						
Item No.	LINE NUMBER						LINE DESCRIPTION			DESIGN		OPERATING			Test Press. (barg)	Test Service	PWHT	Radiography Testing (%)	Insulation Thickness	Paint Code	Critical Level	Calculation Number
	Fluid ID Code	Unit Serial No.	Piping Serial No.	Piping Class Code	Nominal Pipe Size	Insulation Code	From	To	Fluid Phase	Press. (barg)	Temp. (°C)	Press. (barg)	Temp. (°C)	Density (kg/m3)								
284	PTW	112	0010	AX02	2	UW	PTW-112-0009-AZ00-2"-NP	GUARD HOUSE BUILDING	LIQUID	3.5	85	1	amb	1000	5.25	Water	N	-	-	-	1	
285	PTW	112	0011	AX02	2	UW	PTW-112-0009-AZ00-2"-NP	EMERGENCY SHOWER	LIQUID	3.5	85	1	amb	1000	5.25	Water	N	-	-	-	1	
286	NIT	112	0005	AN01	1	PT	NIT-112-0024-AN01-2"-PT	PRV2291	GAS	12.5	85	8	60	8.6	13.75	Water	N	5%	-	A	-	
287	NIT	111	0009	AN04	1	PT	PRV2291	V-2107	GAS	12.5	85	8	60	8.6	13.75	Water	N	5%	-	A	-	
288	NIT	111	0010	AN04	1	PT	V-2107	PRV2292	GAS	12.5	85	8	60	8.6	13.75	Water	N	5%	-	A	-	
289	TEG	111	0011	AN04	2	PT	V-2107	PK-2101	LIQUID	2.9	85	2.1	amb	1115	4.35	Water	N	10%	-	A	1	
290	TEG	111	0010	AN04	2	PT	PK-2101	V-2107	LIQUID	3.5	85	2.1	amb	1115	5.25	Water	N	10%	-	A	1	