

LNG Process equipment switching plan October 2024

| Priority | HP Pump | BOG Comp | SWP Pump | ORV | Metering | LNG Tank 1 | LNG Tank 2 | LNG Tank 3 | LNG Tank 4 |
|----------|---------|----------|----------|-------|------------|---|------------|------------|------------|
| 1 | HP K | BOG D | SWP B | ORV E | Metering E | LP 1A | LP 2A | LP 3A | LP 4A |
| 2 | HP D | BOG A | SWP A | ORV J | Metering A | LP 1B | LP 2C | LP 3C | LP 4C |
| 3 | HP F | BOG C | SWP E | ORV D | Metering B | LP 1C | LP 2B | LP 3B | LP 4B |
| 4 | HP I | BOG B | SWP C | ORV C | Metering C | Remark : 10-Oct-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 3B: Isolate due to N2 Seal JB problem (LOTO No.18) BOG Comp A: Isolate XV302 Discharge valve for Overhaul (LOTO No.8) | | | |
| 5 | HP C | | SWP D | ORV B | Metering D | | | | |
| 6 | HP J | | | ORV A | | | | | |
| 7 | HP A | | | ORV I | | | | | |
| 8 | HP G | | | ORV H | | | | | |
| 9 | HP H | | | ORV G | | | | | |
| 10 | HP E | | | ORV F | | | | | |
| 11 | HP B | | | | | | | | |

CWG & IPG Process equipment switching plan October 2024

| Priority | IFV | Warm water pump | | IPG Pump | | HVAC Pump | | GTG | Remark : - GTG Lube oil cooler fan & Enclosure vent fan switch every month |
|----------|----------|-----------------|----------|----------|----------|-----------|----------|----------|--|
| | 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 B | IPG B | IPG B | HVAC B | HVAC D | GTG B | |
| 3 | | WARM B | WARM C | IPG C | IPG C | HVAC A | HVAC C | | |
| 4 | | WARM C | WARM D | IPG E | IPG E | HVAC D | HVAC A | | |
| 5 | | WARM A | WARM A | IPG D | IPG D | HVAC C | HVAC B | | |

***Equipment switching plan October 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 A | 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 B | 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) | Operation guide |
|-------------------|-----|-----------------------------|----------|-------------|--------------------|--|
| 190 - 360 | 1 | VSD 1st | 1 | 10,000 m3/h | Auto by PLC | 1.GTGs Spinning reserve capacity must cover PEA+ORC Power |
| 360 - 550 | 2 | | | | | 2.Run Seawater Pump A, C for VSD Mode first priority |
| 550 - 740 | 3 | | | | | 3.Unloading sampling Berth#1 = 3.0 barg , Berth#2 = 3.3 barg |
| 740 - 930 | 4 | VSD 1st, 2nd | 2 | 20,000 m3/h | Auto by PLC | 4.ITCP diff pressure between LMPT1-LMPT2 >= 2 barg |
| 930 - 1120 | 5 | | | | | 5.Metering <u>A/B/C</u> ~ 350 MMSCFD , <u>D/E</u> ~ 800 MMSCFD |
| 1120 - 1310 | 6 | | | | | 6.HP Pump 3 Units (390 MMSCFD+) = Intank pump 2 Units |
| 1310 - 1500 | 7 | VSD 1st, 2nd and FIX SPD | 3 | 30,000 m3/h | Auto by PLC | 7.GTG Control mode = MW, MVAR |
| 1500 - 1690 | 8 | | | | | 8.Before unloading operation pressure tank < 190 mbarg |
| 1690 - 1880 | 9 | | | | | 9.T1 > MAP (91.5-110 barg),Pressure diff NG-LNG (12 barg) |