LNG Process equipment switching plan August 2024

Priority	HP Pump	BOG Comp	SW Pump	ORV	Metering	LNG Tank 1	LNG Tank 2	LNG Tank 3	LNG Tank 4
1	HP K	BOG A	SWP D	ORV E	Metering E	LP 1A	LP 2A	LP 3C	LP 4A
2	HP I	BOG D	SWP B	ORV J	Metering A	LP 1C	LP 2C	LP 3A	LP 4B
3	HP E	BOG C	SWP A	ORV D	Metering B	LP 1B	LP 2B	LP 3B	LP 4C
4	HP F	BOG B	SWP C	ORV C	Metering C				
5	HP C		SWP E	ORV B	Metering D				
6	HP H			ORV A					
7	HP J			ORV I					
8	HP A			ORV H					
9	HP G			ORV G					
10	HP D			ORV F					
11	HP B								

Remark : **28-Aug-24**

HP Pump B: HP pump B (Abnormal noise) **keep last priority**

CYP Pump B : Mechanical Seal leak, Vibration Trend too high **keep last priority**

IA Comp A: Temp 1st stage HH trip (Screw comp problem) **keep last priority**

Intank pump 3B: Isolate due to N2 Seal JB problem (LOTO No.18)

HP Pump E: Isolate for Overhaul (LOTO No.26)

ORV-E: Isolate for cleaning and Inspection (LOTO No.5)

CWG & IPG Process equipment switching plan August 2024

Priority	IFV	Warm water pump		IPG Pump		HVAC Pump		GTG
	Week 1-4	Week 1-2	Week 3-4	Week 1-2	Week 3-4	Week 1-2	Week 3-4	Week 1-4
1	IFV B	WARM E	WARM E	IPG A	IPG A	HVAC E	HVAC E	GTG A
2	IFV A	WARM C	WARM D	IPG B	IPG B	HVAC B	HVAC A	GTG B
3		WARM A	WARM B	IPG C	IPG C	HVAC D	HVAC C	
4		WARM D	WARM A	IPG E	IPG E	HVAC C	HVAC D	
5		WARM B	WARM C	IPG D	IPG D	HVAC A	HVAC B	

Remark :
- GTG Lube oil cooler fan & Enclosure vent fan switch every month

*Equipment switching plan August 2024 (เพิ่มเติม)

Priority	LNG Process		IPG & ORC Process						
	IA Comp	Electrolyzer	IPG IA	CYP Pump	Hot oil Pump	WHRU-A	WHRU-B	GTG L/O Cooler fan	GTG Encl Vent Fan
1	IA Comp A	Electrolyzer B	IPG IA B	CYP Pump B	HO Pump A	WHRU-A Seal fan A	WHRU-B Seal fan A	B	B
2	IA Comp B	Electrolyzer A	IPG IA A	CYP Pump A	HO Pump B	WHRU-A Seal fan B	WHRU-B Seal fan B	A	A

Send out (MMSCFD)	ORV	SWP Type	SWP Qty.	SW Flow	Electrolyzer (Amp)
190 - 360	1	VSD 1st	1	10,000 m3/h	Auto by PLC
360 - 550	2				
550 - 740	3				
740 - 930	4	VSD 1st, 2nd	2	20,000 m3/h	Auto by PLC
930 - 1120	5				
1120 - 1310	6				
1310 - 1500	7	VSD 1st, 2nd and FIX SPD	3	30,000 m3/h	Auto by PLC
1500 - 1690	8				
1690 - 1880	9				

Operation guide

1.GTGs Spinning reserve capacity **must cover PEA+ORC** Power

2.Run Seawater Pump **A, C** for **VSD** Mode first priority

3.Unloading sampling Berth#1 = **3.0 barg**, Berth#2 = **3.3 barg**

4.ITCP diff pressure between LMPT1-LMPT2 **>= 2 barg**

5.Metering A/B/C ~ **350 MMSCFD** , D/E ~ **800 MMSCFD**

6.HP Pump 3 Units (**390** MMSCFD+) = Intank pump 2 Units

7.GTG Control mode = **MW, MVAR**

8.Before unloading operation pressure tank < **190 mbarg**

9.T1 > MAP (**91.5-110** barg),Pressure diff NG-LNG (**12** barg)