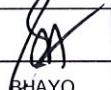


						
RUMAILA PROJECT						
Document Number :	100478CP-N-PG-PP01-PR-LST-0001			Class	B	
Document Title :	LINE LIST					
Project Title:	EARLY POWER PLANT PROJECT, RUMAILA OIL FIELD, IRAQ					
Tag No's (if applicable)	N/A					
Contractor:	CHINA PETROLEUM ENGINEERING & CONSTRUCTION CORPORATION					
Contractor Document No:	481845-301-PR-LIS-0006			Rev	D04	
D04	ISSUED FOR USE (DETAILED DESIGN)	28-Aug-16				
			FAHAD A.R.	V UPADHYAY	A. BHAYO	S.QAZI
D03	ISSUED FOR USE (DETAILED DESIGN)	14-Jun-16				
			FAHAD A.R.	V UPADHYAY	A. BHAYO	S.QAZI
D02	ISSUED FOR USE (DETAILED DESIGN)	4-Feb-16				
			S.IRFAN	V UPADHYAY	A. BHAYO	S.QAZI
D01	ISSUED FOR USE (DETAILED DESIGN)	5-Jan-16				
			S.IRFAN	V UPADHYAY	A. BHAYO	S.QAZI
G01	ISSUED FOR REVIEW (DETAILED DESIGN)	30-Nov-15				
			S.IRFAN	V UPADHYAY	T.THOROGOOD	S.QAZI
B01	ISSUED FOR USE	13-Aug-15				
			V UPADHYAY	S.IRFAN	T.THOROGOOD	S.QAZI
Rev.	Revision Description	Date	Originated	Reviewed	Approved	



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REVISION DESCRIPTION SHEET



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING				OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION	
							MEDIUM	PHASE	FROM	TO	TEMP. °C	PRESS. Barg	TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N	

DS-1 PCV STATION

10	GF	361	1001	B03F9	100478CP-N-PG-PP01-PR-PID-0002-001	01/01	FUEL GAS	GAS	TP 001 (10"-PG-DS01-20-0801-A03E2B)	PV-1001	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N	Two Phase	
16	GF	361	1002	B03F9	100478CP-N-PG-PP01-PR-PID-0002-001	01/01	FUEL GAS	GAS	PV-1001	20"-PP01-361-GF0001-B03F9	20	80	10	11	-29/100	45	-	40	PP	-	Water	67.5	N	Two Phase	
10	GF	361	2001	B03F9	100478CP-N-PG-PP01-PR-PID-0002-001	01/01	FUEL GAS	GAS	TP 002 (10"-PG-DS01-20-0802-A03E2B)	PV-2001	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N	Two Phase	
16	GF	361	2002	B03F9	100478CP-N-PG-PP01-PR-PID-0002-001	01/01	FUEL GAS	GAS	PV-2001	20"-PP01-361-GF0001-B03F9	20	80	10	11	-29/100	45	-	40	PP	-	Water	67.5	N	Two Phase	
10	GF	361	3001	B03F9	100478CP-N-PG-PP01-PR-PID-0002-001	01/01	FUEL GAS	GAS	TP 005 (10"-PG-DS01-20-0803-A03E2B)	PV-3001	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N	Two Phase	
16	GF	361	3002	B03F9	100478CP-N-PG-PP01-PR-PID-0002-001	01/01	FUEL GAS	GAS	PV-3001	20"-PP01-361-GF0001-B03F9	20	80	10	11	-29/100	45	-	40	PP	-	Water	67.5	N	Two Phase	
20	GF	361	0001	B03F9	100478CP-N-PG-PP01-PR-PID-0002-001	01/01	FUEL GAS	GAS	16"-PP01-361-GF1002-B03F9 16"-PP01-361-GF2002-B03F9 16"-PP01-361-GF3002-B03F9	DS-1 SCRAPER LAUNCHER (PP01-361-V001)	20	80	10	11	-29/100	45	-	40	PP	-	Water	67.5	N	Two Phase	
1	KJ	520	0003	C06A9	100478CP-N-PG-PP01-PR-PID-0002-001	01/01	CORROSION INHIBITOR	LIQUID	1"-PP01-520-KJ0001-C06A9	10"-PP01-361-GF2001-B03F9	20	50	10	11	-2/85	45	-	N	NI	-	Water	67.5	N		
1	KJ	520	0004	C06A9	100478CP-N-PG-PP01-PR-PID-0002-001	01/01	CORROSION INHIBITOR	LIQUID	1"-PP01-520-KJ0001-C06A9	10"-PP01-361-GF3001-B03F9	20	50	10	11	-2/85	45	-	N	NI	-	Water	67.5	N		

DS-3 PCV STATION

8	GF	361	1003	B03F9	100478CP-N-PG-PP01-PR-PID-0003-001	01/01	FUEL GAS	GAS	TP 003 (8"-PG-DS03-20-0801-A03E2B)	PCV-1011A/B	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N	Two Phase	
16	GF	361	1004	B03F9	100478CP-N-PG-PP01-PR-PID-0003-001	01/01	FUEL GAS	GAS	PCV-1011A/B	20"-PP01-361-GF0002-B03F9	20	80	10	11	-29/100	45	-	40	PP	-	Water	67.5	N	Two Phase	
8	GF	361	2003	B03F9	100478CP-N-PG-PP01-PR-PID-0003-001	01/01	FUEL GAS	GAS	TP 004 (8"-PG-DS03-20-0801-A03E2B)	PCV-2011A/B	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N	Two Phase	
16	GF	361	2004	B03F9	100478CP-N-PG-PP01-PR-PID-0003-001	01/01	FUEL GAS	GAS	PCV-2011A/B	20"-PP01-361-GF0002-B03F9	20	80	10	11	-29/100	45	-	40	PP	-	Water	67.5	N	Two Phase	
20	GF	361	0002	B03F9	100478CP-N-PG-PP01-PR-PID-0003-001	01/01	FUEL GAS	GAS	16"-PP01-361-GF1004-B03F9 16"-PP01-361-GF2004-B03F9	DS-3 SCRAPER LAUNCHER (PP01-361-V003)	20	80	10	11	-29/100	45	-	40	PP	-	Water	67.5	N	Two Phase	
20	GF	361	0068	B03F9	100478CP-N-PG-PP01-PR-PID-0003-001	01/01	FUEL GAS	GAS	20"-PP01-361-GF0002-B03F9	DS-3 GAS PIPELINE KNOCK OUT DRUM (PP01-361-V005)	20	80	10	11	-29/100	45	-	40	PP	-	Water	67.5	N	Two Phase	
1	KJ	520	0005	C06A9	100478CP-N-PG-PP01-PR-PID-0003-001	01/01	CORROSION INHIBITOR	LIQUID	1"-PP01-520-KJ0002-C06A9	8"-PP01-361-GF2003-B03F9	20	50	10	11	-2/85	45	-	N	NI	-	Water	67.5	N		

SCRAPER LAUNCHER (DS-1)

8	GF	361	0003	B03E7	100478CP-N-PG-PP01-PR-PID-0004-001	01/01	FUEL GAS	GAS	20"-PP01-361-GF0001-B03F9	DS-1 SCRAPER LAUNCHER (361-V001)	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N		
20	GF	361	0004	B03F9	100478CP-N-PG-PP01-PR-PID-0004-001	01/01	FUEL GAS	GAS	20"-PP01-361-GF0001-B03F9	20"-PP01-361-GF0006-API5L	20	80	10	11	-29/100	45	-	40	PP	-	Water	67.5	N		
4	GF	361	0005	B03																					



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
20	GF	361	0006	API5L	100478CP-N-PG-PP01-PR-PID-0004-001	01/01	FUEL GAS	GAS	DS-1 SCRAPER LAUNCHER (361-V001)	20"-PP01-361-GF0007-API5L	20	80	10	11	-29/100	45	-	40	PP	-	Water	56.25	N		
20	GF	361	0007	API5L	100478CP-N-PG-PP01-PR-PID-0004-001	01/01	FUEL GAS	GAS	20"-PP01-361-GF0006-API5L	DS-1 SCRAPER RECEIVER (PP01-361-V002)	20	80	10	11	-29/100	45	-	40	PP	-	Water	56.25	N		
3	GF	361	0008	B03E7	100478CP-N-PG-PP01-PR-PID-0004-001	01/01	FUEL GAS	GAS	DS-1 SCRAPER LAUNCHER (PP01-361-V001)	361-PSV0001	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N		
2	GF	361	0009	B03E7	100478CP-N-PG-PP01-PR-PID-0004-001	01/01	FUEL GAS	GAS	DS-1 SCRAPER LAUNCHER (PP01-361-V001)	2"-PP01-502-VO0001-B01B8	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N		
2	GF	361	0010	B03E7	100478CP-N-PG-PP01-PR-PID-0004-001	01/01	FUEL GAS	GAS	DS-1 SCRAPER LAUNCHER (PP01-361-V001)	2"-PP01-361-GF0009-B03E7	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N		
4	DK	512	0001	B03E8	100478CP-N-PG-PP01-PR-PID-0004-001	01/01	PROCESS CONDENSATE	LIQUID	DS-1 SCRAPER LAUNCHER (PP01-361-V001)	4"-PP01-512-DK0002-B03E8	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N	NNF	
4	DK	512	0002	B03E8	100478CP-N-PG-PP01-PR-PID-0004-001	01/01	HYDROCARBONS / WATER	LIQUID	DS-1 SCRAPER LAUNCHER (PP01-361-V001)	4"-PP01-512-DK0003-B01M8	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N	NNF	
4	DK	512	0003	B01M8	100478CP-N-PG-PP01-PR-PID-0004-001	01/01	HYDROCARBONS / WATER	LIQUID	4"-PP01-512-DK0002-B03E8	DS-1 CLOSED DRAIN SYSTEM	20	80	0.1	-	85	18	-	30	PP	-	Water	27	N	NNF	
2	VO	502	0001	B01B8	100478CP-N-PG-PP01-PR-PID-0004-001	01/01	HYDROCARBONS / WATER	GAS	2"-PP01-361-GF0009-B03E7	TO SAFE LOCATION	-	-	-	-	-29/100	3.5	-	N	NI	-	Service	3.5	N	NNF	
4	VO	502	0002	B01B8	100478CP-N-PG-PP01-PR-PID-0004-001	01/01	FUEL GAS	GAS	361-PSV0001	TO SAFE LOCATION	-	-	-	-	-29/100	3.5	-	N	NI	-	Service	3.5	N	NNF	
2	GN	567	0078	B01H9	100478CP-N-PG-PP01-PR-PID-0004-001	01/01	NITROGEN	GAS	PORTABLE NITROGEN CONNECTION	DS-1 SCRAPER LAUNCHER (PP01-361-V001)	12	63	5	8.5	-2/85	12		N	NI		Air	13.2	N		
2	AM	564	0016	C01A9	100478CP-N-PG-PP01-PR-PID-0004-001	01/01	INSTRUMENT AIR	GAS	DS-1 INSTRUMENT AIR DISTRIBUTION HEADER	361-EZV0001	12	63	4	9.4	-2/85	12		N	NI	-	Air	13.2	N		
-	-	361	V001-TX0001	B03E7	100478CP-N-PG-PP01-PR-PID-0004-001	01/01	-	-	-	-	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N	TRIM	

SCRAPER RECEIVER (DS-1)

20	GF	361	0011	API5L	100478CP-N-PG-PP01-PR-PID-0005-001	01/01	FUEL GAS	GAS	20"-PP01-361-GF0007-API5L	DS-1 SCRAPER RECEIVER (PP01-361-V002)	20	80	10	11	-29/100	45	-	40	PP	-	Water	56.25	N		
4	GF	361	0012	B03E7	100478CP-N-PG-PP01-PR-PID-0005-001	01/01	FUEL GAS	GAS	DS-1 SCRAPER RECEIVER (PP01-361-V002)	8"-PP01-361-GF0017-B03E7	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N		
3	GF	361	0013	B03E7	100478CP-N-PG-PP01-PR-PID-0005-001	01/01	FUEL GAS	GAS	DS-1 SCRAPER RECEIVER (PP01-361-V002)	361-PSV0002	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N		
16	GF	361	0014	B03F9	100478CP-N-PG-PP01-PR-PID-0005-001	01/01	FUEL GAS	GAS	20"-PP01-361-GF0007-API5L	FUEL GAS KNOCK OUT DRUM (PP01-362-V001)	20	80	10	11	-29/100	45	-	40	PP	-	Water	67.5	N		
2	GF	361	0015	B03E7	100478CP-N-PG-PP01-PR-PID-0005-001	01/01	FUEL GAS	GAS	DS-1 SCRAPER RECEIVER (PP01-361-V002)	2"-PP01-500-VK0002-B01B8	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N		
8	GF	361	0017	B03F9	100478CP-N-PG-PP01-PR-PID-0005-001	01/01	FUEL GAS	GAS	DS-1 SCRAPER RECEIVER (PP01-361-V002)	16"-PP01-361-GF0014-B03F9	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N		
2	GF	361	0018	B03E7	100478CP-N-PG-PP01-PR-PID-0005-001	01/01	FUEL GAS	GAS	DS-1 SCRAPER RECEIVER (PP01-361-V002)	2"-PP01-361-GF0015-B03E7	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N		
3	GF	361	0061	B03E9	100478CP-N-PG-PP01-PR-PID-0005-001	01/01	FUEL GAS	GAS	20"-PP01-361-GF0007-API5L	3"-PP01-500-VK0001-B01B8	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N		



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
4	PK	512	0001	B03E8	100478CP-N-PG-PP01-PR-PID-0005-001	01/01	PROCESS CONDENSATE	LIQUID	DS-1 SCRAPER RECEIVER (PP01-361-V002)	4"-PP01-512-PK0002-B01M8	20	80	0.1	-	-29/100	45	-	30	PP	-	Water	67.5	N		
4	PK	512	0002	B01M8	100478CP-N-PG-PP01-PR-PID-0005-001	01/01	PROCESS CONDENSATE	LIQUID	4"-PP01-512-PK0001-B03E8	4"-PP01-512-PK0051-B01M8	20	80	0.1	-	-20/150	10	-	N	NI	-	Water	15	N		
4	PK	512	0061	B03E8	100478CP-N-PG-PP01-PR-PID-0005-001	01/01	PROCESS CONDENSATE	LIQUID	DS-1 SCRAPER RECEIVER (PP01-361-V002)	4"-PP01-512-PK0001-B03E8	20	80	0.1	-	-29/100	45	-	30	PP	-	Water	67.5	N		
3	VK	500	0001	B01B8	100478CP-N-PG-PP01-PR-PID-0005-001	01/01	FUEL GAS	GAS	3"-PP01-361-GF0061-B03E9	HP FLARE HEADER (6"-PP01-500-VK0087-B01B8)	-	-	-	-	-29/200	10	-	N	NI	-	Air	15	N	NNF	
2	VK	500	0002	B01B8	100478CP-N-PG-PP01-PR-PID-0005-001	01/01	FUEL GAS	GAS	2"-PP01-361-GF0015-B03E7	3"-PP01-500-VK0001-B01B8	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
4	VK	500	0003	B01B8	100478CP-N-PG-PP01-PR-PID-0005-001	01/01	FUEL GAS	GAS	361-PSV0002	HP FLARE HEADER (6"-PP01-500-VK0087-B01B8)	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	GN	567	0079	B01H9	100478CP-N-PG-PP01-PR-PID-0005-001	01/01	NITROGEN	GAS	PORTABLE NITROGEN CONNECTION	DS-1 SCRAPER RECEIVER (PP01-361-V002)	12	63	5	8.5	-2/85	12		N	NI		Air	13.2	N		
-	-	361	V002-TX0001	B03E7	100478CP-N-PG-PP01-PR-PID-0005-001	01/01	-	-	-	-	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N	TRIM	

SCRAPER LAUNCHER (DS-3)

20	GF	361	0021	B03F9	100478CP-N-PG-PP01-PR-PID-0006-001	01/01	FUEL GAS	GAS	20"-PP01-361-GF0002-B03F9	20"-PP01-361-GF0020-API5L	20	80	10	11	-29/100	45	-	40	PP	-	Water	67.5	N		
8	GF	361	0019	B03E7	100478CP-N-PG-PP01-PR-PID-0006-001	01/01	FUEL GAS	GAS	20"-PP01-361-GF0021-B03F9	DS-3 SCRAPER LAUNCHER (PP01-361-V003)	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N		
4	GF	361	0024	B03E7	100478CP-N-PG-PP01-PR-PID-0006-001	01/01	FUEL GAS	GAS	8"-PP01-361-GF0019-B03E7	DS-3 SCRAPER LAUNCHER (PP01-361-V003)	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N		
20	GF	361	0020	API5L	100478CP-N-PG-PP01-PR-PID-0006-001	01/01	FUEL GAS	GAS	DS-3 SCRAPER LAUNCHER (PP01-361-V003)	20"-PP01-361-GF0025-API5L	20	80	10	11	-29/100	45	-	40	PP	-	Water	56.25	N		
20	GF	361	0025	API5L	100478CP-N-PG-PP01-PR-PID-0006-001	01/01	FUEL GAS	GAS	20"-PP01-361-GF0020-API5L	DS-3 SCRAPER RECEIVER (361-V004)	20	80	10	11	-29/100	45	-	40	PP	-	Water	56.25	N		
2	GF	361	0022	B03E7	100478CP-N-PG-PP01-PR-PID-0006-001	01/01	FUEL GAS	GAS	DS-3 SCRAPER LAUNCHER (PP01-361-V003)	2"-PP01-361-GF0026-B03E7	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N		
3	GF	361	0023	B03E7	100478CP-N-PG-PP01-PR-PID-0006-001	01/01	FUEL GAS	GAS	DS-3 SCRAPER LAUNCHER (PP01-361-V003)	361-PSV0003	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N		
2	GF	361	0026	B03E7	100478CP-N-PG-PP01-PR-PID-0006-001	01/01	FUEL GAS	GAS	DS-3 SCRAPER LAUNCHER (PP01-361-V003)	2"-PP01-502-V00004-B01B8	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N		
4	VO	502	0003	B01B8	100478CP-N-PG-PP01-PR-PID-0006-001	01/01	FUEL GAS	GAS	361-PSV0003	TO SAFE LOCATION	-	-	-	-	-29/100	3.5	-	N	NI	-	Service	3.5	N	NNF	
2	VO	502	0004	B01B8	100478CP-N-PG-PP01-PR-PID-0006-001	01/01	FUEL GAS	GAS	2"-PP01-361-GF0026-B03E7	TO SAFE LOCATION	-	-	-	-	-29/100	3.5	-	N	NI	-	Service	3.5	N	NNF	
4	DK	512	0004	B03E8	100478CP-N-PG-PP01-PR-PID-0006-001	01/01	HYDROCARBONS / WATER	LIQUID	DS-3 SCRAPER LAUNCHER (PP01-361-V003)	4"-PP01-512-DK0005-B03E8	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N	NNF	
4	DK	512	0005	B03E8	100478CP-N-PG-PP01-PR-PID-0006-001	01/01	HYDROCARBONS / WATER	LIQUID	DS-3 SCRAPER LAUNCHER (PP01-361-V003)	4"-PP01-512-DK0006-B01M8	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N	NNF	
4	DK	512	0006	B01M8	100478CP-N-PG-PP01-PR-PID-0006-001	01/01	HYDROCARBONS / WATER	LIQUID	4"-PP01-512-DK0005-B03E8	DS-3 CLOSED DRAIN SYSTEM	20	80	0.1	-	85	18	-	N	NI	-	Water	27.00	N	NNF	



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CLASS		B		LINE LIST																							
SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING				OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE					TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.			FROM	TO	Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type		Barg	Y/N				
2	GN	567	0080	B01H9	100478CP-N-PG-PP01-PR-PID-0006-001	01/01	NITROGEN	GAS	PORTABLE NITROGEN CONNECTION	DS-3 SCRAPER LAUNCHER (PP01-361-V003)	12	63	5	8.5	-2/85	12	-	N	NI	-	Air	13.2	N				
2	AM	564	0017	C01A9	100478CP-N-PG-PP01-PR-PID-0006-001	01/01	INSTRUMENT AIR	GAS	DS-1 INSTRUMENT AIR DISTRIBUTION HEADER	361-EZV0003	12	63	4	9.4	-2/85	12	-	N	NI	-	Air	13.2	N				
-	-	361	V003-TX0001	B03E7	100478CP-N-PG-PP01-PR-PID-0006-001	01/01	-	-	-	-	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N	TRIM			

SCRAPER RECEIVER (DS-3)

20	GF	361	0033	API5L	100478CP-N-PG-PP01-PR-PID-0007-001	01/01	FUEL GAS	GAS	20"-PP01-361-GF0025-API5L	DS-3 SCRAPER RECEIVER (PP01-361-V004)	23	80	10	11	-29/100	45	-	40	PP	-	Water	56.25	N		
16	GF	361	0031	B03F9	100478CP-N-PG-PP01-PR-PID-0007-001	01/01	FUEL GAS	GAS	20"-PP01-361-GF0025-API5L	FUEL GAS KNOCK OUT DRUM (PP01-362-V001)	20	80	10	11	-29/100	45	-	40	PP	-	Water	67.5	N		
4	GF	361	0027	B03E7	100478CP-N-PG-PP01-PR-PID-0007-001	01/01	FUEL GAS	GAS	DS-3 SCRAPER RECEIVER (PP01-361-V004)	8"-PP01-361-GF0029-B03F9	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N		
2	GF	361	0028	B03E7	100478CP-N-PG-PP01-PR-PID-0007-001	01/01	FUEL GAS	GAS	DS-3 SCRAPER RECEIVER (PP01-361-V004)	2"-PP01-361-VK0006-B01B8	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N		
8	GF	361	0029	B03F9	100478CP-N-PG-PP01-PR-PID-0007-001	01/01	FUEL GAS	GAS	DS-3 SCRAPER RECEIVER (PP01-361-V004)	16"-PP01-361-GF0031-B03F9	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N		
2	GF	361	0030	B03E7	100478CP-N-PG-PP01-PR-PID-0007-001	01/01	FUEL GAS	GAS	DS-3 SCRAPER RECEIVER (PP01-361-V004)	8"-PP01-361-GF0028-B03E9	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N		
3	GF	361	0032	B03E7	100478CP-N-PG-PP01-PR-PID-0007-001	01/01	FUEL GAS	GAS	DS-3 SCRAPER RECEIVER (PP01-361-V004)	361-PSV0004	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N		
3	GF	361	0062	B03E9	100478CP-N-PG-PP01-PR-PID-0007-001	01/01	FUEL GAS	GAS	20"-PP01-361-GF0025-API5L	3"-PP01-500-VK0004-B01B8	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N		
3	VK	500	0004	B01B8	100478CP-N-PG-PP01-PR-PID-0007-001	01/01	FUEL GAS	GAS	3"-PP01-361-GF0062-BO3E9	HP FLARE HEADER (6"-PP01-500-VK0087-B01B8)	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
4	VK	500	0005	B01B8	100478CP-N-PG-PP01-PR-PID-0007-001	01/01	FUEL GAS	GAS	361-PSV0004	HP FLARE HEADER (6"-PP01-500-VK0087-B01B8)	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	VK	500	0006	B01B8	100478CP-N-PG-PP01-PR-PID-0007-001	01/01	FUEL GAS	GAS	2"-PP01-361-GF0028-B03E9	4"-PP01-500-VK0004-B01B8	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
4	PK	512	0003	B03E8	100478CP-N-PG-PP01-PR-PID-0007-001	01/01	PROCESS CONDENSATE	LIQUID	DS-3 SCRAPER RECEIVER (PP01-361-V004)	4"-PP01-512-PK0004-B01M8	20	80	0.1	-	-29/100	45		30	PP	-	Water	67.5	N		
4	PK	512	0004	B01M8	100478CP-N-PG-PP01-PR-PID-0007-001	01/01	PROCESS CONDENSATE	LIQUID	4"-PP01-512-PK0003-B03E8	4"-PP01-512-PK0051-B01M8	20	80	0.1	-	-20/150	10		N	NI	-	Water	15	N		
4	PK	512	0060	B03E8	100478CP-N-PG-PP01-PR-PID-0007-001	01/01	PROCESS CONDENSATE	LIQUID	DS-3 SCRAPER RECEIVER (PP01-361-V004)	4"-PP01-512-PK0003-B03E8	20	80	0.1	-	-29/100	45		30	PP	-	Water	67.5	N		
2	GN	567	0081	B01H9	100478CP-N-PG-PP01-PR-PID-0007-001	01/01	NITROGEN	GAS	PORTABLE NITROGEN CONNECTION	DS-3 SCRAPER RECEIVER (PP01-361-V004)	12	63	5	8.5	-2/85	12		N	NI		Air	13.2	N		
-	-	361	V004-TX0001	B03E7	100478CP-N-PG-PP01-PR-PID-0007-001	01/01	-	-	-	-	20	80	10	11	-29/100	45	-	30	PP	-	Water	67.5	N	TRIM	

FUEL GAS KNOCK OUT DRUM

14	GF	362	0001	B01E9	100478CP-N-PG-PP01-PR-PID-0008-001	01/01	FUEL GAS	GAS	FUEL GAS KNOCK OUT DRUM (PP01-362-V001)	362-PSV0001	23	72	9	10.4	-20/100	14	-	30	PP	-	Water	21.0	N		
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CLASS		B		EARLY POWER PLANT PROJECT RUMAILA OIL FIELD, IRAQ CONTRACT NO.: 100478																					
				LINE LIST																					
				DOCUMENT NO.:100478CP-N-PG-PP01-PR-LST-0001-D04																				PAGE 7 OF 57	
SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID		INSULATION & TRACING		TESTING		REMARKS	REVISION	
							MEDIUM	PHASE			TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.			FROM	TO	Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type		Barg	Y/N		
16	GF	362	0002	B01E9	100478CP-N-PG-PP01-PR-PID-0008-001	01/01	FUEL GAS	GAS	FUEL GAS KNOCK OUT DRUM (PP01-362-V001)	FILTER SEPARATOR	23	72	9	10.4	-20/100	14	-	40	PP	-	Water	21.0	N		
8	GF	362	0003	B01E9	100478CP-N-PG-PP01-PR-PID-0008-001	01/01	FUEL GAS	GAS	16"-PP01-362-GF0002-B01E9	10"-PP01-500-VK0010-B01B8	23	72	9	10.4	-20/100	14	-	30	PP	-	Water	21.0	N		
14	GF	362	0004	B01E9	100478CP-N-PG-PP01-PR-PID-0008-001	01/01	FUEL GAS	GAS	12"-PP01-362-GF0001-B01E9	362-PSV0002	23	72	9	10.4	-20/100	14	-	30	PP	-	Water	21.0	N		
6	GF	362	0009	B01E9	100478CP-N-PG-PP01-PR-PID-0008-001	01/01	FUEL GAS	GAS	16"-PP01-362-GF0002-B01E9	8"-PP01-500-VK0026-B01B8	23	72	9	10.4	-20/100	14	-	30	PP	-	Water	21.0	N		
16	VK	500	0008	B01B8	100478CP-N-PG-PP01-PR-PID-0008-001	01/01	FUEL GAS	GAS	362-PSV0002	HP FLARE HEADER (20"-PP01-500-VK0019-B01B8)	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
10	VK	500	0010	B01B8	100478CP-N-PG-PP01-PR-PID-0008-001	01/01	FUEL GAS	GAS	8"-PP01-362-GF0003-B01E9	HP FLARE HEADER (20"-PP01-500-VK0019-B01B8)	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
8	VK	500	0026	B01B8	100478CP-N-PG-PP01-PR-PID-0008-001	01/01	FUEL GAS	GAS	6"-PP01-362-GF0009-B01E9	HP FLARE HEADER (20"-PP01-500-VK0019-B01B8)	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
4	PK	512	0005	C01N9	100478CP-N-PG-PP01-PR-PID-0008-001	01/01	PROCESS CONDENSATE	LIQUID	FUEL GAS KNOCK OUT DRUM (PP01-362-V001)	4"-PP01-512-PK0006-B01B8	23	72	9	10.4	-20/100	14	-	30	PP	-	Water	21.0	N		
4	PK	512	0006	B01M8	100478CP-N-PG-PP01-PR-PID-0008-001	01/01	PROCESS CONDENSATE	LIQUID	4"-PP01-512-PK0005-C01N9	CONDENSATE STORAGE VESSEL (PP01-512-V001)	120	-	0.1	-	150	10	-	30	PP	-	Water	15.0	N	Two Phase	
16	VK	500	0066	B01B8	100478CP-N-PG-PP01-PR-PID-0008-001	01/01	FUEL GAS	GAS	362-PSV0001	HP FLARE HEADER (20"-PP01-500-VK0019-B01B8)	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
1	PK	512	0054	B01M8	100478CP-N-PG-PP01-PR-PID-0008-001	01/01	PROCESS CONDENSATE	LIQUID	LG / LT BRIDLE HEADER	4"-PP01-512-PK0006-B01M8	23	72	9	10.4	150	10	-	30	PP	-	Water	15.0	N		
1	PK	512	0076	B03F9	100478CP-N-PG-PP01-PR-PID-0008-001	01/01	PROCESS CONDENSATE	LIQUID	PP01-362-LG0001	1"-PP01-512-PK0054-B01M8	23	72	9	10.4	150	14	-	30	PP	-	Water	21.0	N		
1	PK	512	0077	B03F9	100478CP-N-PG-PP01-PR-PID-0008-001	01/01	PROCESS CONDENSATE	LIQUID	PP01-362-LIT0001	1"-PP01-512-PK0054-B01M8	23	72	9	10.4	150	14	-	30	PP	-	Water	21.0	N		
1	PK	512	0078	B03F9	100478CP-N-PG-PP01-PR-PID-0008-001	01/01	PROCESS CONDENSATE	LIQUID	PP01-362-LIT0003	1"-PP01-512-PK0054-B01M8	23	72	9	10.4	150	14	-	30	PP	-	Water	21.0	N		
1	PK	512	0079	B03F9	100478CP-N-PG-PP01-PR-PID-0008-001	01/01	PROCESS CONDENSATE	LIQUID	PP01-362-LZT0002A	1"-PP01-512-PK0054-B01M8	23	72	9	10.4	150	14	-	30	PP	-	Water	21.0	N		
1	PK	512	0080	B03F9	100478CP-N-PG-PP01-PR-PID-0008-001	01/01	PROCESS CONDENSATE	LIQUID	PP01-362-LZT0002B	1"-PP01-512-PK0079-B03F9	23	72	9	10.4	150	14	-	30	PP	-	Water	21.0	N		
1	PK	512	0081	B03F9	100478CP-N-PG-PP01-PR-PID-0008-001	01/01	PROCESS CONDENSATE	LIQUID	PP01-362-LZT0002C	1"-PP01-512-PK0079-B03F9	23	72	9	10.4	150	14	-	30	PP	-	Water	21.0	N		
2	GF	567	0002	B03F9	100478CP-N-PG-PP01-PR-PID-0008-001	01/01	NITROGEN	GAS	PORTABLE NITROGEN CONNECTION	FUEL GAS KNOCK OUT DRUM (PP01-362-V001)	12	63	5	8.5	-20/100	14	-	N	NI	-	Air	15.4	N		
-	-	362	V001-TX0001	B03F9	100478CP-N-PG-PP01-PR-PID-0008-001	01/01	-	-	-	-	23	72	9	10.4	-20/100	14	-	N	NI	-	Water	21.0	N	TRIM	
FUEL GAS TREATMENT PACKAGE (FILTER SEPARATOR)																									
3	GF	362	0060	B01E9	100478CP-N-PG-PP01-PR-PID-0009-001	01/01	FUEL GAS	GAS	TP 002 FILTER SEPARATOR	362-PSV0503	20	80	8.7	10.4	-29/100	14	-	30	PP	-	Water	21.0	N	NNF	
3	GF	362	0061	B01E9	100478CP-N-PG-PP01-PR-PID-0009-001	01/01	FUEL GAS	GAS	TP 003 FILTER SEPARATOR	362-PSV0506	20	80	8.7	10.4	-29/100	14	-	30	PP	-	Water	21.0	N	NNF	



**EARLY POWER PLANT PROJECT
RUMAILA OIL FIELD, IRAQ
CONTRACT NO.: 100478**



LINE LIST

DOCUMENT NO.:100478CP-N-PG-PP01-PR-LST-0001-D04

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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
3	VK	500	0067	B01B8	100478CP-N-PG-PP01-PR-PID-0009-001	01/01	FUEL GAS	GAS	362-PSV0506	HP FLARE HEADER (10"-PP01-500-VK0088-B01B8)	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
3	VK	500	0073	B01B8	100478CP-N-PG-PP01-PR-PID-0009-001	01/01	FUEL GAS	GAS	362-PSV0503	HP FLARE HEADER (10"-PP01-500-VK0088-B01B8)	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	VK	500	0077	B01B8	100478CP-N-PG-PP01-PR-PID-0009-001	01/01	FUEL GAS	GAS	2"-PP01-362-GF0077-B01E9	HP FLARE HEADER (10"-PP01-500-VK0088-B01B8)	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	VK	500	0078	B01B8	100478CP-N-PG-PP01-PR-PID-0009-001	01/01	FUEL GAS	GAS	2"-PP01-362-GF0078-B01E9	HP FLARE HEADER (10"-PP01-500-VK0088-B01B8)	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	GF	362	0077	B01E9	100478CP-N-PG-PP01-PR-PID-0009-001	01/01	FUEL GAS	GAS	3"-PP01-362-GF0060-B01E9	2"-PP01-500-VK0077-B01B8	20	80	8.7	10.4	-29/100	14	-	30	PP	-	Water	21.0	N	NNF	
2	GF	362	0078	B01E9	100478CP-N-PG-PP01-PR-PID-0009-001	01/01	FUEL GAS	GAS	3"-PP01-362-GF0061-B01E9	2"-PP01-500-VK0078-B01B8	20	80	8.7	10.4	-29/100	14	-	30	PP	-	Water	21.0	N	NNF	

FUEL GAS TREATMENT PACKAGE

16	GF	362	0006	B03E9	100478CP-N-PG-PP01-PR-PID-0010-001	01/01	FUEL GAS	GAS	16"-PP01-362-GF0016-B01E9	12"-PP01-363-GF1001-B03E9	20	80	8.7	10.4	-20/150	35	-	40	PP	-	Water	52.5	N		
16	GF	362	0016	B01E9	100478CP-N-PG-PP01-PR-PID-0010-001	01/01	FUEL GAS	GAS	TP 009 FUEL GAS TREATMENT PACKAGE	16"-PP01-363-GF0006-B03E9	20	80	8.7	10.4	-29/100	14	-	40	PP	-	Water	21.0	N		
4	GF	362	0017	B01E9	100478CP-N-PG-PP01-PR-PID-0010-001	01/01	FUEL GAS	GAS	3"-PP01-362-GF0018-B01E9	362-PSV0003	20	80	8.7	10.4	-29/100	14	-	30	PP	-	Water	21.0	N		
4	GF	362	0018	B01E9	100478CP-N-PG-PP01-PR-PID-0010-001	01/01	FUEL GAS	GAS	16"-PP01-362-GF0016-B01E9	362-PSV0004	20	80	8.7	10.4	-29/100	14	-	30	PP	-	Water	21.0	N		
4	GF	362	0019	B01E9	100478CP-N-PG-PP01-PR-PID-0010-001	01/01	FUEL GAS	GAS	16"-PP01-362-GF0016-B01E9	362-BDZV0002	20	80	8.7	10.4	-29/100	14	-	30	PP	-	Water	21.0	N		
2	GF	362	0062	B01E9	100478CP-N-PG-PP01-PR-PID-0010-001	01/01	FUEL GAS	GAS	TP 006 FUEL GAS TREATMENT PACKAGE	362-PSV0508A	20	80	8.7	10.4	-29/100	14	-	30	HC	-	Water	21.0	N		
2	GF	362	0063	B01E9	100478CP-N-PG-PP01-PR-PID-0010-001	01/01	FUEL GAS	GAS	TP 008 FUEL GAS TREATMENT PACKAGE	362-PSV0517A	20	80	8.7	10.4	-29/100	14	-	30	PP	-	Water	21.0	N		
6	VK	500	0013	B01B8	100478CP-N-PG-PP01-PR-PID-0010-001	01/01	FUEL GAS	GAS	362-PSV0004	HP FLARE HEADER (10"-PP01-500-VK0088-B01B8)	-	-	-	-	-29/200	10.5		N	NI		Air	11.6	N	NNF	
2	VK	500	0014	B01E9	100478CP-N-PG-PP01-PR-PID-0010-001	01/01	FUEL GAS	GAS	16"-PP01-362-GF0006-B01E9	TP 001 HP / LP FLARE PACKAGE	20	80	8.7	10.4	-29/100	14	-	30	PP	-	Air	21.0	N	NNF	
2	VK	500	0015	B01E9	100478CP-N-PG-PP01-PR-PID-0010-001	01/01	FUEL GAS	GAS	16"-PP01-362-GF0006-B01E9	HEADER	-	-	-	-	-29/100	14	-	30	PP	-	Air	21.0	N	NNF	
2	VK	500	0016	B01B8	100478CP-N-PG-PP01-PR-PID-0010-001	01/01	FUEL GAS	GAS	362-PSV0517A	HP FLARE HEADER (10"-PP01-500-VK0088-B01B8)	20	80	8.7	10.4	-29/200	10	-	30	PP	-	Air	11.0	N	NNF	
6	VK	500	0063	B01B8	100478CP-N-PG-PP01-PR-PID-0010-001	01/01	FUEL GAS	GAS	362-PSV0003	HP FLARE HEADER (10"-PP01-500-VK0088-B01B8)	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
8	VK	500	0065	B01B8	100478CP-N-PG-PP01-PR-PID-0010-001	01/01	FUEL GAS	GAS	362-BDZV0002	HP FLARE HEADER (10"-PP01-500-VK0088-B01B8)	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	VK	500	0068	B01B8	100478CP-N-PG-PP01-PR-PID-0010-001	01/01	FUEL GAS	GAS	362-PSV0508A	HP FLARE HEADER (10"-PP01-500-VK0088-B01B8)	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
10	VK	500	0069	B01B8	100478CP-N-PG-PP01-PR-PID-0010-001	01/01	FUEL GAS	GAS	TP 007 FUEL GAS TREATMENT PACKAGE	HP FLARE HEADER (20"-PP01-500-VK0019-B01B8)	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	



**EARLY POWER PLANT PROJECT
RUMAILA OIL FIELD, IRAQ
CONTRACT NO.: 100478**



LINE LIST

DOCUMENT NO.:100478CP-N-PG-PP01-PR-LST-0001-D04

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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
2	PK	512	0008	B01M8	100478CP-N-PG-PP01-PR-PID-0010-001	01/01	PROCESS CONDENSATE	LIQUID	TP 005 FUEL GAS TREATMENT PACKAGE	CONDENSATE STORAGE VESSEL (512-V001) 4"-PP01-512-PK0051-B01M8	120	-	0.1	-	150	10	-	N	NI	-	Water	15.0	N	Two Phase	
2	VK	500	0075	B01B8	100478CP-N-PG-PP01-PR-PID-0010-001	01/01	FUEL GAS	GAS	TP 010 FUEL GAS TREATMENT PACKAGE	HP FLARE HEADER (10"-PP01-500-VK0088-B01B8)	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	VK	500	0079	B01B8	100478CP-N-PG-PP01-PR-PID-0010-001	01/01	FUEL GAS	GAS	362-PSV0508B	HP FLARE HEADER (10"-PP01-500-VK0088-B01B8)	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	VK	500	0080	B01B8	100478CP-N-PG-PP01-PR-PID-0010-001	01/01	FUEL GAS	GAS	2"-PP01-362-GF0082-B01E9	HP FLARE HEADER (10"-PP01-500-VK0088-B01B8)	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	VK	500	0081	B01B8	100478CP-N-PG-PP01-PR-PID-0010-001	01/01	FUEL GAS	GAS	362-PSV0517B	HP FLARE HEADER (10"-PP01-500-VK0088-B01B8)	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	VK	500	0082	B01B8	100478CP-N-PG-PP01-PR-PID-0010-001	01/01	FUEL GAS	GAS	2"-PP01-362-GF0080-B01E9	HP FLARE HEADER (10"-PP01-500-VK0088-B01B8)	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	GF	362	0079	B01E9	100478CP-N-PG-PP01-PR-PID-0010-001	01/01	FUEL GAS	GAS	2"-PP01-362-GF0063-B01E9	362-PSV0517B	20	80	8.7	10.4	-29/100	14	-	30	PP	-	Water	21.0	N		
2	GF	362	0080	B01E9	100478CP-N-PG-PP01-PR-PID-0010-001	01/01	FUEL GAS	GAS	2"-PP01-362-GF0063-B01E9	2"-PP01-500-VK0082-B01B8	20	80	8.7	10.4	-29/100	14	-	30	PP	-	Water	21.0	N		
2	GF	362	0081	B01E9	100478CP-N-PG-PP01-PR-PID-0010-001	01/01	FUEL GAS	GAS	2"-PP01-362-GF0062-B01E9	362-PSV0508B	20	80	8.7	10.4	-29/100	14	-	30	HC	-	Water	21.0	N		
2	GF	362	0082	B01E9	100478CP-N-PG-PP01-PR-PID-0010-001	01/01	FUEL GAS	GAS	2"-PP01-362-GF0062-B01E9	2"-PP01-500-VK0080-B01B8	20	80	8.7	10.4	-29/100	14	-	30	HC	-	Water	21.0	N		

FUEL GAS COMPRESSOR TRAIN 1

12	GF	362	0007	B03E9	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	FUEL GAS	GAS	16"-PP01-362-GF0006-B03E9	12"-PP01-363-GF2001-B03E9	20	80	8.7	10.4	-20/150	35	-	30	PP	-	Water	52.5	N		
12	GF	362	0008	B03E9	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	FUEL GAS	GAS	16"-PP01-362-GF0006-B03E9	12"-PP01-363-GF3001-B03E9	20	80	8.7	10.4	-20/150	35	-	30	PP	-	Water	52.5	N		
12	GF	363	1001	B03E9	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	FUEL GAS	GAS	16"-PP01-362-GF0006-B03E9	FUEL GAS COMPRESSOR SUCTION KO DRUM TRAIN 1 (PP01-363-V101)	21.7	70.5	7.25	9	-20/150	35	-	30	PP	-	Water	52.5	N		
12	GF	363	1002	B03E9	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR SUCTION KO DRUM TRAIN 1 (PP01-363-V101)	FUEL GAS COMPRESSOR TRAIN 1 (PP01-363-C101)	21.7	70.5	7.25	9	-20/150	35	-	30	PP	-	Water	52.5	N		
8	GF	363	1003	B03E9	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR TRAIN 1 (PP01-363-C101)	FUEL GAS COMPRESSOR DISCHARGE COOLER TRAIN 1 (PP01-363-H101)	20	172	6.95	29	-20/200	35	-	30	PP	-	Water	52.5	N		
6	GF	363	1004	B03E9	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR TRAIN 1 (PP01-363-C101)	363-PSV1100	20	172	6.95	29	-20/200	35	-	30	PP	-	Water	52.5	N		
2	GF	363	1005	B03E9	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	FUEL GAS	GAS	4"-PP01-363-GF1004-B03E9	4"-PP01-500-VK1004-B01B8	20	172	6.95	29	-20/200	35	-	30	PP	-	Water	52.5	N		
3	GF	363	1006	B03E9	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR SUCTION KO DRUM TRAIN 1 (PP01-363-V101)	363-PSV1002	21.7	70.5	7.25	9	-20/150	35	-	30	PP	-	Water	52.5	N		
10	GF	363	1007	C03N9	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR RECYCLE COOLER TRAIN 1 (PP01-363-H102)	FUEL GAS COMPRESSOR SUCTION KO DRUM TRAIN 1 (PP01-363-V101)	35	112.8	7.5	8.5	-20/150	35	-	30	PP	-	Water	52.5	N	Two Phase	
2	GF	363	1008	B03E9	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	FUEL GAS	GAS	3"-PP01-363-GF1006-B03E9	3"-PP01-500-VK1001-B01B8	21.7	70.5	7.25	9	-20/150	35	-	30	PP	-	Water	52.5	N		
8	GF	363	1009	B03E9	100478CP-N-PG-PP01-PR-PID-0011-002	02/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR DISCHARGE COOLER TRAIN 1 (PP01-363-H101)	FUEL GAS COMPRESSOR DISCHARGE KO DRUM TRAIN 1 (PP01-363-V102)	105	120	-	29	-20/150	35	-	50	HC	-	Water	52.5	N		



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
8	GF	363	1010	B03E9	100478CP-N-PG-PP01-PR-PID-0011-002	02/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR DISCHARGE KO DRUM TRAIN 1 (PP01-363-V102)	TP 015 FUEL GAS METRING SKID (PP01-364-IMS001)	105	120	-	29	-20/150	35	-	50	HC	-	Water	52.5	N		
2	GF	363	1011	B03E9	100478CP-N-PG-PP01-PR-PID-0011-002	02/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR DISCHARGE KO DRUM TRAIN 1 (PP01-363-V102)	363-PSV1003	105	120	-	29	-20/150	35	-	40	HC	-	Water	52.5	N		
3	GF	363	1012	B03E9	100478CP-N-PG-PP01-PR-PID-0011-002	02/06	FUEL GAS	GAS	8"-PP01-363-GF1010-B03E9	2"-PP01-500-VK1007-B01B8	105	120	-	29	-20/150	35	-	40	HC	-	Water	52.5	N		
3	GF	363	1013	B03E9	100478CP-N-PG-PP01-PR-PID-0011-002	02/06	FUEL GAS	GAS	8"-PP01-363-GF1009-B03E9	4"-PP01-500-VK1006-B01B8	105	120	-	29	-20/150	35	-	40	HC	-	Water	52.5	N		
10	GF	363	1014	B03E9	100478CP-N-PG-PP01-PR-PID-0011-002	02/06	FUEL GAS	GAS	8"-PP01-363-GF1009-B03E9	FUEL GAS COMPRESSOR RECYCLE COOLER TRAIN 1 (PP01-363-H102)	35	112.8	-	29	-20/150	35	-	30	PP	-	Water	52.5	N		
6	GF	363	1015	B03E9	100478CP-N-PG-PP01-PR-PID-0011-002	02/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR DISCHARGE KO DRUM TRAIN 1 (PP01-363-V102)	8"-PP01-500-VK1029-B01B8	105	120	-	29	-20/150	35	-	50	HC	-	Water	52.5	N		
2	GF	362	1021	B03E9	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	FUEL GAS	GAS	12"-PP01-363-GF1001-B03E9	FUEL GAS COMPRESSOR TRAIN 1 (PP01-363-C101)	20	80	8.7	10.4	-20/150	35	-	30	PP	-	Water	52.5	N		
2	VK	500	1001	B01B8	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	FUEL GAS	GAS	2"-PP01-363-GF1008-B03E9	4"-PP01-500-VK1005-B01B8	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
4	VK	500	1002	B01B8	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	FUEL GAS	GAS	363-PSV1002	8"-PP01-500-VK1005-B01B8	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
8	VK	500	1003	B01B8	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	FUEL GAS	GAS	363-PSV1100	8"-PP01-500-VK1005-B01B8	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	VK	500	1004	B01B8	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	FUEL GAS	GAS	2"-PP01-363-GF1005-B03E9	8"-PP01-500-VK1005-B01B8	20	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N		
8	VK	500	1005	B01B8	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	FUEL GAS	GAS	HEADER	HP FLARE HEADER (12"-PP01-500-VK0074-B01B8)	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
4	VK	500	1006	B01B8	100478CP-N-PG-PP01-PR-PID-0011-002	02/06	FUEL GAS	GAS	3"-PP01-363-GF1013-B03E9	8"-PP01-500-VK1005-B01B8	105	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N		
3	VK	500	1007	B01B8	100478CP-N-PG-PP01-PR-PID-0011-002	02/06	FUEL GAS	GAS	3"-PP01-363-GF1012-B03E9	8"-PP01-500-VK1005-B01B8	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
3	VK	500	1008	B01B8	100478CP-N-PG-PP01-PR-PID-0011-002	02/06	FUEL GAS	GAS	363-PSV1003	8"-PP01-500-VK1005-B01B8	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	PK	512	1001	C03N9	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	PROCESS CONDENSATE	LIQUID	FUEL GAS COMPRESSOR SUCTION KO DRUM TRAIN 1 (PP01-363-V101)	3"-PP01-512-PK1002-B01M8	21.7	70.5	7.25	9	-20/150	35	-	30	PP	-	Water	52.5	N		
3	PK	512	1002	B01M8	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	PROCESS CONDENSATE	LIQUID	2"-PP01-512-PK1001-C03N9	4"-PP01-512-PK1003-B01M8	21.7	70.5	0.1	0.5	-20/150	10	-	N	NI	-	Water	15.0	N	Two Phase	
4	PK	512	1003	B01M8	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	PROCESS CONDENSATE	LIQUID	HEADER	CONDENSATE STORAGE VESSEL (PP01-512-V001) 4"-PP01-512-PK0022-B01M8	120	-	0.1	-	150	10	-	N	NI	-	Water	15.0	N	Two Phase	
2	PK	512	1004	C03N9	100478CP-N-PG-PP01-PR-PID-0011-002	02/06	PROCESS CONDENSATE	LIQUID	FUEL GAS COMPRESSOR DISCHARGE KO DRUM TRAIN 1 (PP01-363-V102)	3"-PP01-512-PK1005-B01M8	105	120		29	-20/150	35	-	30	PP	-	Water	52.5	N		
3	PK	512	1005	B01M8	100478CP-N-PG-PP01-PR-PID-0011-002	02/06	PROCESS CONDENSATE	LIQUID	2"-PP01-512-PK1004-C03N9	4"-PP01-512-PK1003-B01M8	120	-	0.1	-	150	10	-	N	NI	-	Water	15.0	N	Two Phase	
1	PK	512	1028	C03N9	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	PROCESS CONDENSATE	LIQUID	FUEL GAS COMPRESSOR TRAIN 1 (PP01-363-C101)	3"-PP01-512-PK1002-B01M8	21.7	70.5	0.1	0.5	-20/150	10	-	30	PP	-	Water	15.0	N		
1	PK	512	1055	B01M8	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	PROCESS CONDENSATE	LIQUID	1"-PP01-512-PK1059-B03E9	3"-PP01-512-PK1002-B01M8	21.7	70.5	0.1	0.5	-20/150	10	-	30	PP	-	Water	15.0	N		



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
1	PK	512	1056	B01M8	100478CP-N-PG-PP01-PR-PID-0011-002	02/06	PROCESS CONDENSATE	LIQUID	1"-PP01-512-PK1062-B03E9	3"-PP01-512-PK1005-B01M8	120	-	0.1	-	150	10	-	30	PP	-	Water	15.0	N		
2	GF	567	1001	B03E9	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	NITROGEN	GAS	NITROGEN PURGING CONNECTION	FUEL GAS COMPRESSOR SUCTION KO DRUM TRAIN 1 (PP01-363-V101)	12	63	5	8.5	-20/150	35		N	NI		Air	38.5	N		
2	GF	567	1002	B03E9	100478CP-N-PG-PP01-PR-PID-0011-002	02/06	NITROGEN	GAS	NITROGEN PURGING CONNECTION	FUEL GAS COMPRESSOR DISCHARGE KO DRUM TRAIN 1 (PP01-363-V102)	12	63	5	8.5	-20/150	35		N	HC		Air	38.5	N		
2	VL	501	1001	B01B8	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR TRAIN 1 (PP01-363-C101)	6"-PP01-501-VL0003-B01B8	-	-	-	-	-20/150	10	-	N	NI	-	Air	11	N		
1 1/2	VM	502	1003	C01A9	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR TRAIN 1 (PP01-363-C101)	TO SAFE LOCATION	-	-	-	-	-20/150	3.5	-	N	NI	-	Service	3.5	N		
1	WO	511	1001	B01M9	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	OILY WATER	LIQUID	FUEL GAS COMPRESSOR TRAIN 1 (PP01-363-C101)	OPEN DRAIN	-	-	-	-	85	3.5	-	30	PP	-	Service	5.25	N		
1/2	PK	512	1057	C03N9	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	PROCESS CONDENSATE	LIQUID	FUEL GAS COMPRESSOR TRAIN 1 (PP01-363-C101)	3"-PP01-512-PK1002-B01M8	21.7	70.5	0.1	0.5	-20/150	10	-	30	PP	-	Water	15.0	N		
1/2	PK	512	1058	C03N9	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	PROCESS CONDENSATE	LIQUID	FUEL GAS COMPRESSOR TRAIN 1 (PP01-363-C101)	1/2"-PP01-512-PK1057-C03N9	21.7	70.5	0.1	0.5	-20/150	10	-	30	PP	-	Water	15.0	N		
1	PK	512	1059	B03E9	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	PROCESS CONDENSATE	LIQUID	363-LZT1002	1"-PP01-512-PK1055-B01M8	21.7	70.5	7.25	9	-20/150	35	-	30	PP	-	Water	52.5	N		
1	PK	512	1060	B03E9	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	PROCESS CONDENSATE	LIQUID	363-LG1001	1"-PP01-512-PK1055-B01M8	21.7	70.5	7.25	9	-20/150	35	-	30	PP	-	Water	52.5	N		
1	PK	512	1061	B03E9	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	PROCESS CONDENSATE	LIQUID	363-LIT1001	1"-PP01-512-PK1055-B01M8	21.7	70.5	7.25	9	-20/150	35	-	30	PP	-	Water	52.5	N		
1/2	VL	501	1006	B01B8	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR TRAIN 1 (PP01-363-C101)	2"-PP01-501-VL1001-B01B8	-	-	-	-	-20/150	10	-	N	NI	-	Air	11	N		
8	GF	363	1021	C03N9	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	FUEL GAS	GAS	10"-PP01-363-GF1014-B03E9	FUEL GAS COMPRESSOR RECYCLE COOLER TRAIN 1 (PP01-363-H102)	35	120	-	29	-20/150	35	-	30	PP	-	Water	52.5	N		
1	PK	512	1062	B03E9	100478CP-N-PG-PP01-PR-PID-0011-002	02/06	PROCESS CONDENSATE	LIQUID	363-LZT1005	1"-PP01-512-PK1056-B01M8	105	120	-	29	-20/150	35	-	30	PP	-	Water	52.5	N		
1	PK	512	1063	B03E9	100478CP-N-PG-PP01-PR-PID-0011-002	02/06	PROCESS CONDENSATE	LIQUID	363-LG1002	1"-PP01-512-PK1056-B01M8	105	120	-	29	-20/150	35	-	30	PP	-	Water	52.5	N		
1	PK	512	1064	B03E9	100478CP-N-PG-PP01-PR-PID-0011-002	02/06	PROCESS CONDENSATE	LIQUID	363-LIT1004	1"-PP01-512-PK1056-B01M8	105	120	-	29	-20/150	35	-	30	PP	-	Water	52.5	N		
6	VK	500	1029	B01B8	100478CP-N-PG-PP01-PR-PID-0011-002	02/06	FUEL GAS	GAS	6"-PP01-363-GF1015-B03E9-HC	8"-PP01-500-VK1005-B01B8	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
3	OL	363	1008	C01A9	100478CP-1-ME-003-C03-0002	01/01	LUBE OIL	LIQUID	TO / FROM RUNDOWN TANK (TP012)	RUNDOWN TANK INLET (TP013)	55	55	1.4	1.4	-2/90	10	-	N	NI	-	Water	15.0	N		
2	OL	363	1009	C01A9	100478CP-1-ME-003-C03-0002	01/01	LUBE OIL	LIQUID	OIL OVERFLOW FROM RDT (TP015)	RDT OVERFLOW TO RESERVOIR (TP016)	55	55	ATM	ATM	-2/90	10	-	N	NI	-	Water	15.0	N		
2	OL	363	1010	C01A9	100478CP-1-ME-003-C03-0002	01/01	LUBE OIL	LIQUID	TO OIL COOLER (TP017)	OIL COOLER INLET (TP022)	55	55	4.0	4.0	-2/90	10	-	N	NI	-	Water	15.0	N		
2	OL	363	1011	C01A9	100478CP-1-ME-003-C03-0002	01/01	LUBE OIL	LIQUID	OIL COOLER DISCHARGE (TP019)	FROM OIL COOLER (TP018)	55	55	3.0	3.0	-2/90	10	-	N	NI	-	Water	15.0	N		
-	-	363	V101-TX1001	B03E9	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	-	-	-	-	21.7	70.5	7.25	9	-20/150	35 / FV	-	30	PP	-	Water	52.5	N	TRIM	



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING				OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE			FROM		TO		TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.	
					NO.	SHT.			Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type		Barg	Y/N						
-	-	363	C101-TX1001	B03E9	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	-	-	-	-	-	-	20	172	6.95	29	-20/200	35	-	30	PP	-	Water	52.5	N	TRIM	
-	-	363	H102-TX1001	C03N9	100478CP-N-PG-PP01-PR-PID-0011-001	01/06	-	-	-	-	-	-	35	112.8	7.5	8.29	-20/150	35	-	30	PP	-	Water	52.5	N	TRIM	
-	-	363	H101-TX1001	C03N9	100478CP-N-PG-PP01-PR-PID-0011-002	02/06	-	-	-	-	-	-	105	172	29	29	-20/200	35	-	30	PP	-	Water	52.5	N	TRIM	
-	-	363	V102-TX1001	B03E9	100478CP-N-PG-PP01-PR-PID-0011-002	02/06	-	-	-	-	-	-	105	120	29	29	-20/150	35 / FV	-	N	HC	-	Water	52.5	N	TRIM	

FUEL GAS COMPRESSOR TRAIN 2

12	GF	363	2001	B03E9	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	FUEL GAS	GAS	12"-PP01-362-GF0007-B03E9	FUEL GAS COMPRESSOR SUCTION KO DRUM TRAIN 2 (PP01-363-V201)	21.7	70.5	7.25	9	-20/150	35	-	30	PP	-	Water	52.5	N		
12	GF	363	2002	B03E9	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR SUCTION KO DRUM TRAIN 2 (PP01-363-V201)	FUEL GAS COMPRESSOR TRAIN 2 (PP01-363-C201)	21.7	70.5	7.25	9	-20/150	35	-	30	PP	-	Water	52.5	N		
8	GF	363	2003	B03E9	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR TRAIN 2 (PP01-363-C201)	FUEL GAS COMPRESSOR DISCHARGE COOLER TRAIN 2 (PP01-363-H201)	20	172	6.95	29	-20/200	35	-	30	PP	-	Water	52.5	N		
6	GF	363	2004	B03E9	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR TRAIN 2 (PP01-363-C201)	363-PSV2100	20	172	6.95	29	-20/200	35	-	30	PP	-	Water	52.5	N		
2	GF	363	2005	B03E9	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	FUEL GAS	GAS	4"-PP01-363-GF2004-B03E9	4"-PP01-500-VK2004-B01B8	20	172	6.95	29	-20/200	35	-	30	PP	-	Water	52.5	N		
3	GF	363	2006	B03E9	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR SUCTION KO DRUM TRAIN 2 (PP01-363-V201)	363-PSV2002	21.7	70.5	7.25	9	-20/150	35	-	30	PP	-	Water	52.5	N		
10	GF	363	2007	C03N9	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR RECYCLE COOLER TRAIN 2 (PP01-363-H202)	FUEL GAS COMPRESSOR SUCTION KO DRUM TRAIN 2 (PP01-363-V201)	35	112.8	7.5	8.5	-20/150	35	-	30	PP	-	Water	52.5	N	Two Phase	
2	GF	363	2008	B03E9	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	FUEL GAS	GAS	3"-PP01-363-GF2006-B03E9	3"-PP01-500-VK2001-B01B8	21.7	70.5	7.25	9	-20/150	35	-	30	PP	-	Water	52.5	N		
8	GF	363	2009	B03E9	100478CP-N-PG-PP01-PR-PID-0011-004	04/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR DISCHARGE COOLER TRAIN 2 (PP01-363-H201)	FUEL GAS COMPRESSOR DISCHARGE KO DRUM TRAIN 2 (PP01-363-V202)	105	120	-	29	-20/150	35	-	50	HC	-	Water	52.5	N		
8	GF	363	2010	B03E9	100478CP-N-PG-PP01-PR-PID-0011-004	04/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR DISCHARGE KO DRUM TRAIN 2 (PP01-363-V202)	TP 015 FUEL GAS METRING SKID (PP01-364-IMS001)	105	120	-	29	-20/150	35	-	50	HC	-	Water	52.5	N		
2	GF	363	2011	B03E9	100478CP-N-PG-PP01-PR-PID-0011-004	04/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR DISCHARGE KO DRUM TRAIN 2 (PP01-363-V202)	363-PSV2003	105	120	-	29	-20/150	35	-	40	HC	-	Water	52.5	N		
3	GF	363	2012	B03E9	100478CP-N-PG-PP01-PR-PID-0011-004	04/06	FUEL GAS	GAS	8"-PP01-363-GF2010-B03E9	2"-PP01-500-VK2007-B01B8	105	120	-	29	-20/150	35	-	40	HC	-	Water	52.5	N		
3	GF	363	2013	B03E9	100478CP-N-PG-PP01-PR-PID-0011-004	04/06	FUEL GAS	GAS	8"-PP01-363-GF2009-B03E9	4"-PP01-500-VK2006-B01B8	105	120	-	29	-20/150	35	-	40	HC	-	Water	52.5	N		
10	GF	363	2014	B03E9	100478CP-N-PG-PP01-PR-PID-0011-004	04/06	FUEL GAS	GAS	8"-PP01-363-GF2009-B03E9	FUEL GAS COMPRESSOR RECYCLE COOLER TRAIN 2 (PP01-363-H202)	35	112.8	-	29	-20/150	35	-	30	PP	-	Water	52.5	N		
6	GF	363	2015	B03E9	100478CP-N-PG-PP01-PR-PID-0011-004	04/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR DISCHARGE KO DRUM TRAIN 2 (PP01-363-V202)	8"-PP01-500-VK2029-B01B8	105	120	-	29	-20/150	35	-	50	HC	-	Water	52.5	N		
2	GF	362	2021	B03E9	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	FUEL GAS	GAS	12"-PP01-362-GF2001-B03E9	FUEL GAS COMPRESSOR TRAIN 2 (PP01-363-C201)	20	80	8.7	10.4	-20/150	35	-	30	PP	-	Water	52.5	N		
2	VK	500	2001	B01B8	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	FUEL GAS	GAS	2"-PP01-363-GF2008-B03E9	8"-PP01-500-VK2005-B01B8	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
4	VK	500	2002	B01B8	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	FUEL GAS	GAS	363-PSV2002	8"-PP01-500-VK2005-B01B8	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
8	VK	500	2003	B01B8	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	FUEL GAS	GAS	363-PSV2100	8"-PP01-500-VK2005-B01B8	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	VK	500	2004	B01B8	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	FUEL GAS	GAS	2"-PP01-363-GF2005-B03E9	8"-PP01-500-VK2005-B01B8	20	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N		
8	VK	500	2005	B01B8	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	FUEL GAS	GAS	HEADER	HP FLARE HEADER (12"-PP01-500-VK0074-B01B8)	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
4	VK	500	2006	B01B8	100478CP-N-PG-PP01-PR-PID-0011-004	04/06	FUEL GAS	GAS	3"-PP01-363-GF2013-B03E9	8"-PP01-500-VK2005-B01B8	105	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N		
3	VK	500	2007	B01B8	100478CP-N-PG-PP01-PR-PID-0011-004	04/06	FUEL GAS	GAS	3"-PP01-363-GF2012-B03E9	8"-PP01-500-VK2005-B01B8	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
3	VK	500	2008	B01B8	100478CP-N-PG-PP01-PR-PID-0011-004	04/06	FUEL GAS	GAS	363-PSV2003	8"-PP01-500-VK2005-B01B8	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	PK	512	2001	C03N9	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	PROCESS CONDENSATE	LIQUID	FUEL GAS COMPRESSOR SUCTION KO DRUM TRAIN 2 (PP01-363-V201)	3"-PP01-512-PK2002-B01M8	21.7	70.5	7.25	9	-20/150	35	-	30	PP	-	Water	52.5	N		
3	PK	512	2002	B01M8	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	PROCESS CONDENSATE	LIQUID	2"-PP01-512-PK2001-C03N9	4"-PP01-512-PK2003-B01M8	21.7	70.5	0.1	0.5	-20/150	10	-	N	NI	-	Water	15.0	N	Two Phase	
4	PK	512	2003	B01M8	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	PROCESS CONDENSATE	LIQUID	HEADER	CONDENSATE STORAGE VESSEL (PP01-512-V001) 4"-PP01-512-PK0022-B01M8	120	-	0.1	-	150	10	-	N	NI	-	Water	15.0	N	Two Phase	
2	PK	512	2004	C03N9	100478CP-N-PG-PP01-PR-PID-0011-004	04/06	PROCESS CONDENSATE	LIQUID	FUEL GAS COMPRESSOR DISCHARGE KO DRUM TRAIN 2 (PP01-363-V202)	3"-PP01-512-PK2005-B01M8	105	120	-	29	-20/150	35	-	30	PP	-	Water	52.5	N		
3	PK	512	2005	B01M8	100478CP-N-PG-PP01-PR-PID-0011-004	04/06	PROCESS CONDENSATE	LIQUID	2"-PP01-512-PK2004-C03N9	4"-PP01-512-PK2003-B01M8	120	-	0.1	-	150	10	-	N	NI	-	Water	15.0	N	Two Phase	
1	PK	512	2028	C03N9	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	PROCESS CONDENSATE	LIQUID	FUEL GAS COMPRESSOR TRAIN 2 (PP01-363-C201)	3"-PP01-512-PK2002-B01M8	21.7	70.5	0.1	0.5	-20/150	10	-	30	PP	-	Water	15.0	N		
1	PK	512	2055	B01M8	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	PROCESS CONDENSATE	LIQUID	1"-PP01-512-PK2059-B03E9	3"-PP01-512-PK2002-B01M8	21.7	70.5	0.1	0.5	-20/150	10	-	30	PP	-	Water	15.0	N		
1	PK	512	2056	B01M8	100478CP-N-PG-PP01-PR-PID-0011-004	04/06	PROCESS CONDENSATE	LIQUID	1"-PP01-512-PK2062-B03E9	3"-PP01-512-PK2005-B01M8	120	-	0.1	-	150	10	-	30	PP	-	Water	15.0	N		
2	GF	567	2001	B03E9	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	NITROGEN	GAS	NITROGEN PURGING CONNECTION	FUEL GAS COMPRESSOR SUCTION KO DRUM TRAIN 2 (PP01-363-V201)	12	63	5	8.5	-20/150	35	-	N	NI		Air	38.5	N		
2	GF	567	2002	B03E9	100478CP-N-PG-PP01-PR-PID-0011-004	04/06	NITROGEN	GAS	NITROGEN PURGING CONNECTION	FUEL GAS COMPRESSOR DISCHARGE KO DRUM TRAIN 2 (PP01-363-V202)	12	63	5	8.5	-20/150	35	-	N	HC		Air	38.5	N		
2	VL	501	2001	B01B8	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR TRAIN 2 (PP01-363-C201)	6"-PP01-501-VL0003-B01B8	-	-	-	-	-20/150	10	-	N	NI	-	Air	11	N		
1 1/2	VM	502	2003	C01A9	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR TRAIN 2 (PP01-363-C201)	TO SAFE LOCATION	-	-	-	-	-20/150	3.5	-	N	NI	-	Service	3.5	N		
1	WO	511	2001	B01M9	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	OILY WATER	LIQUID	FUEL GAS COMPRESSOR TRAIN 2 (PP01-363-C201)	OPEN DRAIN	-	-	-	-	85	3.5	-	30	PP	-	Service	5.25	N		
1/2	PK	512	2057	C03N9	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	PROCESS CONDENSATE	LIQUID	FUEL GAS COMPRESSOR TRAIN 2 (PP01-363-C201)	3"-PP01-512-PK2002-B01M8	21.7	70.5	0.1	0.5	-20/150	10	-	30	PP	-	Water	15.0	N		
1/2	PK	512	2058	C03N9	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	PROCESS CONDENSATE	LIQUID	FUEL GAS COMPRESSOR TRAIN 2 (PP01-363-C201)	1/2"-PP01-512-PK2057-C03N9	21.7	70.5	0.1	0.5	-20/150	10	-	30	PP	-	Water	15.0	N		



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							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
1	PK	512	2059	B03E9	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	PROCESS CONDENSATE	LIQUID	363-LZT2002	1"-PP01-512-PK2055-B01M8	21.7	70.5	7.25	9	-20/150	35	-	30	PP	-	Water	52.5	N		
1	PK	512	2060	B03E9	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	PROCESS CONDENSATE	LIQUID	363-LG2001	1"-PP01-512-PK2055-B01M8	21.7	70.5	7.25	9	-20/150	35	-	30	PP	-	Water	52.5	N		
1	PK	512	2061	B03E9	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	PROCESS CONDENSATE	LIQUID	363-LIT2001	1"-PP01-512-PK2055-B01M8	21.7	70.5	7.25	9	-20/150	35	-	30	PP	-	Water	52.5	N		
1/2	VL	501	2006	B01B8	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR TRAIN 2 (PP01-363-C201)	2"-PP01-501-VL2001-B01B8	-	-	-	-	-20/150	10	-	N	NI	-	Air	11	N		
8	GF	363	2021	C03N9	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	FUEL GAS	GAS	10"-PP01-363-GF2014-B03E9	FUEL GAS COMPRESSOR RECYCLE COOLER TRAIN 2 (PP01-363-H202)	35	120	-	29	-20/150	35	-	30	PP	-	Water	52.5	N		
1	PK	512	2062	B03E9	100478CP-N-PG-PP01-PR-PID-0011-004	04/06	PROCESS CONDENSATE	LIQUID	363-LZT2005	1"-PP01-512-PK2056-B01M8	105	120	-	29	-20/150	35	-	30	PP	-	Water	52.5	N		
1	PK	512	2063	B03E9	100478CP-N-PG-PP01-PR-PID-0011-004	04/06	PROCESS CONDENSATE	LIQUID	363-LG2002	1"-PP01-512-PK2056-B01M8	105	120	-	29	-20/150	35	-	30	PP	-	Water	52.5	N		
1	PK	512	2064	B03E9	100478CP-N-PG-PP01-PR-PID-0011-004	04/06	PROCESS CONDENSATE	LIQUID	363-LIT2004	1"-PP01-512-PK2056-B01M8	105	120	-	29	-20/150	35	-	30	PP	-	Water	52.5	N		
6	VK	500	2029	B01B8	100478CP-N-PG-PP01-PR-PID-0011-004	04/06	FUEL GAS	GAS	6"-PP01-363-GF2015-B03E9-HC	8"-PP01-500-VK2005-B01B8	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
3	OL	363	2008	C01A9	100478CP-1-ME-003-C03-0002	01/01	LUBE OIL	LIQUID	TO / FROM RUNDOWN TANK (TP012)	RUNDOWN TANK INLET (TP013)	55	55	1.4	1.4	-2/90	10	-	N	NI	-	Water	15.0	N		
2	OL	363	2009	C01A9	100478CP-1-ME-003-C03-0002	01/01	LUBE OIL	LIQUID	OIL OVERFLOW FROM RDT (TP015)	RDT OVERFLOW TO RESERVOIR (TP016)	55	55	ATM	ATM	-2/90	10	-	N	NI	-	Water	15.0	N		
2	OL	363	2010	C01A9	100478CP-1-ME-003-C03-0002	01/01	LUBE OIL	LIQUID	TO OIL COOLER (TP017)	OIL COOLER INLET (TP022)	55	55	4.0	4.0	-2/90	10	-	N	NI	-	Water	15.0	N		
2	OL	363	2011	C01A9	100478CP-1-ME-003-C03-0002	01/01	LUBE OIL	LIQUID	OIL COOLER DISCHARGE (TP019)	FROM OIL COOLER (TP018)	55	55	3.0	3.0	-2/90	10	-	N	NI	-	Water	15.0	N		
-	-	363	V201-TX1001	B03E9	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	-	-	-	-	21.7	70.5	7.25	9	-20/150	35 / FV	-	30	PP	-	Water	52.5	N	TRIM	
-	-	363	C201-TX1001	B03E9	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	-	-	-	-	20	172	6.95	29	-20/200	35	-	30	PP	-	Water	52.5	N	TRIM	
-	-	363	H202-TX1001	C03N9	100478CP-N-PG-PP01-PR-PID-0011-003	03/06	-	-	-	-	35	112.8	7.5	8.29	-20/150	35	-	30	PP	-	Water	52.5	N	TRIM	
-	-	363	H201-TX1001	C03N9	100478CP-N-PG-PP01-PR-PID-0011-004	04/06	-	-	-	-	105	172	29	29	-20/200	35	-	30	PP	-	Water	52.5	N	TRIM	
-	-	363	V202-TX1001	B03E9	100478CP-N-PG-PP01-PR-PID-0011-004	04/06	-	-	-	-	105	120	29	29	-20/150	35 / FV	-	N	HC	-	Water	52.5	N	TRIM	

FUEL GAS COMPRESSOR TRAIN 3

12	GF	363	3001	B03E9	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	FUEL GAS	GAS	12"-PP01-362-GF0008-B03E9	FUEL GAS COMPRESSOR SUCTION KO DRUM TRAIN 3 (PP01-363-V301)	21.7	70.5	7.25	9	-20/150	35	-	30	PP	-	Water	52.5	N		
12	GF	363	3002	B03E9	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR SUCTION KO DRUM TRAIN 3 (PP01-363-V301)	FUEL GAS COMPRESSOR TRAIN 3 (PP01-363-V301)	21.7	70.5	7.25	9	-20/150	35	-	30	PP	-	Water	52.5	N		
8	GF	363	3003	B03E9	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR TRAIN 3 (PP01-363-V301)	FUEL GAS COMPRESSOR DISCHARGE COOLER TRAIN 3 (PP01-363-H301)	20	172	6.95	29	-20/200	35	-	30	PP	-	Water	52.5	N		



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							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
6	GF	363	3004	B03E9	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR TRAIN 3 (PP01-363-V301)	363-PSV3100	20	172	6.95	29	-20/200	35	-	30	PP	-	Water	52.5	N		
2	GF	363	3005	B03E9	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	FUEL GAS	GAS	4"-PP01-363-GF3004-B03E9	4"-PP01-500-VK3004-B01B8	20	172	6.95	29	-20/200	35	-	30	PP	-	Water	52.5	N		
3	GF	363	3006	B03E9	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR SUCTION KO DRUM TRAIN 3 (PP01-363-V301)	363-PSV3002	21.7	70.5	7.25	9	-20/150	35	-	30	PP	-	Water	52.5	N		
10	GF	363	3007	C03N9	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR RECYCLE COOLER TRAIN 3 (PP01-363-H302)	FUEL GAS COMPRESSOR SUCTION KO DRUM TRAIN 3 (PP01-363-V301)	35	112.8	7.5	8.5	-20/150	35	-	30	PP	-	Water	52.5	N	Two Phase	
2	GF	363	3008	B03E9	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	FUEL GAS	GAS	3"-PP01-363-GF3006-B03E9	3"-PP01-500-VK3001-B01B8	21.7	70.5	7.25	9	-20/150	35	-	30	PP	-	Water	52.5	N		
8	GF	363	3009	B03E9	100478CP-N-PG-PP01-PR-PID-0011-006	06/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR DISCHARGE COOLER TRAIN 3 (PP01-363-H301)	FUEL GAS COMPRESSOR DISCHARGE KO DRUM TRAIN 3 (PP01-363-V302)	105	120	-	29	-20/150	35	-	50	HC	-	Water	52.5	N		
8	GF	363	3010	B03E9	100478CP-N-PG-PP01-PR-PID-0011-006	06/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR DISCHARGE KO DRUM TRAIN 3 (PP01-363-V302)	TP 015 FUEL GAS METRING SKID (PP01-364-IMS001)	105	120	-	29	-20/150	35	-	50	HC	-	Water	52.5	N		
2	GF	363	3011	B03E9	100478CP-N-PG-PP01-PR-PID-0011-006	06/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR DISCHARGE KO DRUM TRAIN 3 (PP01-363-V302)	363-PSV3003	105	120	-	29	-20/150	35	-	40	HC	-	Water	52.5	N		
3	GF	363	3012	B03E9	100478CP-N-PG-PP01-PR-PID-0011-006	06/06	FUEL GAS	GAS	8"-PP01-363-GF3010-B03E9	2"-PP01-500-VK3007-B01B8	105	120	-	29	-20/150	35	-	40	HC	-	Water	52.5	N		
3	GF	363	3013	B03E9	100478CP-N-PG-PP01-PR-PID-0011-006	06/06	FUEL GAS	GAS	8"-PP01-363-GF3009-B03E9	4"-PP01-500-VK3006-B01B8	105	120	-	29	-20/150	35	-	40	HC	-	Water	52.5	N		
10	GF	363	3014	B03E9	100478CP-N-PG-PP01-PR-PID-0011-006	06/06	FUEL GAS	GAS	8"-PP01-363-GF3009-B03E9	FUEL GAS COMPRESSOR RECYCLE COOLER TRAIN 3 (PP01-363-H302)	35	112.8	-	29	-20/150	35	-	30	PP	-	Water	52.5	N		
6	GF	363	3015	B03E9	100478CP-N-PG-PP01-PR-PID-0011-006	06/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR DISCHARGE KO DRUM TRAIN 3 (PP01-363-V302)	8"-PP01-500-VK3029-B01B8	105	120	-	29	-20/150	35	-	50	HC	-	Water	52.5	N		
2	GF	362	3021	B03E9	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	FUEL GAS	GAS	12"-PP01-363-GF3001-B03E9	FUEL GAS COMPRESSOR TRAIN 3 (PP01-363-C301)	20	80	8.7	10.4	-20/150	35	-	30	PP	-	Water	52.5	N		
2	VK	500	3001	B01B8	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	FUEL GAS	GAS	2"-PP01-363-GF3008-B03E9	8"-PP01-500-VK3005-B01B8	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
4	VK	500	3002	B01B8	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	FUEL GAS	GAS	363-PSV3002	8"-PP01-500-VK3005-B01B8	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
8	VK	500	3003	B01B8	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	FUEL GAS	GAS	363-PSV3100	8"-PP01-500-VK3005-B01B8	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	VK	500	3004	B01B8	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	FUEL GAS	GAS	2"-PP01-363-GF3005-B03E9	8"-PP01-500-VK3005-B01B8	20	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N		
8	VK	500	3005	B01B8	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	FUEL GAS	GAS	HEADER	HP FLARE HEADER (12"-PP01-500-VK0074-B01B8)	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
4	VK	500	3006	B01B8	100478CP-N-PG-PP01-PR-PID-0011-006	06/06	FUEL GAS	GAS	3"-PP01-363-GF3013-B03E9	8"-PP01-500-VK3005-B01B8	105	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N		
3	VK	500	3007	B01B8	100478CP-N-PG-PP01-PR-PID-0011-006	06/06	FUEL GAS	GAS	3"-PP01-363-GF3012-B03E9	8"-PP01-500-VK3005-B01B8	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
3	VK	500	3008	B01B8	100478CP-N-PG-PP01-PR-PID-0011-006	06/06	FUEL GAS	GAS	363-PSV3003	8"-PP01-500-VK3005-B01B8	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	PK	512	3001	C03N9	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	PROCESS CONDENSATE	LIQUID	FUEL GAS COMPRESSOR SUCTION KO DRUM TRAIN 3 (PP01-363-V301)	3"-PP01-512-PK3002-B01M8	21.7	70.5	7.25	9	-20/150	35	-	30	PP	-	Water	52.5	N		



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CLASS		B		LINE LIST																					
SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE			TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.		FROM	TO	Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type		Barg	Y/N			
3	PK	512	3002	B01M8	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	PROCESS CONDENSATE	LIQUID	2"-PP01-512-PK3001-C03N9	4"-PP01-512-PK3003-B01M8	21.7	70.5	0.1	0.5	-20/150	10	-	N	NI	-	Water	15.0	N	Two Phase	
4	PK	512	3003	B01M8	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	PROCESS CONDENSATE	LIQUID	HEADER	CONDENSATE STORAGE VESSEL (PP01-512-V001) 4"-PP01-512-PK0022-B01M8	120	-	0.1	-	150	10	-	N	NI	-	Water	15.0	N	Two Phase	
2	PK	512	3004	C03N9	100478CP-N-PG-PP01-PR-PID-0011-006	06/06	PROCESS CONDENSATE	LIQUID	FUEL GAS COMPRESSOR DISCHARGE KO DRUM TRAIN 3 (PP01-363-V302)	3"-PP01-512-PK3005-B01M8	105	120	-	29	-20/150	35	-	30	PP	-	Water	52.5	N		
3	PK	512	3005	B01M8	100478CP-N-PG-PP01-PR-PID-0011-006	06/06	PROCESS CONDENSATE	LIQUID	2"-PP01-512-PK3004-C03N9	4"-PP01-512-PK3003-B01M8	120	-	0.1	-	150	10	-	N	NI	-	Water	15.0	N	Two Phase	
1	PK	512	3028	C03N9	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	PROCESS CONDENSATE	LIQUID	FUEL GAS COMPRESSOR TRAIN 3 (PP01-363-V301)	3"-PP01-512-PK3002-B01M8	21.7	70.5	0.1	0.5	-20/150	10	-	30	PP	-	Water	15.0	N		
1	PK	512	3055	B01M8	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	PROCESS CONDENSATE	LIQUID	1"-PP01-512-PK3059-B03E9	3"-PP01-512-PK3002-B01M8	21.7	70.5	0.1	0.5	-20/150	10	-	30	PP	-	Water	15.0	N		
1	PK	512	3056	B01M8	100478CP-N-PG-PP01-PR-PID-0011-006	06/06	PROCESS CONDENSATE	LIQUID	1"-PP01-512-PK3062-B03E9	3"-PP01-512-PK3005-B01M8	120	-	0.1	-	150	10	-	30	PP	-	Water	15.0	N		
2	GF	567	3001	B03E9	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	NITROGEN	GAS	NITROGEN PURGING CONNECTION	FUEL GAS COMPRESSOR SUCTION KO DRUM TRAIN 3 (PP01-363-V301)	12	63	5	8.5	-20/150	35		N	NI		Air	38.5	N		
2	GF	567	3002	B03E9	100478CP-N-PG-PP01-PR-PID-0011-006	06/06	NITROGEN	GAS	NITROGEN PURGING CONNECTION	FUEL GAS COMPRESSOR DISCHARGE KO DRUM TRAIN 3 (PP01-363-V302)	12	63	5	8.5	-20/150	35		N	HC		Air	38.5	N		
2	VL	501	3001	B01B8	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR TRAIN 3 (PP01-363-V301)	6"-PP01-501-VL0003-B01B8	-	-	-	-	-20/150	10	-	N	NI	-	Air	11	N		
1 1/2	VM	502	3003	C01A9	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR TRAIN 3 (PP01-363-V301)	TO SAFE LOCATION	-	-	-	-	-20/150	3.5	-	N	NI	-	Service	3.5	N		
1	WO	511	3001	B01M9	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	OILY WATER	LIQUID	FUEL GAS COMPRESSOR TRAIN 3 (PP01-363-V301)	OPEN DRAIN	-	-	-	-	85	3.5	-	30	PP	-	Service	5.25	N		
1/2	PK	512	3057	C03N9	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	PROCESS CONDENSATE	LIQUID	FUEL GAS COMPRESSOR TRAIN 3 (PP01-363-C301)	3"-PP01-512-PK3002-B01M8	21.7	70.5	0.1	0.5	-20/150	10	-	30	PP	-	Water	15.0	N		
1/2	PK	512	3058	C03N9	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	PROCESS CONDENSATE	LIQUID	FUEL GAS COMPRESSOR TRAIN 3 (PP01-363-C301)	1/2"-PP01-512-PK3057-C03N9	21.7	70.5	0.1	0.5	-20/150	10	-	30	PP	-	Water	15.0	N		
1	PK	512	3059	B03E9	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	PROCESS CONDENSATE	LIQUID	363-LZT3002	1"-PP01-512-PK3055-B01M8	21.7	70.5	7.25	9	-20/150	35	-	30	PP	-	Water	52.5	N		
1	PK	512	3060	B03E9	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	PROCESS CONDENSATE	LIQUID	363-LG3001	1"-PP01-512-PK3055-B01M8	21.7	70.5	7.25	9	-20/150	35	-	30	PP	-	Water	52.5	N		
1	PK	512	3061	B03E9	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	PROCESS CONDENSATE	LIQUID	363-LIT3001	1"-PP01-512-PK3055-B01M8	21.7	70.5	7.25	9	-20/150	35	-	30	PP	-	Water	52.5	N		
1/2	VL	501	3006	B01B8	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	FUEL GAS	GAS	FUEL GAS COMPRESSOR TRAIN 3 (PP01-363-C301)	2"-PP01-501-VL3001-B01B8	-	-	-	-	-20/150	10	-	N	NI	-	Air	11	N		
8	GF	363	3021	C03N9	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	FUEL GAS	GAS	10"-PP01-363-GF3014-B03E9	FUEL GAS COMPRESSOR RECYCLE COOLER TRAIN 3 (PP01-363-H302)	35	120	-	29	-20/150	35	-	30	PP	-	Water	52.5	N		
1	PK	512	3062	B03E9	100478CP-N-PG-PP01-PR-PID-0011-006	06/06	PROCESS CONDENSATE	LIQUID	363-LZT3005	1"-PP01-512-PK3056-B01M8	105	120	-	29	-20/150	35	-	30	PP	-	Water	52.5	N		
1	PK	512	3063	B03E9	100478CP-N-PG-PP01-PR-PID-0011-006	06/06	PROCESS CONDENSATE	LIQUID	363-LG3002	1"-PP01-512-PK3056-B01M8	105	120	-	29	-20/150	35	-	30	PP	-	Water	52.5	N		
1	PK	512	3064	B03E9	100478CP-N-PG-PP01-PR-PID-0011-006	06/06	PROCESS CONDENSATE	LIQUID	363-LIT3004	1"-PP01-512-PK3056-B01M8	105	120	-	29	-20/150	35	-	30	PP	-	Water	52.5	N		



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
6	VK	500	3029	B01B8	100478CP-N-PG-PP01-PR-PID-0011-006	06/06	FUEL GAS	GAS	6"-PP01-363-GF3015-B03E9-HC	8"-PP01-500-VK3005-B01B8	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
3	OL	363	3008	C01A9	100478CP-1-ME-003-C03-0002	01/01	LUBE OIL	LIQUID	TO / FROM RUNDOWN TANK (TP012)	RUNDOWN TANK INLET (TP013)	55	55	1.4	1.4	-2/90	10	-	N	NI	-	Water	15.0	N		
2	OL	363	3009	C01A9	100478CP-1-ME-003-C03-0002	01/01	LUBE OIL	LIQUID	OIL OVERFLOW FROM RDT (TP015)	RDT OVERFLOW TO RESERVOIR (TP016)	55	55	ATM	ATM	-2/90	10	-	N	NI	-	Water	15.0	N		
2	OL	363	3010	C01A9	100478CP-1-ME-003-C03-0002	01/01	LUBE OIL	LIQUID	TO OIL COOLER (TP017)	OIL COOLER INLET (TP022)	55	55	4.0	4.0	-2/90	10	-	N	NI	-	Water	15.0	N		
2	OL	363	3011	C01A9	100478CP-1-ME-003-C03-0002	01/01	LUBE OIL	LIQUID	OIL COOLER DISCHARGE (TP019)	FROM OIL COOLER (TP018)	55	55	3.0	3.0	-2/90	10	-	N	NI	-	Water	15.0	N		
-	-	363	V301-TX1001	B03E9	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	-	-	-	-	21.7	70.5	7.25	9	-20/150	35 / FV	-	30	PP	-	Water	52.5	N	TRIM	
-	-	363	C301-TX1001	B03E9	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	-	-	-	-	20	172	6.95	29	-20/200	35	-	30	PP	-	Water	52.5	N	TRIM	
-	-	363	H302-TX1001	C03N9	100478CP-N-PG-PP01-PR-PID-0011-005	05/06	-	-	-	-	35	112.8	7.5	8.29	-20/150	35	-	30	PP	-	Water	52.5	N	TRIM	
-	-	363	H301-TX1001	C03N9	100478CP-N-PG-PP01-PR-PID-0011-006	06/06	-	-	-	-	105	172	29	29	-20/200	35	-	30	PP	-	Water	52.5	N	TRIM	
-	-	363	V302-TX1001	B03E9	100478CP-N-PG-PP01-PR-PID-0011-006	06/06	-	-	-	-	105	120	29	29	-20/150	35 / FV	-	N	HC	-	Water	52.5	N	TRIM	

FUEL GAS METERING SKID

12	GF	363	0066	B03E9	100478CP-N-PG-PP01-PR-PID-0012-001	01/01	FUEL GAS	GAS	8"-PP01-363-GF1010-B03E9 8"-PP01-363-GF2010-B03E9 8"-PP01-363-GF3010-B03E9	TP 015 FUEL GAS METERING SKID(PP01-364-IMS001)	105	120	28	28.9	-29/150	35	-	50	HC	-	Water	52.5	N	
3	GF	364	0001	B03E9	100478CP-N-PG-PP01-PR-PID-0012-001	01/01	FUEL GAS	GAS	12"-PP01-364-GF0053-B03E9	6"-PP01-500-VK0017-B01B8	105	120	28	28.9	-29/150	35	-	30	PP	-	Water	52.5	N	
12	GF	364	0053	B03E9	100478CP-N-PG-PP01-PR-PID-0012-001	01/01	FUEL GAS	GAS	TP 017 FUEL GAS METERING SKID(PP01-364-IMS001)	GTG PACKAGE	105	120	28	28.9	-29/150	35	-	50	HC	-	Water	52.5	N	
4	GF	364	1005	B03E9	100478CP-N-PG-PP01-PR-PID-0012-001	01/01	FUEL GAS	GAS	12"-PP01-364-GF0053-B03E9	GTG TRAIN 1	105	120	28	28.9	-29/150	35	-	40	HC	-	Water	52.5	N	
4	GF	364	2005	B03E9	100478CP-N-PG-PP01-PR-PID-0012-001	01/01	FUEL GAS	GAS	12"-PP01-364-GF0053-B03E9	GTG TRAIN 2	105	120	28	28.9	-29/150	35	-	40	HC	-	Water	52.5	N	
4	GF	364	3005	B03E9	100478CP-N-PG-PP01-PR-PID-0012-001	01/01	FUEL GAS	GAS	12"-PP01-364-GF0053-B03E9	GTG TRAIN 3	105	120	28	28.9	-29/150	35	-	40	HC	-	Water	52.5	N	
4	GF	364	4005	B03E9	100478CP-N-PG-PP01-PR-PID-0012-001	01/01	FUEL GAS	GAS	12"-PP01-364-GF0053-B03E9	GTG TRAIN 4	105	120	28	28.9	-29/150	35	-	40	HC	-	Water	52.5	N	
4	GF	364	5005	B03E9	100478CP-N-PG-PP01-PR-PID-0012-001	01/01	FUEL GAS	GAS	12"-PP01-364-GF0053-B03E9	GTG TRAIN 5	105	120	28	28.9	-29/150	35	-	40	HC	-	Water	52.5	N	
6	VK	500	0017	B01B8	100478CP-N-PG-PP01-PR-PID-0012-001	01/01	FUEL GAS	GAS	3"-PP01-364-GF0001-B03E9	8"-PP01-500-VK1005-B01B8	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF
1	VK	500	0018	B01B8	100478CP-N-PG-PP01-PR-PID-0012-001	01/01	FUEL GAS	GAS	TP 018 FUEL GAS METERING SKID (PP01-364-IMS001)	6"-PP01-500-VK0017-B01B8	-	-	-	-	-29/200	10	-	N	NI	-	Air	11.0	N	NNF

HP FLARE HEADER



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
2	VK	500	0020	B01E9	100478CP-N-PG-PP01-PR-PID-0021-001	01/02	FUEL GAS	GAS	2"-PP01-500-VK0015-B01E9	6"-PP01-501-VL0003-B01B8	20	80	0.1	1	-15/100	14	-	30	PP	-	Air	21.0	N	NNF	
2	VK	500	0021	B01E9	100478CP-N-PG-PP01-PR-PID-0021-001	01/02	FUEL GAS	GAS	2"-PP01-500-VK0015-B01E9	CONDENSATE STORAGE VESSEL (PP01-512-V001)	20	80	0.1	1	-15/100	14	-	30	PP	-	Air	21.0	N	NNF	
6	VK	500	0029	B01B8	100478CP-N-PG-PP01-PR-PID-0021-001	01/02	FUEL GAS	GAS	HP FLARE HEADER	HP FLARE HEADER (12"-PP01-500-VK0074-B01B8)	30	164	0.1	4.5	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
12	VK	500	0074	B01B8	100478CP-N-PG-PP01-PR-PID-0021-001	01/02	FUEL GAS	GAS	HP FLARE HEADER	HP FLARE HEADER (20"-PP01-500-VK0019-B01B8)	30	164	0.1	4.5	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
6	VK	500	0087	B01B8	100478CP-N-PG-PP01-PR-PID-0021-001	01/02	FUEL GAS	GAS	HP FLARE HEADER	HP FLARE HEADER (20"-PP01-500-VK0019-B01B8)	30	164	0.1	4.5	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
10	VK	500	0088	B01B8	100478CP-N-PG-PP01-PR-PID-0021-001	01/02	FUEL GAS	GAS	HP FLARE HEADER	HP FLARE HEADER (20"-PP01-500-VK0019-B01B8)	30	164	0.1	4.5	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
20	VK	500	0019	B01B8	100478CP-N-PG-PP01-PR-PID-0021-001	01/02	FUEL GAS	GAS	6"-PP01-500-VK0087-B01B8	HP FLARE KNOCKOUT DRUM (PP01-500-V001)	30	164	0.1	4.5	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
1	VK	500	0061	B01E9	100478CP-N-PG-PP01-PR-PID-0021-001	01/02	FUEL GAS	GAS	2"-PP01-500-VK0015-B01E9	HP FLARE HEADER (20"-PP01-500-VK0019-B01B8)	30	164	0.1	4.5	-29/200	14	-	30	PP	-	Air	21.0	N	NNF	
1	VK	500	0062	B01E9	100478CP-N-PG-PP01-PR-PID-0021-001	01/02	FUEL GAS	GAS	2"-PP01-500-VK0015-B01E9	HP FLARE HEADER (20"-PP01-500-VK0019-B01B8)	30	164	0.1	4.5	-29/200	14	-	30	PP	-	Air	21.0	N	NNF	

LP FLARE HEADER

8	VL	501	0002	B01B8	100478CP-N-PG-PP01-PR-PID-0021-002	02/02	FUEL GAS	GAS	6"-PP01-501-VL0003-B01B8	TP 003 FLARE STACK / HP/LP FLARE PACKAGE (PP01-500-Z001)	3	109	0.1	1.5	-20/150	10	-	N	NI	-	Air	11.0	N	NNF	
6	VL	501	0003	B01B8	100478CP-N-PG-PP01-PR-PID-0021-002	02/02	FUEL GAS	GAS	LP FLARE HEADER	8"-PP01-501-VL0002-B01B8	3	109	0.1	1.5	-20/150	10	-	N	NI	-	Air	11.0	N	NNF	

FLARE KO DRUM

20	VH	500	0025	B01B8	100478CP-N-PG-PP01-PR-PID-0022-001	01/01	FUEL GAS	GAS	HP FLARE KNOCKOUT DRUM (PP01-500-V001)	TP 004 FLARE STACK / HP/LP FLARE PACKAGE (PP01-500-Z001)	30	164	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N		
4	PK	512	0009	B01M8	100478CP-N-PG-PP01-PR-PID-0022-001	01/01	PROCESS CONDENSATE	LIQUID	4"-PP01-512-PK0052-C01A9	CONDENSATE STORAGE VESSEL (PP01-512-V001) 4"-PP01-512-PK0022-B01M8	30	164	0.1	3.6	-20/150	10	-	N	NI	-	Water	15.0	N	Two Phase	
4	PK	512	0052	C01A9	100478CP-N-PG-PP01-PR-PID-0022-001	01/01	PROCESS CONDENSATE	LIQUID	HP FLARE KNOCKOUT DRUM (PP01-500-V001)	4"-PP01-512-PK0009-B01M8	30	164	3.9		-29/200	10	-	30	PP	-	Water	15.0	N		
1	PK	512	0053	B01M8	100478CP-N-PG-PP01-PR-PID-0022-001	01/01	PROCESS CONDENSATE	LIQUID	1"-PP01-512-PK0082-B01B8	4"-PP01-512-PK0009-B01M8	30	164	3.9		-29/200	10	-	30	PP	-	Water	15.0	N		
2	VK	567	0001	B01B8	100478CP-N-PG-PP01-PR-PID-0022-001	01/01	NITROGEN	GAS	NITROGEN PURGING CONNECTION	HP FLARE KNOCKOUT DRUM (PP01-500-V001)	12	63	5	8.5	-29/200	10	-	N	NI		Air	11	N		
1	PK	512	0082	B01B8	100478CP-N-PG-PP01-PR-PID-0022-001	01/01	PROCESS CONDENSATE	LIQUID	500-LZT0003A	1"-PP01-512-PK0053-B01M8	30	164	3.9	3.9	-29/200	10	-	30	PP	-	Water	15.0	N		
1	PK	512	0083	B01B8	100478CP-N-PG-PP01-PR-PID-0022-001	01/01	PROCESS CONDENSATE	LIQUID	500-LZT0003B	1"-PP01-512-PK0082-B01B8	30	164	3.9	3.9	-29/200	10	-	30	PP	-	Water	15.0	N		
1	PK	512	0084	B01B8	100478CP-N-PG-PP01-PR-PID-0022-001	01/01	PROCESS CONDENSATE	LIQUID	500-LZT0003C	1"-PP01-512-PK0082-B01B8	30	164	3.9	3.9	-29/200	10	-	30	PP	-	Water	15.0	N		



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
1	PK	512	0085	B01B8	100478CP-N-PG-PP01-PR-PID-0022-001	01/01	PROCESS CONDENSATE	LIQUID	500-LIT0002	1"-PP01-512-PK0053-B01M8	30	164	3.9	3.9	-29/200	10	-	30	PP	-	Water	15.0	N		
1	PK	512	0086	B01B8	100478CP-N-PG-PP01-PR-PID-0022-001	01/01	PROCESS CONDENSATE	LIQUID	500-LG0001	1"-PP01-512-PK0053-B01M8	30	164	3.9	3.9	-29/200	10	-	30	PP	-	Water	15.0	N		
1	PK	512	0087	B01B8	100478CP-N-PG-PP01-PR-PID-0022-001	01/01	PROCESS CONDENSATE	LIQUID	500-LIT0001	1"-PP01-512-PK0053-B01M8	30	164	3.9	3.9	-29/200	10	-	30	PP	-	Water	15.0	N		
-	-	500	V001-TX0001	B01B8	100478CP-N-PG-PP01-PR-PID-0022-001	01/01	-	-	-	-	30	164	0.1	3.6	-29/200	10	-	N	NI	-	Water	15.0	N	TRIM	

HP / LP FLARE PACKAGE																									
1/2	VK	500	0083	C01A9	100478CP-N-PG-PP01-PR-PID-0023-001	01/01	FUEL GAS	GAS	FLAME FRONT GENERATOR (FFG)	TP 018 PILOT GAS (LP FLARE PACKAGE)	-	-	-	-	-2/150	10	-	30	HC	-	Air	11.0	N		
1	VG	500	0027	C01A9	100478CP-N-PG-PP01-PR-PID-0023-001	01/01	FUEL GAS	GAS	FLAME FRONT GENERATOR (FFG)	TP 011 IGNITION GAS (HP FLARE PACKAGE)	-	-	-	-	-29/200	10	-	30	HC	-	Air	11.0	N		
1	VG	500	0029	C01A9	100478CP-N-PG-PP01-PR-PID-0023-001	01/01	FUEL GAS	GAS	FLAME FRONT GENERATOR (FFG)	TP 012 IGNITION GAS (HP FLARE PACKAGE)	-	-	-	-	-29/200	10	-	30	HC	-	Air	11.0	N		
1	VG	500	0031	C01A9	100478CP-N-PG-PP01-PR-PID-0023-001	01/01	FUEL GAS	GAS	FLAME FRONT GENERATOR (FFG)	TP 013 IGNITION GAS (HP FLARE PACKAGE)	-	-	-	-	-29/200	10	-	30	HC	-	Air	11.0	N		
1	VG	500	0033	C01A9	100478CP-N-PG-PP01-PR-PID-0023-001	01/01	LP FLARE	GAS	FLAME FRONT GENERATOR (FFG)	TP 014 IGNITION GAS (LP FLARE PACKAGE)	-	-	-	-	-2/150	10	-	30	HC	-	Air	11.0	N		
2	RP	566	0001	B03E9	100478CP-N-PG-PP01-PR-PID-0023-001	01/01	PROPANE	GAS	PROPANE BOTTLES	FLAME FRONT GENERATOR (FFG)	-2	53	2	18	-45/85	20	-	N	NI		Air	22.0	N		
1/2	VK	500	0084	C01A9	100478CP-N-PG-PP01-PR-PID-0023-001	01/01	FUEL GAS	GAS	1/2"-PP01-500-VK0083-C01A9	TP 015 PILOT GAS (HP FLARE PACKAGE)	-	-	-	-	-29/200	10	-	30	HC	-	Air	11.0	N		
1/2	VK	500	0085	C01A9	100478CP-N-PG-PP01-PR-PID-0023-001	01/01	FUEL GAS	GAS	1/2"-PP01-500-VK0083-C01A9	TP 016 PILOT GAS (HP FLARE PACKAGE)	-	-	-	-	-29/200	10	-	30	HC	-	Air	11.0	N		
1/2	VK	500	0086	C01A9	100478CP-N-PG-PP01-PR-PID-0023-001	01/01	FUEL GAS	GAS	1/2"-PP01-500-VK0083-C01A9	TP 017 PILOT GAS (HP FLARE PACKAGE)	-	-	-	-	-29/200	10	-	30	HC	-	Air	11.0	N		

PROCESS CONDENSATE SYSTEM																									
8	VL	501	0001	B01B8	100478CP-N-PG-PP01-PR-PID-0024-001	01/02	FUEL GAS	GAS	CONDENSATE STORAGE VESSEL (PP01-512-V001)	LP FLARE HEADER (8"-PP01-501-VL0002-B01B8)	18	120	0.1	1	-20/150	10	-	N	NI	-	Air	11.0	N		
3	PK	375	0055	B01M8	100478CP-N-PG-PP01-PR-PID-0024-001	01/02	PROCESS CONDENSATE	LIQUID	CONDENSATE TRANSFER PUMPS (PP01-375-P001B)	4"-PP01-375-PK0010-B01M8	18	120	0.1	1.84	-20/150	10	-	N	NI	-	Water	15.0	N		
3	PK	375	0056	B01M8	100478CP-N-PG-PP01-PR-PID-0024-001	01/02	PROCESS CONDENSATE	LIQUID	CONDENSATE TRANSFER PUMPS (PP01-375-P001A)	4"-PP01-375-PK0010-B01M8	18	120	0.1	1.84	-20/150	10	-	N	NI	-	Water	15.0	N		
4	PK	375	0010	B01M8	100478CP-N-PG-PP01-PR-PID-0024-001	01/02	PROCESS CONDENSATE	LIQUID	3"-PP01-375-PK0055/0056-B01M8	CONDENSATE TRANSFER TANK (PP01-375-T001)	18	120	0.1	1.84	-20/150	10	-	N	NI	-	Water	15.0	N		
4	PK	512	0051	B01M8	100478CP-N-PG-PP01-PR-PID-0024-001	01/02	PROCESS CONDENSATE	LIQUID	FUEL GAS SYSTEM HEADER	CONDENSATE STORAGE VESSEL (PP01-512-V001)	18	120	0.1	1	-20/150	10	-	N	NI	-	Water	15.0	N		
4	PK	512	0022	B01M8	100478CP-N-PG-PP01-PR-PID-0024-001	01/02	PROCESS CONDENSATE	LIQUID	FG COMPRESSOR / GTG HEADER	CONDENSATE STORAGE VESSEL (PP01-512-V001)	18	120	0.1	1	-20/150	10	-	N	NI	-	Water	15.0	N		
2	WO	512	0003	B01M9	100478CP-N-PG-PP01-PR-PID-0024-001	01/02	OILY WATER	LIQUID	CONDENSATE STORAGE VESSEL (PP01-512-V001) SUMP	PORTABLE PUMP OR VACUUM TRUCK CONNECTION	18	53	0.01	0.02	-2/85	3.5 / FV	-	N	NI	-	Water	5.25	N		



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION		DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION		
							MEDIUM	PHASE			TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.		FROM	TO	Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N				
2	WO	511	0020	B01M9	100478CP-N-PG-PP01-PR-PID-0024-002	02/02	OILY WATER	LIQUID	CONDENSATE TRANSFER TANK (PP01-375-T001)	OILY WATER COLLECTION SYSTEM	18	72	0.01	0.08	93	3.5	-	N	NI	-	Water	5.25	N		
6	WO	511	0001	B01M9	100478CP-N-PG-PP01-PR-PID-0024-002	02/02	OILY WATER	LIQUID	CONDENSATE TRANSFER TANK (PP01-375-T001) COLLECTION SUMP	OILY WATER COLLECTION SYSTEM	18	45	ATM	ATM	55	0.5	-	N	NI	-	Water	1.50	N		
2	PK	375	0011	B01B8	100478CP-N-PG-PP01-PR-PID-0024-002	02/02	PROCESS CONDENSATE	LIQUID	CONDENSATE TRANSFER TANK (PP01-375-T001)	VACUUM TRUCK CONNECTION	18	72	0.01	0.3	93	3.5	-	N	NI	-	Water	5.25	N		
4	VO	375	0001	B01B8	100478CP-N-PG-PP01-PR-PID-0024-002	02/02	FUEL GAS	GAS	CONDENSATE TRANSFER TANK (PP01-375-T001)	4"-PP01-502-VO0011-B01B8	18	72	0.01	0.08	93	3.5	-	N	NI	-	Water	5.25	N		
4	VO	502	0011	B01B8	100478CP-N-PG-PP01-PR-PID-0024-002	02/02	FUEL GAS	GAS	4"-PP01-375-GF0001-B01B8	SAFE LOCATION	18	72	0.01	0.08	93	3.5	-	N	NI	-	Air	3.5	N		
4	PK	375	0020	C01N9	100478CP-N-PG-PP01-PR-PID-0024-002	02/02	PROCESS CONDENSATE	LIQUID	CONDENSATE TRANSFER TANK (PP01-375-T001)	4"-PP01-375-PK0021/0022-C03N9	18	72	0.02	0.3	93	3.5	-	N	NI	-	Water	5.25	N		
4	PK	375	0021	C03N9	100478CP-N-PG-PP01-PR-PID-0033-001	01/01	PROCESS CONDENSATE	LIQUID	4"-PP01-375-PK0020-C01N9	CONDENSATE EXPORT PUMP (PP01-375-P002A)	18	72	0.02	13.6	93	27	-	N	NI	-	Water	40.5	N		
4	PK	375	0022	C03N9	100478CP-N-PG-PP01-PR-PID-0033-001	01/01	PROCESS CONDENSATE	LIQUID	4"-PP01-375-PK0020-C01N9	CONDENSATE EXPORT PUMPS (PP01-375-P002B)	18	72	0.02	13.6	93	27	-	N	NI	-	Water	40.5	N		
3	PK	375	0023	C03N9	100478CP-N-PG-PP01-PR-PID-0033-001	01/01	PROCESS CONDENSATE	LIQUID	CONDENSATE EXPORT PUMP (PP01-375-P002A)	3"-PP01-375-PK0025-API5L	18	72	0.02	13.6	93	27	-	N	NI	-	Water	40.5	N		
3	PK	375	0024	C03N9	100478CP-N-PG-PP01-PR-PID-0033-001	01/01	PROCESS CONDENSATE	LIQUID	CONDENSATE EXPORT PUMPS (PP01-375-P002B)	3"-PP01-375-PK0025-API5L	18	72	0.02	13.6	93	27	-	N	NI	-	Water	40.5	N		
3	PK	375	0025	API5L	100478CP-N-PG-PP01-PR-PID-0033-001	01/01	PROCESS CONDENSATE	LIQUID	3"-PP01-375-PK0023/0024-C03N9	3"-PP01-375-PK0028-C03N9	18	72	0.02	13.6	85	27	-	N	NI	-	Water	40.5	N		
2	PK	375	0026	C03N9	100478CP-N-PG-PP01-PR-PID-0033-001	01/01	PROCESS CONDENSATE	LIQUID	CONDENSATE EXPORT PUMP (PP01-375-P002B)	2"-PP01-375-PK0027-C03N9	18	72	0.02	13.6	93	27	-	N	NI	-	Water	40.5	N		
2	PK	375	0027	C03N9	100478CP-N-PG-PP01-PR-PID-0033-001	01/01	PROCESS CONDENSATE	LIQUID	CONDENSATE EXPORT PUMP (PP01-375-P002A)	CONDENSATE TRANSFER TANK (PP01-375-T001)	18	72	0.02	13.6	93	27	-	N	NI	-	Water	40.5	N		
3	PK	375	0028	C03N9	100478CP-N-PG-PP01-PR-PID-0033-001	01/01	PROCESS CONDENSATE	LIQUID	3"-PP01-375-PK0025-API5L	3"-PP01-375-PK0033-C01N9	18	72	0.02	13.6	93	27	-	N	NI	-	Water	40.5	N		
1	PK	375	0029	C03N9	100478CP-N-PG-PP01-PR-PID-0033-001	01/01	PROCESS CONDENSATE	LIQUID	3"-PP01-375-PK0023/0024-C03N9	PP01-375-PSV0012	18	72	0.02	13.6	93	27	-	N	NI	-	Water	40.5	N		
1	PK	375	0030	C03N9	100478CP-N-PG-PP01-PR-PID-0033-001	01/01	PROCESS CONDENSATE	LIQUID	PP01-375-PSV0012	2"-PP01-375-PK0027-C03N9	18	72	0.02	13.6	93	27	-	N	NI	-	Water	40.5	N		
3	PK	375	0031	C01N9	100478CP-N-PG-PP01-PR-PID-0033-001	01/01	PROCESS CONDENSATE	LIQUID	3"-PP01-375-PK0033-C01N9	PP01-375-PSV0013	18	72	-	8	93	10	-	N	NI	-	Water	15.0	N		
3	PK	375	0032	B01M8	100478CP-N-PG-PP01-PR-PID-0033-001	01/01	PROCESS CONDENSATE	LIQUID	PP01-375-PSV0013	CLOSED DRAIN DRUM AT DS-3	20	80	0.1	-	85	18	-	N	NI	-	Water	27.00	N		
3	PK	375	0033	C01N9	100478CP-N-PG-PP01-PR-PID-0033-001	01/01	PROCESS CONDENSATE	LIQUID	3"-PP01-375-PK0028-C03N9	6"-PP01-512-PK0069-B01F9	18	72	-	8.0	93	10	-	N	NI	-	Water	15.0	N		
2	GN	567	0091	B01H9	100478CP-N-PG-PP01-PR-PID-0024-001	01/02	NITROGEN	GAS	UTILITY CONNECTION	CONDENSATE STORAGE VESSEL (PP01-512-V001)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
2	PK	512	0071	C03N9	100478CP-N-PG-PP01-PR-PID-0033-001	01/01	PROCESS CONDENSATE	LIQUID	CONDENSATE EXPORT PUMP (PP01-375-P002A) SUCTION	2"-PP01-512-PK0072-B01M8	18	72	0.02	13.6	93	27	-	N	NI	-	Water	40.5	N		
2	PK	512	0072	B01M8	100478CP-N-PG-PP01-PR-PID-0033-001	01/01	PROCESS CONDENSATE	LIQUID	2"-PP01-512-PK0060/0062-C03N9	4"-PP01-512-PK0051-B01M8	18	72	-	1.5	93	10	-	N	NI	-	Water	15.0	N		



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION		DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION		
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
2	PK	512	0062	C03N9	100478CP-N-PG-PP01-PR-PID-0033-001	01/01	PROCESS CONDENSATE	LIQUID	CONDENSATE EXPORT PUMPS (PP01-375-P002B) SUCTION	2"-PP01-512-PK0072-B01M8	18	72	0.02	13.6	93	27	-	N	NI	-	Water	40.5	N		
2	PK	512	0063	C03N9	100478CP-N-PG-PP01-PR-PID-0033-001	01/01	PROCESS CONDENSATE	LIQUID	CONDENSATE EXPORT PUMP (PP01-375-P002A) DISCHARGE	2"-PP01-512-PK0060-C03N9	18	72	0.02	13.6	93	27	-	N	NI	-	Water	40.5	N		
2	PK	512	0064	C03N9	100478CP-N-PG-PP01-PR-PID-0033-001	01/01	PROCESS CONDENSATE	LIQUID	CONDENSATE EXPORT PUMPS (PP01-375-P002B) DISCHARGE	2"-PP01-512-PK0062-C03N9	18	72	0.02	13.6	93	27	-	N	NI	-	Water	40.5	N		
2	PK	375	0057	B01M8	100478CP-N-PG-PP01-PR-PID-0024-001	01/02	PROCESS CONDENSATE	LIQUID	CONDENSATE TRANSFER PUMP (PP01-375-P001A)	PORTABLE PUMP OR VACUUM TRUCK CONNECTION	18	120	0.1	1.0	-20/150	10 / FV	-	N	NI	-	Water	15	N		
2	PK	375	0058	B01M8	100478CP-N-PG-PP01-PR-PID-0024-001	01/02	PROCESS CONDENSATE	LIQUID	CONDENSATE TRANSFER PUMP (PP01-375-P001B)	PORTABLE PUMP OR VACUUM TRUCK CONNECTION	18	120	0.1	1.0	-20/150	10 / FV	-	N	NI	-	Water	15	N		
3/4	PK	375	0061	B01M8	100478CP-N-PG-PP01-PR-PID-0024-002	02/02	PROCESS CONDENSATE	LIQUID	3/4"-PP01-375-PK0059-C03N9	CONDENSATE TRANSFER TANK (PP01-375-T001)	18	72	0.01	0.08	93	3.5	-	N	NI	-	Water	5.3	N		
3/4	PK	375	0059	C03N9	100478CP-N-PG-PP01-PR-PID-0033-001	01/01	PROCESS CONDENSATE	LIQUID	CONDENSATE EXPORT PUMP (PP01-375-P002A)	3/4"-PP01-375-PK0061-B01M8	18	72	0.02	13.6	93	27	-	N	NI	-	Water	40.5	N		
3/4	PK	375	0060	C03N9	100478CP-N-PG-PP01-PR-PID-0033-001	01/01	PROCESS CONDENSATE	LIQUID	CONDENSATE EXPORT PUMP (PP01-375-P002B)	3/4"-PP01-375-PK0059-C03N9	18	72	0.02	13.6	93	27	-	N	NI	-	Water	40.5	N		
2	VK	500	0089	B01B8	100478CP-N-PG-PP01-PR-PID-0024-001	01/02	FUEL GAS	GAS	2"-PP01-567-GN0004-B01H9	CONDENSATE STORAGE VESSEL (PP01-512-V001)	18	120	0.1	1	-20/150	10	-	N	NI	-	Air	11	N		
-	-	512	V001-TX0001	B01M8	100478CP-N-PG-PP01-PR-PID-0024-001	01/02	-	-	-	-	18	120	0.1	1	-20/150	10	-	N	NI	-	Water	15.0	N	TRIM	
-	-	375	T001-TX0001	B01M8	100478CP-N-PG-PP01-PR-PID-0024-002	02/02	-	-	-	-	18	72	0.01	0.08	93	-0.006 / 0.172	-	N	NI	-	Water	3.5	N	TRIM	
-	-	375	P002A/B-TX0001	C03N9	100478CP-N-PG-PP01-PR-PID-0033-001	01/01	-	-	-	-	18	72	0.02	13.6	93	27	-	N	NI	-	Water	40.5	N	TRIM	

INSTRUMENT AIR DISTRIBUTION SYSTEM

3	AM	564	0001	C01A9	100478CP-N-PG-PP01-PR-PID-0025-003	03/03	INSTRUMENT AIR	GAS	3"-PP01-564-AM0002-C01A9	TP 001 NITROGEN GENERATION PACKAGE (PP01-567-Z001) - AIR BUFFER VESSEL	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
3	AM	564	0002	C01A9	100478CP-N-PG-PP01-PR-PID-0025-003	03/03	INSTRUMENT AIR	GAS	INSTRUMENT AIR RECEIVER (PP01-564-V001)	INSTRUMENT AIR DISTRIBUTION HEADER	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
3	AM	564	0023	C01A9	100478CP-N-PG-PP01-PR-PID-0025-003	03/03	INSTRUMENT AIR	GAS	TP 001 INSTRUMENT AIR DRYER PACKAGE (PP01-567-Z001) - AFTER FILTER A/B	INSTRUMENT AIR RECEIVER (PP01-564-V001)	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
3	AM	564	0024	C01A9	100478CP-N-PG-PP01-PR-PID-0025-003	03/03	INSTRUMENT AIR	GAS	INSTRUMENT AIR RECEIVER (PP01-564-V001)	564-PSV0001	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
4	AM	564	0025	C01A9	100478CP-N-PG-PP01-PR-PID-0025-003	03/03	INSTRUMENT AIR	GAS	564-PSV0001	TO SAFE LOCATION	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
2	AM	564	0026	C01A9	100478CP-N-PG-PP01-PR-PID-0025-003	03/03	INSTRUMENT AIR	GAS	3"-PP01-564-AM0023-C01A9	3"-PP01-564-AM0002-C01A9	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1/2	DO	510	0003	B01B9	100478CP-N-PG-PP01-PR-PID-0025-003	03/03	OPEN DRAIN	LIQUID	INSTRUMENT AIR RECEIVER (PP01-564-V001)	TO GRADE AT SAFE LOCATION	12	63	ATM	8.5	-2/85	12	-	N	NI		Water	18.0	N		
2	DO	510	0005	B01B9	100478CP-N-PG-PP01-PR-PID-0025-003	03/03	OPEN DRAIN	LIQUID	TP 004 INSTRUMENT AIR PACKAGE	TO CLEAN WATER DRAIN	12	63	ATM	ATM	-2/85	3.5	-	N	NI		Service	ATM	N		



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CLASS			B		LINE LIST																							
SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING				OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION	
							MEDIUM	PHASE			FROM		TO		Minimum		Maximum		Minimum		Maximum		°C	Barg	Kg/m³	Thk.mm	Type	Type
					NO.	SHT.																			Barg	Y/N		
2	DO	510	0006	B01B9	100478CP-N-PG-PP01-PR-PID-0025-003	03/03	OPEN DRAIN	LIQUID	TP 005 INSTRUMENT AIR PACKAGE		TO CLEAN WATER DRAIN	12	63	ATM	ATM	-2/85	3.5	-	N	NI		Service	ATM	N				
2	DO	510	0007	B01B9	100478CP-N-PG-PP01-PR-PID-0025-003	03/03	OPEN DRAIN	LIQUID	TP 006 INSTRUMENT AIR PACKAGE		TO CLEAN WATER DRAIN	12	63	ATM	ATM	-2/85	3.5	-	N	NI		Service	ATM	N				
-	-	564	V001-TX0001	C01A9	100478CP-N-PG-PP01-PR-PID-0025-003	03/03	-	-	-	-	-	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N	TRIM			

NITROGEN GENERATION SYSTEM

3	GN	567	0001	B01H9	100478CP-N-PG-PP01-PR-PID-0026-001	01/02	NITROGEN	GAS	TP 002 NITROGEN GENERATION PACKAGE (PP01-567-Z001) - DUST FILTER A/B	NITROGEN RECEIVER (PP01-567-V001)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N				
3	GN	567	0002	B01H9	100478CP-N-PG-PP01-PR-PID-0026-002	02/02	NITROGEN	GAS	NITROGEN RECEIVER (PP01-567-V001)	DISTRIBUTION HEADER	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N				
2	GN	567	0003	B01H9	100478CP-N-PG-PP01-PR-PID-0026-002	02/02	NITROGEN	GAS	2"-PP01-567-GN0004-B01H9	CONDENSATE TRANSFER TANK (PP01-375-T001)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N				
2	GN	567	0004	B01H9	100478CP-N-PG-PP01-PR-PID-0026-002	02/02	NITROGEN	GAS	3"-PP01-567-GN0002-B01H9	CONDENSATE STORAGE VESSEL (PP01-512-V001) SUMP	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N				
2	GN	567	0005	B01H9	100478CP-N-PG-PP01-PR-PID-0026-002	02/02	NITROGEN	GAS	3"-PP01-567-GN0002-B01H9	6"-PP01-501-VL0003-B01B8	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N				
3	GN	567	0009	B01H9	100478CP-N-PG-PP01-PR-PID-0026-002	02/02	NITROGEN	GAS	3"-PP01-567-GN0002-B01H9	DISTRIBUTION HEADER	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N				
3	GN	567	0085	B01H9	100478CP-N-PG-PP01-PR-PID-0026-002	02/02	NITROGEN	GAS	NITROGEN RECEIVER (PP01-567-V001)	567-PSV0001	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N				
4	GN	567	0011	B01H9	100478CP-N-PG-PP01-PR-PID-0026-002	02/02	NITROGEN	GAS	567-PSV0001	TO SAFE LOCATION	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N				
2	GN	567	0013	B01H9	100478CP-N-PG-PP01-PR-PID-0026-002	02/02	NITROGEN	GAS	3"-PP01-567-GN0002-B01H9	FUEL GAS COMPRESSOR TRAIN 1	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N				
2	GN	567	0014	B01H9	100478CP-N-PG-PP01-PR-PID-0026-002	02/02	NITROGEN	GAS	3"-PP01-567-GN0002-B01H9	FUEL GAS COMPRESSOR TRAIN 2	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N				
2	GN	567	0015	B01H9	100478CP-N-PG-PP01-PR-PID-0026-002	02/02	NITROGEN	GAS	3"-PP01-567-GN0002-B01H9	FUEL GAS COMPRESSOR TRAIN 3	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N				
2	GN	567	0076	B01H9	100478CP-N-PG-PP01-PR-PID-0026-002	02/02	NITROGEN	GAS	3"-PP01-567-GN0002-B01H9	6"-PP01-500-VK0019-B01B8	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N				
2	GN	567	0077	B01H9	100478CP-N-PG-PP01-PR-PID-0026-002	02/02	NITROGEN	GAS	2"-PP01-567-GN0005-B01H9	6"-PP01-500-VK0029-B01B8	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N				
3	GN	567	0090	B01H9	100478CP-N-PG-PP01-PR-PID-0026-002	02/02	NITROGEN	GAS	3"-PP01-567-GN0001-B01H9	3"-PP01-567-GN0002-B01H9	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N				
3	GN	567	0092	B01H9	100478CP-N-PG-PP01-PR-PID-0026-002	02/02	NITROGEN	GAS	3"-PP01-567-GN0002-B01H9	HEADER	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N				
1/2	DO	510	0004	B01B9	100478CP-N-PG-PP01-PR-PID-0026-002	02/02	OPEN DRAIN	LIQUID	NITROGEN RECEIVER (PP01-567-V001)	TO GRADE AT SAFE LOCATION	12	63	4	6.5	-2/85	12	-	N	NI		Visual	6.5	N				
-	-	567	V001-TX0001	B01H9	100478CP-N-PG-PP01-PR-PID-0026-002	02/02	-	-	-	-	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N	TRIM			

DIESEL FUEL SYSTEM



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION	
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.				
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N				
3	OD	560	0001	B01H9	100478CP-N-PG-PP01-PR-PID-0027-001	01/01	DIESEL	LIQUID	TANKER	DIESEL STORAGE TANK (PP01-560-T001)	AMB	AMB	ATM	ATM	-2/85	3.5	820 ~ 870	N	NI	-	Air	3.85	N			
3	OD	560	0002	B01H9	100478CP-N-PG-PP01-PR-PID-0027-001	01/01	DIESEL	LIQUID	DIESEL STORAGE VESSEL (PP01-560-T001)	DIESEL TRANSFER PUMP (PP01-555-P001A)	AMB	AMB	ATM	ATM	-2/85	3.5	820 ~ 870	N	NI	-	Air	3.85	N			
2	OD	560	0004	B01H9	100478CP-N-PG-PP01-PR-PID-0027-001	01/01	DIESEL	LIQUID	DIESEL TRANSFER PUMP (PP01-555-P001A)	2"-PP01-560-OD0006-B01H9	AMB	AMB	-	1.78	-2/85	3.5	820 ~ 870	N	NI	-	Air	3.85	N			
2/1	OD	560	0006	B01H9	100478CP-N-PG-PP01-PR-PID-0027-001	01/01	DIESEL	LIQUID	2"-PP01-560-OD0004-B01H9	FIRE WATER PUMPS DAY TANK	AMB	AMB	-	1.78	-2/85	3.5	820 ~ 870	N	NI	-	Air	3.85	N	NNF		
2	OD	560	0007	B01H9	100478CP-N-PG-PP01-PR-PID-0027-001	01/01	DIESEL	LIQUID	2"-PP01-560-OD0004-B01H9	EMERGENCY DIESEL GENERATOR SET DAY TANK	AMB	AMB	-	1.78	-2/85	3.5	820 ~ 870	N	NI	-	Air	3.85	N	NNF		
1	OD	560	0009	B01H9	100478CP-N-PG-PP01-PR-PID-0027-001	01/01	DIESEL	LIQUID	2"-PP01-560-OD0004-B01H9	DIESEL STORAGE TANK (PP01-560-T001)	AMB	AMB	-	1.78	-2/85	3.5	820 ~ 870	N	NI	-	Air	3.85	N	NNF		
2	WO	511	0019	B01H9	100478CP-N-PG-PP01-PR-PID-0027-001	01/01	DIESEL	LIQUID	DIESEL TRANSFER PUMP (PP01-555-P001A) CASING DRAIN	OILY WATER SYSTEM	AMB	AMB	-	-	-2/85	3.5	820 ~ 870	N	NI	-	Water	5.25	N			
4	WO	511	0002	B01M9	100478CP-N-PG-PP01-PR-PID-0027-001	01/01	DIESEL	LIQUID	DIESEL STORAGE TANK (PP01-560-T001)	COLLECTION SUMP	AMB	AMB	-	-	-2/85	3.5	820 ~ 870	N	NI	-	Water	5.25	N			
1	WO	511	0022	B01M9	100478CP-N-PG-PP01-PR-PID-0027-001	01/01	DIESEL	LIQUID	EMERGENCY DIESEL GENERATOR SET (PP01-740-GD001)	OILY WATER SYSTEM	AMB	AMB	-	-	-2/85	3.5	820 ~ 870	N	NI	-	Water	5.25	N			
6	VO	502	0012	B01H9	100478CP-N-PG-PP01-PR-PID-0027-001	01/01	DIESEL	GAS	DIESEL STORAGE TANK (PP01-560-T001)	SAFE LOCATION	AMB	AMB	-	-	-2/85	3.5	820 ~ 870	N	NI	-	Water	5.25	N			
-	-	560	T001-TX0001	B01H9	100478CP-N-PG-PP01-PR-PID-0027-001	01/01	-	-	-	-	AMB	AMB	ATM	ATM	-2/85	0.1 / -0.006	820 ~ 870	N	NI	-	Water	ATM	N	TRIM		

RAW WATER TREATMENT SYSTEM

2	WU	553	0013	G01J9	100478CP-N-PG-PP01-PR-PID-0028-001	01/01	SERVICE WATER	LIQUID	TP 003 REVERSE OSMOSIS PACKAGE (PP01-553-Z101/201)	SERVICE WATER STORAGE TANK (PP01-553-T001)	AMB	AMB	5	5	-2/85	8	1000	N	NI	-	Service	5	N		
3	WX	554	0001	B01M6	100478CP-N-PG-PP01-PR-PID-0028-001	01/01	RAW WATER	LIQUID	TANKER UNLOADING	RAW WATER STORAGE TANK (PP01-554-T001)	AMB	AMB	ATM	ATM	-2/85	5	1000	N	NI	-	Service	5	N		
3	WX	554	0002	B01M6	100478CP-N-PG-PP01-PR-PID-0028-001	01/01	RAW WATER	LIQUID	RAW WATER STORAGE TANK (PP01-554-T001)	TP 001 / 002 RAW WATER PUMPS	AMB	AMB	ATM	ATM	-2/85	5	1000	N	NI	-	Service	5	N		
3	WX	554	0003	B01M6	100478CP-N-PG-PP01-PR-PID-0028-001	01/01	RAW WATER	LIQUID	TP 004 REVERSE OSMOSIS PACKAGE (PP01-554-Z101/201)	EVAPORATION POND (PP01-514-TG002)	AMB	AMB	ATM	ATM	-2/85	5	1000	N	NI	-	Service	5	N		
8	WX	554	0004	B01M6	100478CP-N-PG-PP01-PR-PID-0028-001	01/01	RAW WATER	LIQUID	RAW WATER STORAGE TANK (PP01-554-T001)	OVERFLOW TO OPEN DRAIN	AMB	AMB	ATM	ATM	-2/85	5	1000	N	NI	-	Service	5	N		
6	WX	554	0031	B03M6	100478CP-N-PG-PP01-PR-PID-0028-001	01/01	RAW WATER	LIQUID	6"-PP01-554-WX0035-API5L	6"-PP01-554-WX0032-B01M6	AMB	AMB	4	4	-2/85	25	1000	N	NI		Service	25	N		
6	WX	554	0032	B01M6	100478CP-N-PG-PP01-PR-PID-0028-001	01/01	RAW WATER	LIQUID	6"-PP01-554-WX0031-B03M6	RAW WATER STORAGE TANK (PP01-554-T001)	AMB	AMB	4	4	-2/85	25	1000	N	NI		Service	25	N		
6	WX	554	0033	B03M6	100478CP-N-PG-PP01-PR-PID-0028-001	01/01	RAW WATER	LIQUID	6"-PP01-554-WX0031-B03M6	6"-PP01-554-WX0040-B01M7	AMB	AMB	4	4	-2/85	25	1000	N	NI		Service	25	N		
6	WX	554	0034	B03M6	100478CP-N-PG-PP01-PR-PID-0028-001	01/01	RAW WATER	LIQUID	TP 005 CPS-4 18"-PW-CN00-900-API5L-PP	6"-PP01-554-WX0035-API5L	AMB	AMB	4	4	-2/85	25	1000	N	NI		Service	25	N		
6	WX	554	0035	API5L	100478CP-N-PG-PP01-PR-PID-0028-001	01/01	RAW WATER	LIQUID	6"-PP01-554-WX0034-B03M6	6"-PP01-554-WX0031-B03M6	AMB	AMB	ATM	ATM	-2/85	25	1000	N	NI		Service	25	N		



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
2	WX	554	0038	B03M6	100478CP-N-PG-PP01-PR-PID-0028-001	01/01	RAW WATER	LIQUID	6"-PP01-554-WX0031-B03M6	554-PSV0004	AMB	AMB	4	4	-2/85	25	1000	N	NI		Service	25	N		
2	WX	554	0039	B01M6	100478CP-N-PG-PP01-PR-PID-0028-001	01/01	RAW WATER	LIQUID	554-PSV0004	SAFE LOCATION	AMB	AMB	ATM	ATM	-2/85	0.1	1000	N	NI		Service	1.5	N		
6	WX	554	0040	B01M7	100478CP-N-PG-PP01-SR-PID-0001-001	01/01	RAW WATER	LIQUID	6"-PP01-554-WX0033-B03M6	FIRE WATER TANK (PP01-610-T001)	AMB	AMB	4	4	-2/85	18	1000	N	NI		Service	18	N		
2	DO	510	0001	B01B9	100478CP-N-PG-PP01-PR-PID-0028-001	01/01	RAW WATER	LIQUID	RAW WATER STORAGE TANK (PP01-554-T001)	OPEN DRAIN	AMB	AMB	ATM	3.5	-2/85	3.5	1000	N	NI	-	Service	3.5	N		
2	WU	553	0012	G01J9	100478CP-N-PG-PP01-PR-PID-0028-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0013-G01J9	FIRE WATER TANK (PP01-610-T001)	AMB	AMB	5	5	-2/85	8	1000	N	NI	-	Service	5	N		
6	VO	502	0013	B01B9	100478CP-N-PG-PP01-PR-PID-0028-001	01/01	RAW WATER	GAS	RAW WATER STORAGE TANK (PP01-554-T001)	SAFE LOCATION	AMB	AMB	ATM	ATM	-2/85	3.5	1000	N	NI		Service	5.25	N		
-	-	554	T001-TX0001	B01B9	100478CP-N-PG-PP01-PR-PID-0028-001	01/01	-	-	-	-	AMB	AMB	ATM	ATM	-2/85	0.01+FULL OF WATER / -0.006	1000	N	NI		Service	5.25	N	TRIM	

SERVICE WATER/POTABLE WATER SYSTEM

3	WU	553	0006	B01M6	100478CP-N-PG-PP01-PR-PID-0029-001	01/01	SERVICE WATER	LIQUID	SERVICE WATER STORAGE TANK (PP01-553-T001)	OVERFLOW TO OPEN DRAIN	AMB	AMB	-	0.8	-2/85	3.5	1000	N	NI	-	Service	0.8	N		
3	WU	553	0007	B01M6	100478CP-N-PG-PP01-PR-PID-0029-001	01/01	SERVICE WATER	LIQUID	SERVICE WATER STORAGE TANK (PP01-553-T001)	SERVICE WATER PUMP (PP01-553-P001A)	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N		
3	WU	553	0008	B01M6	100478CP-N-PG-PP01-PR-PID-0029-001	01/01	SERVICE WATER	LIQUID	SERVICE WATER STORAGE TANK (PP01-553-T001)	SERVICE WATER PUMP (PP01-553-P001B)	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N		
2	WU	553	0009	G01J9	100478CP-N-PG-PP01-PR-PID-0029-001	01/01	SERVICE WATER	LIQUID	SERVICE WATER PUMP (PP01-553-P001A)	2"-PP01-553-WU0011-G01J9	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N		
2	WU	553	0010	G01J9	100478CP-N-PG-PP01-PR-PID-0029-001	01/01	SERVICE WATER	LIQUID	SERVICE WATER PUMP (PP01-553-P001B)	2"-PP01-553-WU0011-G01J9	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N		
2	WU	553	0011	G01J9	100478CP-N-PG-PP01-PR-PID-0029-001	01/01	SERVICE WATER	LIQUID	SERVICE WATER PUMPS (PP01-553-P001A/B)	SERVICE WATER DISTRIBUTION	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N		
2	WU	553	0048	G01J9	100478CP-N-PG-PP01-PR-PID-0029-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0011-G01J9	SERVICE WATER STORAGE TANK (PP01-553-T001)	AMB	AMB	-	5.8	85	8	1000	N	NI	-	Service	5.8	N		
1	WU	553	0055	G01J9	100478CP-N-PG-PP01-PR-PID-0029-001	01/01	SERVICE WATER	LIQUID	SERVICE WATER PUMPS (PP01-553-P001A)	OPEN DRAIN	AMB	AMB	0.1	-	85	3.5	1000	N	NI	-	Service	5.25	N	NNF	
1	WU	553	0056	G01J9	100478CP-N-PG-PP01-PR-PID-0029-001	01/01	SERVICE WATER	LIQUID	SERVICE WATER PUMPS (PP01-553-P001B)	OPEN DRAIN	AMB	AMB	0.1	-	85	3.5	1000	N	NI	-	Service	5.25	N	NNF	
2	WP	550	0001	C01A9	100478CP-N-PG-PP01-PR-PID-0029-001	01/01	POTABLE WATER	LIQUID	TP 002 POTABLE WATER STERILIZATION PACKAGE (PP01-550-Z001)	POTABLE WATER DISTRIBUTION	AMB	AMB	2	5.8	2/85	8	1000	N	NI	-	Service	5.8	N		
2	WU	553	0067	G01J9	100478CP-N-PG-PP01-PR-PID-0029-001	01/01	SERVICE WATER	LIQUID	SERVICE WATER PUMPS (PP01-553-P001A/B)	UV STERILIZER	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N		
1/2	WU	553	0068	G01J9	100478CP-N-PG-PP01-PR-PID-0029-001	01/01	SERVICE WATER	LIQUID	SERVICE WATER PUMPS (PP01-553-P001A/B)	RO2 HIGH PRESSURE PUMPS	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N		
2	DO	510	0002	B01B9	100478CP-N-PG-PP01-PR-PID-0029-001	01/01	SERVICE WATER	LIQUID	SERVICE WATER STORAGE TANK (PP01-553-T001)	OPEN DRAIN	AMB	AMB	ATM	3.5	-2/85	3.5	1000	N	NI	-	Visual	3.5	N		
6	VO	502	0014	B01B9	100478CP-N-PG-PP01-PR-PID-0029-001	01/01	SERVICE WATER	GAS	SERVICE WATER STORAGE TANK (PP01-553-T001)	SAFE LOCATION	AMB	AMB	ATM	ATM	-2/85	3.5	1000	N	NI		Service	5.25	N		



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CLASS		B		LINE LIST																		INSULATION & TRACING			TESTING		REMARKS	REVISION
SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING				OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			MED	PRESS.	STEAM OUT	REMARKS	REVISION	
							MEDIUM	PHASE					TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.				
					NO.	SHT.			FROM	TO	Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type		Barg	Y/N					
-	-	553	T001-TX0001	B01B9	100478CP-N-PG-PP01-PR-PID-0029-001	01/01	-	-	-	-	AMB	AMB	ATM	ATM	-2/85	0.01+FULL OF WATER /-0.006	1000	N	NI	-	Service	5.25	N	TRIM				

DEMINERALIZED WATER SYSTEM

2	WD	555	0001	C01A9	100478CP-N-PG-PP01-PR-PID-0030-001	01/01	DEMINERALIZED WATER	LIQUID	TP 001 DEMINERALIZATION WATER PACKAGE (PP01-555-Z001)	GTG WASHING WATER SYSTEM	5	35	3	3	-2/85	5	1000	N	NI	-	Service	3	N		
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CHEMICAL INJECTION PACKAGE

1	KJ	520	0001	C06A9	100478CP-N-PG-PP01-PR-PID-0031-001	01/02	CORROSION INHIBITOR	LIQUID	TP 002 CORROSION INHIBITOR INJECTION PACKAGE (PP01-520-Z101)	10"-PP01-361-GF1001-B03F9	20	50	10	11	-2/85	45	-	N	NI	-	Water	67.5	N	
1	KJ	520	0002	C06A9	100478CP-N-PG-PP01-PR-PID-0031-002	02/02	CORROSION INHIBITOR	LIQUID	TP 002 CORROSION INHIBITOR INJECTION PACKAGE (PP01-520-Z201)	8"-PP01-361-GF1003-B03F9	20	50	10	11	-2/85	45	-	N	NI	-	Water	67.5	N	
2	DM	520	0001	W01J9	100478CP-N-PG-PP01-PR-PID-0031-001	01/02	CORROSION INHIBITOR	LIQUID	TP 003 CORROSION INHIBITOR INJECTION PACKAGE (PP01-520-Z101)	LOCAL SUMP	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N	
1	KJ	520	0006	C06A9	100478CP-N-PG-PP01-PR-PID-0031-002	02/02	CORROSION INHIBITOR	LIQUID	1"-PP01-520-KJ0002-C06A9	20"-PP01-361-GF0069-B03F9	20	50	10	11	-2/85	45	-	N	NI	-	Water	67.5	N	
2	DM	520	0002	W01J9	100478CP-N-PG-PP01-PR-PID-0031-002	02/02	CORROSION INHIBITOR	LIQUID	TP 003 CORROSION INHIBITOR INJECTION PACKAGE (PP01-520-Z201)	LOCAL SUMP	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N	
1	DM	520	0003	W01J9	100478CP-N-PG-PP01-PR-PID-0031-001	01/02	CORROSION INHIBITOR	LIQUID	LOCAL SUMP	VACUUM TRUCK CONNECTION	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N	
1	DM	520	0004	W01J9	100478CP-N-PG-PP01-PR-PID-0031-002	02/02	CORROSION INHIBITOR	LIQUID	LOCAL SUMP	VACUUM TRUCK CONNECTION	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N	

PLANT AIR DISTRIBUTION SYSTEM

2	AN	563	0002	G01J9	100478CP-N-PG-PP01-PR-PID-0025-003	03/03	PLANT AIR	GAS	TP 002 INSTRUMENT AIR DRYER A/B	PLANT AIR DISTRIBUTION	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N	
3/4	AN	563	0011	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0002-G01J9	US-1 AIR COMPRESSOR AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N	
3/4	AN	563	0012	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0002-G01J9	US-2 NITROGEN GENERATION AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N	
3/4	AN	563	0013	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0002-G01J9	US-3 DIESEL HANDLING AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N	
3/4	AN	563	0014	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0002-G01J9	US-4 DEMIN WATER AND RO PACKAGE AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N	
3/4	AN	563	0015	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0002-G01J9	US-5 FIRE WATER AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N	
3/4	AN	563	0016	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0002-G01J9	US-6 SCRAPER RECEIVER AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N	



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
3/4	AN	563	0017	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0002-G01J9	US-7 FUEL GAS KO DRUM AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N		
3/4	AN	563	0018	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0002-G01J9	US-8 FUEL GAS TREATMENT AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N		
3/4	AN	563	0019	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0002-G01J9	US-9 CONDENSATE HANDLING AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N		
3/4	AN	563	0020	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0036-G01J9	US-10 FG COMPRESSOR TRAIN 3 AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N		
3/4	AN	563	0021	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0036-G01J9	US-11 FG COMPRESSOR TRAIN 3 AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N		
3/4	AN	563	0022	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0037-G01J9	US-12 FG COMPRESSOR TRAIN 2 AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N		
3/4	AN	563	0023	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0037-G01J9	US-13 FG COMPRESSOR TRAIN 2 AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N		
3/4	AN	563	0024	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0038-G01J9	US-14 FG COMPRESSOR TRAIN 1 AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N		
3/4	AN	563	0025	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0038-G01J9	US-15 FG COMPRESSOR TRAIN 1 AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N		
3/4	AN	563	0026	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0039-G01J9	US-16 GTG TRAIN 5 AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N		
3/4	AN	563	0027	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0039-G01J9	US-17 GTG TRAIN 5 AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N		
3/4	AN	563	0028	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0040-G01J9	US-18 GTG TRAIN 4 AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N		
3/4	AN	563	0029	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0040-G01J9	US-19 GTG TRAIN 4 AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N		
3/4	AN	563	0030	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0041-G01J9	US-20 GTG TRAIN 3 AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N		
3/4	AN	563	0031	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0041-G01J9	US-21 GTG TRAIN 3 AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N		
3/4	AN	563	0032	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0042-G01J9	US-22 GTG TRAIN 2 AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N		
3/4	AN	563	0033	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0042-G01J9	US-23 GTG TRAIN 2 AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N		
3/4	AN	563	0034	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0043-G01J9	US-24 GTG TRAIN 1 AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N		
3/4	AN	563	0035	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0043-G01J9	US-25 GTG TRAIN 1 AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N		
2	AN	563	0036	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0002-G01J9	FG COMPRESSOR TRAIN 3	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N		
2	AN	563	0037	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0002-G01J9	FG COMPRESSOR TRAIN 2	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N		
2	AN	563	0038	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0002-G01J9	FG COMPRESSOR TRAIN 1	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N		



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)	FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
						MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
										Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
2	AN	563	0039	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0002-G01J9	GTG TRAIN 5	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N	
2	AN	563	0040	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0002-G01J9	GTG TRAIN 4	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N	
2	AN	563	0041	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0002-G01J9	GTG TRAIN 3	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N	
2	AN	563	0042	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0002-G01J9	GTG TRAIN 2	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N	
2	AN	563	0043	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0002-G01J9	GTG TRAIN 1	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N	
3/4	AN	563	0045	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0002-G01J9	US-27 CONDENSATE HANDLING AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N	
3/4	AN	563	0046	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0002-G01J9	US-26 FUEL GAS TREATMENT AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N	
3/4	AN	563	0047	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0002-G01J9	US-102 FUEL GAS KO DRUM AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N	
3/4	AN	563	0048	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0002-G01J9	US-101 FUEL GAS KO DRUM AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N	
3/4	AN	563	0057	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0038-G01J9	US-105	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N	
3/4	AN	563	0058	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0037-G01J9	US-104	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N	
3/4	AN	563	0059	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0036-G01J9	US-103	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N	

NITROGEN DISTRIBUTION SYSTEM

1	AN	563	0060	C01A9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	2"-PP01-563-AN0002-G01J9	1"-PP01-563-AN0061-G01J9	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N	
1	AN	563	0061	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	1"-PP01-563-AN0060-C01A9	US-28 WAREHOUSE / WORKSHOP AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N	
3/4	AN	563	0062	G01J9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	PLANT AIR	GAS	3/4"-PP01-563-AN0019-G01J9	US-106 FGT AREA	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Service	8.4	N	
3/4	GN	567	0051	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	HEADER (3"-PP01-567-GN0009-B01H9)	AIR COMPRESSOR AREA (US-1)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N	
3/4	GN	567	0052	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	HEADER (3"-PP01-567-GN0009-B01H9)	NITROGEN GENERATION AREA (US-2)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N	
3/4	GN	567	0053	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	HEADER (3"-PP01-567-GN0009-B01H9)	DIESEL HANDLING AREA (US-3)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N	
3/4	GN	567	0054	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	HEADER (3"-PP01-567-GN0009-B01H9)	DEMIN WATER AND RO PACKAGE AREA (US-4)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N	
3/4	GN	567	0055	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	HEADER (3"-PP01-567-GN0009-B01H9)	FIRE WATER AREA (US-5)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N	
3/4	GN	567	0056	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	HEADER (3"-PP01-567-GN0009-B01H9)	SCRAPER RECEIVER AREA (US-6)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N	



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
3/4	GN	567	0057	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	HEADER (3"-PP01-567-GN0009-B01H9)	FG KO DRUM AREA (US-7)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
3/4	GN	567	0058	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	HEADER (3"-PP01-567-GN0009-B01H9)	FG TREATMENT AREA (US-8)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
3/4	GN	567	0059	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	HEADER (3"-PP01-567-GN0009-B01H9)	CONDENSATE HANDLING AREA (US-9)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
2	GN	567	0060	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	HEADER (3"-PP01-567-GN0009-B01H9)	FG COMPRESSOR TRAIN-3 (US-10)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
3/4	GN	567	0061	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	2"-PP01-567-GN0060-B01H9	FG COMPRESSOR TRAIN-3 (US-11)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
2	GN	567	0062	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	HEADER (3"-PP01-567-GN0009-B01H9)	FG COMPRESSOR TRAIN-2 (US-12)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
3/4	GN	567	0063	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	2"-PP01-567-GN0062-B01H9	FG COMPRESSOR TRAIN-2 (US-13)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
2	GN	567	0064	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	HEADER (3"-PP01-567-GN0009-B01H9)	FG COMPRESSOR TRAIN-1 (US-14)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
3/4	GN	567	0065	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	2"-PP01-567-GN0064-B01H9	FG COMPRESSOR TRAIN-1 (US-15)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
3/4	GN	567	0066	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	2"-PP01-567-GN5011-B01H9	GTG TRAIN-5 (US-16)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
3/4	GN	567	0067	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	2"-PP01-567-GN5011-B01H9	GTG TRAIN-5 (US-17)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
3/4	GN	567	0068	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	2"-PP01-567-GN4011-B01H9	GTG TRAIN-4 (US-18)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
3/4	GN	567	0069	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	2"-PP01-567-GN4011-B01H9	GTG TRAIN-4 (US-19)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
3/4	GN	567	0070	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	2"-PP01-567-GN3011-B01H9	GTG TRAIN-3 (US-20)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
3/4	GN	567	0071	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	2"-PP01-567-GN3011-B01H9	GTG TRAIN-3 (US-21)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
3/4	GN	567	0072	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	2"-PP01-567-GN2011-B01H9	GTG TRAIN-2 (US-22)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
3/4	GN	567	0073	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	2"-PP01-567-GN2011-B01H9	GTG TRAIN-2 (US-23)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
3/4	GN	567	0074	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	2"-PP01-567-GN1011-B01H9	GTG TRAIN-1 (US-24)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
3/4	GN	567	0075	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	2"-PP01-567-GN1011-B01H9	GTG TRAIN-1 (US-25)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
3/4	GN	567	0083	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	HEADER (3"-PP01-567-GN0009-B01H9)	CONDENSATE HANDLING AREA (US-27)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
3/4	GN	567	0084	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	HEADER (3"-PP01-567-GN0009-B01H9)	FUEL GAS TREATMENT AREA (US-26)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
3/4	GN	567	0087	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	HEADER (3"-PP01-567-GN0009-B01H9)	FG COMPRESSOR TRAIN-3 (US-10)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING				OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE					TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.			FROM	TO	Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N					
3/4	GN	567	0088	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	HEADER (3"-PP01-567-GN0009-B01H9)	FG COMPRESSOR TRAIN-2 (US-12)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N				
3/4	GN	567	0089	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	HEADER (3"-PP01-567-GN0009-B01H9)	FG COMPRESSOR TRAIN-1 (US-14)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N				
2	GN	567	0016	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	HEADER (3"-PP01-567-GN0009-B01H9)	FUEL GAS TREATMENT PACKAGE (PP01-362-Z001)	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N				

INSTRUMENT AIR DISTRIBUTION SYSTEM

2	AM	564	0003	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	3"-PP01-564-AM0002-C01A9	FLAME FRONT GENERATOR (FFG)	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
2	AM	564	0004	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM0021-C01A9	TP 004 2ND FUEL GAS COMPRESSOR (PP01-363-C201)	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
2	AM	564	0005	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM0002-C01A9	HEADER	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
2	AM	564	0006	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM0005-C01A9	TP 004 3RD FUEL GAS COMPRESSOR (PP01-363-C301)	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	0007	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM0022-C01A9	COMPRESSOR TRAIN 1	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	0008	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM0021-C01A9	COMPRESSOR TRAIN 2	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	0009	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM0005-C01A9	COMPRESSOR TRAIN 3	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	0011	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	3"-PP01-564-AM0002-C01A9	UTILITY AREA	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	0012	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	3"-PP01-564-AM0002-C01A9	FUEL GAS KOD AREA	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	0013	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	3"-PP01-564-AM0002-C01A9	TP 004 FUEL GAS TREATMENT PACKAGE (PP01-362-Z001)	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	0014	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	3"-PP01-564-AM0002-C01A9	CONDENSATE HANDLING AREA	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
2	AM	564	0019	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM0022-C01A9	TP 004 1ST FUEL GAS COMPRESSOR (PP01-363-C101)	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
2	AM	564	0021	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM0002-C01A9	HEADER	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
2	AM	564	0022	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM0002-C01A9	HEADER	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
2	AM	564	0029	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM0002-C01A9	HEADER	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	0030	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM0029-C01A9	RECEIVER AREA	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	0031	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM0029-C01A9	RECEIVER AREA	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	0032	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	1"-PP01-564-AM0012-C01A9	FUEL GAS KOD AREA	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
1	AM	564	0033	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM0022-C01A9	TRAIN 1 COMPRESSOR AREA	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	0034	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM0022-C01A9	TRAIN 1 COMPRESSOR AREA	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	0035	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM0021-C01A9	TRAIN 2 COMPRESSOR AREA	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	0036	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM0021-C01A9	TRAIN 2 COMPRESSOR AREA	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	0037	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM0005-C01A9	TRAIN 3 COMPRESSOR AREA	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	0038	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM0005-C01A9	TRAIN 3 COMPRESSOR AREA	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
2	AM	564	1011	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM0002-C01A9	TP 0146 FUEL GAS SKID SYSTEM	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	1017	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM1011-C01A9	GTG-1	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
2	AM	564	2011	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM0002-C01A9	TP 0246 FUEL GAS SKID SYSTEM	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	2017	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM2011-C01A9	GTG-2	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
2	AM	564	3011	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM0002-C01A9	TP 0346 FUEL GAS SKID SYSTEM	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	3017	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM3011-C01A9	GTG-3	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
2	AM	564	4011	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM0002-C01A9	TP 0446 FUEL GAS SKID SYSTEM	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	4017	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM4011-C01A9	GTG-4	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
2	AM	564	5011	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM0002-C01A9	TP 0546 FUEL GAS SKID SYSTEM	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	5017	C01A9	100478CP-N-PG-PP01-PR-PID-0036-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM4011-C01A9	GTG-5	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		

SERVICE WATER/POTABLE WATER SYSTEM

3/4	WU	553	0014	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0018-G01J9	US-1 AIR COMPRESSOR PACKAGE	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0015	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0018-G01J9	US-2 NITROGEN GENERATION PACKAGE	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0016	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0011-G01J9	US-3 DIESEL STORAGE SYSTEM	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0017	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0011-G01J9	US-4 DM WATER AND RO PACKAGE	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0018	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0011-G01J9	HEADER US-1 & US-2	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	



**EARLY POWER PLANT PROJECT
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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
3/4	WU	553	0019	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0011-G01J9	US-5 FIRE WATER PUMP HOUSE	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0020	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0011-G01J9	US-6 SCRAPER RECEIVER (DS-1 & DS-3)	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0021	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0011-G01J9	US-7 FUEL GAS KO DRUM	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0022	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0011-G01J9	US-8 FG TREATMENT PACKAGE	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0023	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0039-G01J9	US-11 FUEL GAS COMPRESSOR TRAIN 3	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0024	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0039-G01J9	US-10 FGC KO DRUM TRAIN 3	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0025	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0040-G01J9	US-13 FUEL GAS COMPRESSOR TRAIN 2	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0026	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0040-G01J9	US-12 FGC KO DRUM TRAIN 2	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0027	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0041-G01J9	US-15 FUEL GAS COMPRESSOR TRAIN 1	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0028	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0041-G01J9	US-14 FGC KO DRUM TRAIN 1	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0029	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0042-G01J9	US-17 GTG TRAIN 5	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0030	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0042-G01J9	US-16 GTG TRAIN 5	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0031	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0043-G01J9	US-19 GTG TRAIN 4	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0032	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0043-G01J9	US-18 GTG TRAIN 4	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0033	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0044-G01J9	US-21 GTG TRAIN 3	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0034	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0044-G01J9	US-20 GTG TRAIN 3	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0035	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0045-G01J9	US-23 GTG TRAIN 2	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0036	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0045-G01J9	US-22 GTG TRAIN 2	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0037	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0046-G01J9	US-25 GTG TRAIN 1	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0038	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0046-G01J9	US-24 GTG TRAIN 1	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
2	WU	553	0039	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0011-G01J9	FUEL GAS COMPRESSOR TRAIN 3	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
2	WU	553	0040	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0011-G01J9	FUEL GAS COMPRESSOR TRAIN 2	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION		DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION		
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
2	WU	553	0041	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0011-G01J9	FUEL GAS COMPRESSOR TRAIN 1	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
2	WU	553	0042	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0011-G01J9	GTG TRAIN 5	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
2	WU	553	0043	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0011-G01J9	GTG TRAIN 4	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
2	WU	553	0044	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0011-G01J9	GTG TRAIN 3	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
2	WU	553	0045	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0011-G01J9	GTG TRAIN 2	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
2	WU	553	0046	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0011-G01J9	GTG TRAIN 1	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0047	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0011-G01J9	US-9 CONDENSATE SYSTEM	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0057	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0041-G01J9	US-105	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0058	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0040-G01J9	US-104	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0059	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0039-G01J9	US-103	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0060	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0011-G01J9	US-27 CONDENSATE HANDLING AREA	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0061	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0011-G01J9	US-26 FUEL GAS TREATMENT AREA	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0062	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0011-G01J9	US-102 FUEL GAS KO DRUM AREA	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0063	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	2"-PP01-553-WU0011-G01J9	US-101 FUEL GAS KO DRUM AREA	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
1	WU	553	0064	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	1"-PP01-550-WP0036-C01A9	STP AREA	AMB	AMB	2	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
1	WU	553	0065	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	1"-PP01-550-WP0037-C01A9	WAREHOUSE AREA	AMB	AMB	2	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
3/4	WU	553	0066	G01J9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	SERVICE WATER	LIQUID	3/4"-PP01-553-WU0022-G01J9	US-106 FG TREATMENT PACKAGE	AMB	AMB	-	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
1	WP	550	0002	C01A9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	POTABLE WATER	LIQUID	2"-PP01-550-WP0001-C01A9	POTABLE WATER FOR HUMAN CONSUMPTION FG COMPRESSOR AREA	AMB	AMB	2	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
1	WP	550	0003	C01A9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	POTABLE WATER	LIQUID	2"-PP01-550-WP0001-C01A9	POTABLE WATER FOR HUMAN CONSUMPTION GTG AREA	AMB	AMB	2	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
2	WP	550	0004	C01A9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	POTABLE WATER	LIQUID	2"-PP01-550-WP0006-C01A9	GIS SUBSTATION	AMB	AMB	2	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
2	WP	550	0005	C01A9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	POTABLE WATER	LIQUID	2"-PP01-550-WP0006-C01A9	ELECTRICAL ROOM	AMB	AMB	2	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
2	WP	550	0006	C01A9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	POTABLE WATER	LIQUID	2"-PP01-550-WP0001-C01A9	HEADER	AMB	AMB	2	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
2	WP	550	0007	C01A9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	POTABLE WATER	LIQUID	2"-PP01-550-WP0001-C01A9	WAREHOUSE / WORKSHOP BLDG.	AMB	AMB	2	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
2	WP	550	0008	C01A9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	POTABLE WATER	LIQUID	2"-PP01-550-WP0001-C01A9	ADMIN BLDG. / CONTROL ROOM	AMB	AMB	2	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
2	WP	550	0009	C01A9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	POTABLE WATER	LIQUID	1"-PP01-550-WP0010-C01A9	SERVICE WATER STORAGE TANK (PP01-553-T001)	AMB	AMB	2	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N		
1	WP	550	0010	C01A9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	POTABLE WATER	LIQUID	2"-PP01-550-WP0001-C01A9	2"-PP01-550-WP0009-C01A9	AMB	AMB	2	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
1	WP	550	0011	C01A9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	POTABLE WATER	LIQUID	2"-PP01-550-WP0001-C01A9	2"-PP01-550-WP0009-C01A9	AMB	AMB	2	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
1	WP	550	0012	C01A9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	POTABLE WATER	LIQUID	2"-PP01-550-WP0001-C01A9	2"-PP01-550-WP0009-C01A9	AMB	AMB	2	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
1	WP	550	0013	C01A9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	POTABLE WATER	LIQUID	2"-PP01-550-WP0001-C01A9	2"-PP01-550-WP0009-C01A9	AMB	AMB	2	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
2	WP	550	0031	C01A9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	POTABLE WATER	LIQUID	2"-PP01-550-WP0001-C01A9	GUARD HOUSE AREA	AMB	AMB	2	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
1	WP	550	0032	C01A9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	POTABLE WATER	LIQUID	2"-PP01-550-WP0001-C01A9	WAREHOUSE AREA	AMB	AMB	2	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
1	WP	550	0033	C01A9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	POTABLE WATER	LIQUID	2"-PP01-550-WP0001-C01A9	WATER TREATMENT AREA	AMB	AMB	2	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
1	WP	550	0034	C01A9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	POTABLE WATER	LIQUID	2"-PP01-550-WP0001-C01A9	FGT AREA	AMB	AMB	2	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
1	WP	550	0035	C01A9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	POTABLE WATER	LIQUID	2"-PP01-550-WP0001-C01A9	CONDENSATE AREA	AMB	AMB	2	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
1	WP	550	0036	C01A9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	POTABLE WATER	LIQUID	2"-PP01-550-WP0001-C01A9	1"-PP01-553-WU0064-G01J9	AMB	AMB	2	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	
1	WP	550	0037	C01A9	100478CP-N-PG-PP01-PR-PID-0037-001	01/01	POTABLE WATER	LIQUID	2"-PP01-550-WP0001-C01A9	1"-PP01-553-WU0065-G01J9	AMB	AMB	2	5.8	-2/85	8	1000	N	NI	-	Service	5.8	N	NNF	

GTG WASHING WATER SYSTEM

2	WD	555	1001	C01A9	100478CP-N-PG-PP01-PR-PID-0045-001	01/01	DEMINERALIZED WATER	LIQUID	2"-PP01-555-WD0001-C01A9	MP 112 EXPANSION TANK	5	35	3	3	-2/85	5	1000	N	NI	-	Service	3	N		
2	WD	555	2001	C01A9	100478CP-N-PG-PP01-PR-PID-0045-001	01/01	DEMINERALIZED WATER	LIQUID	2"-PP01-555-WD0001-C01A9	MP 212 COOLING WATER COOLER SKID AND EXPANSION TANK	5	35	3	3	-2/85	5	1000	N	NI	-	Service	3	N		
2	WD	555	3001	C01A9	100478CP-N-PG-PP01-PR-PID-0045-001	01/01	DEMINERALIZED WATER	LIQUID	2"-PP01-555-WD0001-C01A9	MP 312 COOLING WATER COOLER SKID AND EXPANSION TANK	5	35	3	3	-2/85	5	1000	N	NI	-	Service	3	N		
2	WD	555	4001	C01A9	100478CP-N-PG-PP01-PR-PID-0045-001	01/01	DEMINERALIZED WATER	LIQUID	2"-PP01-555-WD0001-C01A9	MP 412 COOLING WATER COOLER SKID AND EXPANSION TANK	5	35	3	3	-2/85	5	1000	N	NI	-	Service	3	N		
2	WD	555	5001	C01A9	100478CP-N-PG-PP01-PR-PID-0045-001	01/01	DEMINERALIZED WATER	LIQUID	2"-PP01-555-WD0001-C01A9	MP 512 COOLING WATER COOLER SKID AND EXPANSION TANK	5	35	3	3	-2/85	5	1000	N	NI	-	Service	3	N		
2	WD	555	1002	C01A9	100478CP-N-PG-PP01-PR-PID-0045-001	01/01	DEMINERALIZED WATER	LIQUID	2"-PP01-555-WD0001-C01A9	MP 138A WASHING WATER SKID#1	5	35	3	3	-2/85	5	1000	N	NI	-	Service	3	N		
2	WD	555	2002	C01A9	100478CP-N-PG-PP01-PR-PID-0045-001	01/01	DEMINERALIZED WATER	LIQUID	2"-PP01-555-WD0001-C01A9	MP 238A WASHING WATER SKID#2	5	35	3	3	-2/85	5	1000	N	NI	-	Service	3	N		



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
2	WD	555	3002	C01A9	100478CP-N-PG-PP01-PR-PID-0045-001	01/01	DEMINERALIZED WATER	LIQUID	2"-PP01-555-WD0001-C01A9	MP 338A WASHING WATER SKID#3	5	35	3	3	-2/85	5	1000	N	NI	-	Service	3	N		
2	WW	552	1002	C01A9	100478CP-N-PG-PP01-PR-PID-0045-001	01/01	WASH WATER	LIQUID	2"-PP01-552-WW1003-C01A9	TP 173 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	5	60	7.2	8.6	100	12	1000	N	NI	-	Service	8.6	N		
2	WW	552	1003	C01A9	100478CP-N-PG-PP01-PR-PID-0045-001	01/01	WASH WATER	LIQUID	1 1/2"-PP01-552-WW1004-C01A9	TP 174 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	5	60	7.2	8.6	100	12	1000	N	NI	-	Service	8.6	N		
1 1/2	WW	552	1004	C01A9	100478CP-N-PG-PP01-PR-PID-0045-001	01/01	WASH WATER	LIQUID	TP 272 WASHING WATER SKID#1	2"-PP01-552-WW1003-C01A9	5	60	7.2	8.6	100	12	1000	N	NI	-	Service	8.6	N		
1 1/2	WW	552	2004	C01A9	100478CP-N-PG-PP01-PR-PID-0045-001	01/01	WASH WATER	LIQUID	TP 272 WASHING WATER SKID#2	2"-PP01-552-WW3003-C01A9	5	60	7.2	8.6	100	12	1000	N	NI	-	Service	8.6	N		
1 1/2	WW	552	3004	C01A9	100478CP-N-PG-PP01-PR-PID-0045-001	01/01	WASH WATER	LIQUID	TP 372 WASHING WATER SKID#3	2"-PP01-552-WW5003-C01A9	5	60	7.2	8.6	100	12	1000	N	NI	-	Service	8.6	N		
2	WW	552	2002	C01A9	100478CP-N-PG-PP01-PR-PID-0045-001	01/01	WASH WATER	LIQUID	2"-PP01-552-WW2005-C01A9	TP 274 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	5	60	7.2	8.6	100	12	1000	N	NI	-	Service	8.6	N		
2	WW	552	2003	C01A9	100478CP-N-PG-PP01-PR-PID-0045-001	01/01	WASH WATER	LIQUID	2"-PP01-552-WW2002-C01A9	TP 273 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	5	60	7.2	8.6	100	12	1000	N	NI	-	Service	8.6	N		
2	WW	552	2005	C01A9	100478CP-N-PG-PP01-PR-PID-0045-001	01/01	WASH WATER	LIQUID	1 1/2"-PP01-552-WW1004-C01A9	2"-PP01-552-WW2002-C01A9	5	60	7.2	8.6	100	12	1000	N	NI	-	Service	8.6	N		
2	WW	552	4004	C01A9	100478CP-N-PG-PP01-PR-PID-0045-001	01/01	WASH WATER	LIQUID	1 1/2"-PP01-552-WW2004-C01A9	2"-PP01-552-WW4002-C01A9	5	60	7.2	8.6	100	12	1000	N	NI	-	Service	8.6	N		
2	WW	552	3002	C01A9	100478CP-N-PG-PP01-PR-PID-0045-001	01/01	WASH WATER	LIQUID	2"-PP01-552-WW4004-C01A9	TP 373 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	5	60	7.2	8.6	100	12	1000	N	NI	-	Service	8.6	N		
2	WW	552	3003	C01A9	100478CP-N-PG-PP01-PR-PID-0045-001	01/01	WASH WATER	LIQUID	2"-PP01-552-WW4004-C01A9	TP 374 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	5	60	7.2	8.6	100	12	1000	N	NI	-	Service	8.6	N		
2	WW	552	4002	C01A9	100478CP-N-PG-PP01-PR-PID-0045-001	01/01	WASH WATER	LIQUID	2"-PP01-552-WW4004-C01A9	TP 473 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	5	60	7.2	8.6	100	12	1000	N	NI	-	Service	8.6	N		
2	WW	552	4003	C01A9	100478CP-N-PG-PP01-PR-PID-0045-001	01/01	WASH WATER	LIQUID	2"-PP01-552-WW4004-C01A9	TP 474 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	5	60	7.2	8.6	100	12	1000	N	NI	-	Service	8.6	N		
2	WW	552	5002	C01A9	100478CP-N-PG-PP01-PR-PID-0045-001	01/01	WASH WATER	LIQUID	1 1/2"-PP01-552-WW3004-C01A9	TP 573 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	5	60	7.2	8.6	100	12	1000	N	NI	-	Service	8.6	N		
2	WW	552	5003	C01A9	100478CP-N-PG-PP01-PR-PID-0045-001	01/01	WASH WATER	LIQUID	1 1/2"-PP01-552-WW3004-C01A9	TP 574 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	5	60	7.2	8.6	100	12	1000	N	NI	-	Service	8.6	N		
1 1/2	DM	511	1001	B01M6	100478CP-N-PG-PP01-PR-PID-0045-001	01/01	CHEMICAL	LIQUID	TP 151 WASHING WATER SKID#1	LOCAL SUMP	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	3.5	N		
1 1/2	DM	511	2001	B01M6	100478CP-N-PG-PP01-PR-PID-0045-001	01/01	CHEMICAL	LIQUID	TP 251 WASHING WATER SKID#2	LOCAL SUMP	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	3.5	N		
1 1/2	DM	511	3001	B01M6	100478CP-N-PG-PP01-PR-PID-0045-001	01/01	CHEMICAL	LIQUID	TP 351 WASHING WATER SKID#3	LOCAL SUMP	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	3.5	N		

GTG TRAIN-1 BATTERY LIMIT INTERFACES

2	GN	567	1011	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	3"-PP01-567-GN0009-B01H9	TP 148 FUEL GAS SKID	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	GN	567	1012	B01H9	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	NITROGEN	GAS	2"-PP01-567-GN1011-B01H9	TP 136B FUEL GAS SCRUBBER	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		



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							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
1	GN	567	1013	B01H9	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	NITROGEN	GAS	2"-PP01-567-GN1011-B01H9	TP 149 FUEL GAS SKID	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	GN	567	1014	B01H9	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	NITROGEN	GAS	2"-PP01-567-GN1011-B01H9	MP 131 FUEL GAS SKID	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	1012	C01A9	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM1011-C01A9	TP 185 GAS TURBINE COMPRESSOR	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	1013	C01A9	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM1011-C01A9	TP 136A FUEL GAS SCRUBBER AND HEATER SYSTEM	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	1014	C01A9	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM1011-C01A9	TP 164 CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS)	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1/2	AM	564	1015	C01A9	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM1011-C01A9	TP 147A FUEL GAS SKID	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	1016	C01A9	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM1011-C01A9	TP 103 ACW COOLER SKID	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	1019	C01A9	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM1011-C01A9	TP 152	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	1020	C01A9	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM1011-C01A9	TP 153	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	VO	502	1001	B01B8	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	FUEL GAS	GAS	TP 143A/144A/145A FUEL GAS SKID	TO SAFE LOCATION	-2	120	ATM	ATM	135	3.5		N	NI	-	Service	ATM	N	NNF	
1	VO	502	1002	B01B8	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	FUEL GAS	GAS	TP 143B/144B/145B FUEL GAS SKID	TO SAFE LOCATION	-2	120	ATM	ATM	135	3.5		N	NI	-	Service	ATM	N	NNF	
2	VO	502	1003	B01B8	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	FUEL GAS	GAS	TP 163 CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS)	TO SAFE LOCATION	120	150	ATM	ATM	200	3.5		N	NI	-	Service	ATM	N	NNF	
2	DM	502	1001	B01M6	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	FUEL GAS	GAS	CHEMICAL DRAIN PIT TRAIN 1	TO SAFE LOCATION	AMB	AMB	ATM	ATM	85	3.5		N	NI	-	Service	ATM	N	NNF	
10	VO	502	1007	B01B8	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	FUEL GAS	GAS	TP 113 GAS TURBINE & COMPRESSOR	TO SAFE LOCATION	-2	300	ATM	ATM	330	3.5		N	NI	-	Service	ATM	N	NNF	
10	VO	502	1008	B01B8	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	FUEL GAS	GAS	TP 105 MAIN MINERAL OIL VAPOR SEPARATOR SKID	TO SAFE LOCATION	-2	80	ATM	ATM	100	3.5		N	NI	-	Service	ATM	N	NNF	
10	VO	502	1009	B01B8	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	FUEL GAS	GAS	TP 106 STANDBY MINERAL OIL VAPOR SEPARATOR SKID	TO SAFE LOCATION	-2	80	ATM	ATM	100	3.5		N	NI	-	Service	ATM	N	NNF	
4	VO	502	1010	B01B8	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	FUEL GAS	GAS	TP 139 FUEL GAS SKID	TO SAFE LOCATION	-2	120	ATM	ATM	135	3.5		N	NI	-	Service	ATM	N	NNF	
2	VO	502	1011	B01B8	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	FUEL GAS	GAS	TP 142 FUEL GAS SKID	TO SAFE LOCATION	-2	120	ATM	ATM	135	3.5		N	NI	-	Service	ATM	N	NNF	
2	GF	364	1001	B03E9	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	FUEL GAS	GAS	TP 117D FUEL GAS HEATER SYSTEM	700-PSV1101	-2	90	23	27	135	35		30	PP	-	Water	52.5	N	NNF	
2	GF	364	1002	B03E9	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	FUEL GAS	GAS	TP 117C FUEL GAS HEATER SYSTEM	700-PSV1102	-2	90	23	27	135	35		30	PP	-	Water	52.5	N		
2	GF	364	1003	B03E9	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	FUEL GAS	GAS	TP 117A FUEL GAS SCRUBBER	700-PSV1103	-2	90	23	27	135	35		30	PP	-	Water	52.5	N		
2	GF	364	1004	B03E9	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	FUEL GAS	GAS	TP 117B FUEL GAS SCRUBBER	700-PSV1104	-2	90	23	27	135	35		30	PP	-	Water	52.5	N		



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
2	VK	500	1021	B01B8	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	FUEL GAS	GAS	TP 131 FUEL GAS SCRUBBER & HEATER SYSTEM	6"-PP01-500-VK1027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	VK	500	1022	B01B8	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	FUEL GAS	GAS	700-PSV1101	6"-PP01-500-VK1027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	VK	500	1023	B01B8	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	FUEL GAS	GAS	700-PSV1102	6"-PP01-500-VK1027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	VK	500	1024	B01B8	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	FUEL GAS	GAS	700-PSV1103	6"-PP01-500-VK1027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	VK	500	1025	B01B8	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	FUEL GAS	GAS	700-PSV1104	6"-PP01-500-VK1027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	VK	500	1026	B01B8	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	FUEL GAS	GAS	TP 140 FUEL GAS SKID	6"-PP01-500-VK1027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
6	VK	500	1027	B01B8	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	FUEL GAS	GAS	GTG TRAIN 1 HP FLARE HEADER	6"-PP01-500-VK1029-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
6	VL	501	1003	B01B8	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	FUEL GAS	GAS	GTG TRAIN 1 HP FLARE HEADER	6"-PP01-501-VL0003-B01B8	20	80	0.1	1	-20/150	10	-	N	NI	-	Air	11.0	N	NNF	
1	VL	501	1005	B01B8	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	FUEL GAS	GAS	TP 129 CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS)	6"-PP01-501-VL1003-B01B8	20	80	0.1	1	-20/150	10	-	N	NI	-	Air	11.0	N	NNF	
2	PK	512	1021	B01M8	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	PROCESS CONDENSATE	LIQUID	GTG TRAIN 1 CONDENSATE HEADER	4"-PP01-512-PK0022-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N	Two Phase	
2	PK	512	1022	B01M8	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	PROCESS CONDENSATE	LIQUID	TP 128 FUEL GAS SCRUBBER	4"-PP01-512-PK1021-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N		
1	PK	512	1023	B01M8	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	PROCESS CONDENSATE	LIQUID	TP 130 FUEL GAS SCRUBBER	4"-PP01-512-PK1022-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N		
1	PK	512	1024	B01M8	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	PROCESS CONDENSATE	LIQUID	MP 126 FUEL GAS SCRUBBER	4"-PP01-512-PK1023-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N		
1	PK	512	1025	B01M8	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	PROCESS CONDENSATE	LIQUID	MP 125 FUEL GAS SCRUBBER	4"-PP01-512-PK1023-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N		
1	PK	512	1026	C01A9	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	PROCESS CONDENSATE	LIQUID	MP 127 FUEL GAS SCRUBBER	4"-PP01-512-PK1021-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N		
1	PK	512	1027	C01A9	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	PROCESS CONDENSATE	LIQUID	MP 132 FUEL GAS SCRUBBER	4"-PP01-512-PK1021-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N		
1	DM	511	1002	B01M6	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	CHEMICAL	LIQUID	MP 114 EXPANSION TANK	GTG TRAIN 1 CHEMICAL DRAIN PIT	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
2	DM	511	1004	B01M6	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	CHEMICAL	LIQUID	CHEMICAL DRAIN PIT TRAIN 1	PUMP-OUT CONNECTION	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1 1/2	DM	511	1005	B01M6	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	CHEMICAL	LIQUID	MP 101 OIL TANK IN ACCESSORY BASE	2"-PP01-511-DM1006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
2	DM	511	1006	B01M6	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	CHEMICAL	LIQUID	HEADER	CHEMICAL DRAIN PIT TRAIN 1	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1 1/2	DM	511	1007	B01M6	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	CHEMICAL	LIQUID	MP 134 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM1006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1	DM	511	1008	B01M6	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	CHEMICAL	LIQUID	TP 104 EXPANSION TANK	2"-PP01-511-DM1006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION		DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION		
							MEDIUM	PHASE			TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.		FROM	TO	Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N				
1 1/2	DM	511	1009	B01M6	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	CHEMICAL	LIQUID	MP 103 OIL TANK IN ACCESSORY BASE	2"-PP01-511-DM1006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1	DM	511	1010	B01M6	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	CHEMICAL	LIQUID	MP 133 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM1006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1	DM	511	1011	B01M6	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	CHEMICAL	LIQUID	MP 137 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM1006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1	WW	552	1006	C01A9	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	CHEMICAL	LIQUID	MP 135 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM1006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1	WW	552	1007	C01A9	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	CHEMICAL	LIQUID	MP 136 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM1006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1	DM	511	1014	B01M6	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	CHEMICAL	LIQUID	TP 150 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM1006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
2	OL	541	1001	C01A9	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	LUBE OIL	LIQUID	MP 102 OIL TANK IN ACCESSORY BASE	TANKER	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
-	-	700	TG001-TX0001	B01M6	100478CP-N-PG-PP01-PR-PID-0040-001	01/01	-	-	-	-	AMB	AMB	ATM	ATM	55	ATM	820-1000	N	NI	-	Water	AMB	N	TRIM	

GTG TRAIN-2 BATTERY LIMIT INTERFACES

2	GN	567	2011	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	3"-PP01-567-GN0009-B01H9	TP 248 FUEL GAS SKID	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N	
1	GN	567	2012	B01H9	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	NITROGEN	GAS	2"-PP01-567-GN2011-B01H9	TP 236B FUEL GAS SCRUBBER	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N	
1	GN	567	2013	B01H9	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	NITROGEN	GAS	2"-PP01-567-GN2011-B01H9	TP 249 FUEL GAS SKID	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N	
1	GN	567	2014	B01H9	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	NITROGEN	GAS	2"-PP01-567-GN2011-B01H9	MP 231 FUEL GAS SKID	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N	
1	AM	564	2012	C01A9	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM2011-C01A9	TP 285 GAS TURBINE COMPRESSOR	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N	
1	AM	564	2013	C01A9	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM2011-C01A9	TP 236A FUEL GAS SCRUBBER AND HEATER SYSTEM	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N	
1	AM	564	2014	C01A9	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM2011-C01A9	TP 264 CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS)	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N	
1/2	AM	564	2015	C01A9	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM2011-C01A9	TP 247A FUEL GAS SKID	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N	
1	AM	564	2016	C01A9	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM2011-C01A9	TP 203 ACW COOLER SKID	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N	
1	AM	564	2019	C01A9	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM2011-C01A9	TP 252	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N	
1	AM	564	2020	C01A9	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM2011-C01A9	TP 253	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N	
1	VO	502	2001	B01B8	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	FUEL GAS	GAS	TP 243A/244A/245A FUEL GAS SKID	TO SAFE LOCATION	-2	120	ATM	ATM	135	3.5		N	NI	-	Service	ATM	N	NNF
1	VO	502	2002	B01B8	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	FUEL GAS	GAS	TP 243B/244B/245B FUEL GAS SKID	TO SAFE LOCATION	-2	120	ATM	ATM	135	3.5		N	NI	-	Service	ATM	N	NNF



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION		DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION		
							MEDIUM	PHASE			TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.		FROM	TO	Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N				
2	VO	502	2003	B01B8	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	FUEL GAS	GAS	TP 263 CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS)	TO SAFE LOCATION	120	150	ATM	ATM	200	3.5		N	NI	-	Service	ATM	N	NNF	
2	DM	502	2001	B01M6	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	FUEL GAS	GAS	CHEMICAL DRAIN PIT TRAIN 2	TO SAFE LOCATION	AMB	AMB	ATM	ATM	85	3.5		N	NI	-	Service	ATM	N	NNF	
10	VO	502	2007	B01B8	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	FUEL GAS	GAS	TP 213 GAS TURBINE & COMPRESSOR	TO SAFE LOCATION	-2	300	ATM	ATM	330	3.5		N	NI	-	Service	ATM	N	NNF	
10	VO	502	2008	B01B8	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	FUEL GAS	GAS	TP 205 MAIN MINERAL OIL VAPOR SEPARATOR SKID	TO SAFE LOCATION	-2	80	ATM	ATM	100	3.5		N	NI	-	Service	ATM	N	NNF	
10	VO	502	2009	B01B8	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	FUEL GAS	GAS	TP 206 STANDBY MINERAL OIL VAPOR SEPARATOR SKID	TO SAFE LOCATION	-2	80	ATM	ATM	100	3.5		N	NI	-	Service	ATM	N	NNF	
4	VO	502	2010	B01B8	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	FUEL GAS	GAS	TP 239 FUEL GAS SKID	TO SAFE LOCATION	-2	120	ATM	ATM	135	3.5		N	NI	-	Service	ATM	N	NNF	
2	VO	502	2011	B01B8	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	FUEL GAS	GAS	TP 242 FUEL GAS SKID	TO SAFE LOCATION	-2	120	ATM	ATM	135	3.5		N	NI	-	Service	ATM	N	NNF	
2	GF	364	2001	B03E9	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	FUEL GAS	GAS	TP 217D FUEL GAS HEATER SYSTEM	700-PSV2101	-2	90	23	27	135	35		30	PP	-	Water	52.5	N	NNF	
2	GF	364	2002	B03E9	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	FUEL GAS	GAS	TP 217C FUEL GAS HEATER SYSTEM	700-PSV2102	-2	90	23	27	135	35		30	PP	-	Water	52.5	N		
2	GF	364	2003	B03E9	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	FUEL GAS	GAS	TP 217A FUEL GAS SCRUBBER	700-PSV2103	-2	90	23	27	135	35		30	PP	-	Water	52.5	N		
2	GF	364	2004	B03E9	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	FUEL GAS	GAS	TP 217B FUEL GAS SCRUBBER	700-PSV2104	-2	90	23	27	135	35		30	PP	-	Water	52.5	N		
2	VK	500	2021	B01B8	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	FUEL GAS	GAS	TP 231 FUEL GAS SCRUBBER & HEATER SYSTEM	6"-PP01-500-VK2027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	VK	500	2022	B01B8	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	FUEL GAS	GAS	700-PSV2101	6"-PP01-500-VK2027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	VK	500	2023	B01B8	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	FUEL GAS	GAS	700-PSV2102	6"-PP01-500-VK2027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	VK	500	2024	B01B8	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	FUEL GAS	GAS	700-PSV2103	6"-PP01-500-VK2027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	VK	500	2025	B01B8	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	FUEL GAS	GAS	700-PSV2104	6"-PP01-500-VK2027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	VK	500	2026	B01B8	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	FUEL GAS	GAS	TP 240 FUEL GAS SKID	6"-PP01-500-VK2027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
6	VK	500	2027	B01B8	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	FUEL GAS	GAS	GTG TRAIN 2 HP FLARE HEADER	6"-PP01-500-VK2029-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
6	VL	501	2003	B01B8	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	FUEL GAS	GAS	GTG TRAIN 2 HP FLARE HEADER	6"-PP01-501-VL0003-B01B8	20	80	0.1	1	-20/150	10	-	N	NI	-	Air	11.0	N	NNF	
1	VL	501	2005	B01B8	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	FUEL GAS	GAS	TP 229 CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS)	6"-PP01-501-VL2003-B01B8	20	80	0.1	1	-20/150	10	-	N	NI	-	Air	11.0	N	NNF	
2	PK	512	2021	B01M8	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	PROCESS CONDENSATE	LIQUID	GTG TRAIN 2 CONDENSATE HEADER	4"-PP01-512-PK0022-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N	Two Phase	
2	PK	512	2022	B01M8	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	PROCESS CONDENSATE	LIQUID	TP 228 FUEL GAS SCRUBBER	4"-PP01-512-PK2021-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N		



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							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
1	PK	512	2023	B01M8	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	PROCESS CONDENSATE	LIQUID	TP 230 FUEL GAS SCRUBBER	4"-PP01-512-PK2022-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N		
1	PK	512	2024	B01M8	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	PROCESS CONDENSATE	LIQUID	MP 226 FUEL GAS SCRUBBER	4"-PP01-512-PK2023-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N		
1	PK	512	2025	B01M8	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	PROCESS CONDENSATE	LIQUID	MP 225 FUEL GAS SCRUBBER	4"-PP01-512-PK2023-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N		
1	PK	512	2026	C01A9	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	PROCESS CONDENSATE	LIQUID	MP 227 FUEL GAS SCRUBBER	4"-PP01-512-PK2021-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N		
1	PK	512	2027	C01A9	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	PROCESS CONDENSATE	LIQUID	MP 232 FUEL GAS SCRUBBER	4"-PP01-512-PK2021-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N		
1	DM	511	2002	B01M6	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	CHEMICAL	LIQUID	MP 214 EXPANSION TANK	GTG TRAIN 2 CHEMICAL DRAIN PIT	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
2	DM	511	2004	B01M6	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	CHEMICAL	LIQUID	CHEMICAL DRAIN PIT TRAIN 2	PUMP-OUT CONNECTION	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1 1/2	DM	511	2005	B01M6	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	CHEMICAL	LIQUID	MP 201 OIL TANK IN ACCESSORY BASE	2"-PP01-511-DM2006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
2	DM	511	2006	B01M6	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	CHEMICAL	LIQUID	HEADER	CHEMICAL DRAIN PIT TRAIN 2	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1 1/2	DM	511	2007	B01M6	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	CHEMICAL	LIQUID	MP 234 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM2006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1	DM	511	2008	B01M6	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	CHEMICAL	LIQUID	TP 204 EXPANSION TANK	2"-PP01-511-DM2006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1 1/2	DM	511	2009	B01M6	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	CHEMICAL	LIQUID	MP 203 OIL TANK IN ACCESSORY BASE	2"-PP01-511-DM2006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1	DM	511	2010	B01M6	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	CHEMICAL	LIQUID	MP 233 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM2006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1	DM	511	2011	B01M6	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	CHEMICAL	LIQUID	MP 237 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM2006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1	WW	552	2006	C01A9	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	CHEMICAL	LIQUID	OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM2006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1	WW	552	2007	C01A9	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	CHEMICAL	LIQUID	MP 236 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM2006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1	DM	511	2014	B01M6	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	CHEMICAL	LIQUID	TP 250 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM2006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
2	OL	541	2001	C01A9	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	LUBE OIL	LIQUID	MP 202 OIL TANK IN ACCESSORY BASE	TANKER	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
-	-	700	TG002-TX001	B01M6	100478CP-N-PG-PP01-PR-PID-0041-001	01/01	-	-	-	-	AMB	AMB	ATM	ATM	55	ATM	820~1000	N	NI	-	Water	AMB	N	TRIM	

GTG TRAIN-3 BATTERY LIMIT INTERFACES

2	GN	567	3011	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	3"-PP01-567-GN0009-B01H9	TP 348 FUEL GAS SKID	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	GN	567	3012	B01H9	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	NITROGEN	GAS	2"-PP01-567-GN3011-B01H9	TP 336B FUEL GAS SCRUBBER	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
1	GN	567	3013	B01H9	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	NITROGEN	GAS	2"-PP01-567-GN3011-B01H9	TP 349 FUEL GAS SKID	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	GN	567	3014	B01H9	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	NITROGEN	GAS	2"-PP01-567-GN3011-B01H9	MP 331 FUEL GAS SKID	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	3012	C01A9	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM3011-C01A9	TP 385 GAS TURBINE COMPRESSOR	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	3013	C01A9	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM3011-C01A9	TP 336A FUEL GAS SCRUBBER AND HEATER SYSTEM	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	3014	C01A9	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM3011-C01A9	TP 364 CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS)	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1/2	AM	564	3015	C01A9	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM3011-C01A9	TP 347A FUEL GAS SKID	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	3016	C01A9	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM3011-C01A9	TP 303 ACW COOLER SKID	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	3019	C01A9	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM3011-C01A9	TP 352	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	3020	C01A9	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM3011-C01A9	TP 353	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	VO	502	3001	B01B8	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	FUEL GAS	GAS	TP 343A/344A/345A FUEL GAS SKID	TO SAFE LOCATION	-2	120	ATM	ATM	135	3.5		N	NI	-	Service	ATM	N	NNF	
1	VO	502	3002	B01B8	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	FUEL GAS	GAS	TP 343B/344B/345B FUEL GAS SKID	TO SAFE LOCATION	-2	120	ATM	ATM	135	3.5		N	NI	-	Service	ATM	N	NNF	
2	VO	502	3003	B01B8	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	FUEL GAS	GAS	TP 363 CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS)	TO SAFE LOCATION	120	150	ATM	ATM	200	3.5		N	NI	-	Service	ATM	N	NNF	
2	DM	502	3001	B01M6	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	FUEL GAS	GAS	CHEMICAL DRAIN PIT TRAIN 3	TO SAFE LOCATION	AMB	AMB	ATM	ATM	85	3.5		N	NI	-	Service	ATM	N	NNF	
10	VO	502	3007	B01B8	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	FUEL GAS	GAS	TP 313 GAS TURBINE & COMPRESSOR	TO SAFE LOCATION	-2	300	ATM	ATM	330	3.5		N	NI	-	Service	ATM	N	NNF	
10	VO	502	3008	B01B8	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	FUEL GAS	GAS	TP 305 MAIN MINERAL OIL VAPOR SEPARATOR SKID	TO SAFE LOCATION	-2	80	ATM	ATM	100	3.5		N	NI	-	Service	ATM	N	NNF	
10	VO	502	3009	B01B8	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	FUEL GAS	GAS	TP 306 STANDBY MINERAL OIL VAPOR SEPARATOR SKID	TO SAFE LOCATION	-2	80	ATM	ATM	100	3.5		N	NI	-	Service	ATM	N	NNF	
4	VO	502	3010	B01B8	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	FUEL GAS	GAS	TP 339 FUEL GAS SKID	TO SAFE LOCATION	-2	120	ATM	ATM	135	3.5		N	NI	-	Service	ATM	N	NNF	
2	VO	502	3011	B01B8	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	FUEL GAS	GAS	TP 342 FUEL GAS SKID	TO SAFE LOCATION	-2	120	ATM	ATM	135	3.5		N	NI	-	Service	ATM	N	NNF	
2	GF	364	3001	B03E9	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	FUEL GAS	GAS	TP 317D FUEL GAS HEATER SYSTEM	700-PSV3101	-2	90	23	27	135	35		30	PP	-	Water	52.5	N	NNF	
2	GF	364	3002	B03E9	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	FUEL GAS	GAS	TP 317C FUEL GAS HEATER SYSTEM	700-PSV3102	-2	90	23	27	135	35		30	PP	-	Water	52.5	N		
2	GF	364	3003	B03E9	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	FUEL GAS	GAS	TP 317A FUEL GAS SCRUBBER	700-PSV3103	-2	90	23	27	135	35		30	PP	-	Water	52.5	N		
2	GF	364	3004	B03E9	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	FUEL GAS	GAS	TP 317B FUEL GAS SCRUBBER	700-PSV3104	-2	90	23	27	135	35		30	PP	-	Water	52.5	N		



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING				OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE			FROM		TO		TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.	
					NO.	SHT.			FROM	TO	Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type		Barg	Y/N				
2	VK	500	3021	B01B8	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	FUEL GAS	GAS	TP 331 FUEL GAS SCRUBBER & HEATER SYSTEM	6"-PP01-500-VK3027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF			
2	VK	500	3022	B01B8	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	FUEL GAS	GAS	700-PSV3101	6"-PP01-500-VK3027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF			
2	VK	500	3023	B01B8	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	FUEL GAS	GAS	700-PSV3102	6"-PP01-500-VK3027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF			
2	VK	500	3024	B01B8	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	FUEL GAS	GAS	700-PSV3103	6"-PP01-500-VK3027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF			
2	VK	500	3025	B01B8	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	FUEL GAS	GAS	700-PSV3104	6"-PP01-500-VK3027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF			
2	VK	500	3026	B01B8	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	FUEL GAS	GAS	TP 340 FUEL GAS SKID	6"-PP01-500-VK3027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF			
6	VK	500	3027	B01B8	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	FUEL GAS	GAS	GTG TRAIN 3 HP FLARE HEADER	6"-PP01-500-VK3029-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF			
6	VL	501	3003	B01B8	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	FUEL GAS	GAS	GTG TRAIN 3 HP FLARE HEADER	6"-PP01-501-VL0003-B01B8	20	80	0.1	1	-20/150	10	-	N	NI	-	Air	11.0	N	NNF			
1	VL	501	3005	B01B8	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	FUEL GAS	GAS	TP 329 CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS)	6"-PP01-501-VL3003-B01B8	20	80	0.1	1	-20/150	10	-	N	NI	-	Air	11.0	N	NNF			
2	PK	512	3021	B01M8	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	PROCESS CONDENSATE	Liquid	GTG TRAIN 3 CONDENSATE HEADER	4"-PP01-512-PK0022-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N	Two Phase			
2	PK	512	3022	B01M8	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	PROCESS CONDENSATE	Liquid	TP 328 FUEL GAS SCRUBBER	4"-PP01-512-PK3021-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N				
1	PK	512	3023	B01M8	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	PROCESS CONDENSATE	Liquid	TP 330 FUEL GAS SCRUBBER	4"-PP01-512-PK3022-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N				
1	PK	512	3024	B01M8	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	PROCESS CONDENSATE	Liquid	MP 326 FUEL GAS SCRUBBER	4"-PP01-512-PK3023-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N				
1	PK	512	3025	B01M8	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	PROCESS CONDENSATE	Liquid	MP 325 FUEL GAS SCRUBBER	4"-PP01-512-PK3023-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N				
1	PK	512	3026	C01A9	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	PROCESS CONDENSATE	Liquid	MP 327 FUEL GAS SCRUBBER	4"-PP01-512-PK3021-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N				
1	PK	512	3027	C01A9	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	PROCESS CONDENSATE	Liquid	MP 332 FUEL GAS SCRUBBER	4"-PP01-512-PK3021-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N				
1	DM	511	3002	B01M6	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	CHEMICAL	Liquid	MP 314 EXPANSION TANK	GTG TRAIN 3 CHEMICAL DRAIN PIT	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N				
2	DM	511	3004	B01M6	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	CHEMICAL	Liquid	CHEMICAL DRAIN PIT TRAIN 3	PUMP-OUT CONNECTION	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N				
1 1/2	DM	511	3005	B01M6	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	CHEMICAL	Liquid	MP 301 OIL TANK IN ACCESSORY BASE	2"-PP01-511-DM3006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N				
2	DM	511	3006	B01M6	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	CHEMICAL	Liquid	HEADER	CHEMICAL DRAIN PIT TRAIN 3	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N				
1 1/2	DM	511	3007	B01M6	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	CHEMICAL	Liquid	MP 334 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM3006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N				
1	DM	511	3008	B01M6	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	CHEMICAL	Liquid	TP 304 EXPANSION TANK	2"-PP01-511-DM3006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N				



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION		DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION		
							MEDIUM	PHASE			TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.		FROM	TO	Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N				
1 1/2	DM	511	3009	B01M6	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	CHEMICAL	LIQUID	MP 303 OIL TANK IN ACCESSORY BASE	2"-PP01-511-DM3006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1	DM	511	3010	B01M6	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	CHEMICAL	LIQUID	MP 333 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM3006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1	DM	511	3011	B01M6	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	CHEMICAL	LIQUID	MP 337 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM3006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1	WW	552	3006	C01A9	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	CHEMICAL	LIQUID	MP 335 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM3006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1	WW	552	3007	C01A9	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	CHEMICAL	LIQUID	MP 336 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM3006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1	DM	511	3014	B01M6	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	CHEMICAL	LIQUID	TP 350 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM3006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
2	OL	541	3001	C01A9	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	LUBE OIL	LIQUID	MP 302 OIL TANK IN ACCESSORY BASE	TANKER	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
-	-	700	TG003-TX0001	B01M6	100478CP-N-PG-PP01-PR-PID-0042-001	01/01	-	-	-	-	AMB	AMB	ATM	ATM	55	ATM	820-1000	N	NI	-	Water	AMB	N	TRIM	

GTG TRAIN-4 BATTERY LIMIT INTERFACES

2	GN	567	4011	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	3"-PP01-567-GN0009-B01H9	TP 448 FUEL GAS SKID	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N	
1	GN	567	4012	B01H9	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	NITROGEN	GAS	2"-PP01-567-GN4011-B01H9	TP 436B FUEL GAS SCRUBBER	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N	
1	GN	567	4013	B01H9	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	NITROGEN	GAS	2"-PP01-567-GN4011-B01H9	TP 449 FUEL GAS SKID	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N	
1	GN	567	4014	B01H9	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	NITROGEN	GAS	2"-PP01-567-GN4011-B01H9	MP 431 FUEL GAS SKID	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N	
1	AM	564	4012	C01A9	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM4011-C01A9	TP 485 GAS TURBINE COMPRESSOR	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N	
1	AM	564	4013	C01A9	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM4011-C01A9	TP 436A FUEL GAS SCRUBBER AND HEATER SYSTEM	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N	
1	AM	564	4014	C01A9	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM4011-C01A9	TP 464 CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS)	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N	
1/2	AM	564	4015	C01A9	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM4011-C01A9	TP 447A FUEL GAS SKID	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N	
1	AM	564	4016	C01A9	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM4011-C01A9	TP 403 ACW COOLER SKID	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N	
1	AM	564	4019	C01A9	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM4011-C01A9	TP 452	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N	
1	AM	564	4020	C01A9	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM4011-C01A9	TP 453	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N	
1	VO	502	4001	B01B8	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	FUEL GAS	GAS	TP 443A/444A/445A FUEL GAS SKID	TO SAFE LOCATION	-2	120	ATM	ATM	135	3.5		N	NI	-	Service	ATM	N	NNF
1	VO	502	4002	B01B8	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	FUEL GAS	GAS	TP 443B/444B/445B FUEL GAS SKID	TO SAFE LOCATION	-2	120	ATM	ATM	135	3.5		N	NI	-	Service	ATM	N	NNF

CLASS		B		EARLY POWER PLANT PROJECT RUMAILA OIL FIELD, IRAQ CONTRACT NO.: 100478																					
				LINE LIST																					
				DOCUMENT NO.:100478CP-N-PG-PP01-PR-LST-0001-D04																			PAGE 43 OF 57		
SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION &TRACING			TESTING		REMARKS	REVISION	
							MEDIUM	PHASE			TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.			FROM	TO	Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type		Barg	Y/N		
2	VO	502	4003	B01B8	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	FUEL GAS	GAS	TP 463 CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS)	TO SAFE LOCATION	120	150	ATM	ATM	200	3.5		N	NI	-	Service	ATM	N	NNF	
2	DM	502	4001	B01M6	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	FUEL GAS	GAS	CHEMICAL DRAIN PIT TRAIN 4	TO SAFE LOCATION	AMB	AMB	ATM	ATM	85	3.5		N	NI	-	Service	ATM	N	NNF	
10	VO	502	4007	B01B8	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	FUEL GAS	GAS	TP 413 GAS TURBINE & COMPRESSOR	TO SAFE LOCATION	-2	300	ATM	ATM	330	3.5		N	NI	-	Service	ATM	N	NNF	
10	VO	502	4008	B01B8	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	FUEL GAS	GAS	TP 405 MAIN MINERAL OIL VAPOR SEPARATOR SKID	TO SAFE LOCATION	-2	80	ATM	ATM	100	3.5		N	NI	-	Service	ATM	N	NNF	
10	VO	502	4009	B01B8	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	FUEL GAS	GAS	TP 406 STANDBY MINERAL OIL VAPOR SEPARATOR SKID	TO SAFE LOCATION	-2	80	ATM	ATM	100	3.5		N	NI	-	Service	ATM	N	NNF	
4	VO	502	4010	B01B8	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	FUEL GAS	GAS	TP 439 FUEL GAS SKID	TO SAFE LOCATION	-2	120	ATM	ATM	135	3.5		N	NI	-	Service	ATM	N	NNF	
2	VO	502	4011	B01B8	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	FUEL GAS	GAS	TP 442 FUEL GAS SKID	TO SAFE LOCATION	-2	120	ATM	ATM	135	3.5		N	NI	-	Service	ATM	N	NNF	
2	GF	364	4001	B03E9	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	FUEL GAS	GAS	TP 417D FUEL GAS HEATER SYSTEM	700-PSV4101	-2	90	23	27	135	35		30	PP	-	Water	52.5	N	NNF	
2	GF	364	4002	B03E9	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	FUEL GAS	GAS	TP 417C FUEL GAS HEATER SYSTEM	700-PSV4102	-2	90	23	27	135	35		30	PP	-	Water	52.5	N		
2	GF	364	4003	B03E9	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	FUEL GAS	GAS	TP 417A FUEL GAS SCRUBBER	700-PSV4103	-2	90	23	27	135	35		30	PP	-	Water	52.5	N		
2	GF	364	4004	B03E9	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	FUEL GAS	GAS	TP 417B FUEL GAS SCRUBBER	700-PSV4104	-2	90	23	27	135	35		30	PP	-	Water	52.5	N		
2	VK	500	4021	B01B8	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	FUEL GAS	GAS	TP 431 FUEL GAS SCRUBBER & HEATER SYSTEM	6"-PP01-500-VK4027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	VK	500	4022	B01B8	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	FUEL GAS	GAS	700-PSV4101	6"-PP01-500-VK4027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	VK	500	4023	B01B8	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	FUEL GAS	GAS	700-PSV4102	6"-PP01-500-VK4027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	VK	500	4024	B01B8	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	FUEL GAS	GAS	700-PSV4103	6"-PP01-500-VK4027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	VK	500	4025	B01B8	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	FUEL GAS	GAS	700-PSV4104	6"-PP01-500-VK4027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
2	VK	500	4026	B01B8	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	FUEL GAS	GAS	TP 440 FUEL GAS SKID	6"-PP01-500-VK4027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
6	VK	500	4027	B01B8	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	FUEL GAS	GAS	GTG TRAIN 4 HP FLARE HEADER	6"-PP01-500-VK4029-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF	
6	VL	501	4003	B01B8	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	FUEL GAS	GAS	GTG TRAIN 4 HP FLARE HEADER	6"-PP01-501-VL0003-B01B8	20	80	0.1	1	-20/150	10	-	N	NI	-	Air	11.0	N	NNF	
1	VL	501	4005	B01B8	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	FUEL GAS	GAS	TP 429 CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS)	6"-PP01-501-VL4003-B01B8	20	80	0.1	1	-20/150	10	-	N	NI	-	Air	11.0	N	NNF	
2	PK	512	4021	B01M8	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	PROCESS CONDENSATE	LIQUID	GTG TRAIN 4 CONDENSATE HEADER	4"-PP01-512-PK0022-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N	Two Phase	
2	PK	512	4022	B01M8	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	PROCESS CONDENSATE	LIQUID	TP 428 FUEL GAS SCRUBBER	4"-PP01-512-PK4021-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N		

**EARLY POWER PLANT PROJECT
RUMAILA OIL FIELD, IRAQ
CONTRACT NO.: 100478**



LINE LIST

DOCUMENT NO.:100478CP-N-PG-PP01-PR-LST-0001-D04

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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
1	PK	512	4023	B01M8	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	PROCESS CONDENSATE	LIQUID	TP 430 FUEL GAS SCRUBBER	4"-PP01-512-PK4022-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N		
1	PK	512	4024	B01M8	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	PROCESS CONDENSATE	LIQUID	MP 426 FUEL GAS SCRUBBER	4"-PP01-512-PK4023-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N		
1	PK	512	4025	B01M8	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	PROCESS CONDENSATE	LIQUID	MP 425 FUEL GAS SCRUBBER	4"-PP01-512-PK4023-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N		
1	PK	512	4026	C01A9	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	PROCESS CONDENSATE	LIQUID	MP 427 FUEL GAS SCRUBBER	4"-PP01-512-PK4021-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N		
1	PK	512	4027	C01A9	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	PROCESS CONDENSATE	LIQUID	MP 432 FUEL GAS SCRUBBER	4"-PP01-512-PK4021-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N		
1	DM	511	4002	B01M6	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	CHEMICAL	LIQUID	MP 414 EXPANSION TANK	GTG TRAIN 4 CHEMICAL DRAIN PIT	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
2	DM	511	4004	B01M6	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	CHEMICAL	LIQUID	CHEMICAL DRAIN PIT TRAIN 4	PUMP-OUT CONNECTION	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1 1/2	DM	511	4005	B01M6	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	CHEMICAL	LIQUID	MP 401 OIL TANK IN ACCESSORY BASE	2"-PP01-511-DM4006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
2	DM	511	4006	B01M6	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	CHEMICAL	LIQUID	HEADER	CHEMICAL DRAIN PIT TRAIN 4	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1 1/2	DM	511	4007	B01M6	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	CHEMICAL	LIQUID	MP 434 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM4006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1	DM	511	4008	B01M6	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	CHEMICAL	LIQUID	TP 404 EXPANSION TANK	2"-PP01-511-DM4006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1 1/2	DM	511	4009	B01M6	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	CHEMICAL	LIQUID	MP 403 OIL TANK IN ACCESSORY BASE	2"-PP01-511-DM4006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1	DM	511	4010	B01M6	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	CHEMICAL	LIQUID	MP 433 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM4006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1	DM	511	4011	B01M6	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	CHEMICAL	LIQUID	MP 437 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM4006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1	WW	552	4006	C01A9	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	CHEMICAL	LIQUID	OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM4006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1	WW	552	4007	C01A9	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	CHEMICAL	LIQUID	MP 436 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM4006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
1	DM	511	4014	B01M6	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	CHEMICAL	LIQUID	TP 450 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM4006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
2	OL	541	4001	C01A9	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	LUBE OIL	LIQUID	MP 402 OIL TANK IN ACCESSORY BASE	TANKER	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N		
-	-	700	TG004-TX001	B01M6	100478CP-N-PG-PP01-PR-PID-0043-001	01/01	-	-	-	-	AMB	AMB	ATM	ATM	55	ATM	820~1000	N	NI	-	Water	AMB	N	TRIM	

GTG TRAIN-5 BATTERY LIMIT INTERFACES

2	GN	567	5011	B01H9	100478CP-N-PG-PP01-PR-PID-0035-001	01/01	NITROGEN	GAS	3"-PP01-567-GN0009-B01H9	TP 548 FUEL GAS SKID	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	GN	567	5012	B01H9	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	NITROGEN	GAS	2"-PP01-567-GN5011-B01H9	TP 536B FUEL GAS SCRUBBER	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		



**EARLY POWER PLANT PROJECT
RUMAILA OIL FIELD, IRAQ
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LINE LIST

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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
1	GN	567	5013	B01H9	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	NITROGEN	GAS	2"-PP01-567-GN5011-B01H9	TP 549 FUEL GAS SKID	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	GN	567	5014	B01H9	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	NITROGEN	GAS	2"-PP01-567-GN5011-B01H9	MP 531 FUEL GAS SKID	12	63	6.5	8.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	5012	C01A9	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM5011-C01A9	TP 585 GAS TURBINE COMPRESSOR	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	5013	C01A9	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM5011-C01A9	TP 536A FUEL GAS SCRUBBER AND HEATER SYSTEM	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	5014	C01A9	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM5011-C01A9	TP 564 CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS)	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1/2	AM	564	5015	C01A9	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM5011-C01A9	TP 547A FUEL GAS SKID	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	5016	C01A9	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM5011-C01A9	TP 503 ACW COOLER SKID	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	5019	C01A9	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM5011-C01A9	TP 552	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	AM	564	5020	C01A9	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	INSTRUMENT AIR	GAS	2"-PP01-564-AM5011-C01A9	TP 553	12	63	8.5	9.4	-2/85	12	-	N	NI	-	Air	13.2	N		
1	VO	502	5001	B01B8	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	FUEL GAS	GAS	TP 543A/544A/545A FUEL GAS SKID	TO SAFE LOCATION	-2	120	ATM	ATM	135	3.5		N	NI	-	Service	ATM	N	NNF	
1	VO	502	5002	B01B8	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	FUEL GAS	GAS	TP 543B/544B/545B FUEL GAS SKID	TO SAFE LOCATION	-2	120	ATM	ATM	135	3.5		N	NI	-	Service	ATM	N	NNF	
2	VO	502	5003	B01B8	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	FUEL GAS	GAS	TP 563 CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS)	TO SAFE LOCATION	120	150	ATM	ATM	200	3.5		N	NI	-	Service	ATM	N	NNF	
2	DM	502	5001	B01M6	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	FUEL GAS	GAS	CHEMICAL DRAIN PIT TRAIN 5	TO SAFE LOCATION	AMB	AMB	ATM	ATM	85	3.5		N	NI	-	Service	ATM	N	NNF	
10	VO	502	5007	B01B8	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	FUEL GAS	GAS	TP 513 GAS TURBINE & COMPRESSOR	TO SAFE LOCATION	-2	300	ATM	ATM	330	3.5		N	NI	-	Service	ATM	N	NNF	
10	VO	502	5008	B01B8	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	FUEL GAS	GAS	TP 505 MAIN MINERAL OIL VAPOR SEPARATOR SKID	TO SAFE LOCATION	-2	80	ATM	ATM	100	3.5		N	NI	-	Service	ATM	N	NNF	
10	VO	502	5009	B01B8	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	FUEL GAS	GAS	TP 506 STANDBY MINERAL OIL VAPOR SEPARATOR SKID	TO SAFE LOCATION	-2	80	ATM	ATM	100	3.5		N	NI	-	Service	ATM	N	NNF	
4	VO	502	5010	B01B8	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	FUEL GAS	GAS	TP 539 FUEL GAS SKID	TO SAFE LOCATION	-2	120	ATM	ATM	135	3.5		N	NI	-	Service	ATM	N	NNF	
2	VO	502	5011	B01B8	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	FUEL GAS	GAS	TP 542 FUEL GAS SKID	TO SAFE LOCATION	-2	120	ATM	ATM	135	3.5		N	NI	-	Service	ATM	N	NNF	
2	GF	364	5001	B03E9	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	FUEL GAS	GAS	TP 517D FUEL GAS HEATER SYSTEM	700-PSV5101	-2	90	23	27	135	35		30	PP	-	Water	52.5	N	NNF	
2	GF	364	5002	B03E9	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	FUEL GAS	GAS	TP 517C FUEL GAS HEATER SYSTEM	700-PSV5102	-2	90	23	27	135	35		30	PP	-	Water	52.5	N		
2	GF	364	5003	B03E9	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	FUEL GAS	GAS	TP 517A FUEL GAS SCRUBBER	700-PSV5103	-2	90	23	27	135	35		30	PP	-	Water	52.5	N		
2	GF	364	5004	B03E9	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	FUEL GAS	GAS	TP 517B FUEL GAS SCRUBBER	700-PSV5104	-2	90	23	27	135	35		30	PP	-	Water	52.5	N		

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CLASS		B		DOCUMENT NO.:100478CP-N-PG-PP01-PR-LST-0001-D04																							
SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING				OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE			FROM		TO		TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.	
					NO.	SHT.			FROM	TO	Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type		Barg	Y/N				
2	VK	500	5021	B01B8	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	FUEL GAS	GAS	TP 531 FUEL GAS SCRUBBER & HEATER SYSTEM	6"-PP01-500-VK5027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF			
2	VK	500	5022	B01B8	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	FUEL GAS	GAS	700-PSV5101	6"-PP01-500-VK5027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF			
2	VK	500	5023	B01B8	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	FUEL GAS	GAS	700-PSV5102	6"-PP01-500-VK5027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF			
2	VK	500	5024	B01B8	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	FUEL GAS	GAS	700-PSV5103	6"-PP01-500-VK5027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF			
2	VK	500	5025	B01B8	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	FUEL GAS	GAS	700-PSV5104	6"-PP01-500-VK5027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF			
2	VK	500	5026	B01B8	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	FUEL GAS	GAS	TP 540 FUEL GAS SKID	6"-PP01-500-VK5027-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF			
6	VK	500	5027	B01B8	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	FUEL GAS	GAS	GTG TRAIN 5 HP FLARE HEADER	6"-PP01-500-VK5029-B01B8	-2	120	0.1	3.6	-29/200	10	-	N	NI	-	Air	11.0	N	NNF			
6	VL	501	5003	B01B8	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	FUEL GAS	GAS	GTG TRAIN 5 HP FLARE HEADER	6"-PP01-501-VL0003-B01B8	20	80	0.1	1	-20/150	10	-	N	NI	-	Air	11.0	N	NNF			
1	VL	501	5005	B01B8	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	FUEL GAS	GAS	TP 529 CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS)	6"-PP01-501-VL5003-B01B8	20	80	0.1	1	-20/150	10	-	N	NI	-	Air	11.0	N	NNF			
2	PK	512	5021	B01M8	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	PROCESS CONDENSATE	Liquid	GTG TRAIN 5 CONDENSATE HEADER	4"-PP01-512-PK0022-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N	Two Phase			
2	PK	512	5022	B01M8	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	PROCESS CONDENSATE	Liquid	TP 528 FUEL GAS SCRUBBER	4"-PP01-512-PK5021-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N				
1	PK	512	5023	B01M8	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	PROCESS CONDENSATE	Liquid	TP 530 FUEL GAS SCRUBBER	4"-PP01-512-PK5022-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N				
1	PK	512	5024	B01M8	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	PROCESS CONDENSATE	Liquid	MP 526 FUEL GAS SCRUBBER	4"-PP01-512-PK5023-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N				
1	PK	512	5025	B01M8	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	PROCESS CONDENSATE	Liquid	MP 525 FUEL GAS SCRUBBER	4"-PP01-512-PK5023-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N				
1	PK	512	5026	C01A9	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	PROCESS CONDENSATE	Liquid	MP 527 FUEL GAS SCRUBBER	4"-PP01-512-PK5021-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N				
1	PK	512	5027	C01A9	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	PROCESS CONDENSATE	Liquid	MP 532 FUEL GAS SCRUBBER	4"-PP01-512-PK5021-B01M8	18	100	0.1	1	135	10	-	N	NI	-	Water	15.0	N				
1	DM	511	5002	B01M6	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	CHEMICAL	Liquid	MP 514 EXPANSION TANK	GTG TRAIN 5 CHEMICAL DRAIN PIT	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N				
2	DM	511	5004	B01M6	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	CHEMICAL	Liquid	CHEMICAL DRAIN PIT TRAIN 5	PUMP-OUT CONNECTION	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N				
1 1/2	DM	511	5005	B01M6	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	CHEMICAL	Liquid	MP 501 OIL TANK IN ACCESSORY BASE	2"-PP01-511-DM5006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N				
2	DM	511	5006	B01M6	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	CHEMICAL	Liquid	HEADER	CHEMICAL DRAIN PIT TRAIN 5	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N				
1 1/2	DM	511	5007	B01M6	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	CHEMICAL	Liquid	MP 534 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM5006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N				
1	DM	511	5008	B01M6	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	CHEMICAL	Liquid	TP 504 EXPANSION TANK	2"-PP01-511-DM5006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N				



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)	FLUID		ROUTING		OPERATION CONDITION		DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION		
						MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
										Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
1 1/2	DM	511	5009	B01M6	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	CHEMICAL	LIQUID	MP 503 OIL TANK IN ACCESSORY BASE	2"-PP01-511-DM5006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N	
1	DM	511	5010	B01M6	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	CHEMICAL	LIQUID	MP 533 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM5006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N	
1	DM	511	5011	B01M6	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	CHEMICAL	LIQUID	MP 537 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM5006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N	
1	WW	552	5006	C01A9	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	CHEMICAL	LIQUID	MP 535 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM5006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N	
1	WW	552	5007	C01A9	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	CHEMICAL	LIQUID	MP 536 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM5006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N	
1	DM	511	5014	B01M6	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	CHEMICAL	LIQUID	TP 550 OFF-BASE ENCLOSURE TURBINE COMPARTMENT	2"-PP01-511-DM5006-B01M6	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N	
2	OL	541	5001	C01A9	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	LUBE OIL	LIQUID	MP 502 OIL TANK IN ACCESSORY BASE	TANKER	5	60	ATM	ATM	-2/85	3.5		N	NI	-	Service	ATM	N	
-	-	700	TG005-TX0001	B01M6	100478CP-N-PG-PP01-PR-PID-0044-001	01/01	-	-	-	-	AMB	AMB	ATM	ATM	55	ATM	820~1000	N	NI	-	Water	AMB	N	TRIM

OILY WATER DRAINS LIFT STATION FG COMPRESSOR AREA

8	DO	511	0001	B01B9	100478CP-N-PG-PP01-PR-PID-0046-001	01/01	OILY WATER	LIQUID	AOC SUMP PUMPS- FG COMPRESSOR AREA (PP01-511-P002A)	10"-PP01-511-DO0015-B01B9	10	50	-	1.28	-2/55	3.5	820~1000	N	NI	-	Water	5.25	N	
8	DO	511	0002	B01B9	100478CP-N-PG-PP01-PR-PID-0046-001	01/01	OILY WATER	LIQUID	AOC SUMP PUMPS - FG COMPRESSOR AREA (PP01-511-P002B)	10"-PP01-511-DO0015-B01B9	10	50	-	1.28	-2/55	3.5	820~1000	N	NI	-	Water	5.25	N	
3	DO	511	0005	B01B9	100478CP-N-PG-PP01-PR-PID-0046-001	01/01	OILY WATER	LIQUID	AOC SUMP- FG COMPRESSOR AREA (PP01-514-TG002)	VACUUM TRUCK CONNECTION	10	50	-	ATM	-2/55	3.5	820~1000	N	NI	-	Water	5.25	N	
6	DO	511	0014	B01B9	100478CP-N-PG-PP01-PR-PID-0046-001	01/01	OILY WATER	GAS	AOC SUMP- FG COMPRESSOR AREA (PP01-514-TG002)	SAFE LOCATION	10	50	-	ATM	-2/55	3.5		N	NI	-	Service	3.5	N	
3	DO	511	0006	B01B9	100478CP-N-PG-PP01-PR-PID-0046-001	01/01	OILY WATER	LIQUID	AOC SUMP- FG COMPRESSOR AREA (PP01-514-TG002)	VACUUM TRUCK CONNECTION	10	50	-	ATM	-2/55	3.5	820~1000	N	NI	-	Water	5.25	N	
10	DO	511	0015	B01B9	100478CP-N-PG-PP01-PR-PID-0046-001	01/01	OILY WATER	LIQUID	AOC SUMP PUMPS- FG COMPRESSOR AREA (PP01-511-P002A/B)	OILY SLUDGE EVAPORATION POND (PP01-511-TG001)	10	50	-	1.28	-2/55	3.5	820~1000	N	NI	-	Water	5.25	N	
-	-	511	TG002-TX0001	B01B9	100478CP-N-PG-PP01-PR-PID-0046-001	01/01	-	-	-	-	AMB	AMB	ATM	ATM	55	ATM	820~1000	N	NI	-	Water	AMB	N	TRIM

OILY WATER DRAINS LIFT STATION UTILITY AREA

4	DO	511	0007	B01B9	100478CP-N-PG-PP01-PR-PID-0047-001	01/01	OILY WATER	LIQUID	AOC SUMP PUMPS- UTILITY AREA (PP01-511-P001A)	OILY SLUDGE EVAPORATION POND (PP01-511-TG001)	10	50	-	2	-2/55	3.5	820~1000	N	NI	-	Water	5.25	N	
4	DO	511	0008	B01B9	100478CP-N-PG-PP01-PR-PID-0047-001	01/01	OILY WATER	LIQUID	AOC SUMP PUMPS- UTILITY AREA (PP01-511-P001B)	OILY SLUDGE EVAPORATION POND (PP01-511-TG001)	10	50	-	2	-2/55	3.5	820~1000	N	NI	-	Water	5.25	N	
3	DO	511	0011	B01B9	100478CP-N-PG-PP01-PR-PID-0047-001	01/01	OILY WATER	LIQUID	AOC SUMP- UTILITY AREA (PP01-511-TG001)	VACUUM TRUCK CONNECTION	10	50	-	ATM	-2/55	3.5	820~1000	N	NI	-	Water	5.25	N	
6	DO	511	0013	B01B9	100478CP-N-PG-PP01-PR-PID-0047-001	01/01	OILY WATER	GAS	AOC SUMP- UTILITY AREA (PP01-511-TG001)	SAFE LOCATION	10	50	-	ATM	-2/55	3.5		N	NI	-	Service	3.5	N	
3	DO	511	0012	B01B9	100478CP-N-PG-PP01-PR-PID-0047-001	01/01	OILY WATER	LIQUID	OILY SLUDGE EVAPORATION POND (PP01-511-TG001)	VACUUM TRUCK CONNECTION	10	50	-	ATM	-2/55	3.5	820~1000	N	NI	-	Water	5.25	N	



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CLASS		B		LINE LIST																					
SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE			TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.		FROM	TO	Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type		Barg	Y/N			
6	DO	511	0016	B01B9	100478CP-N-PG-PP01-PR-PID-0047-001	01/01	OILY WATER	LIQUID	AOC SUMP PUMPS- UTILITY AREA (PP01-511-P001A/B)	OILY SLUDGE EVAPORATION POND (PP01-511-TG001)	10	50	-	2	-2/55	3.5	820~1000	N	NI	-	Water	5.25	N		
-	-	511	TG001-TX0001	B01B9	100478CP-N-PG-PP01-PR-PID-0047-001	01/01	-	-	-	-	AMB	AMB	ATM	ATM	55	ATM	820~1000	N	NI	-	Water	AMB	N	TRIM	

SEWAGE TREATMENT SYSTEM

2	DJ	569	0004	B01M6	100478CP-N-PG-PP01-PR-PID-0048-001	01/01	SEWAGE	LIQUID	SEWAGE SUMP PUMP (PP01-569-P001A)	SEWAGE TREATMENT PACKAGE (PP01-569-Z001)	10	50	-	1.72	-2/55	3.5	1000~1100	N	NI	-	Water	5.25	N	
2	DJ	569	0005	B01M6	100478CP-N-PG-PP01-PR-PID-0048-001	01/01	SEWAGE	LIQUID	SEWAGE SUMP PUMP (PP01-569-P001B)	SEWAGE TREATMENT PACKAGE (PP01-569-Z001)	10	50	-	1.72	-2/55	3.5	1000~1100	N	NI	-	Water	5.25	N	
3	DJ	569	0008	B01M6	100478CP-N-PG-PP01-PR-PID-0048-001	01/01	SEWAGE	LIQUID	SEWAGE SUMP (PP01-569-TG001)	VACUUM TRUCK CONNECTION	10	50	-	ATM	-2/55	3.5	1000~1100	N	NI	-	Water	5.25	N	
2	DJ	569	0009	B01M6	100478CP-N-PG-PP01-PR-PID-0048-001	01/01	SEWAGE	GAS	SEWAGE SUMP (PP01-569-TG001)	SAFE LOCATION	10	50	-	ATM	-2/55	3.5		N	NI	-	Service	3.5	N	
2	PX	569	0001	B01M6	100478CP-N-PG-PP01-PR-PID-0048-001	01/01	TREATED WATER	LIQUID	SEWAGE TREATMENT PACKAGE (PP01-569-Z001)	STORM WATER DRAIN	10	50	-	-	-2/55	3.5	1000~1100	N	NI	-	Service	3.5	N	
2	DF	569	0001	B01M6	100478CP-N-PG-PP01-PR-PID-0048-001	01/01	SLUDGE	LIQUID	SEWAGE TREATMENT PACKAGE (PP01-569-Z001)	VACUUM TRUCK CONNECTION	10	50	-	ATM	-2/55	3.5	1000~1100	N	NI	-	Water	5.25	N	
2	DF	569	0002	B01M6	100478CP-N-PG-PP01-PR-PID-0048-001	01/01	SLUDGE	LIQUID	SEWAGE TREATMENT PACKAGE (PP01-569-Z001)	SEWAGE SUMP	10	50	-	ATM	-2/55	3.5	1000~1100	N	NI	-	Water	5.25	N	
-	-	569	TG001-TX0001	B01M6	100478CP-N-PG-PP01-PR-PID-0048-001	01/01	-	-	-	-	AMB	AMB	ATM	ATM	55	ATM	820~1000	N	NI	-	Water	AMB	N	TRIM

DS-3 GAS PIPELINE KNOCK OUT DRUM

20	GF	361	0069	B03F9	100478CP-N-PG-PP01-PR-PID-0049-001	01/01	FUEL GAS	GAS	DS-3 GAS PIPELINE KNOCK OUT DRUM (PP01-361-V005)	20"-PP01-361-GF0002-B03F9	20	80	10	10	-29/100	45	-	40	PP	-	Water	67.5	N	
6	GF	361	0070	B03F9	100478CP-N-PG-PP01-PR-PID-0049-001	01/01	FUEL GAS	GAS	DS-3 GAS PIPELINE KNOCK OUT DRUM (PP01-361-V005)	361-PSV0013	20	80	10	10	-29/100	45	-	30	PP	-	Water	67.5	N	
6	GF	361	0071	B03F9	100478CP-N-PG-PP01-PR-PID-0049-001	01/01	FUEL GAS	GAS	6"-PP01-361-GF0070-B03F9	361-PSV0014	20	80	10	10	-29/100	45	-	30	PP	-	Water	67.5	N	
2	GF	361	0072	B03F9	100478CP-N-PG-PP01-PR-PID-0049-001	01/01	FUEL GAS	GAS	6"-PP01-361-GF0070-B03F9	6"-PP01-500-VK0071-B01B8	20	80	10	10	-29/100	45	-	30	PP	-	Water	67.5	N	
6	VK	500	0070	B01B8	100478CP-N-PG-PP01-PR-PID-0049-001	01/01	FUEL GAS	GAS	361-PSV0013	HP FLARE HEADER	20	60	0.5	0.5	85	18	-	N	NI	-	Air	19.8	N	NNF
6	VK	500	0071	B01B8	100478CP-N-PG-PP01-PR-PID-0049-001	01/01	FUEL GAS	GAS	361-PSV0014	HP FLARE HEADER	20	60	0.5	0.5	85	18	-	N	NI	-	Air	19.8	N	NNF
+	PK	512	0065	B01M8	100478CP-N-PG-PP01-PR-PID-0049-001	01/01	PROCESS-CONDENSATE	LIQUID	LG/LT BRIDLE HEADER	3"-PP01-512-PK0067-B01B8	20	80	10	10	-29/100	45	-	30	PP	-	Water	67.5	N	
+	PK	512	0066	B01M8	100478CP-N-PG-PP01-PR-PID-0049-001	01/01	PROCESS-CONDENSATE	LIQUID	LG/LT BRIDLE HEADER	1"-PP01-512-PK0065-B01B8	20	80	0.4	-	85	18	-	30	PP	-	Water	27.0	N	
3	PK	512	0067	B01M8	100478CP-N-PG-PP01-PR-PID-0049-001	01/01	PROCESS-CONDENSATE	LIQUID	HEADER	CLOSED DRAIN SYSTEM	20	80	0.1	-	85	18	-	30	PP	-	Water	27.0	N	
6	PK	512	0068	B01F9	100478CP-N-PG-PP01-PR-PID-0049-001	01/01	PROCESS-CONDENSATE	LIQUID	6"-PP01-512-PK0069-B01F9	TRAIN 2 ND STAGE SEPARATOR	20	80	5	8	100	10	-	N	NI	-	Water	15.0	N	



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
6	PK	512	0069	B01F9	100478CP-N-PG-PP01-PR-PID-0049-001	01/01	PROCESS CONDENSATE	LIQUID	4"-PP01-512-PK0070-C06N9	TRAIN 1 2ND STAGE SEPARATOR	20	80	5	8	100	10	-	N	NI	-	Water	15.0	N		
4	PK	512	0070	C06N9	100478CP-N-PG-PP01-PR-PID-0049-001	01/01	PROCESS CONDENSATE	LIQUID	DS-3 GAS PIPELINE KNOCK OUT DRUM (PP01-361-V005)	6"-PP01-512-PK0069-B01F9	20	80	10	10	-29/100	45	-	30	PP	-	Water	67.5	N		
1	PK	512	0073	B03F9	100478CP-N-PG-PP01-PR-PID-0049-001	01/01	PROCESS CONDENSATE	LIQUID	361-LIT0001	1"-PP01-512-PK0066-B01M8	20	80	10	10	-29/100	45	-	30	PP	-	Water	67.5	N		
1	PK	512	0074	B03F9	100478CP-N-PG-PP01-PR-PID-0049-001	01/01	PROCESS CONDENSATE	LIQUID	361-LG0002	1"-PP01-512-PK0065-B01M8	20	80	10	10	-29/100	45	-	30	PP	-	Water	67.5	N		
1	PK	512	0075	B03F9	100478CP-N-PG-PP01-PR-PID-0049-001	01/01	PROCESS CONDENSATE	LIQUID	361-LZT0003	1"-PP01-512-PK0074-B03F9	20	80	10	10	-29/100	45	-	30	PP	-	Water	67.5	N		
2	GF	567	0001	B03F9	100478CP-N-PG-PP01-PR-PID-0049-001	01/01	NITROGEN	GAS	PORTABLE NITROGEN CONNECTION	DS-3 GAS PIPELINE KNOCK OUT DRUM (PP01-361-V005)	12	63	5	8.5	-15/100	14		N	NI		Air	15.4	N		
-	-	361	V005-TX0001	B03F9	100478CP-N-PG-PP01-PR-PID-0049-001	01/01	-	-	-	-	20	80	10	10	-29/100	45	-	30	PP	-	Water	67.5	N	TRIM	
3	PK	512	0088	B03F9	100478CP-N-PG-PP01-PR-PID-0049-001	01/01	PROCESS CONDENSATE	LIQUID	DS-3 GAS PIPELINE KNOCK OUT DRUM (PP01-361-V005)	3"-PP01-512-PK0067-B01M8	20	80	10	10	-29/100	45	-	30	PP	-	Water	67.5	N		

GTG INTERCONNECTING LINES TRAIN 1

6	OL	700	1251	J01A9	SOM6755365	3	LUBE OIL	LIQUID	TP-166	LUBE OIL COOLERS (TP167)	-	84	-	8.5	-2/100	12	-	30	PP	N	Water	18	N		
6	OL	700	1254	J01A9	SOM6755365	4	LUBE OIL	LIQUID	TP168	LUBE OIL SKID	-	84	-	8.6	-2/100	12	-	30	PP	N	Water	18	N		
8	VM	700	1284	J01A8	SOM6755365	4	OIL VAPORS	GAS	LUBE OIL SYSTEM OR SKID (TP102)	MINERAL OIL VAPOR SKID (TP109 & TP110)	-	90	-0.02	-0.05	-2/100	-0.2/3.5	-	30	PP	N	Water	5.25	N		
1	DK	700	1285	J01A8	SOM6755365	7	LUBE OIL DRAIN	LIQUID	MINERAL OIL VAPOR SKID (TP111)	LUBE OIL SKID (TP101)	-	90	-0.02	-0.05	-2/100	-0.2/3.5	-	30	PP	N	Water	5.25	N		
1	DK	700	1286	J01A8	SOM6755365	7	LUBE OIL DRAIN	LIQUID	MINERAL OIL VAPOR SKID (TP112)	LUBE OIL SKID (TP186)	-	90	-0.02	-0.05	-2/100	-0.2/3.5	-	30	PP	N	Water	5.25	N		
2	KG	700	1703	J01A6	SOM6755365	27	COOLING WATER	LIQUID	TP178	TP175	20	65	1.7	4.0	-2/100	10	-	N	NI	N	Water	15	N		
2	KG	700	1704	J01A6	SOM6755365	6	COOLING WATER	LIQUID	TP176	TP190	20	65	1.7	4.0	-2/100	10	-	N	NI	N	Water	15	N		
2	KG	700	1705	J01A6	SOM6755365	6	COOLING WATER	LIQUID	TP191	TP177	20	65	1.7	4.0	-2/100	10	-	N	NI	N	Water	15	N		
6	GF	700	1146	C03N8	SOM6755365	15	FUEL GAS	GAS	TP138	TP141	90	120	22	27	-29/135	35	-	50	HT	ET	Water	52.5	N		
4	GF	700	1145	C03N9	SOM6755365	15	FUEL GAS	GAS	TP179	TP183	90	120	22	27	-29/135	35	-	40	HT	ET	Water	52.5	N		
4	GF	700	1144	C03N9	SOM6755365	15	FUEL GAS	GAS	TP184	TP182	90	120	22	27	-29/135	35	-	40	HT	ET	Water	52.5	N		
3	FJ	700	1442	J06A9	SOM6755365	26	CO2	GAS	TP161	TP154/TP156	-	-	-	-	-57/85	140		N	NI	N	Water	210	N		
0.5	FJ	700	1441	J06A9	SOM6755365	26	CO2	GAS	TP160A	TP155A	-	-	-	-	-57/85	140		N	NI	N	Water	210	N	NNF	



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CLASS		B		LINE LIST																					
SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE			TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.		FROM	TO	Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N				
0.5	FJ	700	1440	J06A9	SOM6755365	26	CO2	GAS	TP160B	TP-155B/TP-157	-	-	-	-	-57/85	140		N	NI	N	Water	210	N		

GTG INTERCONNECTING LINES TRAIN 2

6	OL	700	2251	J01A9	SOM6755365	3	LUBE OIL	LIQUID	TP-266	LUBE OIL COOLERS (TP267)	-	84	-	8.5	-2/100	12	-	30	PP	N	Water	18	N		
6	OL	700	2254	J01A9	SOM6755365	4	LUBE OIL	LIQUID	TP268	LUBE OIL SKID	-	84	-	8.6	-2/100	12	-	30	PP	N	Water	18	N		
8	VM	700	2284	J01A8	SOM6755365	4	OIL VAPORS	GAS	LUBE OIL SYSTEM OR SKID (TP202)	MINERAL OIL VAPOR SKID (TP209 & TP210)	-	90	-0.02	-0.05	-2/100	-0.2/3.5	-	30	PP	N	Water	5.25	N		
1	DK	700	2285	J01A8	SOM6755365	7	LUBE OIL DRAIN	LIQUID	MINERAL OIL VAPOR SKID (TP211)	LUBE OIL SKID (TP201)	-	90	-0.02	-0.05	-2/100	-0.2/3.5	-	30	PP	N	Water	5.25	N		
1	DK	700	2286	J01A8	SOM6755365	7	LUBE OIL DRAIN	LIQUID	MINERAL OIL VAPOR SKID (TP212)	LUBE OIL SKID (TP286)	-	90	-0.02	-0.05	-2/100	-0.2/3.5	-	30	PP	N	Water	5.25	N		
2	KG	700	2703	J01A6	SOM6755365	27	COOLING WATER	LIQUID	TP278	TP275	20	65	1.7	4.0	-2/100	10	-	N	NI	N	Water	15	N		
2	KG	700	2704	J01A6	SOM6755365	6	COOLING WATER	LIQUID	TP276	TP290	20	65	1.7	4.0	-2/100	10	-	N	NI	N	Water	15	N		
2	KG	700	2705	J01A6	SOM6755365	6	COOLING WATER	LIQUID	TP291	TP277	20	65	1.7	4.0	-2/100	10	-	N	NI	N	Water	15	N		
6	GF	700	2146	C03N8	SOM6755365	15	FUEL GAS	GAS	TP238	TP241	90	120	22	27	-29/135	35	-	50	HT	ET	Water	52.5	N		
4	GF	700	2145	C03N9	SOM6755365	15	FUEL GAS	GAS	TP279	TP283	90	120	22	27	-29/135	35	-	40	HT	ET	Water	52.5	N		
4	GF	700	2144	C03N9	SOM6755365	15	FUEL GAS	GAS	TP284	TP282	90	120	22	27	-29/135	35	-	40	HT	ET	Water	52.5	N		
3	FJ	700	2442	J06A9	SOM6755365	26	CO2	GAS	TP261	TP254/TP256	-	-	-	-	-57/85	140		N	NI	N	Water	210	N	NNF	
0.5	FJ	700	2441	J06A9	SOM6755365	26	CO2	GAS	TP260A	TP255A	-	-	-	-	-57/85	140		N	NI	N	Water	210	N		
0.5	FJ	700	2440	J06A9	SOM6755365	26	CO2	GAS	TP260B	TP-255B/TP-257	-	-	-	-	-57/85	140		N	NI	N	Water	210	N		

GTG INTERCONNECTING LINES TRAIN 3

6	OL	700	3251	J01A9	SOM6755365	3	LUBE OIL	LIQUID	TP-366	LUBE OIL COOLERS (TP367)	-	84	-	8.5	-2/100	12	-	30	PP	N	Water	18	N		
6	OL	700	3254	J01A9	SOM6755365	4	LUBE OIL	LIQUID	TP368	LUBE OIL SKID	-	84	-	8.6	-2/100	12	-	30	PP	N	Water	18	N		
8	VM	700	3284	J01A8	SOM6755365	4	OIL VAPORS	GAS	LUBE OIL SYSTEM OR SKID (TP302)	MINERAL OIL VAPOR SKID (TP309 & TP310)	-	90	-0.02	-0.05	-2/100	-0.2/3.5	-	30	PP	N	Water	5.25	N		
1	DK	700	3285	J01A8	SOM6755365	7	LUBE OIL DRAIN	LIQUID	MINERAL OIL VAPOR SKID (TP311)	LUBE OIL SKID (TP301)	-	90	-0.02	-0.05	-2/100	-0.2/3.5	-	30	PP	N	Water	5.25	N		
1	DK	700	3286	J01A8	SOM6755365	7	LUBE OIL DRAIN	LIQUID	MINERAL OIL VAPOR SKID (TP312)	LUBE OIL SKID (TP386)	-	90	-0.02	-0.05	-2/100	-0.2/3.5	-	30	PP	N	Water	5.25	N		



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							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
2	KG	700	3703	J01A6	SOM6755365	27	COOLING WATER	LIQUID	TP378	TP375	20	65	1.7	4.0	-2/100	10	-	N	NI	N	Water	15	N		
2	KG	700	3704	J01A6	SOM6755365	6	COOLING WATER	LIQUID	TP376	TP390	20	65	1.7	4.0	-2/100	10	-	N	NI	N	Water	15	N		
2	KG	700	3705	J01A6	SOM6755365	6	COOLING WATER	LIQUID	TP391	TP377	20	65	1.7	4.0	-2/100	10	-	N	NI	N	Water	15	N		
6	GF	700	3146	C03N8	SOM6755365	15	FUEL GAS	GAS	TP338	TP341	90	120	22	27	-29/135	35	-	50	HT	ET	Water	52.5	N		
4	GF	700	3145	C03N9	SOM6755365	15	FUEL GAS	GAS	TP379	TP383	90	120	22	27	-29/135	35	-	40	HT	ET	Water	52.5	N		
4	GF	700	3144	C03N9	SOM6755365	15	FUEL GAS	GAS	TP384	TP382	90	120	22	27	-29/135	35	-	40	HT	ET	Water	52.5	N		
3	FJ	700	3442	J06A9	SOM6755365	26	CO2	GAS	TP361	TP354/TP356	-	-	-	-	-57/85	140		N	NI	N	Water	210	N	NNF	
0.5	FJ	700	3441	J06A9	SOM6755365	26	CO2	GAS	TP360A	TP355A	-	-	-	-	-57/85	140		N	NI	N	Water	210	N		
0.5	FJ	700	3440	J06A9	SOM6755365	26	CO2	GAS	TP360B	TP-355B/TP-357	-	-	-	-	-57/85	140		N	NI	N	Water	210	N		

GTG INTERCONNECTING LINES TRAIN 4

6	OL	700	4251	J01A9	SOM6755365	3	LUBE OIL	LIQUID	TP-466	LUBE OIL COOLERS (TP467)	-	84	-	8.5	-2/100	12	-	30	PP	N	Water	18	N		
6	OL	700	4254	J01A9	SOM6755365	4	LUBE OIL	LIQUID	TP468	LUBE OIL SKID	-	84	-	8.6	-2/100	12	-	30	PP	N	Water	18	N		
8	VM	700	4284	J01A8	SOM6755365	4	OIL VAPORS	GAS	LUBE OIL SYSTEM OR SKID (TP402)	MINERAL OIL VAPOR SKID (TP409 & TP410)	-	90	-0.02	-0.05	-2/100	-0.2/3.5	-	30	PP	N	Water	5.25	N		
1	DK	700	4285	J01A8	SOM6755365	7	LUBE OIL DRAIN	LIQUID	MINERAL OIL VAPOR SKID (TP411)	LUBE OIL SKID (TP401)	-	90	-0.02	-0.05	-2/100	-0.2/3.5	-	30	PP	N	Water	5.25	N		
1	DK	700	4286	J01A8	SOM6755365	7	LUBE OIL DRAIN	LIQUID	MINERAL OIL VAPOR SKID (TP412)	LUBE OIL SKID (TP486)	-	90	-0.02	-0.05	-2/100	-0.2/3.5	-	30	PP	N	Water	5.25	N		
2	KG	700	4703	J01A6	SOM6755365	27	COOLING WATER	LIQUID	TP478	TP475	20	65	1.7	4.0	-2/100	10	-	N	NI	N	Water	15	N		
2	KG	700	4704	J01A6	SOM6755365	6	COOLING WATER	LIQUID	TP476	TP490	20	65	1.7	4.0	-2/100	10	-	N	NI	N	Water	15	N		
2	KG	700	4705	J01A6	SOM6755365	6	COOLING WATER	LIQUID	TP491	TP477	20	65	1.7	4.0	-2/100	10	-	N	NI	N	Water	15	N		
6	GF	700	4146	C03N8	SOM6755365	15	FUEL GAS	GAS	TP438	TP441	90	120	22	27	-29/135	35	-	50	HT	ET	Water	52.5	N		
4	GF	700	4145	C03N9	SOM6755365	15	FUEL GAS	GAS	TP479	TP483	90	120	22	27	-29/135	35	-	40	HT	ET	Water	52.5	N		
4	GF	700	4144	C03N9	SOM6755365	15	FUEL GAS	GAS	TP484	TP482	90	120	22	27	-29/135	35	-	40	HT	ET	Water	52.5	N		
3	FJ	700	4442	J06A9	SOM6755365	26	CO2	GAS	TP461	TP454/TP456	-	-	-	-	-57/85	140		N	NI	N	Water	210	N		



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE			TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.		FROM	TO	Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type		Barg	Y/N			
0.5	FJ	700	4441	J06A9	SOM6755365	26	CO2	GAS	TP460A	TP455A	-	-	-	-	-57/85	140		N	NI	N	Water	210	N	NNF	
0.5	FJ	700	4440	J06A9	SOM6755365	26	CO2	GAS	TP460B	TP-455B/TP-457	-	-	-	-	-57/85	140		N	NI	N	Water	210	N	NNF	

GTG INTERCONNECTING LINES TRAIN 5

6	OL	700	5251	J01A9	SOM6755365	3	LUBE OIL	LIQUID	TP-566	LUBE OIL COOLERS (TP567)	-	84	-	8.5	-2/100	12	-	30	PP	N	Water	18	N		
6	OL	700	5254	J01A9	SOM6755365	4	LUBE OIL	LIQUID	TP568	LUBE OIL SKID	-	84	-	8.6	-2/100	12	-	30	PP	N	Water	18	N		
8	VM	700	5284	J01A8	SOM6755365	4	OIL VAPORS	GAS	LUBE OIL SYSTEM OR SKID (TP502)	MINERAL OIL VAPOR SKID (TP509 & TP510)	-	90	-0.02	-0.05	-2/100	-0.2/3.5	-	30	PP	N	Water	5.25	N		
1	DK	700	5285	J01A8	SOM6755365	7	LUBE OIL DRAIN	LIQUID	MINERAL OIL VAPOR SKID (TP511)	LUBE OIL SKID (TP501)	-	90	-0.02	-0.05	-2/100	-0.2/3.5	-	30	PP	N	Water	5.25	N		
1	DK	700	5286	J01A8	SOM6755365	7	LUBE OIL DRAIN	LIQUID	MINERAL OIL VAPOR SKID (TP512)	LUBE OIL SKID (TP586)	-	90	-0.02	-0.05	-2/100	-0.2/3.5	-	30	PP	N	Water	5.25	N		
2	KG	700	5703	J01A6	SOM6755365	27	COOLING WATER	LIQUID	TP578	TP575	20	65	1.7	4.0	-2/100	10	-	N	NI	N	Water	15	N		
2	KG	700	5704	J01A6	SOM6755365	6	COOLING WATER	LIQUID	TP576	TP590	20	65	1.7	4.0	-2/100	10	-	N	NI	N	Water	15	N		
2	KG	700	5705	J01A6	SOM6755365	6	COOLING WATER	LIQUID	TP591	TP577	20	65	1.7	4.0	-2/100	10	-	N	NI	N	Water	15	N		
6	GF	700	5146	C03N8	SOM6755365	15	FUEL GAS	GAS	TP538	TP541	90	120	22	27	-29/135	35	-	50	HT	ET	Water	52.5	N		
4	GF	700	5145	C03N9	SOM6755365	15	FUEL GAS	GAS	TP579	TP583	90	120	22	27	-29/135	35	-	40	HT	ET	Water	52.5	N		
4	GF	700	5144	C03N9	SOM6755365	15	FUEL GAS	GAS	TP584	TP582	90	120	22	27	-29/135	35	-	40	HT	ET	Water	52.5	N		
3	FJ	700	5442	J06A9	SOM6755365	26	CO2	GAS	TP561	TP554/TP556	-	-	-	-	-57/85	140		N	NI	N	Water	210	N		
0.5	FJ	700	5441	J06A9	SOM6755365	26	CO2	GAS	TP560A	TP555A	-	-	-	-	-57/85	140		N	NI	N	Water	210	N	NNF	
0.5	FJ	700	5440	J06A9	SOM6755365	26	CO2	GAS	TP560B	TP-555B/TP-557	-	-	-	-	-57/85	140		N	NI	N	Water	210	N	NNF	

FIRE WATER SYSTEM																									
12	FW	610	0002	B01M7	100478CP-N-PG-PP01-SR-PID-0001-001	01/01	FIRE WATER	LIQUID	FW TANK (610-T001)	FIRE WATER PUMPS	AMB	AMB	ATM	ATM	-2/85	5	1000	N	NI	-	Water	7.5	N		
3	FW	610	0003	B01M7	100478CP-N-PG-PP01-SR-PID-0001-001	01/01	FIRE WATER	LIQUID	BY WATER TANKER EXTERNAL SUPPLY	FW TANK (610-T001)	AMB	AMB	ATM	ATM	-2/85	5	1000	N	NI	-	Water	7.5	N		
8	FW	610	0004	B01M7	100478CP-N-PG-PP01-SR-PID-0001-001	01/01	FIRE WATER	LIQUID	610-T001 (Over Flow Line)	OPEN DRAIN	AMB	AMB	ATM	ATM	-2/85	3.5	1000	N	NI	-	Water	5.25	N		
4	FW	610	0005	B01M7	100478CP-N-PG-PP01-SR-PID-0001-001	01/01	FIRE WATER	LIQUID	610-T001	OPEN DRAIN	AMB	AMB	ATM	ATM	-2/85	3.5	1000	N	NI	-	Water	5.25	N		



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
10	FW	610	0006	B01M7	100478CP-N-PG-PP01-SR-PID-0001-001	01/01	FIRE WATER	LIQUID	PUMPS TEST LINE FROM -FE001	FW TANK (610-T001)	AMB	AMB	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
12	FW	610	0008	G01J8	100478CP-N-PG-PP01-SR-PID-0001-001	01/01	FIRE WATER	LIQUID	12"-PP01-610-FW0002-B01M7	610-P001	AMB	AMB	ATM	ATM	-2/85	5	1000	N	NI	-	Water	7.5	N		
12	FW	610	0009	G01J8	100478CP-N-PG-PP01-SR-PID-0001-001	01/01	FIRE WATER	LIQUID	12"-PP01-610-FW0002-B01M7	610-P002	AMB	AMB	ATM	ATM	-2/85	5	1000	N	NI	-	Water	7.5	N		
3	FW	610	0010	B01M7	100478CP-N-PG-PP01-SR-PID-0001-001	01/01	FIRE WATER	LIQUID	12"-PP01-610-FW0002-B01M7	610-P003	AMB	AMB	ATM	ATM	-2/85	5	1000	N	NI	-	Water	7.5	N		
12	FW	610	0011	G01J8	100478CP-N-PG-PP01-SR-PID-0002-001	01/01	FIRE WATER	LIQUID	FW PUMP (610-P001)	16"-PP01-610-FW0013-B01M7	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
12	FW	610	0012	G01J8	100478CP-N-PG-PP01-SR-PID-0002-001	01/01	FIRE WATER	LIQUID	FW PUMP (610-P002)	16"-PP01-610-FW0013-B01M7	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
16	FW	610	0013	B01M7	100478CP-N-PG-PP01-SR-PID-0002-001	01/01	FIRE WATER	LIQUID	FW Pumps discharge	Common Discharge Header	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
10	FW	610	0014	B01M7	100478CP-N-PG-PP01-SR-PID-0002-001	01/01	FIRE WATER	LIQUID	FW PUMPS TEST LINES (610-P001&2)	FE001	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
10	FW	610	0045	G01J8	100478CP-N-PG-PP01-SR-PID-0002-001	01/01	FIRE WATER	LIQUID	12"-PP01-610-FW0012-B01M7	12"-PP01-610-FW0014-B01M7	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
10	FW	610	0046	G01J8	100478CP-N-PG-PP01-SR-PID-0002-001	01/01	FIRE WATER	LIQUID	12"-PP01-610-FW0011-B01M7	12"-PP01-610-FW0014-B01M7	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
10	FW	610	0015	B01M7	100478CP-N-PG-PP01-SR-PID-0002-001	01/01	FIRE WATER	LIQUID	FW PUMP (610-P002) PSV DISCHARGE	FW TANK (610-T001)	5	40	12	-	-2/85	18	1000	N	NI	-	Water	27	N		
6	FW	610	0022	G01J8	100478CP-N-PG-PP01-SR-PID-0002-001	01/01	FIRE WATER	LIQUID	Diesel pump Discharge Header 12"-PP01-610-FW0012-G01J8	FW PUMP (610-P002) PRV inlet	5	40	9.8	14	-2/85	18	1000	N	NI	-	Water	27	N		
3/4"	FW	610	0023	B01M7	100478CP-N-PG-PP01-SR-PID-0002-001	01/01	FIRE WATER	LIQUID	Electric FW PUMP Stuffing Box DRAIN(610-P001)	OPEN DRAIN	AMB	AMB	ATM	ATM	-2/85	3.5	1000	N	NI	-	Water	5.25	N		
1/2"	FW	610	0024	B01M7	100478CP-N-PG-PP01-SR-PID-0002-001	01/01	FIRE WATER	LIQUID	Electric FW PUMP Casing Drain (610-P001)	OPEN DRAIN	AMB	AMB	ATM	ATM	-2/85	3.5	1000	N	NI	-	Water	5.25	N		
1/2"	FW	610	0025	B01M7	100478CP-N-PG-PP01-SR-PID-0002-001	01/01	FIRE WATER	LIQUID	Diesel FW PUMP Casing Drain (610-P002)	OPEN DRAIN	AMB	AMB	ATM	ATM	-2/85	3.5	1000	N	NI	-	Water	5.25	N		
1/2"	FW	610	0026	B01M7	100478CP-N-PG-PP01-SR-PID-0002-001	01/01	FIRE WATER	LIQUID	Diesel FW PUMP Stuffing Box Drain (610-P002)	OPEN DRAIN	AMB	AMB	ATM	ATM	-2/85	3.5	1000	N	NI	-	Water	5.25	N		
10	FW	610	0016	B01M7	100478CP-N-PG-PP01-SR-PID-0002-001	01/01	FIRE WATER	LIQUID	Common Discharge Header 16"-PP01-610-FW0013-B01M7	FW Distribution Network 10"-PP01-610-FW0020-B01M7	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
10	FW	610	0017	B01M7	100478CP-N-PG-PP01-SR-PID-0002-001	01/01	FIRE WATER	LIQUID	Common Discharge Header 16"-PP01-610-FW0013-B01M7	FW Distribution Network 10"-PP01-610-FW0019-B01M7	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
1	WO	511	0023	B01M9	100478CP-N-PG-PP01-SR-PID-0002-001	01/01	DIESEL	LIQUID	DIESEL ENGINE DAY TANK OVERFLOW LINE	COLLECTION SUMP	AMB	AMB	-	-	-2/85	3.5	820 ~ 870	N	NI	-	Water	5.25	N		
1	WO	511	0021	B01M9	100478CP-N-PG-PP01-SR-PID-0002-001	01/01	DIESEL	LIQUID	DIESEL ENGINE DAY TANK DRAIN	COLLECTION SUMP	AMB	AMB	-	-	-2/85	3.5	820 ~ 870	N	NI	-	Water	5.25	N		
3	FW	610	0018	B01M7	100478CP-N-PG-PP01-SR-PID-0003-001	01/01	FIRE WATER	LIQUID	Jockey Pumps Discharge	Common Discharge Header 16"-PP01-610-FW0013-B01M7	5	40	10.1	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
1	FW	610	0053	B01M7	100478CP-N-PG-PP01-SR-PID-0002-001	01/01	FIRE WATER	LIQUID	FW PUMP CASING Relief Valve DRAIN(610-P001)	OPEN DRAIN	AMB	AMB	ATM	ATM	-2/85	3.5	1000	N	NI	-	Water	5.25	N		

**EARLY POWER PLANT PROJECT
RUMAILA OIL FIELD, IRAQ
CONTRACT NO.: 100478**



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION		DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION		
							MEDIUM	PHASE			TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.		FROM	TO	Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N				
1.5	FW	610	0052	B01M7	100478CP-N-PG-PP01-SR-PID-0002-001	01/01	FIRE WATER	LIQUID	FW PUMP DIESEL ENGINE HEAT EXCAHNGER RETURN(610-P002)	OPEN DRAIN	40	-	9.8	-	-2/85	18	1000	N	NI	-	Water	27	N		
4	FW	610	0128	B01M7	100478CP-N-PG-PP01-SR-PID-0002-001	01/01	FIRE WATER	LIQUID	FW PUMP SUMP DRAIN(610-P002)	OPEN DRAIN	AMB	AMB	ATM	ATM	-2/85	3.5	1000	N	NI	-	Water	5.25	N		
1/2"	FW	610	0054	B01M7	100478CP-N-PG-PP01-SR-PID-0003-001	01/01	FIRE WATER	LIQUID	FW Jockey PUMP Casing DRAIN(610-P003B)	OPEN DRAIN	AMB	AMB	ATM	ATM	-2/85	3.5	1000	N	NI	-	Water	5.25	N		
1/2"	FW	610	0027	B01M7	100478CP-N-PG-PP01-SR-PID-0003-001	01/01	FIRE WATER	LIQUID	FW Jockey PUMP Casing DRAIN(610-P003A)	OPEN DRAIN	AMB	AMB	ATM	ATM	-2/85	3.5	1000	N	NI	-	Water	5.25	N		
3/4"	FW	610	0025	B01M7	100478CP-N-PG-PP01-SR-PID-0003-001	01/01	FIRE WATER	LIQUID	Jockey FW PUMP PSV DRAIN(610-P003A)	OPEN DRAIN	AMB	AMB	ATM	ATM	-2/85	3.5	1000	N	NI	-	Water	5.25	N		
3/4"	FW	610	0029	B01M7	100478CP-N-PG-PP01-SR-PID-0003-001	01/01	FIRE WATER	LIQUID	Jockey FW PUMP PSV DRAIN(610-P003B)	OPEN DRAIN	AMB	AMB	ATM	ATM	-2/85	3.5	1000	N	NI	-	Water	5.25	N		
3	FW	610	0140	B01M7	100478CP-N-PG-PP01-SR-PID-0003-001	01/01	FIRE WATER	LIQUID	3"-PP01-610-FW0010-B01M7	610-P003B	AMB	AMB	ATM	ATM	-2/85	5	1000	N	NI	-	Water	7.5	N		
3	FW	610	0041	B01M7	100478CP-N-PG-PP01-SR-PID-0003-001	01/01	FIRE WATER	LIQUID	Jockey Pumps Discharge (P003A)	Common Discharge Header 3"-PP01-610-FW0018-B01M7	5	40	10.1	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
3	FW	610	0042	B01M7	100478CP-N-PG-PP01-SR-PID-0003-001	01/01	FIRE WATER	LIQUID	Jockey Pumps Discharge (P003B)	Common Discharge Header 3"-PP01-610-FW0018-B01M7	5	40	10.1	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
10	FW	610	0019	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	Common Discharge Header 10"-PP01-610-FW0017-B01M7	FW Distribution Network 10"-PP01-610-FW0007-B01M7	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
10	FW	610	0020	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	Common Discharge Header 10"-PP01-610-FW0016-B01M7	FW Ring Main 10"-PP01-610-FW0007-B01M7	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
40	FW	610	0007	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	Ring Main 10"-PP01-610-FW0034-H01	Ring Main 10"-PP01-610-FW0001-H01	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
10	FW	610	0001	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0033-B01M7	FW Ring Main 10"-PP01-610-FW0034-B01M7	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
10	FW	610	0021	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0032-B01M7	FW Ring Main 10"-PP01-610-FW0001-B01M7	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
10	FW	610	0030	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0033-B01M7	FW Ring Main 10"-PP01-610-FW0031-B01M7	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
10	FW	610	0031	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0035-B01M7	FW Ring Main 10"-PP01-610-FW0030-B01M7	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
10	FW	610	0032	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0030-B01M7	FW Ring Main 10"-PP01-610-FW0021-B01M7	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
10	FW	610	0033	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0030-B01M7	FW Ring Main 10"-PP01-610-FW0001-B01M7	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
10	FW	610	0034	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0007-B01M7	FW Ring Main 10"-PP01-610-FW0114-B01M7	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
10	FW	610	0035	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0032-B01M7	FW Ring Main 10"-PP01-610-FW0031-B01M7	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
10	FW	610	0114	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0034-B01M7	FW Ring Main 10"-PP01-610-FW0035-B01M7	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
6	FW	610	0055	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0031-B01M7	FIRE WATER HYDRANT-SHY001	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.			
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N			
6	FW	610	0056	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0031-B01M7	FIRE WATER HYDRANT-SHY002	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
6	FW	610	0057	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0031-B01M7	FIRE WATER HYDRANT-SHY003	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
6	FW	610	0058	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0031-B01M7	FIRE WATER HYDRANT-SHY004	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
6	FW	610	0059	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0031-B01M7	FIRE WATER HYDRANT-SHY005	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
6	FW	610	0060	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0031-B01M7	FIRE WATER HYDRANT-SHY006	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
6	FW	610	0061	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0031-B01M7	FIRE WATER HYDRANT-SHY007	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
6	FW	610	0062	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0034-B01M7	FIRE WATER HYDRANT-SHY008	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
6	FW	610	0063	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0032-B01M7	FIRE WATER HYDRANT-SHY009	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
6	FW	610	0064	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0032-B01M7	FIRE WATER HYDRANT-SHY010	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
6	FW	610	0065	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0032-B01M7	FIRE WATER HYDRANT-SHY011	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
6	FW	610	0066	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0032-B01M7	FIRE WATER HYDRANT-SHY012	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
6	FW	610	0067	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0032-B01M7	FIRE WATER HYDRANT-SHY013	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
6	FW	610	0068	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0032-B01M7	FIRE WATER HYDRANT-SHY014	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
6	FW	610	0069	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0007-B01M7	FIRE WATER HYDRANT-SHY015	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
6	FW	610	0075	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0032-B01M7	FIRE WATER HYDRANT-SHY016	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
6	FW	610	0076	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0007-B01M7	FIRE WATER HYDRANT-SHY017	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
6	FW	610	0070	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0034-B01M7	FIRE WATER HYDRANT-SHY018	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
6	FW	610	0071	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0034-B01M7	FIRE WATER HYDRANT-SHY019	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
6	FW	610	0072	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0007-B01M7	FIRE WATER HYDRANT-SHY020	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
6	FW	610	0073	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0032-B01M7	FIRE WATER HYDRANT-SHY021	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
6	FW	610	0074	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0007-B01M7	FIRE WATER HYDRANT-SHY022	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		
6	FW	610	0091	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0030-B01M7	FIRE WATER HYDRANT-SHY023	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N		



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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION	
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.				
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N				
6	FW	610	0090	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0030-B01M7	FIRE WATER HYDRANT-SHY024	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
6	FW	610	0089	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0030-B01M7	FIRE WATER HYDRANT-SHY025	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
6	FW	610	0080	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0021-B01M7	FIRE WATER HYDRANT-SHY026	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
6	FW	610	0081	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0030-B01M7	FIRE WATER HYDRANT-SHY027	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
6	FW	610	0082	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0030-B01M7	FIRE WATER HYDRANT-SHY028	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
6	FW	610	0084	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0033-B01M7	FIRE WATER HYDRANT-SHY029	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
6	FW	610	0085	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0033-B01M7	FIRE WATER HYDRANT-SHY030	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
6	FW	610	0086	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0033-B01M7	FIRE WATER HYDRANT-SHY031	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
6	FW	610	0087	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0033-B01M7	FIRE WATER HYDRANT-SHY032	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
6	FW	610	0088	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0033-B01M7	FIRE WATER HYDRANT-SHY033	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
6	FW	610	0083	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0033-B01M7	FIRE WATER HYDRANT-SHY034	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
6	FW	610	0093	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0035-B01M7	FIRE WATER HYDRANT-SHY035	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
6	FW	610	0092	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0035-B01M7	FIRE WATER HYDRANT-SHY036	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
6	FW	610	0116	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0034-B01M7	FIRE WATER HYDRANT-SHY037	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
6	FW	610	0117	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0031-B01M7	FIRE WATER HYDRANT-SHY038	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
6	FW	610	0131	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0001-B01M7	FIRE WATER HYDRANT-SHY039	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
6	FW	610	0132	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0001-B01M7	FIRE WATER HYDRANT-SHY040	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
6	FW	610	0133	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0001-B01M7	FIRE WATER HYDRANT-SHY041	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
6	FW	610	0134	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0031-B01M7	FIRE WATER HYDRANT-SHY042	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
6	FW	610	0135	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0031-B01M7	FIRE WATER HYDRANT-SHY043	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
6	FW	610	0136	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0031-B01M7	FIRE WATER HYDRANT-SHY044	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
4	FW	610	0094	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0021-B01M7	FIRE WATER MONITOR-SMO001	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			



**EARLY POWER PLANT PROJECT
RUMAILA OIL FIELD, IRAQ
CONTRACT NO.: 100478**



LINE LIST

DOCUMENT NO.:100478CP-N-PG-PP01-PR-LST-0001-D04

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SIZE IN INCHES	SERVICE	SYSTEM NUMBER	LINE NUMBER	SPEC	P&ID (ORIGIN)		FLUID		ROUTING		OPERATION CONDITION				DESIGN COND.		FLUID	INSULATION & TRACING			TESTING		STEAM OUT	REMARKS	REVISION	
							MEDIUM	PHASE	FROM	TO	TEMP. °C		PRESS. Barg		TEMP.	PRESS.	DENSITY	INSUL.	INSUL.	TRACE	MED	PRESS.				
					NO.	SHT.					Minimum	Maximum	Minimum	Maximum	°C	Barg	Kg/m³	Thk.mm	Type	Type	Barg	Y/N				
4	FW	610	0095	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0033-B01M7	FIRE WATER MONITOR-SMO002	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
4	FW	610	0096	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0114-B01M7	FIRE WATER MONITOR-SMO003	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
4	FW	610	0097	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0034-B01M7	FIRE WATER MONITOR-SMO004	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
4	FW	610	0098	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0035-B01M7	FIRE WATER MONITOR-SMO005	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
4	FW	610	0099	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0034-B01M7	FIRE WATER MONITOR-SMO006	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
4	FW	610	0100	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0034-B01M7	FIRE WATER MONITOR-SMO007	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
4	FW	610	0101	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0035-B01M7	FIRE WATER MONITOR-SMO008	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
4	FW	610	0115	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0114-B01M7	FIRE WATER MONITOR-SMO009	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
4	FW	610	0130	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0031-B01M7	FIRE WATER MONITOR-SMO010	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
4	FW	610	0039	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0031-B01M7	FIRE WATER MONITOR-SMO011	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
4	FW	610	0040	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0031-B01M7	FIRE WATER MONITOR-SMO012	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
4	FW	610	0141	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0031-B01M7	FIRE WATER MONITOR-SMO013	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
3/1	FW	610	0044	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0001-B01M7	FIRE HOSE REEL-SHR001	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
3/1	FW	610	0139	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0001-B01M7	FIRE HOSE REEL-SHR002	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
3/1	FW	610	0043	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0001-B01M7	FIRE HOSE REEL-SHR003	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
10	FW	610	0137	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0007-B01M7	FW Ring Main SECURITY AREA TIE IN	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
10	FW	610	0138	B01M7	100478CP-N-PG-PP01-SR-PID-0004-001	01/01	FIRE WATER	LIQUID	FW Ring Main 10"-PP01-610-FW0001-B01M7	FW Ring Main SECURITY AREA TIE IN	5	40	9.8	10.5	-2/85	18	1000	N	NI	-	Water	27	N			
-	-	610	T001-TX0001	B01B9	100478CP-N-PG-PP01-SR-PID-0001-001	01/01	-	-	-	-	AMB	AMB	ATM	ATM	-2/85	0.01+FULL OF WATER / -0.006	1000	N	NI		Service	5.25	N	TRIM		