

ภาคผนวก ข-29

คู่มือปฏิบัติงานสำหรับพนักงาน

	WORK INSTRUCTION NO. : I-HyCO-091
TITLE : Operate NG Metering	
PREPARED : นภาพร ชาลี	ISSUE/REVISION : A/1 DATE : 10/7/2018
APPROVED : ราชนัย อรรถ	Page 1 of 3

วัตถุประสงค์

เพื่อให้พนักงานฝ่ายผลิต สามารถทำงานได้อย่างปลอดภัย และเป็นไปตามขั้นตอนการทำงาน ลดความเสี่ยงทำให้เกิดการรั่วไหลของ NG ออกสู่บรรยากาศ

ขอบเขต

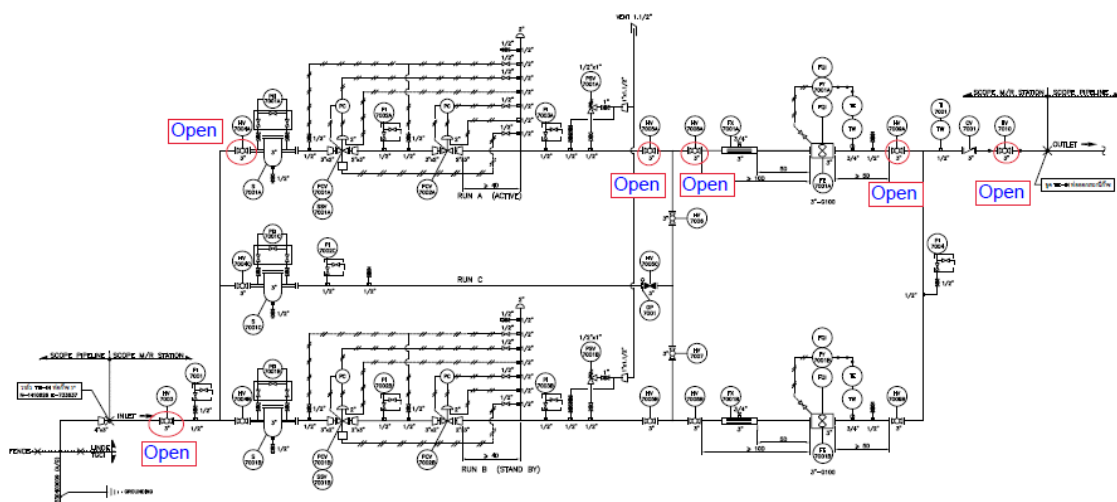
สามารถใช้ได้กับ ลินเคไฮโค สาขา มาบตาพุด เท่านั้น

1. อุปกรณ์ PPE ที่ต้องใช้มีดังนี้

- 1.1 อุปกรณ์ PPE ที่บังคับตามกฎหมายความปลอดภัย
- 1.2 ถุงมือหนังหรือถุงมือผ้า
- 1.3 ประแจ F เพื่อปิด-เปิดวาล์ว

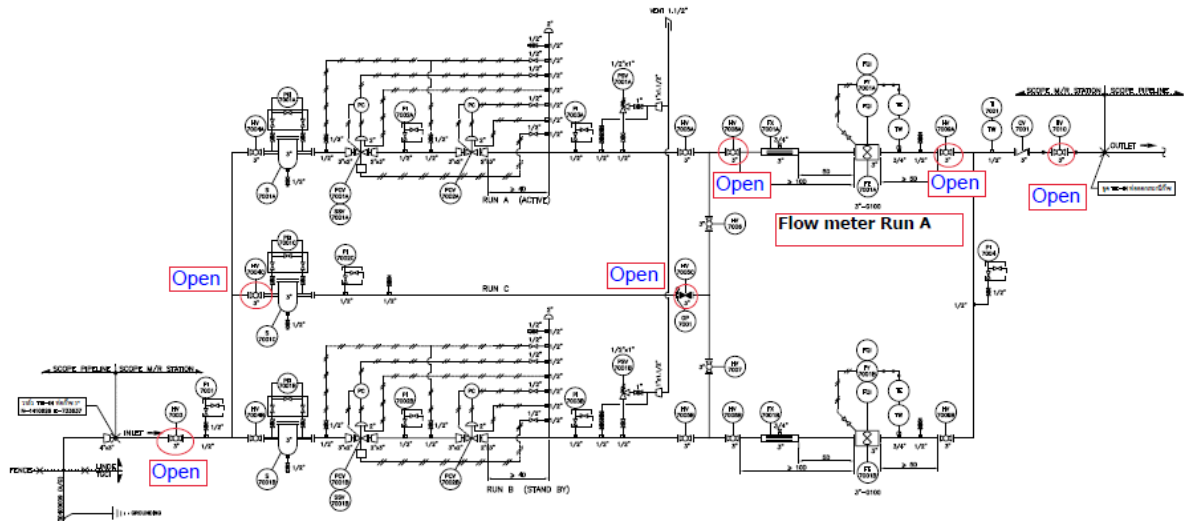
2. Service Meter Run A

- 2.1 เปิด HV7003 เพื่อดูแรงดัน NG ในระบบของ ปตท. PI7001 = 35-39 barg
- 2.2 เปิด HV7004A เพื่อเช็คแรงดันที่ผ่าน filter < 450 mbarg
- 2.3 ต้องทำการใส่ระบบท่อ NG Run A ก่อนทำการใช้งานจริง โดยการเปิด bypass safety valve PSV7001A to vent safe area เป็นเวลา 3-5 นาที แล้วจึงปิด bypass PSV7001A
เช็คแรงดัน PI7003A = 26-30 barg
- 2.4 การใช้งาน Flow Meter run A => เปิด HV7005A, HV7008A, HV7009A, HV7010
PI7004 = 26-30 barg
- 2.5 เช็คการรั่วของ NG และเช็ค meter run A สามารถอ่านค่าการวัดปริมาณการใช้แก๊สได้



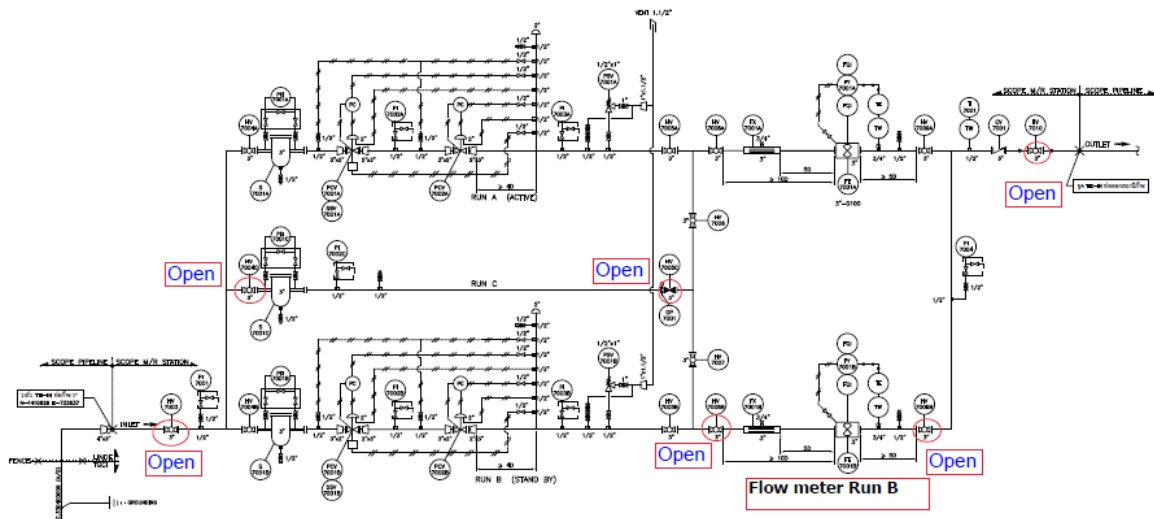
Picture 1. Service Meter Run A

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Service Meter Run C with Flow meter Run A count.

- 4.5 Flow Meter Run B => เปิด HV7007, HV7008B, HV7009B, HV7010
PI7004 = 26-30 barg



Service Meter Run C with Flow meter Run B count

- 4.6 เช็ครั่วของ NG และเช็ค meter run A หรือ meter run B สามารถอ่านค่าการวัดปริมาตรการใช้แก๊สได้

Note:

- กรณีที่ต้องการใช้งาน NG RUN C ต้องมีการทำหนังสือขออนุญาต PTT ก่อนการใช้งาน เพราะ NG Run C แรงดันจะสูงกว่า แรงดันที่ PTT ซื้อมาปกติ
- การใช้งาน NG Metering ใช้งานที่ละตัว NG run A หรือ NG run B ส่วนตัวที่ไม่ใช้งานจะมีการปิด valve ด้านเข้า ด้านออกไว้
- หากมีเหตุฉุกเฉินติดต่อประสานงานกับ PTT ที่เบอร์ Hot line 1540

ภาคผนวก ข-30

HyCO Alarm & Trip setting

Alarm and Trip Setting HyCO

SEP'2019

HyCO Alarm&Trip setting (Main Plant)

Update SEP'2019

PID	LOOP_NAME	Tag_number	Description	DVS RANGE							Delay	Effect
				MIN	MAX	UNIT	ALL	AL	AH	AHH		
10PP01	F10001	FALL10001.A	Recycle N2 flow	0	1600	kg/h	-	700	-	-		
10PP01	F10001	FALL10001.A	Recycle N2 flow	0	1600	kg/h	600	-	-	-		
10PP01	F10001	FSSL10001.A	Recycle N2 flow				-	-	-	-		
10PP01	F10002	FDA10002	NG feed flow			%	-	-	-	-		
10PP01	F10002	FALL10002	NG feed flow	0	1900	kg/h	-	500	-	-		
10PP01	F10002	FALL10002	NG feed flow				-	-	-	-	15 min	
10PP01	F10002	FALL10002.A	NG feed flow	0	1900	kg/h	-	500	-	-		
10PP01	F10002	FALL10002.A	NG feed flow	0	1900	kg/h	250	-	-	-	15 min	
10PP01	F10002	FSSL10002.A					-	-	-	-	15 min	
10PP01	F10002	FALL10002.B	NG feed flow	0	1900	kg/h	-	500	-	-		
10PP01	F10002	FALL10002.B	NG feed flow	0	1900	kg/h	250	-	-	-	15 min	
10PP01	F10002	FSSL10002.B					-	-	-	-	15 min	
10PP01	F10002	FALL10002.C	NG feed flow	0	1900	kg/h	-	500	-	-		
10PP01	F10002	FALL10002.C	NG feed flow	0	1900	kg/h	250	-	-	-	15 min	
10PP01	F10002	FSSL10002.C					-	-	-	-	15 min	
10PP01	P10002	PDA10002	NG feed pres.			%	-	-	-	-		
10PP01	T10002	TDA10002	NG feed temp.(TOC FEED TEMP.)			%	-	-	-	-		
10PP01	F10003	FALL10003.A	H2 recycle flow	0	16	kg/h	-	8	-	-		
10PP01	F10003	FAH10003.A	H2 recycle flow	0	16	kg/h	-	-	15	-		
10PP03	T10003	TAH10003	FDG Temp. control R1001	0	500	°C	-	-	390	-		
10PP03	T10003	TAL10003	FDG Temp. control R1002	0	500	°C	-	300	-	-		
10PP04	L10004	LAHH10004	Level in E1012	0	100	%	-	-	-	-	5 sec.	
10PP04	L10004	LSHH10004	Level in E1012	0	100	%	-	-	-	-	5 sec.	
10PP02	F10005	FDA10005	LPG feed flow			%	-	-	-	-		
10PP02	F10005	FALL10005	LPG feed flow	0	2200	kg/h	-	550	-	-		
10PP02	F10005	FALL10005					-	-	-	-	15 min.	
10PP02	F10005	FALL10005.A	LPG feed flow	0	2200	kg/h	-	550	-	-		
10PP02	F10005	FALL10005.A	LPG feed flow	0	2200	kg/h	380	-	-	-	15 min.	
10PP02	F10005	FSSL10005.A					-	-	-	-	15 min.	
10PP02	F10005	FALL10005.B	LPG feed flow	0	2200	kg/h	-	550	-	-		
10PP02	F10005	FALL10005.B	LPG feed flow	0	2200	kg/h	380	-	-	-	15 min.	
10PP02	F10005	FSSL10005.B					-	-	-	-	15 min.	
10PP02	F10005	FALL10005.C	LPG feed flow	0	2200	kg/h	-	550	-	-		
10PP02	F10005	FALL10005.C	LPG feed flow	0	2200	kg/h	380	-	-	-	15 min.	
10PP02	F10005	FSSL10005.C					-	-	-	-	15 min.	
10PP02	F10005	FAHH10005.D					-	-	-	700	5 sec.	
10PP02	F10005	FSHH10005.D					-	-	-	-	5 sec.	
10PP02	F10005	FAHH10005.E					-	-	-	700	5 sec.	
10PP02	F10005	FSHH10005.E					-	-	-	-	5 sec.	
10PP02	F10005	FAHH10005.F					-	-	-	700	5 sec.	
10PP02	F10005	FSHH10005.F					-	-	-	-	5 sec.	
10PP02	P10005	PDA10005	LPG feed pres.			%	-	-	-	-		
10PP02	T10005	TDA10005	LPG feed temp.			%	-	-	-	-		
10PP04	F10006	FALL1006	Steam to carbon ratio (LPG feed)				2.06	-	-	-	5 sec.	
10PP04	F10006	FALL1006.A	Steam to carbon ratio (LPG feed)	0	100	mol/mol	2.06	-	-	-	5 sec.	
10PP04	F10006	FSSL1006.A	Steam to carbon ratio (LPG feed)	0	100	mol/mol	-	-	-	-	5 sec.	
10PP04	F10006		Steam to carbon ratio (LPG feed)	0	100	mol/mol	2.06	-	-	-	5 sec.	
10PP04	F10006	FSSL1006.B	Steam to carbon ratio (LPG feed)	0	100	mol/mol	-	-	-	-	5 sec.	
10PP04	F10006	FALL1006.C	Steam to carbon ratio (LPG feed)	0	100	mol/mol	2.06	-	-	-	5 sec.	
10PP04	F10006	FSSL1006.C	Steam to carbon ratio (LPG feed)	0	100	mol/mol	-	-	-	-	5 sec.	
10PP02	P10006	PDAH10006	Pres. Drop of E1011	0	1	barg	-	-	0.5	-	5 sec.	
10PP04	F10008	FALL1008	Total steam flow (LPG feed)				1300	-	-	-	5 sec.	
10PP04	F10008	FALL1008.A	Total steam flow (LPG feed)	0	6000	kg/h	1300	-	-	-	5 sec.	
10PP04	F10008	FSSL1008.A	Total steam flow (LPG feed)	0	6000	kg/h	-	-	-	-	5 sec.	
10PP04	F10008	FALL1008.B	Total steam flow (LPG feed)	0	6000	kg/h	1300	-	-	-	5 sec.	
10PP04	F10008	FSSL1008.B	Total steam flow (LPG feed)	0	6000	kg/h	-	-	-	-	5 sec.	
10PP04	F10008	FALL1008.C	Total steam flow (LPG feed)	0	6000	kg/h	1300	-	-	-	5 sec.	
10PP04	F10008	FSSL1008.C	Total steam flow (LPG feed)	0	6000	kg/h	-	-	-	-	5 sec.	
10PP03	T10008	TAH10008					-	-	-	-		
10PP05	F10011	FDA10011	R1105 steam flow			%	-	-	-	-		

BMS trip

HyCO Alarm&Trip setting (Main Plant)

Update SEP'2019

PID	LOOP_NAME	Tag_number	Description	DVS RANGE							Delay	Effect
				MIN	MAX	UNIT	ALL	AL	AH	AHH		
10PP05	F10011	FDA10011.A					-	-	-	-		
10PP05	F10011	FDA10011.A					-	-	-	-		
10PP05	T10011	TDA10011	Process steam temp.			%	-	-	-	-		
10PP05	F10012	FDA10012	Reformer steam flow			%	-	-	-	-		
10PP04	H10012	HA10012					-	-	-	-		
10PP05	P10012	PDA10012	Reformer steam pres.			%	-	-	-	-		
10PP05	T10012	TAL10012	Feed Gas Temp.	0	500	°C	-	350	-	-		
10PP06	P10013	PDAL10013	Pres.Drop CO2 import valve	0	60	barg	-	0.15	-	-		
10PP06	P10013	PDALL10013	Pres.Drop CO2 import valve	0	60	barg	0.1	-	-	-		
10PP06	P10013	PDSSL10013	Pres.Drop CO2 import valve	0	60	barg	0.1	-	-	-		
10PP06	T10013	TAL10013	CO2 import temp.	0	60	°C	-	7	-	-		
10PP04	H10014	HA10014					-	-	-	-		
10PP03	T10014	TAHH10014					-	-	-	420	5 sec.	
10PP03	T10014	TAH10014.A	Temp.1st.Bed of R1001	0	500	°C	-	-	410	-	5 sec.	
10PP03	T10014	TAHH10014.A	Temp.1st.Bed of R1001	0	500	°C	-	-	-	420	5 sec.	
10PP03	T10014	TSHH10014.A					-	-	-	-	5 sec.	
10PP03	T10014	TAH10014.B	Temp.1st.Bed of R1001	0	500	°C	-	-	410	-	5 sec.	
10PP03	T10014	TAHH10014.B	Temp.1st.Bed of R1001	0	500	°C	-	-	-	420	5 sec.	
10PP03	T10014	TSHH10014.B					-	-	-	-	5 sec.	
10PP03	T10014	TAH10014.C	Temp.1st.Bed of R1001	0	500	°C	-	-	410	-	5 sec.	
10PP03	T10014	TAHH10014.C	Temp.1st.Bed of R1001	0	500	°C	-	-	-	420	5 sec.	
10PP03	T10014	TSHH10014.C					-	-	-	-	5 sec.	
10PP03	T10014	TAH10014.C	Temp.1st.Bed of R1001	0	500	°C	-	-	410	-	5 sec.	
10PP03	T10014	TAHH10014.C	Temp.1st.Bed of R1001	0	500	°C	-	-	-	420	5 sec.	
10PP03	T10014	TSHH10014.C					-	-	-	-	5 sec.	
10PP06	F10016	FDA10016				%	-	-	-	-		
10PP06	F10016	FAL10016	CO2/LPG Ratio	0	4500	kg/h	-	400	-	-		
10PP06	F10016	FSL10016	CO2/LPG Ratio	0	100		-	1.2	-	-		
10PP06	F10016	FSSL10016.H	CO2/LPG Ratio	0	100		-	-	-	-		
10PP01	T10016	TAH10016	Ref.gas temp.	0	500	°C	-	-	400	-		
10PP06	F10017	FDA10017				%	-	-	-	-		
10PP03	T10017	TAH10017	OUTLET TEMP. OF R1001	0	500	°C	-	-	400	-		
10PP03	T10017	TAL10017	OUTLET TEMP. OF R1002	0	500	°C	-	370	-	-		
10PP04	F10018	FALL10018	Total steam ratio (LPG feed)				-	-	-	-		
10PP04	F10018	FALL10018.A	Flow ratio steam/LPG	0	100		1.45	-	-	-	5 sec.	
10PP04	F10018	FSL10018.A	Flow ratio steam/LPG	0	100		-	-	-	-	5 sec.	
10PP04	F10018	FALL10018.B	Flow ratio steam/LPG	0	100		1.45	-	-	-	5 sec.	
10PP04	F10018	FSSL10018.B	Flow ratio steam/LPG	0	100		-	-	-	-	5 sec.	
10PP04	F10018	FALL10018.C	Flow ratio steam/LPG	0	100		1.45	-	-	-	5 sec.	
10PP04	F10018	FSL10018.C	Flow ratio steam/LPG	0	100		-	-	-	-	5 sec.	
10PP04	F10506	FALL10506	Total ratio steam (NG feed)	0	100	mol/mol	2.08	-	-	-	5 sec.	
10PP04	F10506	FALL10506.A	Total ratio steam (NG feed)	0	100	mol/mol	2.08	-	-	-	5 sec.	
10PP04	F10506	FSL10506.A	Total ratio steam (NG feed)	0	100	mol/mol	-	-	-	-	5 sec.	
10PP04	F10506	FALL10506.B	Total ratio steam (NG feed)	0	100	mol/mol	2.08	-	-	-	5 sec.	
10PP04	F10506	FSL10506.B	Total ratio steam (NG feed)	0	100	mol/mol	-	-	-	-	5 sec.	
10PP04	F10506	FALL10506.C	Total ratio steam (NG feed)	0	100	mol/mol	2.08	-	-	-	5 sec.	
10PP04	F10506	FSSL10506.C	Total ratio steam (NG feed)	0	100	mol/mol	-	-	-	-	5 sec.	
10PP04	F10508	FALL10508	Total steam flow(NG feed)				-	-	-	-	5 sec.	
10PP04	F10508	FALL10508.A	Total steam flow(NG feed)	0	6000	kg/h	1200	-	-	-	5 sec.	
10PP04	F10508	FSSL10508.A	Total steam flow(NG feed)	0	6000	kg/h	-	-	-	-	5 sec.	
10PP04	F10508	FALL10508.B	Total steam flow(NG feed)	0	6000	kg/h	1200	-	-	-	5 sec.	
10PP04	F10508	FSL10508.B	Total steam flow(NG feed)	0	6000	kg/h	-	-	-	-	5 sec.	
10PP04	F10508	FALL10508.C	Total steam flow(NG feed)	0	6000	kg/h	1200	-	-	-	5 sec.	
10PP04	F10508	FSSL10508.C	Total steam flow(NG feed)	0	6000	kg/h	-	2.17	-	-	5 sec.	
10PP04	F10511	FALL10511.A	Steam to carbon ratio	0	100	mol/mol	2.08	-	-	-		
10PP04	F10511	FALL10511.A	Steam to carbon ratio	0	100	mol/mol	-	1.72	-	-		
10PP04	F10511	FALL10511.B	Total ratio steam to carbon ratio	0	5	mol/mol	1.63	-	-	-		
10PP04	F10511	FALL10511.B	Total ratio steam to carbon ratio	0	5	mol/mol	-	-	-	-		
10PP04	H10512	HA10513					-	-	-	-		
10PP06	F10516	FSSL10516	CO2/TOC ratio	0	100	mol/mol	-	-	-	-		

PV10009, BMS

BMS trip

HyCO Alarm&Trip setting (Main Plant)

Update SEP'2019

PID	LOOP_NAME	Tag_number	Description	DVS RANGE							Delay	Effect
				MIN	MAX	UNIT	ALL	AL	AH	AHH		
10PP06	F10516	FFSL10516.H					-	-	-	-		
10PP04	F10518	FALL10518	Flow ratio steam/toc	0	100	mol/mol	1.63	-	-	-	5 sec.	
10PP04	F10518	FALL10518.A	Flow ratio steam/toc	0	100	mol/mol	1.63	-	-	-	5 sec.	
10PP04	F10518	FSL10518.A	Flow ratio steam/toc	0	100	mol/mol	-	-	-	-	5 sec.	
10PP04	F10518	FALL10518.B	Flow ratio steam/toc	0	100	mol/mol	1.63	-	-	-	5 sec.	
10PP04	F10518	FSL10518.B	Flow ratio steam/toc	0	100	mol/mol	-	-	-	-	5 sec.	
10PP04	F10518	FALL10518.C	Flow ratio steam/toc	0	100	mol/mol	1.63	-	-	-	5 sec.	
10PP04	F10518	FSL10518.C	Flow ratio steam/toc	0	100	mol/mol	-	-	-	-	5 sec.	
10PP04	H10521	HA10521					-	-	-	-		
10PP04	H10523	HA10524					-	-	-	-		
11PP01	A11001	AAH11001	Conductivityblowdown	0	150	µs/cm	-	-	50	-		
11PP04	B11001	BAL11001	Burner AL				-	Low	-	-		
11PP04	B11001	BSL11001	Burner AL				-	-	-	-		
11PP06	E11001	EALL11001	Fault CM1107				-	-	-	-		
11PP07	F11001	FAL11001				%	-	-	-	-		
11PP07	F11001	FALL11001		0	15000	kg/h	-	-	-	-		
11PP07	F11001	FAL11001.A	Com.air flow	0	15000	kg/h	-	6100	-	-		
11PP07	F11001	FALL11001.A	Com.air flow	0	15000	kg/h	6000	-	-	-	5 sec.	
11PP07	F11001	FSL11001.A	Com.air flow	0	15000	kg/h	-	-	-	-	5 sec.	
11PP07	F11001	FAL11001.B	Com.air flow	0	15000	kg/h	-	6100	-	-		
11PP07	F11001	FALL11001.B	Com.air flow	0	15000	kg/h	6000	-	-	-	5 sec.	
11PP07	F11001	FSL11001.B	Com.air flow	0	15000	kg/h	-	-	-	-	5 sec.	
11PP07	F11001	FAL11001.C	Com.air flow	0	15000	kg/h	-	6100	-	-		
11PP07	F11001	FALL11001.C	Com.air flow	0	15000	kg/h	6000	-	-	-	5 sec.	
11PP07	F11001	FSL11001.C	Com.air flow	0	15000	kg/h	-	-	-	-	5 sec.	
11PP01	L11001	LAH11001	Level control of D1131	0	100	%	-	-	70	-		
11PP01	L11001	LAL11001	Level control of D1132	0	100	%	-	50	-	-		
11PP01	T11001	TAH11001	REF gas temp. control E1122	0	600	°C	-	-	430	-		
11PP01	T11001	TAL11001	REF gas temp. control E1122	0	600	°C	-	390	-	-		
11PP05	U11001	UA11001	Remote lamp reformer start-up				-	-	-	-		
11PP02	Z11001	ZAH11001	IndicHV11001 open				-	-	-	-		
11PP02	Z11001	ZSH11001					-	-	-	-		
11PP04	B11002	BAL11002	Burner AL				-	Low	-	-		
11PP04	B11002	BSL11002	Burner AL				-	-	-	-		
11PP07	E11002	EAL11002	Fault CM1109				-	-	-	-		
11PP07	F11002	FAL11002	Comb. Air flow control	0	15000	kg/h	-	5500	-	-		
11PP01	H11002	HA11002.A	Override				-	-	-	-		
11PP01	H11002	HA11002.B	Override				-	-	-	-		
11PP01	H11002	HA11002.C	Override				-	-	-	-		
11PP01	L11002	LALL11002		0	100	%	50	-	-	-	2 sec.	
11PP01	L11002	LALL11002.A		0	100	%	50	-	-	-	2 sec.	
11PP01	L11002	LSL11002.A		0	100	%	-	-	-	-	2 sec.	
11PP01	L11002	LALL11002.B		0	100	%	50	-	-	-	2 sec.	
11PP01	L11002	LSL11002.B		0	100	%	-	-	-	-	2 sec.	
11PP01	L11002	LALL11002.C		0	100	%	50	-	-	-	2 sec.	
11PP01	L11002	LSL11002.C		0	100	%	-	-	-	-	2 sec.	
11PP02	T11002	TAH11002.C	LPG feed gas temp. R1105	0	600	°C	-	-	440	-		
11PP02	T11002	TAHH11002.C	LPG feed gas temp. R1105	0	600	°C	-	-	-	460		
11PP02	T11002	TAL11002.C	LPG feed gas temp. R1105	0	600	°C	-	370	-	-		
11PP02	T11002	TAH11002.D	NG feed gas temp. R1105	0	600	°C	-	-	530	-		
11PP02	T11002	TAHH11002.D	NG feed gas temp. R1105	0	600	°C	-	-	-	540		
11PP02	T11002	TAL11002.D	NG feed gas temp. R1105	0	600	°C	-	370	-	-		
11PP05	U11002	UA11002	Remote lamp normal operation				-	-	-	-		
11PP02	Z11002	ZAL11002	IndicXV11002 closed				-	-	-	-		
11PP02	Z11002	ZSL11002	IndicXV11002 closed				-	-	-	-		
11PP02	A11003	ADA11003				%	-	-	-	-		
11PP02	A11003	AAL11003	O2 conc. in flue gas	0	10	Vol%	-	1	-	-		
11PP02	A11003	AALL11003.A	O2 conc. in flue gas	0	10	Vol%	0.5	-	-	-		
11PP02	A11003	ASLL11003.A	O2 conc. in flue gas	0	10	Vol%	-	-	-	-		
11PP02	A11003	AALL11003.B	O2 conc. in flue gas	0	10	Vol%	0.5	-	-	-		

HyCO Alarm&Trip setting (Main Plant)

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PID	LOOP_NAME	Tag_number	Description	OVS RANGE							Delay	Effect
				MIN	MAX	UNIT	ALL	AL	AH	AHH		
11PP02	A11003	ASLL11003.B	O2 conc. in flue gas	0	10	Vol%	-	-	-	-		
11PP06	E11003	EL11003	Running CM1107				-	-	-	-		
11PP08	F11003	FAL11003	LPG fuel flow	0	800	kg/h	-	100	-	-		
11PP05	U11003	UA11003	Remote Ready for tightness test				-	-	-	-		
11PP04	B11004	BAL11004	Burner AL				-	-	-	-		
11PP04	B11004	BSL11004	Burner AL				-	-	-	-		
11PP07	E11004	EL11004	Running CM1109				-	-	-	-		
11PP08	F11004	FAL11004	NG fuel flow	0	800	kg/h	-	65	-	-		
11PP02	T11005	TAH11005.A	Temp. gradient R1105	0	600	°C	-	-	520	-		
11PP02	T11005	TAH11005.B	Temp. gradient R1105	0	600	°C	-	-	520	-		
11PP02	T11005	TAH11005.C	Temp. gradient R1105	0	600	°C	-	-	520	-		
11PP02	T11005	TAH11005.D	Temp. gradient R1105	0	600	°C	-	-	520	-		
11PP02	T11005	TAH11005.E	Temp. gradient R1105	0	600	°C	-	-	520	-		
11PP02	T11005	TAH11005.F	Temp. gradient R1105	0	600	°C	-	-	520	-		
11PP02	T11005	TAH11005.G	Temp. gradient R1105	0	600	°C	-	-	520	-		
11PP02	T11005	TAH11005.H	Temp. gradient R1105	0	600	°C	-	-	520	-		
11PP02	T11005	TAH11005.I	Temp. gradient R1105	0	600	°C	-	-	520	-		
11PP02	T11005	TAH11005.K	Temp. gradient R1105	0	600	°C	-	-	520	-		
11PP02	T11005	TAH11005.L	Temp. gradient R1105	0	600	°C	-	-	520	-		
11PP02	T11005	TAH11005.M	Temp. gradient R1105	0	600	°C	-	-	520	-		
11PP02	T11005	TAH11005.N	Temp. gradient R1105	0	600	°C	-	-	520	-		
11PP02	T11005	TAH11005.O	Temp. gradient R1105	0	600	°C	-	-	520	-		
11PP02	T11005	TAH11005.P	Temp. gradient R1105	0	600	°C	-	-	520	-		
11PP02	T11005	TAH11005.Q	Temp. gradient R1105	0	600	°C	-	-	520	-		
11PP02	T11005	TAH11005.R	Temp. gradient R1105	0	600	°C	-	-	520	-		
11PP02	T11005	TAH11005.S	Temp. gradient R1105	0	600	°C	-	-	520	-		
11PP02	T11005	TAH11005.T	Temp. gradient R1105	0	600	°C	-	-	520	-		
11PP05	U11005	UA11005	Remote lamp tightness test processing				-	-	-	-		
11PP01	Z11005	ZA11005	Calibr. AT11001				-	-	-	-		
11PP05	U11006	UL11006	Local lamp tightness test processing				-	-	-	-		
11PP06	E11007	EALL11007	Fault CM1107				-	-	-	-		
11PP05	P11007	PAH11007.A	Reformer boxpres.	-10	1	mbar	-	-	-0.5	-		
11PP05	P11007	PAL11007.A	Reformer boxpres.	-10	1	mbar	-	-3	-	-		
11PP05	P11007	PALL11007.A	Reformer boxpres.	-10	1	mbar	-5	-	-	-	30 sec.	
11PP05	P11007	PSLL11007.A	Reformer boxpres.	-10	1	mbar	-	-	-	-	30 sec.	
11PP05	P11007	PAH11007.B	Reformer boxpres.	-10	1	mbar	-	-	-0.5	-	30 sec.	
11PP05	P11007	PAL11007.B	Reformer boxpres.	-10	1	mbar	-	-3	-	-	30 sec.	
11PP05	P11007	PALL11007.B	Reformer boxpres.	-10	1	mbar	-5	-	-	-	30 sec.	
11PP05	P11007	PSLL11007.B	Reformer boxpres.	-10	1	mbar	-	-	-	-	30 sec.	
11PP05	P11007	PAH11007.C	Reformer boxpres.	-10	1	mbar	-	-	-0.5	-		
11PP05	P11007	PAL11007.C	Reformer boxpres.	-10	1	mbar	-	-3	-	-		
11PP05	P11007	PALL11007.C	Reformer boxpres.	-10	1	mbar	-5	-	-	-	30 sec.	
11PP05	P11007	PSLL11007.C	Reformer boxpres.	-10	1	mbar	-	-	-	-	30 sec.	
11PP05	P11007	PALL11007.D	Reformer boxpres.				-	-	-	0	30 sec.	
11PP05	P11007	PSLL11007.D	Reformer boxpres.				-	-	-	-	30 sec.	
11PP05	P11007	PALL11007.E	Reformer boxpres.				-	-	-	0	30 sec.	
11PP05	P11007	PSLL11007.E	Reformer boxpres.				-	-	-	-	30 sec.	
11PP05	P11007	PALL11007.F	Reformer boxpres.				-	-	-	0	30 sec.	
11PP05	P11007	PSLL11007.F	Reformer boxpres.				-	-	-	-	30 sec.	
11PP05	P11007	PALL11007.G	Reformer boxpres.				-	-	-	-	30 sec.	
11PP05	P11007	PAHH11007.G	Reformer boxpres.				-	-	-	-	30 sec.	
11PP05	U11007	UA11007	Remote lamp ready for ignition				-	-	-	-		
11PP07	E11008	EAL11008	Fault alarm				-	-	-	-		
11PP05	U11008	UL11008	Local lamp ready for ignition				-	-	-	-		
11PP05	P11009	PAH11009	Reformer boxpres. control	-10	1	mbar	-	-	-0.5	-		
11PP05	P11009	PDAH11009				%	-	-	-	-		
11PP05	P11009	PAL11009	Reformer boxpres. control	-10	1	mbar	-	-3	-	-		
11PP02	T11009	TAH11009	Feed gas temp.	0	800	°C	-	-	590	-		

BMStrip

HyCO Alarm&Trip setting (Main Plant)

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PID	LOOP_NAME	Tag_number	Description	OVS RANGE							Delay	Effect
				MIN	MAX	UNIT	ALL	AL	AH	AHH		
11PPF05	U11009	UA11009	Remote lamp ignition proceeding				-	-	-	-		
11PPF01	F11010	FAL11010	Blowdown sampling flow				-	30	-	-		
11PPF01	F11010	FSL11010	Blowdown sampling flow				-	-	-	-		
11PPF08	P11010	PDAL11010	LPG fuel pipe/ref box(igni)	0	250	mbar	-	-	200	-		
11PPF08	P11010	PDAL11010	LPG fuel pipe/ref box(igni)	0	250	mbar	-	100	-	-		
11PPF05	T11010	TDA11010				%	-	-	-	-		
11PPF05	T11010	TAH11010	Reformer outlet temp. control	700	1000	°C	-	-	880	-		
11PPF05	T11010	TAL11010	Reformer outlet temp. control	700	1000	°C	-	810	-	-		
11PPF05	U11010	UL11010	Local lamp ignition proceeding				-	-	-	-		
11PPF05	T11011	TAHH11011	Ref.gas temp.				-	-	-	-		
11PPF05	T11011	TAH11011.A	Ref.gas temp.	0	1000	°C	-	-	880	-		
11PPF05	T11011	TAHH11011.A	Ref.gas temp.	0	1000	°C	-	-	-	900	5 sec.	
11PPF05	T11011	TSHH11011.A	Ref.gas temp.	0	1000	°C	-	-	-	-	5 sec.	
11PPF05	T11011	TAH11011.B	Ref.gas temp.	700	1000	°C	-	-	880	-		
11PPF05	T11011	TAHH11011.B	Ref.gas temp.	700	1000	°C	-	-	-	900	5 sec.	BMS Trip
11PPF05	T11011	TSHH11011.B	Ref.gas temp.	700	1000	°C	-	-	-	-	5 sec.	
11PPF05	T11011	TAH11011.C	Ref.gas temp.	700	1000	°C	-	-	880	-		
11PPF05	T11011	TAHH11011.C	Ref.gas temp.	700	1000	°C	-	-	-	900	5 sec.	
11PPF05	T11011	TSHH11011.C	Ref.gas temp.	700	1000	°C	-	-	-	-	5 sec.	
11PPF02	U11011	UA11011.A	Fault O2 measurem.				-	-	-	-		
11PPF02	U11011	UA11011.B	Fault O2 measurem.				-	-	-	-		
11PPF06	H11012	HAAOTO11012	Remote/local indic. OM11007				-	-	-	-		
11PPF05	T11012	TAH11012.A	FLG Temp.2 stackdraft	0	1300	°C	-	-	1030	-		
11PPF05	T11012	TAH11012.B	FLG Temp.2 stackdraft	0	1300	°C	-	-	1030	-		
11PPF05	T11012	TAL11012.A	FLG Temp.2 stackdraft	0	1300	°C	-	750	-	-		
11PPF05	T11012	TAL11012.B	FLG Temp.2 stackdraft	0	1300	°C	-	750	-	-		
11PPF08	P11013	PAHH11013	Fuel gas pres.	0	1000	mbar g	-	-	-	160	5 sec.	
11PPF08	P11013	PAH11013.A	Fuel gas pres.	0	1000	mbar g	-	-	140	-		
11PPF08	P11013	PAHH11013.A	Fuel gas pres.	0	1000	mbar g	-	-	-	160	5 sec.	
11PPF08	P11013	PSHH11013.A	Fuel gas pres.	0	1000	mbar g	-	-	140	-	5 sec.	
11PPF08	P11013	PAH11013.B	Fuel gas pres.	0	1000	mbar g	-	-	-	160		
11PPF08	P11013	PAHH11013.B	Fuel gas pres.	0	1000	mbar g	-	-	140	-	5 sec.	
11PPF08	P11013	PSHH11013.B	Fuel gas pres.	0	1000	mbar g	-	-	-	-	5 sec.	
11PPF08	P11013	PAH11013.C	Fuel gas pres.	0	1000	mbar g	-	-	-	160		
11PPF08	P11013	PAHH11013.C	Fuel gas pres.	0	1000	mbar g	-	-	140	-	5 sec.	
11PPF08	P11013	PSHH11013.C	Fuel gas pres.	0	1000	mbar g	-	-	-	-	5 sec.	
11PPF08	P11014	PALL11014					-	-	-	-		
11PPF08	P11014	PALL11014.A	Fuel gas pipe/reformerbox	0	250	mbar	-	3.5	-	-		BMS Trip
11PPF08	P11014	PALL11014.A	Fuel gas pipe/reformerbox	0	250	mbar	2.5	-	-	-	5 sec.	
11PPF08	P11014	PSLL11014.A	Fuel gas pipe/reformerbox	0	250	mbar	2.5	-	-	-	5 sec.	
11PPF08	P11014	PALL11014.B	Fuel gas pipe/reformerbox	0	250	mbar	-	3.5	-	-		
11PPF08	P11014	PALL11014.B	Fuel gas pipe/reformerbox	0	250	mbar	2.5	-	-	-	5 sec.	
11PPF08	P11014	PSLL11014.B	Fuel gas pipe/reformerbox	0	250	mbar	2.5	-	-	-	5 sec.	
11PPF08	P11014	PALL11014.C	Fuel gas pipe/reformerbox	0	250	mbar	-	3.5	-	-		
11PPF08	P11014	PALL11014.C	Fuel gas pipe/reformerbox	0	250	mbar	2.5	-	-	-	5 sec.	
11PPF08	P11014	PSLL11014.C	Fuel gas pipe/reformerbox	0	250	mbar	2.5	-	-	-	5 sec.	
11PPF06	T11014	TAH11014	Comb. Air temp.	0	600	°C	-	-	420	-		
11PPF08	P11015	PAHH11015	Fuel gas pres.	0	1000	mbar g	-	-	-	500	5 sec.	
11PPF08	P11015	PSHH11016	Fuel gas pres.	0	1000	mbar g	-	-	-	-		
11PPF02	T11015	TAH11015	Fug temp. 3 chem. Draught	0	900	°C	-	-	760	-		
11PPF02	P11016	PAL11016	Inlet Press.Prereformer	0	60	barg	-	27	-	-		
11PPF08	P11017	PDAL11017	TOC Fuel Pipe/REF. Box(igni)	0	250	mbar g	-	-	200	-		
11PPF08	P11017	PDAL11017	TOC Fuel Pipe/REF. Box(igni)	0	250	mbar g	-	50	-	-		
11PPF07	H11018	HAAUTO11018	Auto Status indic. OM1109				-	-	-	-		
11PPF06	T11018	TAH11018	FUG TEMP. 5 CHIM.DRAUGHT	0	900	°C	-	-	650	-		
11PPF06	T11019	TAH11019	FUG OUT.TEMP. CHIM.DRAUGHT	0	200	°C	-	-	200	-		
11PPF06	T11019	TAL11019	FUG OUT.TEMP. CHIM.DRAUGHT	0	200	°C	-	110	-	-		
11PPF08	P11020	PAHH11020	LPG FUEL GAS PRES.	0	1000	mbar g	-	-	-	-		
11PPF08	P11020	PAH11020.A	LPG FUEL GAS PRES.	0	1000	mbar g	-	-	1900	-		
11PPF08	P11020	PAHH11020.A	LPG FUEL GAS PRES.	0	1000	mbar g	-	-	-	2100	5 sec.	

HyCO Alarm&Trip setting (Main Plant)

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PID	LOOP_NAME	Tag_number	Description	DVS RANGE							Delay	Effect
				MIN	MAX	UNIT	ALL	AL	AH	AHH		
11PPF08	P11020	PSHH11020.A	LPG FUEL GAS PRES.	0	1000	mbar g	-	-	-	-	5 sec.	BMS Trip
11PPF08	P11020	PAH11020.B	LPG FUEL GAS PRES.	0	1000	mbar g	-	-	1900	-		
11PPF08	P11020	PAHH11020.B	LPG FUEL GAS PRES.	0	1000	mbar g	-	-	-	2100	5 sec.	
11PPF08	P11020	PSHH11020.B	LPG FUEL GAS PRES.	0	1000	mbar g	-	-	-	-	5 sec.	
11PPF08	P11020	PAH11020.C	LPG FUEL GAS PRES.	0	1000	mbar g	-	-	1900	-		
11PPF08	P11020	PAHH11020.C	LPG FUEL GAS PRES.	0	1000	mbar g	-	-	-	2100	5 sec.	
11PPF08	P11020	PSHH11020.C	LPG FUEL GAS PRES.	0	1000	mbar g	-	-	-	-	5 sec.	
11PPF08	P11021	PDAL11021.A	LPG FUEL GAS PRES./REF. BOX	-50	250	mbar g	-	250	-	-		
11PPF08	P11020	PDALL11021.A	LPG FUEL GAS PRES./REF. BOX	-50	250	mbar g	-	-	-	-		
11PPF08	P11020	PDALL11021.A	LPG FUEL GAS PRES./REF. BOX	-50	250	mbar g	-	-	-	-		
11PPF08	P11020	PDALL11021.B	LPG FUEL GAS PRES./REF. BOX	-50	250	mbar g	-	250	-	-		
11PPF08	P11020	PDALL11021.B	LPG FUEL GAS PRES./REF. BOX	-50	250	mbar g	-	-	-	-		
11PPF08	P11020	PDALL11021.B	LPG FUEL GAS PRES./REF. BOX	-50	250	mbar g	-	-	-	-		
11PPF08	P11020	PDALL11021.C	LPG FUEL GAS PRES./REF. BOX	-50	250	mbar g	-	250	-	-		
11PPF08	P11020	PDALL11021.C	LPG FUEL GAS PRES./REF. BOX	-50	250	mbar g	-	-	-	-		
11PPF08	P11020	PDALL11021.C	LPG FUEL GAS PRES./REF. BOX	-50	250	mbar g	-	-	-	-		
11PPF01	T11024	TAHH11024	REF. GAS TEMP.	0	600	°C	-	-	-	440	5 sec.	
11PPF01	T11024	TSHH11024	REF. GAS TEMP.	0	600	°C	-	-	-	-	5 sec.	
11PPF02	H11027	HA11027					-	-	-	-		
11PPF01	P11027	PAL11027	Process Steam Pres. Control	0	60	barg	-	38	-	-		
11PPF02	P11028	PAH11028	Feed Gas Pres.	-60	60	barg	-	-	40	-		
11PPF02	T11028	TAHH11028.C	LPG FEED TEMP. CONTROL R1105	0	600	°C	-	-	-	460	5 sec.	
11PPF02	T11028	TSHH11028.C	LPG FEED TEMP. CONTROL R1105	0	600	°C	-	-	-	-	5 sec.	
11PPF02	T11028	TAHH11028.D	TOC FEED TEMP. CONTROL R1105	0	600	°C	-	-	-	540	5 sec.	
11PPF02	T11028	TSHH11028.D	TOC FEED TEMP. CONTROL R1105	0	600	°C	-	-	-	-	5 sec.	
11PPF09	P11029	PDAL11029	PRES. DROP FV11006	-50	250	mbar g	-	-5	-	-		
11PPF09	P11029	PSL11029	PRES. DROP FV11007	-50	250	mbar g	-	-	-	-		
11PPF02	H11031	HO11031	HV ON CONTROL				-	-	-	-		
11PPF05	H11034	HA11034	MAIN TRIP REMOTE				-	-	-	-		
11PPF05	H11035	HA11035	TRIP INDICATION				-	-	-	-		
11PPF05	H11036	HA11036	MAIN TRIP LOCAL				-	-	-	-		
11PPF08	H11041	HA11041					-	-	-	-		
11PPF08	H11043	HA11043					-	-	-	-		
11PPF05	H11057	HA11057	EMERGENCY SHUT DOWN				-	-	-	-		
11PPF02	T11505	TAH11505.A	Temp. gradient R1105 (For TOC)	0	600	°C	-	-	520	-		
11PPF02	T11505	TAH11505.B	Temp. gradient R1105 (For TOC)	0	600	°C	-	-	520	-		
11PPF02	T11505	TAH11505.C	Temp. gradient R1105 (For TOC)	0	600	°C	-	-	520	-		
11PPF02	T11505	TAH11505.D	Temp. gradient R1105 (For TOC)	0	600	°C	-	-	520	-		
11PPF02	T11505	TAH11505.E	Temp. gradient R1105 (For TOC)	0	600	°C	-	-	520	-		
11PPF02	T11505	TAH11505.F	Temp. gradient R1105 (For TOC)	0	600	°C	-	-	520	-		
11PPF02	T11505	TAH11505.G	Temp. gradient R1105 (For TOC)	0	600	°C	-	-	520	-		
11PPF02	T11505	TAH11505.H	Temp. gradient R1105 (For TOC)	0	600	°C	-	-	520	-		
11PPF02	T11505	TAH11505.I	Temp. gradient R1105 (For TOC)	0	600	°C	-	-	520	-		
11PPF02	T11505	TAH11505.J	Temp. gradient R1105 (For TOC)	0	600	°C	-	-	520	-		
11PPF02	T11505	TAH11505.K	Temp. gradient R1105 (For TOC)	0	600	°C	-	-	520	-		
11PPF02	T11505	TAH11505.L	Temp. gradient R1105 (For TOC)	0	600	°C	-	-	520	-		
11PPF02	T11505	TAH11505.M	Temp. gradient R1105 (For TOC)	0	600	°C	-	-	520	-		
11PPF02	T11505	TAH11505.N	Temp. gradient R1105 (For TOC)	0	600	°C	-	-	520	-		
11PPF02	T11505	TAH11505.O	Temp. gradient R1105 (For TOC)	0	600	°C	-	-	520	-		
11PPF02	T11505	TAH11505.P	Temp. gradient R1105 (For TOC)	0	600	°C	-	-	520	-		
11PPF02	T11505	TAH11505.Q	Temp. gradient R1105 (For TOC)	0	600	°C	-	-	520	-		
11PPF02	T11505	TAH11505.R	Temp. gradient R1105 (For TOC)	0	600	°C	-	-	520	-		
11PPF02	T11505	TAH11505.S	Temp. gradient R1105 (For TOC)	0	600	°C	-	-	520	-		
11PPF02	T11505	TAH11505.T	Temp. gradient R1105 (For TOC)	0	600	°C	-	-	520	-		
12PPF02	E12001	EL12001	Running ME1216.1				-	-	-	-		
12PPF02	P12001	PAH12001.A	REF. GAS INLET T1401	0	40	barg	-	-	34	-		
12PPF02	P12001	PAL12001.A	REF. GAS INLET T1401	0	40	barg	-	27	-	-		
14PPF02	T12001	TAH12001	REF. GAS INLET TEMP. OF E1412	0	300	°C	-	-	205	-		
14PPF02	T12001	TAL12001	REF. GAS INLET TEMP. OF E1412	0	300	°C	-	150	-	-		
12PPF02	E12002	EAL12002	Fault ME1216.1				-	-	-	-		

HyCO Alarm&Trip setting (Main Plant)

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PID	LOOP_NAME	Tag_number	Description	DVS RANGE							Delay	Effect
				MIN	MAX	UNIT	ALL	AL	AH	AHH		
12PPF01	L12002	LALL12002	Level of D1231	0	100	%	50	-	-	-	5 sec.	
12PPF01	L12002	LSLL12002	Level of D1231	0	100	%	50	-	-	-	5 sec.	
12PPF01	T12002	TAH12002	Outlet temp. of E1212	0	300	°C	-	-	250	-		
12PPF01	T12002	TAL12002	Outlet temp. of E1212	0	300	°C	-	150	-	-		
12PPF02	E12003	EL12003	Running ME1216.2				-	-	-	-		
12PPF01	L12003	LAH12003	Level Control of D1231	0	100	%	-	-	64	-		
12PPF01	L12003	LAL12003	Level Control of D1231	0	100	%	-	24	-	-		
12PPF02	T12003	TAH12003	REF. GAS INLET TEMP. OF D1232	0	120	°C	-	-	80	-		
12PPF02	E12004	EAL12004	Fault ME1216.2				-	-	-	-		
12PPF02	P12004	PDH12004	Pres. DROP OF XV12001	0	300	mbar g	-	-	120	-		
12PPF02	P12004	PDH12004	Pres. DROP OF XV12001	0	300	mbar g	-	-	-	200	5 sec.	
12PPF02	P12004	PDSH12004	Pres. DROP OF XV12001	0	300	mbar g	-	-	-	-	5 sec.	
12PPF02	L12005	LALL12005	Level of D1232	0	100	%	50	-	-	-	5 sec.	
12PPF02	L12005	LSLL12005	Level of D1232	0	100	%	50	-	-	-	5 sec.	
12PPF02	L12006	LAH12006	Level Control. Of D1232	0	100	%	-	-	64	-		
12PPF02	L12006	LAL12006	Level Control. Of D1232	0	100	%	-	44	-	-		
12PPF02	T12007	TAHH12007	REF. GAS OUTLET TEMP. OF D1232				-	-	-	-		
12PPF02	T12007	TAH12007.A	REF. GAS OUTLET TEMP. OF D1232	0	120	°C	-	-	65	-		
12PPF02	T12007	TAHH12007.A	REF. GAS OUTLET TEMP. OF D1232	0	120	°C	-	-	-	90	5 sec.	
12PPF02	T12007	TSHH12007.A	REF. GAS OUTLET TEMP. OF D1232	0	120	°C	-	-	-	-	5 sec.	
12PPF02	T12007	TAH12007.B	REF. GAS OUTLET TEMP. OF D1232	0	120	°C	-	-	65	-		
12PPF02	T12007	TAHH12007.B	REF. GAS OUTLET TEMP. OF D1232	0	120	°C	-	-	-	90	5 sec.	
12PPF02	T12007	TSHH12007.B	REF. GAS OUTLET TEMP. OF D1232	0	120	°C	-	-	-	-	5 sec.	
12PPF02	T12007	TAH12007.C	REF. GAS OUTLET TEMP. OF D1232	0	120	°C	-	-	65	-		
12PPF02	T12007	TAHH12007.C	REF. GAS OUTLET TEMP. OF D1232	0	120	°C	-	-	-	90	5 sec.	
12PPF02	T12007	TSHH12007.C	REF. GAS OUTLET TEMP. OF D1232	0	120	°C	-	-	-	-	5 sec.	
12PPF02	H12012	HAAUTO12012	AUTO Status Indic. ME1216A				-	-	-	-		
12PPF02	H12014	HAAUTO12014	AUTO Status Indic. ME1216B				-	-	-	-		
13PPF02	A13001	AAH13001	Demin. Water conductivity	0	2	µs/cm	-	-	0.9	-		
13PPF01	E13001	EAL13001	Fault PM1371A				-	L	-	-		
13PPF01	L13001	LAH13001	Level in D1332				-	-	50	-		
13PPF01	L13001	LSH13001	Level in D1333				-	-	-	-		
13PPF02	Z13001	ZA13001	Fault conductivity measurem.				-	-	-	-		
13PPF01	E13002	EL13002	Running PM1371A				-	-	-	-		
14PPF02	F13002	FAH13002	HP steam flow control	0	1200	kg/h	-	-	950	-		
13PPF01	H13002	HAAUTO13002	Remote/local indic. P1371A				-	-	-	-		
13PPF01	X13002	XS13002					-	-	-	-		
13PPF01	E13003	EAL13003	Fault PM1371B				-	L	-	-		
13PPF02	P13003	PAH13003	Peres. Control of D1331	0	600	mbar g	-	-	500	-		
13PPF01	P13003	PAL13004	Peres. Control of D1331	0	600	mbar g	-	200	-	-		
13PPF01	P13017	PAL13017	Press. Discharge PM1371A	0	60	barg	-	48	-	-		
13PPF01	P13018	PAL13018	Press. Discharge PM1371B	0	60	barg	-	48	-	-		
13PPF01	E13004	EL13004	Running PM1371B				-	-	-	-		
13PPF02	L13004	LALL13004	Level in D1331			%	40	-	-	-	1 min.	
13PPF02	L13004	LSLL13004	Level in D1331			%	-	-	-	-	1 min.	
13PPF01	E13005	EAL13005	Running PM1371B				-	-	-	-		
13PPF01	H13005	HAAUTO13005	Remote/local indic. P1371B				-	-	-	-		
13PPF02	L13005	LAH13005	Level control of D1331	0	100	%	-	-	80	-		
13PPF02	L13005	LAL13005	Level control of D1332	0	100	%	-	40	-	-		
13PPF03	T13005	TAL13005	HP-steam temp.	0	350	°C	-	240	-	-		
13PPF01	E13008	EAL13008	EMERGENCY Steam				-	-	-	-		
13PPF02	F13008	FAL13008	Demin water sampling flow			kg/h	-	30	-	-		
13PPF02	F13008	FSL13008	Demin water sampling flow			kg/h	-	-	-	-		
14PPF03	E14001	EL14001	Running PM1474A				-	-	-	-		
14PPF01	F14001	FAL14001	BFW flow to T1401	0	300	kg/h	-	180	-	-		
14PPF03	E14002	EAL14002	Fault PM1474A				-	L	-	-		
14PPF01	F14002	FAL14002	Lean MDEA flow	0	45000	kg/h	-	12000	-	-		
14PPF01	F14002	FALL14002	Lean MDEA flow	0	45000	kg/h	10000	-	-	-	5 sec.	- XV12001, Dose
14PPF01	F14002	FSLL14002	Lean MDEA flow	0	45000	kg/h	-	-	-	-	5 sec.	- P1474A/B, Stop
14PPF01	L14002	LALL14002.A	Level in T1401	0	100	%	27.5	-	-	-	5 sec.	

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PID	LOOP_NAME	Tag_number	Description	DVS RANGE							Delay	Effect
				MIN	MAX	UNIT	ALL	AL	AH	AHH		
14PP01	L14002	LSSL14002.A	Level in T1401	0	100	%	-	-	-	-	5 sec.	LV14003A/B, Dose
14PP01	L14002	LALL14002.B	Level in T1401	0	100	%	27.5	-	-	-	5 sec.	
14PP01	L14002	LSSL14002.B	Level in T1401	0	100	%	-	-	-	-	5 sec.	
14PP01	L14002	LALL14002.B	Level in T1401 (Input of LI14003)	0	100	%	27.5	-	-	-	5 sec.	
14PP01	L14002	LSSL14002.B	Level in T1401 (Input of LI14003)	0	100	%	-	-	-	-	5 sec.	
14PP03	E14003	EL14003	Running PM14748				-	-	-	-		
14PP01	L14003	LAH14003	Level control of T1401	0	100	%	-	-	72.5	-		
14PP01	L14003	LAL14003	Level control of T1402	0	100	%	-	27.5	-	-		
14PP01	P14003	PDAH14003	Pres. Drop of T1401	0	100	mbar g	-	-	60	-		
14PP03	E14004	EAL14004	Fault PM14748				-	L	-	-		
14PP03	H14004	HAAUTO14004	Remote/local indic. P1474A				-	-	-	-		
14PP02	L14004	LAH14004	Level in T1404	0	100	%	-	-	60.5	-		
14PP02	L14004	LAL14004	Level in T1405	0	100	%	-	24.5	-	-		
14PP01	P14004	PDAH14004	Pres. Drop of MDEA filters	0	4	bar	-	-	2.2	-		
14PP04	E14005	EL14005	Running PM1473A				-	-	-	-		
14PP02	L14005	LALL14005	Level in T1404	0	100	%	24.5	-	-	-	5 sec.	P1474A/B, Stop
14PP02	L14005	LALL14005.A	Level in T1404	0	100	%	24.5	-	-	-	5 sec.	
14PP02	L14005	LSSL14005.A	Level in T1404	0	100	%	-	-	-	-	5 sec.	
14PP02	L14005	LALL14005.B	Level in T1404	0	100	%	24.5	-	-	-	5 sec.	
14PP02	L14005	LSSL14005.B	Level in T1404	0	100	%	-	-	-	-	5 sec.	
14PP02	L14005	LALL14005.C	Level in T1404	0	100	%	24.5	-	-	-	5 sec.	
14PP02	L14005	LSSL14005.C	Level in T1404	0	100	%	-	-	-	-	5 sec.	
14PP04	E14006	EAL14006	Fault PM1473A				-	L	-	-		
14PP02	T14006	TAH14006	Temp. control of T1404	0	150	°C	-	-	130	-		
14PP02	T14006	TAL14006	Temp. control of T1404	0	150	°C	-	60	-	-		
14PP04	E14007	EL14007	Running PM1473B				-	-	-	-		
14PP03	H14007	HAAUTO14007	Remote/local indic. P1474A				-	-	-	-		
14PP04	E14008	EAL14008	Fault PM1473B				-	L	-	-		
14PP04	L14008	LAHH14008	High level AL of D1441	0	100	%	-	-	-	60		
14PP04	L14008	LSHH14008	High level AL of D1441	0	100	%	-	-	-	-		
14PP02	T14008	TAH14008	CO2 outlet temp. of T1404	0	150	°C	-	120	-	-		
14PP04	L14009	LALL14009	Low level AL of D1441	0	100	%	40	-	-	-		
14PP04	L14009	LSSL14009	Low level AL of D1442	0	100	%	-	-	-	-		
14PP02	P14009	PDAH14009	Pres. Drop of T1404	0	100	mbar	-	-	60	-		
14PP02	T14009	TAH14009	Ref. gas outlet temp. of E1412	0	250	°C	-	-	230	-		
14PP04	L14010	LAH14010	Level control of D1441	0	100	%	-	-	60	-		
14PP04	L14010	LAL14010	Level control of D1441	0	100	%	-	40	-	-		
99PP01	E14011	EL14011	Running CM1408A				-	-	-	-		
14PP04	H14011	HAAUTO140011	Remote/local indic. P1474A				-	-	-	-		
99PP01	E14012	EAL14012	Running CM1408B				-	-	-	-		
14PP05	T14012	TAH14012	Inlet temp. of C1408	0	120	°C	-	-	60	-		
99PP01	E14013	EL14013	Running CM1408B				-	-	-	-		
99PP01	E14014	EAL14014	Fault alarm CM14008B				-	L	-	-		
14PP04	H14014	HAAUTO140014	Remote/local indic. P1473B				-	-	-	-		
14PP05	P14015	PAH14015	Release CO2 pres. Control	0	1	bar g	-	-	0.7	-		
14PP05	P14015	PAL14015	Release CO2 pres. Control	0	1	bar g	-	0.3	-	-		
14PP05	P14020	PAH14020	CO2 COMP Suct. Press. CONTROL	0	1	bar g	-	-	0.7	-		
14PP05	P14020	PAL14020	CO2 COMP Suct. Press. CONTROL	0	1	bar g	-	0.3	-	-		
KR00-12-026	P14310	PAH14310	1 STG. SUC. GAS PRESS	0	6	bar g	-	0.3	-	-		
KR00-12-026	P14310	PAH14310	1 STG. SUC. GAS PRESS	0	6	bar g	0.001	-	-	-		
14PP03	T14021	TAH14021	MDEA outlet temp. of E1414	0	120	°C	-	-	60	-		
14PP04	T14022	TAH14022	QWR temp. of E1415	0	120	°C	-	-	60	-		
14PP01	H14025	HA14025	Override				-	-	-	-		
KR00-12-026	P14312	PAH14312	3 STG. DIS. GAS PRESS	0	60	bar g	-	-	43	-		
KR00-12-026	P14312	PAH14312	3 STG. DIS. GAS PRESS	0	60	bar g	-	-	-	46		
KR00-12-026	T14315	TAH14315	CO2 comp 1st stagedisch	0	200	°C	-	-	155	-		
KR00-12-026	T14315	TAHH14315	CO2 comp 1st stagedisch	0	200	°C	-	-	-	165		
KR00-12-026	T14317	TAH14317	CO2 comp 2nd stagedisch	0	200	°C	-	-	155	-		
KR00-12-026	T14317	TAHH14317	CO2 comp 2nd stagedisch	0	200	°C	-	-	-	165		
KR00-12-026	T14319	TAH14319	CO2 comp 3th stagedisch	0	200	°C	-	-	155	-		

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PID	LOOP_NAME	Tag_number	Description	DVS RANGE							Delay	Effect
				MIN	MAX	UNIT	ALL	AL	AH	AAH		
KR00-12-026	T14319	TAHH14319	CO2 comp 3th stagedisch	0	200	°C	-	-	-	165		
99PP01	H14031	HAAUTO140031	Auto status indic. CM1408A				-	-	-	-		
99PP01	H14035	HAAUTO140035	Auto status indic. CM1408B				-	-	-	-		
15PP02	F15001	FAH15001.A	SG inlet flow drying stat	0	9000	Nm3/h	-	-	8000	-		
15PP02	F15001	FAH15001.B	SG inlet flow drying stat	0	3500	kg/h	-	-	-	-		
15PP02	F15001	FAL15001.B	SG inlet flow drying stat	0	3500	kg/h	-	-	-	-		
15PP02	F15001	FAH15001.C	SG inlet flow drying stat	0	7500	Nm3/h	-	-	7000	-		
15PP02	F15001	FAL15001.C	SG inlet flow drying stat	0	7500	Nm3/h	-	3000	-	-		
15PP01	T15001	TAH15001	SG outlet temp. of D1531	0	100	°C	-	-	60	-		
15PP01	T15001	TAL15001	SG outlet temp. of D1531	0	100	°C	-	10	-	-		
15PP02	U15001	UA15001	Monitoring time expired				-	-	-	-		
15PP01	L15002	LAH15002	Level AL of D1531				-	-	H	-		
15PP01	L15002	LSH15002	Level AL of D1532				-	-	H	-		
15PP02	P15002	PDAH15002.A	Pressure diff. PI15004-PI15002				-	-	1	-		
15PP02	P15002	PDSH15002.A	Pressure diff. PI15004-PI15002				-	-	-	-		
15PP02	P15002	PDAH15002.A	Pressure diff. PI15004-PI15002				-	-	-	3	5 sec.	
15PP02	P15002	PDSH15002.A	Pressure diff. PI15004-PI15002				-	-	-	-	5 sec.	
15PP02	P15002	PDAH15002.B	Pressure diff. PI15002-PI15013				-	-	3	-		
15PP02	P15002	PDSH15002.B	Pressure diff. PI15002-PI15013				-	-	-	-		
15PP02	T15002	TAH15002	SG inlet temp. of A15001A	0	200	°C	-	-	50	-		
15PP02	T15002	TSH15002	SG inlet temp. of A15001A	0	200	°C	-	-	-	-		
15PP02	T15002	TAL15002	SG inlet temp. of A15001A	0	200	°C	-	120	-	-		
15PP02	T15002	TSL15002	SG inlet temp. of A15001A	0	200	°C	-	-	-	-		
15PP02	U15002	UA15002	ADS stop				-	-	-	-		
15PP02	F15003	FAL15003	H2 Reg. gas flow control	0	150	kg/h	-	13	-	-		
15PP02	T15003	TAH15003	SG outlet temp. of A1501A	0	200	°C	-	-	70	-		
15PP02	T15003	TSH15003	SG outlet temp. of A1501A	0	200	°C	-	-	-	-		
15PP02	T15003	TAL15003	SG outlet temp. of A1501A	0	200	°C	-	130	-	-		
15PP02	T15003	TSL15003	SG outlet temp. of A1501A	0	200	°C	-	-	-	-		
15PP02	P15004	PDAH15004.A	PRESSURE DIFF.PI15002-PI15004	0	10	bar	-	-	1	-		
15PP02	P15004	PDSH15004.A	PRESSURE DIFF.PI15002-PI15004	0	10	bar	-	-	-	-		
15PP02	P15004	PDAH15004.A	PRESSURE DIFF.PI15002-PI15004	0	10	bar	-	-	-	3	5 sec.	
15PP02	P15004	PDSH15004.A	PRESSURE DIFF.PI15002-PI15004	0	10	bar	-	-	-	-	5 sec.	
15PP02	P15004	PDAH15004.B	PRESSURE DIFF.PI15004-PI15013	0	10	bar	-	-	3	-		
15PP02	P15004	PDSH15004.B	PRESSURE DIFF.PI15004-PI15013	0	10	bar	-	-	-	-		
15PP02	T15004	TAH15004	SG INLET TEMP. of A1501B	0	200	°C	-	-	50	-		
15PP02	T15004	TSH15004	SG INLET TEMP. of A1501B	0	200	°C	-	-	-	-		
15PP02	T15004	TAL15004	SG INLET TEMP. of A1501B	0	200	°C	-	120	-	-		
15PP02	T15004	TSL15004	SG INLET TEMP. of A1501B	0	200	°C	-	-	-	-		
15PP03	F15005	FAL15005	Start- up N2 Flow	0	1300	Nm3/h	-	450	-	-		
15PP03	P15005	PDAH15005	PRES. DROP OF XV15002	0	1	bar	-	-	0.2	-		
15PP03	P15005	PDSH15005	PRES. DROP OF XV15002	0	1	bar	-	-	-	-		
15PP02	T15005	TAH15005	SG OUTLET TEMP. OF A1501B	0	200	°C	-	-	70	-		
15PP02	T15005	TSH15005	SG OUTLET TEMP. OF A1501B	0	200	°C	-	-	-	-		
15PP02	T15005	TAL15005	SG OUTLET TEMP. OF A1501B	0	200	°C	-	130	-	-		
15PP02	T15005	TSL15005	SG OUTLET TEMP. OF A1501B	0	200	°C	-	-	-	-		
15PP04	L15006	LAH15006	Level AL of D1541				-	-	-	50	5 sec	
15PP04	L15006	LSH15006	Level AL of D1542				-	-	-	-	5 sec	
15PP01	L15007	LAL15007	Switch alarm of D1531				35	-	-	-	5 sec	
15PP01	L15007	LSL15007	Switch alarm of D1531				-	-	-	-	5 sec	
15PP04	L15008	LAL15008	Switch alarm of D1541				35	-	-	-	5 sec	
15PP04	L15008	LSL15008	Switch alarm of D1541				-	-	-	-	5 sec	
15PP03	T15012	TAHH15012	SG OUTLET TEMP. OF E1526	0	60	°C	-	-	-	-	5 sec	
15PP03	T15012	TAH15012.A	SG OUTLET TEMP. OF E1526	0	60	°C	-	-	45	-		
15PP03	T15012	TAHH15012.A	SG OUTLET TEMP. OF E1526	0	60	°C	-	-	-	50	5 sec	
15PP03	T15012	TSHH15012.A	SG OUTLET TEMP. OF E1526	0	60	°C	-	-	-	-	5 sec	
15PP03	T15012	TAH15012.B	SG OUTLET TEMP. OF E1526	0	60	°C	-	-	45	-		
15PP03	T15012	TAHH15012.B	SG OUTLET TEMP. OF E1526	0	60	°C	-	-	-	50	5 sec	
15PP03	T15012	TSHH15012.B	SG OUTLET TEMP. OF E1526	0	60	°C	-	-	-	-	5 sec	
15PP03	T15012	TAH15012.C	SG OUTLET TEMP. OF E1526	0	60	°C	-	-	45	-		

- KV15010 and KV15011, Do
- XV15002, Dose

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PID	LOOP_NAME	Tag_number	Description	DVS RANGE							Delay	Effect
				MIN	MAX	UNIT	ALL	AL	AH	ASHI		
15PP03	T15012	TAHH15012.C	SG OUTLET TEMP .OF E1526	0	60	°C	-	-	-	50	5 sec	
15PP03	T15012	TSHH15012.C	SG OUTLET TEMP .OF E1526	0	60	°C	-	-	-	-	5 sec	
15PP04	T15014	TAH15014	REGEN.GAS INLET TEMP.OF D1541	0	150	°C	-	-	50	60		PN 18004 Close
16PP07	E16001	EL16001	QM 16008 RUNNING				-	-	-	-		
16PP03	L16001	LAH16001	LevelControl.T1601 (LV16001)	0	100	%	-	-	60	-		
16PP03	L16001	LAL16001	LevelControl.T1601 (LV16001)	0	100	%	-	40	-	-		
16PP03	P16001	PDAH16001	PRES.DROP OF T1601	0	400	mbar	-	-	280	-		
16PP07	E16002	EAL16002	FAULT QM1608				-	-	-	-		
16PP03	L16002	LAH16002	LEVEL CONTROL.T1601 (LV16002)	0	100	%	-	-	60	-		
16PP03	L16002	LAL16002	LEVEL CONTROL.T1601 (LV16002)	0	100	%	-	40	-	-		
16PP04	P16002	PDAH16002	PRES.DROP OF T1602	0	100	mbar	-	-	50	-		
16PP06	E16003	EAL16003	FAULT PM1671A				-	-	-	-		
16PP03	F16003	FAL16003	GH4 WASH FLOW CONTROL.T1601	0	1300	kg/h	-	450	-	-		
16PP04	L16003	LAH16003	LEVEL CONTROL.OF T1602	0	100	%	-	-	60	-		
16PP04	L16003	LAL16003	LEVEL CONTROL.OF T1602	0	100	%	-	40	-	-		
16PP04	P16003	PAH16003	TAIL GAS PRES. CONTROL	0	12	Bar	-	-	8.5	-		
16PP04	P16003	PAL16003	TAIL GAS PRES. CONTROL	0	12	Bar	-	6	-	-		
16PP06	E16004	EL16004	RUNNING PM1671A				-	-	-	-		
16PP10	P16004	PAH16004.A	TAIL GAS FLARE PRES.CONTROL	0	1	Bar	-	-	0.8	-		
16PP06	E16005	EAL16005	FAULT PM1671B				-	-	-	-		
16PP05	L16005	LDA16005	LEVEL CONTROL.OF T1603				-	8	-	-		
16PP05	L16005	LAL16005	LEVEL CONTROL.OF T1603	0	100	%	-	25	-	-		
16PP05	L16005	LALL16005	LEVEL CONTROL.OF T1603	0	100	%	5	-	-	-	5 sec	
16PP05	L16005	LAL16005.A	LEVEL CONTROL.OF T1603	0	100	%	-	25	-	-		
16PP05	L16005	LALL16005.A	LEVEL CONTROL.OF T1603	0	100	%	5	-	-	-	5 sec	
16PP05	L16005	LSL16005.A	LEVEL CONTROL.OF T1603	0	100	%	-	-	-	-	5 sec	
16PP05	L16005	LAL16005.B	LEVEL CONTROL.OF T1603	0	100	%	-	25	-	-		
16PP05	L16005	LALL16005.B	LEVEL CONTROL.OF T1603	0	100	%	5	-	-	-	5 sec	
16PP05	L16005	LSL16005.B	LEVEL CONTROL.OF T1603	0	100	%	-	-	-	-	5 sec	
16PP05	L16005	LAL16005.C	LEVEL CONTROL.OF T1603	0	100	%	-	25	-	-		
16PP05	L16005	LALL16005.C	LEVEL CONTROL.OF T1603	0	100	%	5	-	-	-	5 sec	
16PP05	L16005	LSL16005.C	LEVEL CONTROL.OF T1603	0	100	%	-	-	-	-	5 sec	
16PP05	P16005	PDAH16005	PRES.DROP OF T1603	0	250	mbar	-	-	210	-		
16PP06	E16006	EL16006	RUNNING PM1671B				-	-	-	-		
16PP03	L16006	LAH16006	LEVEL D1633	0	100	%	-	-	95	-		
16PP03	L16006	LAL16006	LEVEL D1633	0	100	%	-	85	-	-		
98PP02	A16009	AAH16009	GH4 ANALYZER	0	200	ppm	-	-	7,8,9	-		
98PP02	A16009	AAHH16009	GH4 ANALYZER	0	200	ppm	-	-	-	10		
98PP02	A16009	ASHH16009	GH4 ANALYZER	0	200	ppm	-	-	-	-		PN16020 Close
98PP02	A16010	AAH16010	H2 ANALYZER	0	3000	ppm	-	-	1500	-		
98PP02	A16010	AAHH16010	H2 ANALYZER	0	3000	ppm	-	-	-	2000		
98PP02	A16010	ASHH16010	H2 ANALYZER	0	3000	ppm	-	-	-	-		PN16020 Close
16PP01	SI6101	SI6101	X1606 SPEED			Hz	390	-	-	-		
16PP02	SI6101	PDH16101	X1606			bar			1.5	2.5		
98PP02	A16011	AAL16011	CO purity ANALYZER	0	100	%	-	97.8	-	-		
98PP02	A16011	ASLL16011	CO purity ANALYZER	0	100	%	97.62	-	-	-		
98PP02	A16011	AALL16011	CO purity ANALYZER	0	100	%	-	-	-	-		PN16020 Close
98PP02	A16013	AAH16013	GH4 ANALYZER	0	100	ppm	-	-	9	-		
98PP02	A16013	AAHH16013	GH4 ANALYZER	0	100	ppm	-	-	-	10		
98PP02	A16013	ASHH16013	GH4 ANALYZER	0	100	%	-	-	-	-		PN16020 Close
99PP01	E16010	EL16010	RUNNING QM1608A				-	-	-	-		
99PP01	E16011	EAL16011	FAULT QM1608A				-	-	-	-		
16PP05	F16011	FAL16011	N2 PURGING OF COLD BOX INSUL.				-	10	-	-		
16PP05	F16011	FSL16011	N2 PURGING OF COLD BOX INSUL.				-	-	-	-		
99PP01	E16012	EL16012	RUNNING QM1608B				-	-	-	-		
16PP10	T16012	TALL16012	H2 fraction temp.				-	-	-	-	5 sec	
16PP10	T16012	TAL16012.A	H2 fraction temp.	0	60	°C	-	20	-	-		

HyCO Alarm&Trip setting (Main Plant)

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PID	LOOP_NAME	Tag_number	Description	DVS RANGE							Delay	Effect
				MIN	MAX	UNIT	ALL	AL	AH	AHH		
16PPF10	T16012	TALL16012.A	H2 fraction temp.	0	60	°C	10	-	-	-	5 sec	- P1671A/B, Stop - KV15015 and KV15017, Dos
16PPF10	T16012	TSLL16012.A	H2 fraction temp.	0	60	°C	-	-	-	-	5 sec	
16PPF10	T16012	TAH16012.A	H2 fraction temp.	0	60	°C	-	-	50	-		
16PPF10	T16012	TAL16012.B	H2 fraction temp.	0	60	°C	-	20	-	-		
16PPF10	T16012	TALL16012.B	H2 fraction temp.	0	60	°C	10	-	-	-	5 sec	- P1671A/B, Stop - KV15015 and KV15017, Dos
16PPF10	T16012	TSLL16012.B	H2 fraction temp.	0	60	°C	-	-	-	-	5 sec	
16PPF10	T16012	TAH16012.B	H2 fraction temp.	0	60	°C	-	-	50	-		
16PPF10	T16012	TAL16012.C	H2 fraction temp.	0	60	°C	-	20	-	-		
16PPF10	T16012	TALL16012.C	H2 fraction temp.	0	60	°C	10	-	-	-	5 sec	- P1671A/B, Stop - KV15015 and KV15017, Dos
16PPF10	T16012	TSLL16012.C	H2 fraction temp.	0	60	°C	-	-	-	-	5 sec	
16PPF10	T16012	TAH16012.C	H2 fraction temp.	0	60	°C	-	-	50	-		
99PPF01	E16013	EAL16013	FAULT CM1608B				-	-	-	-		
16PPF05	F16013	FAL16013	N2 PURGING OF COLD BOX INSUL.				-	10	-	-		
16PPF05	F16013	FSL16013	N2 PURGING OF COLD BOX INSUL.				-	-	-	-		
99PPF01	E16014	EL16014	RUNNING CM1608B				-	-	-	-		
99PPF01	E16015	EAL16015	FAULT CM1608C				-	-	-	-		
16PPF10	T16016	TALL16016	Tail gas temp.				-	-	-	-		
16PPF10	T16016	TAL16016.A	Tail gas temp.	-20	60	°C	-	10	-	-		
16PPF10	T16016	TALL16016.A	Tail gas temp.	-20	60	°C	-10	-	-	-	5 sec	HN16003 and PN16003, Dos
16PPF10	T16016	TSLL16016.A	Tail gas temp.	-20	60	°C	-	-	-	-	5 sec	
16PPF10	T16016	TAL16016.B	Tail gas temp.	-20	60	°C	-	10	-	-		
16PPF10	T16016	TALL16016.B	Tail gas temp.	-20	60	°C	-10	-	-	-	5 sec	HN16003 and PN16003, Dos
16PPF10	T16016	TSLL16016.B	Tail gas temp.	-20	60	°C	-	-	-	-	5 sec	
16PPF10	T16016	TAL16016.C	Tail gas temp.	-20	60	°C	-	10	-	-		
16PPF10	T16016	TALL16016.C	Tail gas temp.	-20	60	°C	-10	-	-	-	5 sec	HN16003 and PN16003, Dos
16PPF10	T16016	TSLL16016.C	Tail gas temp.	-20	60	°C	-	-	-	-	5 sec	
16PPF07	T16024	TALL16024	CO temp. suction side C1608				-	-	-	-	5 sec	
16PPF07	T16024	TAL16016.A	CO temp. suction side C1608	-20	60	°C	-	10	-	-		
16PPF07	T16024	TALL16016.A	CO temp. suction side C1608	-20	60	°C	-10	-	-	-	5 sec	
16PPF07	T16024	TSLL16016.A	CO temp. suction side C1608	-20	60	°C	-	-	-	-	5 sec	
16PPF07	T16024	TAL16016.B	CO temp. suction side C1608	-20	60	°C	-	10	-	-		
16PPF07	T16024	TALL16016.B	CO temp. suction side C1608	-20	60	°C	-10	-	-	-	5 sec	
16PPF07	T16024	TSLL16016.B	CO temp. suction side C1608	-20	60	°C	-	-	-	-	5 sec	
16PPF07	T16024	TAL16016.C	CO temp. suction side C1608	-20	60	°C	-	10	-	-		
16PPF07	T16024	TALL16016.C	CO temp. suction side C1608	-20	60	°C	-10	-	-	-	5 sec	
16PPF07	T16024	TSLL16016.C	CO temp. suction side C1608	-20	60	°C	-	-	-	-	5 sec	
16PPF05	T16023	TSLL16023	T1603 - TOP COL. TEMP.	-200	50	°C	-	-183	-	-		
16PPF05	P16026	PAH16026	Pres. AL of cold boxinsul.			mbar g	-	-	5	-		
16PPF05	P16026	PSH16026	Pres. AL of cold boxinsul.			mbar g	-	-	-	-		
16PPF05	P16027	PAL16027	Pres. AL of cold boxinsul.			mbar g	-	0	-	-		
16PPF05	P16027	PSL16027	Pres. AL of cold boxinsul.			mbar g	-	-	-	-		
16PPF02	T16031	TAL16031	Tail gas inlet temp. Of E1611	-200	50	°C	-	-170	-	-		
16PPF10	P16033	PAH16033	LP CO FLARE PRES. CONTROL	0	3	Bar	-	-	2.9	-		
16PPF02	T16032	TAL16032	CO inlet temp. of E1611	-200	50	°C	-	-170	-	-		
16PPF07	T16035	TAH16035	CO outlet temp. C1608	0	60	°C	-	-	50	-		
16PPF08	T16040	TAHH16040	Outlet temp. 4th stage C1608				-	-	-	-	5 sec	
16PPF08	T16040	TAH16040.A	Outlet temp. 4th stage C1608	0	60	°C	-	-	45	-		
16PPF08	T16040	TAHH16040.A	Outlet temp. 4th stage C1608	0	60	°C	-	-	-	50	5 sec	
16PPF08	T16040	TSHH16040.A	Outlet temp. 4th stage C1608	0	60	°C	-	-	-	-	5 sec	
16PPF08	T16040	TAH16040.A	Outlet temp. 4th stage C1608	0	60	°C	-	-	45	-		
16PPF08	T16040	TAHH16040.A	Outlet temp. 4th stage C1608	0	60	°C	-	-	-	50	5 sec	
16PPF08	T16040	TSHH16040.A	Outlet temp. 4th stage C1608	0	60	°C	-	-	-	-	5 sec	
16PPF08	T16040	TAH16040.A	Outlet temp. 4th stage C1608	0	60	°C	-	-	45	-		
16PPF08	T16040	TAHH16040.A	Outlet temp. 4th stage C1608	0	60	°C	-	-	-	50	5 sec	
16PPF08	T16040	TSHH16040.A	Outlet temp. 4th stage C1608	0	60	°C	-	-	-	-	5 sec	
16PPF06	H16041	HAAUTO16041	Remote/local indic. P1671A				-	-	-	-		
16PPF06	H16043	HAAUTO16043	Remote/local indic. P1671A				-	-	-	-		

HyCO Alarm&Trip setting (Main Plant)

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PID	LOOP_NAME	Tag_number	Description	DVS RANGE							Delay	Effect
				MIN	MAX	UNIT	ALL	AL	AH	AHH		
16PPF02	T16047	TAH16047	H2 Outlet temp.E1612	-150	-130	°C	-	-	-130	-		
16PPF02	T16047	TAL16047	H2 Outlet temp.E1613	-150	-130	°C	-	-150	-	-		
16PPF09	T16050	TALL16050	Temp.of CO Export from D1633				-	-	-	-	5 sec	
16PPF09	T16050	TAL16050.A	Temp.of CO Export from D1633	-20	60	°C	-	10	-	-		
16PPF09	T16050	TALL16050.A	Temp.of CO Export from D1633	-20	60	°C	-10	-	-	-	5 sec	
16PPF09	T16050	TSL16050.A	Temp.of CO Export from D1633	-20	60	°C	-	-	-	-	5 sec	
16PPF09	T16050	TAL16050.B	Temp.of CO Export from D1633	-20	60	°C	-	10	-	-		
16PPF09	T16050	TALL16050.B	Temp.of CO Export from D1633	-20	60	°C	-10	-	-	-	5 sec	
16PPF09	T16050	TSL16050.B	Temp.of CO Export from D1633	-20	60	°C	-	-	-	-	5 sec	
16PPF09	T16050	TAL16050.C	Temp.of CO Export from D1633	-20	60	°C	-	10	-	-		
16PPF09	T16050	TALL16050.C	Temp.of CO Export from D1633	-20	60	°C	-10	-	-	-	5 sec	
16PPF09	T16050	TSL16050.C	Temp.of CO Export from D1633	-20	60	°C	-	-	-	-	5 sec	
16PPF10	T16059	TALL16059	CO Product Temp.				-	-	-	-	5 sec	
16PPF10	T16059	TAL16059.A	CO Product Temp.	-20	60	°C	-	10	-	-		
16PPF10	T16059	TALL16059.A	CO Product Temp.	-20	60	°C	-10	-	-	-	5 sec	
16PPF10	T16059	TSL16059.A	CO Product Temp.	-20	60	°C	-	-	-	-	5 sec	
16PPF10	T16059	TAL16059.B	CO Product Temp.	-20	60	°C	-	10	-	-		
16PPF10	T16059	TALL16059.B	CO Product Temp.	-20	60	°C	-10	-	-	-	5 sec	
16PPF10	T16059	TSL16059.B	CO Product Temp.	-20	60	°C	-	-	-	-	5 sec	
16PPF10	T16059	TAL16059.C	CO Product Temp.	-20	60	°C	-	10	-	-		
16PPF10	T16059	TALL16059.C	CO Product Temp.	-20	60	°C	-10	-	-	-	5 sec	
16PPF10	T16059	TSL16059.C	CO Product Temp.	-20	60	°C	-	-	-	-	5 sec	
99PPF01	H16062	HAAUTO16062	Remote/local indic. CM1608A				-	-	-	-		
16PPF06	T16063	TAL16063	N2 coupling purging of P1671A	0	60	°C	-	10	-	-		
16PPF06	T16064	TAL16064	N2 coupling purging of P1671B	0	60	°C	-	10	-	-		
99PPF01	H16066	HAAUTO16066	Remote/local indic. CM1608B				-	-	-	-		
99PPF01	H16070	HAAUTO16070	Remote/local indic. CM1608C				-	-	-	-		
16PPF09	P16109	PALL16109	Pres. Of CO Export from D1633	0	16	bar g	7	-	-	-		
16PPF09	P16109	PAL16109	Pres. Of CO Export from D1633	0	16	bar g	-	12.8	-	-		
16PPF09	P16109	PAH16109	Pres. Of CO Export from D1633	0	16	bar g	-	-	13.5	-		
16PPF01	P16104	PDAH16104	Break Pres. Diff	0	15	bar g	-	-	9.5			
16PPF02	P16105	PDAH16104	Break Pres. Diff	0	15	bar g	-	-	-	10.05		
16PPF08	P16500A	PAH	C1608 DISCH. PRESS. 4TH STAGE	0	50	bar g	-	-	27.5	-		
16PPF08	P16500A	PAHH	C1608 DISCH. PRESS. 4TH STAGE	0	50	bar g	-	-	-	29		
16PPF08	P16500B	PAH	C1608 DISCH. PRESS. 4TH STAGE	0	50	bar g	-	-	27.5	-		
16PPF08	P16500B	PAHH	C1608 DISCH. PRESS. 4TH STAGE	0	50	bar g	-	-	-	29		
16PPF08	P16500C	PAH	C1608 DISCH. PRESS. 4TH STAGE	0	50	bar g	-	-	27.5	-		
16PPF08	P16500C	PAHH	C1608 DISCH. PRESS. 4TH STAGE	0	50	bar g	-	-	-	29		
18PPF01	P18001	PAL18001	PSA feed pres.	0	40	bar g	-	27	-	-		
18PPF01	T18001	TAH18001	PSA feed temp.	0	60	°C	-	-	45	-		
18PPF01	T18001	TSHH18001	PSA feed temp.	0	60	°C	-	-	-	-		
18PPF01	A18015	AAH	CO analyzer in H2 product	0	50	ppm	-	-	0.5	-		
18PPF01	A18015	AAHH	CO analyzer in H2 product	0	50	ppm	-	-	-	1		PN18002A Close
18PPF01	A18016	AAH	CH4 analyzer in H2 product	0	50	ppm	-	-	5	-		
18PPF01	A18016	AAHH	CH4 analyzer in H2 product	0	50	ppm	-	-	-	10		PN18002A Close
18PPF01	X18001	XAL18001	Status PSA S/D logic				-	-	-	-		
18PPF01	F18002	FAL18002	PSA N2 purging flow AL			kg/h	-	0.7	-	-		
18PPF01	F18002	FSL18002	PSA N2 purging flow AL			kg/h	-	-	-	-		
18PPF01	P18003	PAH18003	Purge gas to flare pres. Control	0	1.2	bar g	-	-	0.8	-		
89PPF01	A89001	AAH89001.A	GAS DETECT. (BUT. H2) C1 408				-	-	H	-		
89PPF01	A89001	ASH89001.A	GAS DETECT. (BUT. H2) C1 408				-	-	-	H		
89PPF01	A89001	AAHH89001.B	GAS DETECT. (BUT. H2) C1 408				-	-	-	HH		
89PPF01	A89001	ASHH89001.B	GAS DETECT. (BUT. H2) C1 408				-	-	-	HH		
89PPF01	U89001	UA89001	GAS DETECT. (BUT. H2) C1 408				-	-	-	-		
89PPF01	A89002	AAL89002	GAS DETECT. (O2) C1 408				-	L	-	-		
89PPF01	A89002	ASL89002	GAS DETECT. (O2) C1 408				-	L	-	-		
89PPF01	U89002	UA89002	GAS DETECT. (O2) C1 408				-	-	-	-		
89PPF01	A89003	AAHH89003	GAS DETECT.(CO)MDEA REGEN.				-	-	-	HH		
89PPF01	A89003	ASHH89003	GAS DETECT.(CO)MDEA REGEN.				-	-	-	HH		
89PPF01	U89003	UA89003	GAS DETECT.(CO)MDEA REGEN.				-	-	-	-		

HyCO Alarm&Trip setting (Main Plant)

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PID	LOOP_NAME	Tag_number	Description	DVS RANGE							Delay	Effect
				MIN	MAX	UNIT	ALL	AL	AH	ASH		
89FPF01	A89004	AAH89004	GAS DETECT.(BUT., H2) R1001				-	-	H	-		
89FPF01	A89004	ASHH89004	GAS DETECT.(BUT., H2) R1001				-	-	-	HH		
89FPF01	U89004	UA89004	GAS DETECT.(BUT., H2) R1001				-	-	-	-		
89FPF01	A89005	AAH89005	GAS DETECT.(CO) D1331				-	-	-	HH		
89FPF01	A89005	ASHH89005	GAS DETECT.(CO) D1331				-	-	-	HH		
89FPF01	U89005	UA89005	GAS DETECT.(CO) D1331				-	-	-	-		
89FPF01	A89006	AAH89006	GAS DETECT.(CO) FURNACE				-	-	-	HH		
89FPF01	A89006	ASHH89006	GAS DETECT.(CO) FURNACE				-	-	-	HH		
89FPF01	U89006	UA89006	GAS DETECT.(CO) FURNACE				-	-	-	-		
89FPF01	A89007	AAH89007	GAS DETECT.(BUT., H2) FURNACE				-	-	-	HH		
89FPF01	A89007	ASHH89007	GAS DETECT.(BUT., H2) FURNACE				-	-	-	HH		
89FPF01	U89007	UA89007	GAS DETECT.(BUT., H2) FURNACE				-	-	-	-		
89FPF01	A89008	AAH89008.A	GAS DETECT.(H2) CONT.				-	-	H	-		
89FPF01	A89008	ASHH89008.A	GAS DETECT.(H2) CONT.				-	-	H	-		
89FPF01	A89008	AAH89008.B	GAS DETECT.(H2) CONT.				-	-	-	HH		
89FPF01	A89008	ASHH89008.B	GAS DETECT.(H2) CONT.				-	-	-	HH		
89FPF01	U89008	UA89008	GAS DETECT.(H2) CONT.				-	-	-	-		
89FPF01	A89009	AAH89009.A	GAS DETECT.(CO) CONT.				-	-	H	-		
89FPF01	A89009	ASHH89009.A	GAS DETECT.(CO) CONT.				-	-	H	-		
89FPF01	A89009	AAH89009.B	GAS DETECT.(CO) CONT.				-	-	-	HH		
89FPF01	A89009	ASHH89009.B	GAS DETECT.(CO) CONT.				-	-	-	HH		
89FPF01	U89009	UA89009	GAS DETECT.(CO) CONT.				-	-	-	-		
89FPF01	A89010	AAH89010.A	GAS DETECT.(BUT., H2) CONT.				-	-	H	-		
89FPF01	A89010	ASHH89010.A	GAS DETECT.(BUT., H2) CONT.				-	-	-	HH		
89FPF01	A89010	AAH89010.B	GAS DETECT.(BUT., H2) CONT.				-	-	-	HH		
89FPF01	A89010	ASHH89010.B	GAS DETECT.(BUT., H2) CONT.				-	-	-	HH		
99FPF02	U89010	UAL89010	SYSTEM FAULT HYCO-C-GD01				-	-	-	-		
99FPF02	U89010	USL89010	SYSTEM FAULT HYCO-C-GD01				-	-	-	-		
89FPF01	A89011	AAL89011	GAS DETECT.(O2) CONT.				-	L	-	-		
89FPF01	A89011	ASL89011	GAS DETECT.(O2) CONT.				-	-	-	HH		
89FPF01	A89012	AAH89012	GAS DETECT.(H2) PSA UNIT				-	-	-	HH		
89FPF01	A89012	ASHH89012	GAS DETECT.(H2) PSA UNIT				-	-	-	HH		
89FPF01	A89013	AAH89013	GAS DETECT.(H2) PSA UNIT				-	-	-	HH		
89FPF01	A89013	ASHH89013	GAS DETECT.(H2) PSA UNIT				-	-	-	HH		
89FPF01	A89014	AAH89014	GAS DETECT.(H2) H2 RECYCLE				-	-	-	HH		
89FPF01	A89014	ASHH89014	GAS DETECT.(H2) H2 RECYCLE				-	-	-	HH		
89FPF01	A89015	AAH89015	GAS DETECT.(H2) H2 RECYCLE				-	-	-	HH		
89FPF01	A89015	ASHH89015	GAS DETECT.(H2) H2 RECYCLE				-	-	-	HH		
89FPF01	A89016	AAH89016	GAS DETECT.(CO) DRYING STAT.				-	-	-	HH		
89FPF01	A89016	ASHH89016	GAS DETECT.(CO) DRYING STAT.				-	-	-	HH		
89FPF01	A89017	AAH89017	GAS DETECT.(H2) DRYING STAT.				-	-	-	HH		
89FPF01	A89017	ASHH89017	GAS DETECT.(H2) DRYING STAT.				-	-	-	HH		
89FPF01	A89018	AAH89018	GAS DETECT.(CH4) P1671A				-	-	-	HH		
89FPF01	A89018	ASHH89018	GAS DETECT.(CH4) P1671A				-	-	-	HH		
89FPF01	A89019	AAH89019	GAS DETECT.(CH4) P1671B				-	-	-	HH		
89FPF01	A89019	ASHH89019	GAS DETECT.(CH4) P1671B				-	-	-	HH		
89FPF01	A89020	AAH89020	GAS DETECT.(CO) COLD BOX				-	-	-	HH		
89FPF01	A89020	ASHH89020	GAS DETECT.(CO) COLD BOX				-	-	-	HH		
89FPF01	A89021	AAH89021	GAS DETECT.(H2) COLD BOX				-	-	-	HH		
89FPF01	A89021	ASHH89021	GAS DETECT.(H2) COLD BOX				-	-	-	HH		
89FPF01	A89022	AAH89022.A	GAS DETECT.(CO) C1606				-	-	H	-		
89FPF01	A89022	ASHH89022.A	GAS DETECT.(CO) C1606				-	-	-	HH		
89FPF01	A89022	AAH89022.B	GAS DETECT.(CO) C1606				-	-	-	HH		
89FPF01	A89022	ASHH89022.B	GAS DETECT.(CO) C1606				-	-	-	HH		
89FPF01	A89023	AAH89023.A	GAS DETECT.(CO) C1608				-	-	H	-		
89FPF01	A89023	ASHH89023.A	GAS DETECT.(CO) C1608				-	-	H	-		
89FPF01	A89023	AAH89023.B	GAS DETECT.(CO) C1608				-	-	-	HH		
89FPF01	A89023	ASHH89023.B	GAS DETECT.(CO) C1608				-	-	-	HH		
89FPF01	A89024	AAH89024	GAS DETECT.(CO) CO COMPR.				-	-	-	HH		
89FPF01	A89024	ASHH89024	GAS DETECT.(CO) CO COMPR.				-	-	-	HH		

HyCO Alarm&Trip setting (Main Plant)

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PID	LOOP_NAME	Tag_number	Description	DVS RANGE							Delay	Effect
				MIN	MAX	UNIT	ALL	AL	AH	ASHI		
89FPF01	A89025	AAHH89025	GAS DETECT.(CO)CO EXPANDER				-	-	-	HH		
89FPF01	A89025	ASHH89025	GAS DETECT.(CO)CO EXPANDER				-	-	-	HH		
89FPF01	A89028	ASHH89028	GAS DETECT.(CO2)CO2 COMPR.				-	-	0.5	1.5		UA89000_Y/UA89000_R
89FPF01	A89029	ASHH89029	GAS DETECT.(CO2)CO2 COMPR.				-	-	0.5	1.5		UA89000_Y/UA89000_R
90FPF01	F90001	FAL90001	WARM FLARE GAS HEAD.PURG.AL				-	25	-	-		
90FPF01	F90001	FSL90001	WARM FLARE GAS HEAD.PURG.AL				-	-	-	-		
90FPF02	L90001	LAH90001	LEVEL STAND PIPE WARM FLARE				-	-	50	-		
90FPF02	L90001	LSH90001	LEVEL STAND PIPE WARM FLARE				-	-	-	-		
90FPF02	T90001	TAL90001.A	FLAME TEMP.PILOT BURNER				-	250	-	-		
90FPF02	T90001	TSL90001.A	FLAME TEMP.PILOT BURNER				-	-	-	-		
90FPF02	T90001	TAL90001.B	FLAME TEMP.PILOT BURNER				-	250	-	-		
90FPF02	T90001	TSL90001.B	FLAME TEMP.PILOT BURNER				-	-	-	-		
90FPF02	T90001	TAL90001.C	FLAME TEMP.PILOT BURNER				-	250	-	-		
90FPF02	T90001	TSL90001.C	FLAME TEMP.PILOT BURNER				-	-	-	-		
90FPF02	U90001	UA90001	FAULT IGNITION PANEL				-	-	-	-		
90FPF02	F90002	FAL90002	LPG PILOT GAS FLOW AL	0	14	Nm3/h	-	2	-	-		
90FPF02	F90002	FAH90002	LPG PILOT GAS FLOW AL	0	14	Nm3/h	-	-	7	-		
90FPF02	P90002	PAL90002	IMPORT PRES.LPG PILOT GAS	0	10	bar g	-	1	-	-		
90FPF02	P90002	PAH90002	IMPORT PRES.LPG PILOT GAS	0	10	bar g	-	-	8	-		
90FPF02	L90003	LAH90003	LEVEL AL.FLARE				-	80	-	-		
90FPF02	L90003	LSH90003	LEVEL AL.FLARE				-	-	-	-		
91FPF01	F91001	FAL91001	COLD FLARE GAS HEAD. PURG. AL				-	2	-	-		
91FPF01	F91001	FSL91001	COLD FLARE GAS HEAD. PURG. AL				-	-	-	-		
91FPF01	L91001	LAH91001	LEVEL AL.OF D9131				-	-	50	-		
91FPF01	L91001	LSH91001	LEVEL AL.OF D9131				-	-	-	-		
91FPF01	F91002	FAL91002	COLD LIQUID DRAIN HEADER .AL			Nm3/h	-	3	-	-		
91FPF01	F91002	FSL91002	COLD LIQUID DRAIN HEADER .AL				-	-	-	-		
94FPF01	P94001	PAL94001	N2 IMPORT PRESS.FROM B.L	0	25	bar g	-	4	-	-		
14FPF01	U94001	UA94001					-	-	-	-		
95FPF01	P95001	PAL95001	Intrument air import press.F	0	10	bar g	-	2	-	-		
98FPF01	H98001	HA98001	Shut down cont.				-	-	-	-		
98FPF02	U98001	UAL98001	Analyzer status AT16009/16010				-	L	-	-		
98FPF02	U98001	USL98001	Analyzer status AT16009/16011				-	L	-	-		
98FPF02	Z98001	ZA98001	Maintenance AL.AT16009				-	-	-	-		
98FPF02	Z98001	ZS98001	Maintenance AL.AT16010				-	-	-	-		
98FPF02	F98002	FSL98002					-	L	-	-		
98FPF02	U98002	UAL98002					-	L	-	-		
98FPF02	U98002	USL98002					-	L	-	-		
98FPF02	Z98002	ZA98002	Maintenance AL.AT16010				-	-	-	-		
98FPF02	Z98002	ZS98002	Maintenance AL.AT16010				-	-	-	-		
98FPF03	U98003	UAL98003	Analyzer status AT15001/15003				-	L	-	-		
98FPF03	U98003	USL98003	Analyzer status AT15001/15003				-	L	-	-		
98FPF03	Z98003	ZA98003	Maintenance AL.AT15003				-	-	-	-		
98FPF03	Z98003	ZS98003	Maintenance AL.AT15003				-	-	-	-		
98FPF02	F98004	FSL98004					-	L	-	-		
98FPF03	U98004	UAL98004	Analyzer status AT15006/15007				-	L	-	-		
98FPF03	U98004	USL98004	Analyzer status AT15006/15007				-	L	-	-		
98FPF03	Z98004	ZA98004	Maintenance AL.AT15006				-	-	-	-		
98FPF03	Z98004	ZS98004	Maintenance AL.AT15006				-	-	-	-		
98FPF03	U98005	UAL98005	Analyzer status AT15002				-	L	-	-		
98FPF03	U98005	USL98005	Analyzer status AT15002				-	L	-	-		
98FPF04	U98006	UAL98006	Analyzer status AT16013				-	L	-	-		
98FPF04	U98006	USL98006	Analyzer status AT16013				-	L	-	-		
98FPF04	Z98006	ZA98006	Maintenance AL.AT15001				-	-	-	-		
98FPF04	Z98006	ZS98006	Maintenance AL.AT15001				-	-	-	-		
98FPF03	F98007	FSL98007					-	L	-	-		
98FPF04	Z98007	ZA98007	Calibr. And zero gas AP11003A				-	-	-	-		
98FPF04	Z98007	ZS98007	Calibr. And zero gas AP11003A				-	-	-	-		
98FPF04	Z98008	ZA98008	Calibr. And zero gas AP11003B				-	-	-	-		
98FPF04	Z98008	ZS98008	Calibr. And zero gas AP11003B				-	-	-	-		

HyCO Alarm&Trip setting (Main Plant)

Update SEP'2019

PID	LOOP_NAME	Tag_number	Description	DCS RANGE			ALL	AL	AH	AHH	Delay	Effect
				MIN	MAX	UNIT						
98PFP03	F98009	FSL98009					-	L	-	-		
98PFP03	Z98009	ZS98009	1=A15002 aktiv,0=A16012 aktiv				-	-	-	-		
98PFP03	F98010	FSL98010					-	L	-	-		
98PFP01	U98010	UA98010					-	-	-	-		
98PFP03	Z98010	ZA98010	Maintenance AL AT15007				-	-	-	-		
98PFP03	Z98010	ZS98010	Maintenance AL AT15007				-	-	-	-		
98PFP03	F98011	FAL98011	Flow AL input AT15002				-	L	-	-		
98PFP03	F98011	FSL98011	Flow AL input AT15002				-	L	-	-		
98PFP03	U98011	UAL98011					-	L	-	-		
98PFP03	U98011	USL98011					-	-	-	-		
98PFP04	F98013	FSL98013					-	-	-	-		
98PFP03	F98019	FSL98019					-	-	-	-		
99PFP02	U99000	UAL99000	System fault HyCO-C-DCS01				-	L	-	-		
99PFP02	U99000	USL99000	System fault HyCO-C-DCS01				-	L	-	-		
99PFP02	U99001	UAL99001	System fault HyCO-C-M01				-	L	-	-		
99PFP02	U99001	USL99001	System fault HyCO-C-M01				-	L	-	-		
99PFP02	U99002	UAL99002					-	L	-	-		
99PFP02	U99002	USL99002					-	L	-	-		
99PFP02	U99003	UAL99003	System fault HyCO-C-ESD01				-	L	-	-		
99PFP02	U99003	USL99003	System fault HyCO-C-ESD01				-	L	-	-		
99PFP02	U99004	UAL99004					-	L	-	-		
99PFP02	U99004	USL99004					-	L	-	-		
99PFP02	U99005	UAL99005	Switch gear 1-PMCC-A				-	L	-	-		
99PFP02	U99005	USL99005	Switch gear 1-PMCC-A				-	L	-	-		
99PFP02	U99006	UAL99006	Switch gear 1-PMCC-B				-	L	-	-		
99PFP02	U99006	USL99006	Switch gear 1-PMCC-B				-	L	-	-		
99PFP02	U99007	UAL99007	Switch gear 1-HV-A				-	L	-	-		
99PFP02	U99007	USL99007	Switch gear 1-HV-A				-	L	-	-		
99PFP02	U99008	UAL99008	Switch gear 1-HV-B				-	L	-	-		
99PFP02	U99008	USL99008	Switch gear 1-HV-B				-	L	-	-		
99PFP02	U99015	UAL99015	Switch gear 1-PMCC-A				-	L	-	-		
99PFP02	U99015	USL99015	Switch gear 1-PMCC-A				-	L	-	-		
99PFP02	U99016	UAL99016	Switch gear 1-PMCC-B				-	L	-	-		
99PFP02	U99016	USL99016	Switch gear 1-PMCC-B				-	L	-	-		
99PFP02	U99017	UAL99017	Switch gear 1-HV-A				-	L	-	-		
99PFP02	U99017	USL99017	Switch gear 1-HV-A				-	L	-	-		
99PFP02	U99018	UAL99018	Switch gear 1-HV-B				-	L	-	-		
99PFP02	U99018	USL99018	Switch gear 1-HV-B				-	L	-	-		
99PFP02	U99019	UAL99019					-	L	-	-		
99PFP02	U99019	USL99019					-	L	-	-		
99PFP02	U99020	UAL99020	UPS FAULT				-	L	-	-		
99PFP02	U99020	USL99020	UPS FAULT				-	L	-	-		
99PFP02	U99021	UAL99021	UPS FAULT DC- DISTRIBUTION				-	L	-	-		
99PFP02	U99021	USL99021	UPS FAULT DC- DISTRIBUTION				-	L	-	-		
99PFP02	U99022	UAL99022	UPS FAULT AC- DISTRIBUTION				-	L	-	-		
99PFP02	U99022	USL99022	UPS FAULT AC- DISTRIBUTION				-	L	-	-		
99PFP02	U99023	UAL99023					-	L	-	-		
99PFP02	U99023	USL99023					-	L	-	-		
99PFP02	U99024	UAL99024					-	L	-	-		
99PFP02	U99024	USL99024					-	L	-	-		
99PFP02	U99025	UAL99025					-	L	-	-		
99PFP02	U99025	USL99025					-	L	-	-		
99PFP02	U99026	UAL99026					-	L	-	-		
99PFP02	U99026	USL99026					-	L	-	-		
99PFP02	U99027	UAL99027					-	L	-	-		
99PFP02	U99027	USL99027					-	L	-	-		

HyCO Alarm&Trip setting (UT)

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Tag_In_WW	Tag_PL_C_AB	Description	Alarm(Limit)			
			ALL	AL	AH	AHH
PT81-1	PT81_1	T81 LINTANK PRESSURE	-	35 BarG	44 BarG	-
FT101_1	FT101_1	GAN - UT TO SMR PLANT - LOW RANGE FLOW	-	-	145 Nm2/H	-
FT101_2	FT101_2	GAN - UT TO SMR PLANT - HIGH RANGE FLOW	-	-	-	-
PT101	PT101	GAN SUPPLY PRESSURE	-	10 BarG	-	-
FT201	FT201	INSTRUMENT GAS TO SMR FLOW	-	100 Nm2/Hr	550 Nm2/Hr	-
PT201	PT201	INSTRUMENT GAS TO SMR PRESSURE	-	4 BarG	-	-
LT81-1	LT81_1	T81 LINTANK LEVEL	-	30%	85%	-
PT1301	PT1301	R-938 SUPPLY PRESSURE	-	-	-	-
PT1303	PT1303	NG > FUEL SUPPLY PRESSURE	-	18 BarG	-	-
PT1308	PT1308	NG > FEED SUPPLY PRESSURE	-	39 BarG	-	-
GAS0109	GAS0109	%LEL AT LPG TANK				
PT611	PT611	LPG T611 PRESSURE	-	4.5 BarG	-	-
TT611B	PT612	P90611B - BEARING TEMP	-	-	-	-
PT613	PT613	LPG PUMP DISCH. PRESSURE	-	-	-	-
PT614	PT614	LPG PRESSURE SUCTION P90611A	2 BarG	-	-	-
PT615	PT615	LPG PRESSURE SUCTION P90611B	2 BarG	-	-	-
LT611	LT611	LPG TANK LEVEL	-	-	-	85%
FT612	FT612	LPG PUMP RECIR. FLOWRATE	-	-	-	-
FT611A	FT611A	LPG PUMP RECIR. FLOW A	1025 Kg/Hr	-	-	-
FT611B	FT611B	LPG PUMP RECIR. FLOW B	1026 Kg/Hr	-	-	-
FT611C	FT611C	LPG PUMP RECIR. FLOW C	1027 Kg/Hr	-	-	-
TT611	TT611 No use	LPG TANK TEMPERATURE	-	-	-	-
TT611A	TT611A	P90611A - BEARING TEMP	-	-	-	-
GAS0101	GAS0101	%LEL PIPELINE NEAR REFORMER	-	-	-	-
GAS0110	GAS0110	%LEL AT TOP OF TANK LPG	-	-	-	-
TT911C-1	TT911C_1	TEMP CW SUPPLY TO HYCO	-	20 C	45 C	-
TT91C-1	TT91C_1	TEMP CW RETURN	-	-	50 C	-
PT911C-1	PT911C_1	CW SUPPLY PRESSURE	-	3.5 BarG	-	-
GAS0111	GAS0111	%LEL AT NG COMP	-	-	-	-
FT911C-1	FT911C_1	CW SUPPLY FLOWRATE	-	350 M3/Hr	790 M3/Hr	-
GAS102	GAS102	%LEL H2 VALVE STATION 1	-	-	20	-
GAS103	GAS103	%LEL H2 VALVE STATION 2	-	-	20	-
GAS104	GAS104	%LEL AT T611 OUTLET	-	-	20	-
GAS105	GAS105	%LEL AT T611 OUTSIDE AREA	-	-	20	-
GAS106	GAS106	%LEL AT LPG PUMP	-	-	20	-
GAS107	GAS107	%LEL AT COOLING TOWER	-	-	20	-
GAS108	GAS108	%LEL AT LPG CYLINDER 1	-	-	20	-
PY1303	PY1303	NG > FUEL SUPPLY PRESSURE CONTROL VALVE	-	-	-	-
PY1308	PY1308	NG > FEED SUPPLY PRESSURE CONTROL VALVE	-	-	-	-
LYV611	LYV611	LPG > T611 SUPPLY VALVE SOV90611	-	-	-	-
FYV612	FYV612	LPG PUMP RECIR. FLOW CONTROL SOV90612	-	-	-	-
PT613A	PT613A	Pressure Control VSD P90611A				
PT613B	PT613B	Pressure Control VSD P90611B				
LT91C_1	LT91C_1	WATER LEVEL CT9091C	60	85	90	95
FT100	FT100	MAIN GAN SUPPLY TO HYCO	-	-	-	-
P611A_CT	P611A_CT	LPG PUMP P90611A CURRENT HIGH	-	-	-	-
P611B_CT	P611B_CT	LPG PUMP P90611B CURRENT HIGH	-	-	-	-
LT911	LT911	LEVEL RAW WATER TANK	-	-	-	-
PT85B-1	PT85B_1	T85B HP TANK PRESSURE	38 BarG	-	-	42 BarG
PT851-1	PT851_1	LCO2 DISC PUMP PRESSURE	-	-	44 BarG	45 BarG
PT85A-1	PT85A_1	T85A LP TANK PRESSURE	-	15 BarG	20.5 BarG	-
LT85B-1	LT85B-1	T85A LP TANK LEVEL	20%	30%	85%	95%
LT85A-1	LT85A-1	T85B HP TANK LEVEL	20%	30%	85%	-
TT901202	TT901202	E852 VAP TEMPERATURE	-	60 C	90 C	-
TT851-A	TIS851A_1	P90851A DISC TEMPERATURE	-	-	-5 C	0 C
TISL851A-2	TAH851A_RTD	P90851A DISTANCE PIECE TEMPERATURE	0 C	-	-	-
FT1202	FT1202	NG FUEL > PACKAGE BOILER	-	-	-	-
PT1202	PT1202	STEAM > CO2 VAPORIZER PRESSRE	-	-	-	-
PT1201	PT1201	STEAM PACKAGE BOILER PRESSURE	-	-	-	-
FT1201-1	FT1201_1	STEAM PACKAGE BOILER FLOW 1	-	-	-	-
TT1201	TT1201	STEAM PACKAGE BOILER TEMP.	-	-	-	-
FT1201-2	FT1201_2	STEAM PACKAGE BOILER FLOW 2	-	-	-	-
TI851B_1	TI851B_1	P90851B DISC TEMPERATURE	-	-	-5 C	0 C
TISL851B-2	TAH851B_RTD	P90851B DISTANCE PIECE TEMPERATURE	0 C	-	-	-
PY851-1	PY851_1	CO2 RECIRC. T85A < HP PUMP VALVE PCV90851-1	-	-	-	-

Tag_In_WW	Tag_PLC_AB	Description	Alarm(Limit)			
			ALL	AL	AH	AHH
PY1202	PY1202	STEAM > CO2 VAPORIZER PRESSRE CONTROL VALVE	-	-	-	-
PT81-1	PT81-1_F		-	-	-	-
LT81-1	LT81-1_F		-	-	-	-
	TT0105	TEMP STREAM HEADER	-	-	-	-
EYV612-1	EYV612-1	LPG P90611B SUCTION VALVE ECV90612-1 COMM	-	-	-	-
FIC612	FIC612	LPG PUMP RECIR. FLOWRATE CONTROL	-	-	-	-
LAHH91C_1_OUT	LAHH91C_1_OUT	CW TOWER LEVEL HIGH HIGH	-	-	Yes	-
PIC1303	PIC1303	NG > FUEL SUPPLY PRESSURE CONTROL	-	18 BarG	-	-
FY612	FY612	LPG PUMP RECIR. FLOWRATE CONTROL VALVE	-	-	-	-
PIC1308	PIC1308	NG FEED SUPPLY PRESSURE	-	39 BarG	-	-
PIC1202	PIC1202	STEAM > CO2 VAPORIZER PRESSRE CONTROL	-	-	-	-
PIC851-1	PIC851_1	CO2 RECIRC. T85A < HP PUMP CONTROL	-	-	-	-
LIT914		DMW TANK LEVEL	-	-	-	-
LI90916	L90916	Waster water tank	5	10	85	90

C10501 Alarm And Trip Setting

Update

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PID	LOOP_NAME	Tag_Number	Description	Normal	DCS RANGE			HART RANGE				Delay	Effect	
					MIN	MAX	UNIT	ALL	AL	AH	AHH			
BD50.001	TI10539 (1002D)	TAH10539A	Temperature discharge side	70	0	160	°c	-	-	80	-	No	C10501 SHUTDOWN	
		TAH10539B						-	-	80	-	No		
		TAHH10539A						-	-	-	110	No		
		TAHH10539B						-	-	-	110	No		
BD50.001	PI10535 (1002D)	PAH10535A	Pressure discharge side	44	0	60	Barg	-	-	48	-	No	C10501 SHUTDOWN	
		PAH10535B						-	-	48	-	No		
		PAHH10535A						-	-	-	49	No		
		PAHH10535B						-	-	-	49	No		
BD50.001	PI10534 (1002D)	PAL10534A	Pressure suction side	27.5	0	60	Barg	-	26	-	-	No	C10501 SHUTDOWN	
		PAL10534B						-	26	-	-	No		
		PALL10534A						25	-	-	-	No		
		PALL10534B						25	-	-	-	No		
BD50.001	TI10543 (1002D)	TAH10543A	Temperature discharge side	40	0	100	°c	-	-	50	-	No	C10501 SHUTDOWN	
		TAH10543B						-	-	50	-	No		
		TAHH10543A						-	-	-	55	No		
		TAHH10543B						-	-	-	55	No		
BD50.001	TI10551	TAH10551	Temperature cooling water outlet	35	0	60	°c	-	-	50	-	No	C10501 SHUTDOWN	
		TAHH10551						-	-	-	55	No		
BD50.001	FS10550	FAL10550	Flow switch low cooling water outlet	-	0	15	qum/hr	-	6	-	-	No	C10501 SHUTDOWN	
BD50.001	PI10571	PAL10571	N2 purge packing	1	0	2.5	Barg	-	0.7	-	-	No		
BD50.001	PI10572	PAL10572	N2 purge inter piece	1	0	2.5	Barg	-	0.7	-	-	No		
BD50.001	PI10561 (1002D)	PAL10561A	Crank case oil pressure	3	0	6	Barg	-	2	-	-	No		C10501 SHUTDOWN
		PAL10561B						-	2	-	-	No		
		PALL10561A						1.5	-	-	-	No		
		PALL10561B					1.5	-	-	-	No	C10501 SHUTDOWN		
BD50.001	TI10562	TAH10562	Crank case oil temp	42	0	100	°c	-	-	55	-	No	C10501 SHUTDOWN	
		TAHH10562						-	-	-	65	No		
BD50.001	VT10570	VAH10570	Vibration transmitter	1	0	12.7	mm/s	-	-	8	-	No	C10501 SHUTDOWN	
BD50.001	TS10591	TAH10591	Thermistor Temperature Motor	-			°c	-	-	120	-	No		
		TAHH10591						-	-	-	130	No		
16002312-T-D-101-01	DPI10594	DPAL10594	Differential pressure indicator of M-1905	50	0	1500	mbar	-	35	-	-	No	C10501 SHUTDOWN	
		DPAH10594						-	-	500	-	No		
		DPALL10594						25	-	-	-	No		
16002312-T-D-101-01	PI10594	PAL10594	Pressure outlet M-1905	30	0	60	Barg	-	26	-	-	No		
16002312-T-D-101-01	FI10595	FAL10595	H2 feed mixing	8	0	25	kg/hr	-	5	-	-	2 mins.	Close FV10595	
		FAH10595						-	-	18	-			
		FALL10595						3	-	-	-			

C10502 Alarm And Trip Setting

Update

SEP'2019

PID	LOOP_NAME	Tag_Number	Description	Normal	DCS RANGE							Delay	Effect
					MIN	MAX	UNIT	ALL	AL	AH	AHH		
637400-01-02 Sheet 1 of 4	TI10540 (1002D)	TAH10540A	Temperature discharge side	70	0	160	°C	-	-	80	-	No	C10502 SHUTDOWN
		TAH10540B						-	-	80	-	No	
		TAHH10540A						-	-	-	110	No	
		TAHH10540B						-	-	-	110	No	
637400-01-02 Sheet 1 of 4	PI10537 (1002D)	PAH10537A	Pressure discharge side	44	0	60	Barg	-	-	48	-	No	C10502 SHUTDOWN
		PAH10537B						-	-	48	-	No	
		PAHH10537A						-	-	-	49	No	
		PAHH10537B						-	-	-	49	No	
637400-01-02 Sheet 1 of 4	PI10536 (1002D)	PAL10536A	Pressure suction side	27.5	0	60	Barg	-	26	-	-	No	C10502 SHUTDOWN
		PAL10536B						-	26	-	-	No	
		PALL10536A						25	-	-	-	No	
		PALL10536B						25	-	-	-	No	
637400-01-02 Sheet 1 of 4	TI10544 (1002D)	TAH10544A	Temperature discharge side	40	0	100	°C	-	-	50	-	No	C10502 SHUTDOWN
		TAH10544B						-	-	50	-	No	
		TAHH10544A						-	-	-	55	No	
		TAHH10544B						-	-	-	55	No	
637400-01-02 Sheet 3 of 4	TI10553	TAH10553	Temperature cooling water outlet	35	0	60	°C	-	-	50	-	No	C10502 SHUTDOWN
		TAHH10553						-	-	-	55	No	
637400-01-02 Sheet 3 of 4	FS10552	FAL10552	Flow switch low cooling water outlet	-	0	15	gum/hr	-	6	-	-	No	C10502 SHUTDOWN
637400-01-02 Sheet 4 of 4	PI10573	PAL10573	N2 purge packing	1	0	2.5	Barg	-	0.7	-	-	No	
637400-01-02 Sheet 4 of 4	PI10574	PAL10574	N2 purge inter piece	1	0	2.5	Barg	-	0.7	-	-	No	
637400-01-02 Sheet 2 of 4	PI10563 (1002D)	PAL10563A	Crank case oil pressure	3	0	6	Barg	-	2	-	-	No	
		PAL10563B						-	2	-	-	No	C10502 SHUTDOWN
		PALL10563A						1.5	-	-	-	No	
		PALL10563B						1.5	-	-	-	No	C10502 SHUTDOWN
637400-01-02 Sheet 2 of 4	TI10565	TAH10565	Crank case oil temp	42	0	100	°C	-	-	55	-	No	C10502 SHUTDOWN
		TAHH10565						-	-	-	65	No	
637400-01-02 Sheet 4 of 4	VT10572	VAH10572	Vibration transmitter	1	0	12.7	mm/s	-	-	8	-	No	C10502 SHUTDOWN
637400-01-02 Sheet 3 of 4	TS10593	TAH10593	Thermistor Temperature Motor	-			°C	-	-	120	-	No	
		TAHH10593						-	-	-	130	No	C10502 SHUTDOWN
16002312-T-D-101-01	DPI10594	DPAL10594	Differential pressure indicator of M-1905	50	0	1500	mbar	-	35	-	-	No	C10502 SHUTDOWN
		DPAH10594						-	-	500	-	No	
		DPALL10594						25	-	-	-	No	
16002312-T-D-101-01	PI10594	PAL10594	Pressure outlet M-1905	30	0	60	Barg	-	26	-	-	No	
16002312-T-D-101-01	FI10595	FAL10595	H2 feed mixing	8	0	25	kg/hr	-	5	-	-	2 mins.	Close FV10595
		FAH10595						-	-	18	-		
		FALL10595						3	-	-	-		