

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 | <b>Remark : 13-Sep-24</b><br><b>HP Pump B:</b> HP pump B (Abnormal noise) <b>keep last priority</b><br><b>CYP Pump B :</b> Mechanical Seal leak, Vibration Trend too high <b>keep last priority</b><br><b>Intank pump 3B:</b> Isolate due to N2 Seal JB problem (LOTO No.18)<br><b>HP Pump I:</b> Isolate for Overhaul (LOTO No.5)<br><b>ORV-I:</b> Isolate for cleaning and Inspection (LOTO No.30)<br><b>Berth 3:</b> Yearly PM (LOTO No.27) |            |            |            |
| 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    |          |         |       |            |  |            |            |            |

**CWG & IPG Process equipment switching plan September 2024**

| Priority | IFV      | Warm water pump |          | IPG Pump |          | HVAC Pump |          | GTG      | <b>Remark :</b><br>- 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 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   |          |  |

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