LNG Process equipment switching plan September 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 B	SWP C	ORV F	Metering E	LP 1A	LP 2A	LP 3C	LP 4A
2	HP E	BOG C	SWP E	ORV A	Metering A	LP 1C	LP 2B	LP 3A	LP 4B
3	HP A	BOG A	SWP D	ORV G	Metering B	LP 1B	LP 2C	LP 3B	LP 4C
4	HP D	BOG D	SWP A	ORV H	Metering C				
5	HP G		SWP B	ORV I	Metering D				
6	HP J			ORV E					
7	HP C			ORV B					
8	HP H			ORV C					
9	HP F			ORV D					
10	HP I			ORV J					
11	HP B								

Remark : 28-Sep-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**

Intank pump 2B: FV275B Not fully open **keep last priority**

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

HP Pump F: Isolate for Overhaul (LOTO No.14)

HP Pump A: Bearing manual valve (LNG-1037) damaged (LOTO No.28)

SWP B: Isolate for DFBS-B Work (LOTO No.6)

CWG & IPG Process equipment switching plan September 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 A	WARM E	WARM E	IPG A	IPG A	HVAC E	HVAC E	GTG A
2	IFV B	WARM D	WARM D	IPG B	IPG B	HVAC C	HVAC D	GTG B
3		WARM B	WARM A	IPG C	IPG C	HVAC A	HVAC C	
4		WARM A	WARM B	IPG E	IPG E	HVAC D	HVAC A	
5		WARM C	WARM C	IPG D	IPG D	HVAC B	HVAC B	

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

*Equipment switching plan September 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 A	IPG IA B	CYP Pump A	HO Pump A	WHRU-A Seal fan A	WHRU-B Seal fan A	A	A
2	IA Comp B	Electrolyzer B	IPG IA A	CYP Pump B	HO Pump B	WHRU-A Seal fan B	WHRU-B Seal fan B	B	B

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)