

# P78 PRODUCTION SHIFT REPORT

Date : 1 Maret 2025 (Saturday)  
 Reported by : Ade Kurniawan / Banariyanto / Agus Mustofa

TIME	DESCRIPTION	REMARK																																																																																																																
	<b>Process Safety and Environment Information</b>																																																																																																																	
20-Nov 09:00(27-Feb)	Reading accumulation CEMS at DCS is higher than accumulation at CEMS dashboard. It will evaluate calculation at DCS and comparison Flue gas flow rate Unit7  One of fire sprinkler was actuated at U8 Mezzanine floor, suspect from steam exposure leakage 8BS-SMV-104. Temporary plugged.	Update calculation on DCS Waiting Unit Shutdown Information																																																																																																																
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07-Feb 09:15(27-Feb)	<table border="1"> <thead> <tr> <th colspan="3">U 7 Technical Generation Losses</th> <th colspan="3">U 8 Technical Generation Losses</th> </tr> <tr> <td colspan="3">Total: 0 MWH</td> <td colspan="3">Total: 0 MWH</td> </tr> </thead> <tbody> <tr> <td colspan="6">Declare U7: 640 NMW. Declare U8: 630 MW, U7:640 MW (Station: 1270 MW)</td> </tr> </tbody> </table> <p><b>Unit # 7: Days of continues operation: 49 Days.</b>      Last Maintenance Outage (MO) 10-Jan 2025, @14:54 SWGR-A 13.8 trip      U7 load Max: 633 MW(GROSS) ; Min: 357 MW(GROSS) ; Average: 411 MW(GROSS)      U7 load Max: 598 MW(NET) ; Min: 325 MW(NET) ; Average: 381 MW(NET)      NPHR Target / Achieved: 2682/ 2776(Loss: 3.51%), Eta Pro:2688/ 2767 kcal/kWh (Loss: 2.94%)      Un-burn carbon Fly ash and Bottom ash= 0.17% (25-Feb) and 2.80% (25-Feb)      Furnace temperature at load 381 MW(Gross) average 1005 °C (max: 1063 °C at inspect. hole #15)      Minimize R/H spray. Average MS/RH steam temperature 535 / 521 °C      Turbine 8X vibration max 31 µm at MS/RHT 536 / 526 °C load 376 GMW at 05:52      Average vibration 8x / 7X for 24 hours were: 25 / 59 µm      U7 Frequency of transfer: A:4;B: 5 ;C: 0;D: 5;E: 0;F: 2      500KV GSUT DGA max / average was 16.6 / 16.4 ppm      Make up:830 tons (open continuous blowdown valve 5 turns)      Soot blower: 74 tons, SW pyrites: 201 tons.      Soot blower skip: 537(jammed 50%).  <b>Sootblowers special operations:</b> 420, 421, 422 / 470, 471, 472 (Screen tube), 427/477-428/478-429/479-430/480 (LTSV Cavity) run every 1<sup>st</sup> and 15<sup>th</sup> days of the month (2 times/month).      Clinker Condition at Hole No. –</p> <table border="1"> <tr> <td>C1</td><td>C2</td><td>W</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>E</td><td>C3</td><td>C4</td></tr> <tr> <td>C</td><td>C</td><td>C</td><td>-</td><td>1</td><td>C</td><td>1</td><td>4</td><td>2</td><td>2</td><td>1</td><td>-</td><td>C</td><td>C</td><td>C</td></tr> </table> <p>1: Spotty, 2:&lt;5 cm, 3: 5&gt;10 cm, 4:&gt;10&lt;15 cm, 5: &gt;15cm, C: Clean</p>	U 7 Technical Generation Losses			U 8 Technical Generation Losses			Total: 0 MWH			Total: 0 MWH			Declare U7: 640 NMW. Declare U8: 630 MW, U7:640 MW (Station: 1270 MW)						C1	C2	W	10	11	12	13	14	15	16	17	18	E	C3	C4	C	C	C	-	1	C	1	4	2	2	1	-	C	C	C	<p>Last Sync Sunday, 10-Jan-2025 @19:56</p> <table border="1"> <thead> <tr> <th colspan="4">Coal Burn IOL</th> </tr> <tr> <th>23:00</th><th>05:00</th><th>11:00</th><th>17:00</th> </tr> </thead> <tbody> <tr> <td>CLHV+ADR+ CH3SF</td><td>CLHV+ADR+ CH3SF</td><td>CMHV+BAS+ CH3SF</td><td>CMHV+BAS+ CH3SF</td></tr> <tr> <td>4675</td><td>4675</td><td>4675</td><td>4675</td></tr> <tr> <td>29.46</td><td>29.46</td><td>29.46</td><td>29.46</td></tr> <tr> <td>4.82</td><td>4.82</td><td>4.82</td><td>4.82</td></tr> <tr> <td>0.43</td><td>0.43</td><td>0.43</td><td>0.43</td></tr> <tr> <td>49</td><td>49</td><td>49</td><td>49</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="4">Coal Transfer Plan</th> </tr> <tr> <th>23:00</th><th>5:00</th><th>11:00</th><th>17:00</th> </tr> </thead> <tbody> <tr> <td>CLHV50% + CH3SF20% + CMHV30%</td><td>CLHV50% + CH3SF20% + CMHV30%</td><td>CLHV50% + CH3SF20% + CMHV30%</td><td>CLHV50% + CH3SF20% + CMHV30%</td></tr> <tr> <td>4726.9</td><td>4726.9</td><td>4726.9</td><td>4726.9</td></tr> <tr> <td>30.24</td><td>30.24</td><td>30.24</td><td>30.24</td></tr> <tr> <td>3.79</td><td>3.79</td><td>3.79</td><td>3.79</td></tr> <tr> <td>0.39</td><td>0.39</td><td>0.39</td><td>0.39</td></tr> <tr> <td>51.1</td><td>51.1</td><td>51.1</td><td>51.1</td></tr> </tbody> </table>	Coal Burn IOL				23:00	05:00	11:00	17:00	CLHV+ADR+ CH3SF	CLHV+ADR+ CH3SF	CMHV+BAS+ CH3SF	CMHV+BAS+ CH3SF	4675	4675	4675	4675	29.46	29.46	29.46	29.46	4.82	4.82	4.82	4.82	0.43	0.43	0.43	0.43	49	49	49	49	Coal Transfer Plan				23:00	5:00	11:00	17:00	CLHV50% + CH3SF20% + CMHV30%	4726.9	4726.9	4726.9	4726.9	30.24	30.24	30.24	30.24	3.79	3.79	3.79	3.79	0.39	0.39	0.39	0.39	51.1	51.1	51.1	51.1			
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16-Sep	<b>UNIT 7 PROBLEMS</b>	Under Investigation by performance team																																																																																																																
18-Sep	1. Analyzer Transmitter (OXYGEN) A, 7BG-AT-562A often Alarm Deviation (XMTR A < B deviation more than 1.5%).																																																																																																																	
06-Nov	2. <b>Found load decrease disruption when conducted closure test at CRV#2.</b> Load drop from 628 GWM to 407 GWM due to IV#1 & RSV#1 suddenly closing when test completed for RSV#2 & IV #2	SR113756 (under investigation Engineering) CRV#2 postpone when RPT TG01																																																																																																																
06-Nov	3. 7ID-MOV-729A Dilution Pump MOV found gear box crack	Waiting material/WO. 2409051037																																																																																																																
	4. Found SAH 7A motor drive vibration IB axial side show increase indication. Info by CBM team Replace Fluid Coupling and perform Motor solo run test during unit shutdown.	Monitoring WPCOND/WO.2411071521																																																																																																																
22-Nov	5. <b>PA fan 7B vibration motor I-B bearing has increasing value (1,7 Mils), the event is same time with U8 trip.</b> @12:00 (01-Jan), try to Bias PAF 7B until (-60%) at Load 250 NMW, the Demand of PAF 7A/B still (85/22 %); air Flow (109/43); air Press (8,4/8,7 kPa, <b>trip point</b> = 6,25 kPa); PA to furnace DP = 8,8 kPa, <b>trip point</b> = 5 kPa, delay 5 sec; with Coal Properties TM=27.3%, and CV=4803 kcal/kg. (70% CMHV + 30% CHHV). @09-Jan Fan bearing inspections	Monitoring Trip point: 3.0 Mils																																																																																																																
05-Jan	6. <b>Found Net MW indication on DCS intermittently hunting.</b> @please also monitor CV#1 ripple when Low Load (350 NMW) at position 35% opening (last LVDT CV-1 cleaning 8-Jan-2025). 05-Feb Perform closure test, stop the test due to Found CV#1&2 ripple, CV#1 effect load drop until 30 MW CV#2 effect Fuel master drop 62 to 55 % and load decrease 594 Nmw to 531 Nmw 19-Feb Replace LVDT CV-1 done, if CV test give interval until press stable.	WO.2412171022																																																																																																																
04-Jan	7. <b>Sea water leaks at condenser outer loop inlets.</b> @ Daily check the leaks rate by Chemist. Leakrate: 2.8 liter per hour. @ 11:40 (22-Feb) Open continuous blowdown valve 3 turns, BB cat conductivity 1.2 Us/cm.	Monitoring Closed Blowdown valve when BB cation cond 0.5 uS/cm																																																																																																																
24-Dec	8. <b>FGD Operation issue:</b> •26-Jan Restart U7 FGD use Absorber Pump C Flow FGD max 6500t/h (suspect pump performance has degraded). •26-Jan.CFC-MOV-802 hard to open during Absorber pump B start (SR117345)	Monitoring/Waiting plant condition WO.2501281011																																																																																																																
31-Jan	9. <b>Found Pulverizer seal air Fan 7A (7BF-FAN-620A) high vibration.</b> Running test result after regreasing and adding shim between Outer and house bearing, the fan vibration is still high. (put as Emergency Standby). Bearing spare available, plan repair on unit shutdown due damper passing.	<table border="1"> <thead> <tr> <th colspan="3">Runtest</th> </tr> <tr> <th>Vibration (RMS/µm/s)</th><th>6/01/2025</th><th>31-01-2025</th> </tr> </thead> <tbody> <tr> <td>Fan IRV</td><td>3.8</td><td>3.4</td></tr> <tr> <td>Fan IBH</td><td>3.1</td><td>3.8</td></tr> <tr> <td>Fan OBV</td><td>9.2</td><td>8.1</td></tr> <tr> <td>Fan OBH</td><td>6.4</td><td>5.7</td></tr> <tr> <td>Fan OBAX</td><td>0.7</td><td>10.5</td></tr> </tbody> </table>	Runtest			Vibration (RMS/µm/s)	6/01/2025	31-01-2025	Fan IRV	3.8	3.4	Fan IBH	3.1	3.8	Fan OBV	9.2	8.1	Fan OBH	6.4	5.7	Fan OBAX	0.7	10.5																																																																																											
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10:26 (02-Feb)	<p><b>10. Generator Hydrogen Leakage</b> Shut Valve 7HG-ISV-120A/B, 7HG-ISV-130 to check leak rate H2 (Initial Pressure Generator 5.094 Bar, Purity 98.457%) &amp; CHG-V-537 Initial Press H2 Vessel 6.2 Bar. @ 20:00 found H2 leakage at <b>7GH-RV-300</b> waiting material expected end of April 2025 (WO : 2502071118, ST014412)</p>	SR117476 (RTV-310B)																																																																																						
17:00 (11-Feb)	<p><b>11. Mill-7C HAG passing</b> Stop Mill 7C for PdM but fail isolation due to HAG fail to shut. Found suspect HAG passing. Temporary action force opening of CAD from 5% to 19% for additional cooling when mill in standby (currently reading MOT decrease from 111 degC to 89 degC) @13:30 join observation result: HAG passing @14:02 restart Mill 7C after ensure no Blockage from feed pipe, see from Light glass @15:30 Strategic Operation, recommended to Standby Mill 7C (as result Meeting – 13 Feb)</p>	Information																																																																																						
01-Mar	<p><b>12. Found Valve 7CM-MOV-455 discrepancy alarm, Status WPCond for repair.</b></p> <p><b>13. Unit 7 High Priority Alarm:</b> • None</p> <p><b>U7 HEAT RATE OPTIMIZATION</b></p> <ol style="list-style-type: none"> <li>Opening sofa damper C# 1&amp;2 wider than C#3&amp;4 for direct the combustion to the center.</li> <li>Condenser Vacuum improvement and leak investigation (drain valve inspection).</li> <li>Supply seal water U#7SSCC Bottom Ash some reuse Effluent Water.</li> </ol>	WO.2501141017/ WPCond  PIC: pak Sapto PPE																																																																																						
	<b>UNIT 7 ACTIVITIES</b>																																																																																							
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09:00 (26-Feb)	2. Change over MT EH oil due oil filter 7A high DP alarm.	Waiting spare																																																																																						
00:30-14:00	3. Found leakage at casing condenser water box innerloop (south side). DONE, install additional plate	Call out, Complete																																																																																						
08:00	4. RPT Record Gas SF6 at 150 kV and 500 kV, lower press = 0,52 Mpa	Complete																																																																																						
16:30	5. Pdm cleaning Feeder 7E (clean).																																																																																							
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03:00(02-Mar)	8. 500 KV phase A (0%), B (0%) and C (0%) arching.	Information																																																																																						
05:00(02-Mar))	9. Fill all of Coal Silo with CLHV50% + CH3SF20% + CMHV30%	Information																																																																																						
	<b>Unit # 8: Days of continues operation: 04 Days</b> Last forced/Planned outage/ Trip: 24-Feb-2025. @ 21:44 Unit Trip due to Furnace Draft press High High active, due to FGD Trip, all Damper Closed and Hydraulic Oil Skid Trip at Load 550 NMW found all FGD instrument bad quality indication.Investigation result found Digital Output Module fuse was blown.	Last Sync Tuesday, 25-Feb-2025 @02:13																																																																																						
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29.46	29.46	29.46	29.46																																																																																					
4.82	4.82	4.82	4.82																																																																																					
0.43	0.43	0.43	0.43																																																																																					
49	49	49	49																																																																																					
23:00	5:00	11:00	17:00																																																																																					
CLHV50% + CH3SF20% + CMHV30%	CLHV50% + CH3SF20% + CMHV30%	CLHV50% + CH3SF20% + CMHV30%	CLHV50% + CH3SF20% + CMHV30%																																																																																					
4726.9	4726.9	4726.9	4726.9																																																																																					
30.24	30.24	30.24	30.24																																																																																					
3.79	3.79	3.79	3.79																																																																																					
0.39	0.39	0.39	0.39																																																																																					
51.1	51.1	51.1	51.1																																																																																					
	<b>UNIT 8 PROBLEMS</b>																																																																																							
24-Feb	<p>1. Unit Trip due to Furnace Draft press High High active, due to FGD Trip, all Damper Closed and Hydraulic Oil Skid Trip at Load 550 NMW found all FGD instrument bad quality indication.Investigation result found Digital Output Module fuse was blown, replace DO module and Fuse.done (apply trap logic). &gt;&gt;Monitoring @ 26-PEB/ 10:07 Drop5 FGD fuse blown, some of FGD status fail.</p>																																																																																							
25-Feb	2. 8FW-ISV-130A handwheel gearbox was broken.WO.2502251044 Status WAMTL.																																																																																							
25-Feb	3. 8BS-SMV-104A Superheater 8 Outletmain Steamsample V/V A gland packing leak. Wo.2502251062 .(Waiting DI)																																																																																							
27-Feb	4. Main filter Stator cooling dp:16.6 kPa (High/HH sp alarm:8/20 kPa) Wo.2502271046																																																																																							
28-Feb	<p>5. Found oil leak from seal guide bearing Primary Air Heater, monitoring.Wo.2502281015</p> <p>6. 8BS-TI-241A 2<sup>nd</sup> Superheater outlet temperature element &lt; than 8BS-TI-240 A (deviation &gt;14 degC). SR118223</p> <p>7. 500 KV SF6 gas leak at )ring gasket phase B 8GD4B1. (Rate leak 0.01 MPa/day, (current Press: 0.50 MPa) SR118224</p> <p>8. Put bias demand FD Fan 8A to -5% for balance flow with FD Fan 8B (Re-adjusting blade waiting plant condition).</p> <p><b>9. Unit 8 High Priority alarm</b> • None</p>																																																																																							
	<b>UNIT 8 ACTIVITIES</b>																																																																																							
08:30-20:00	1. U8 Reability test at load 610NMW	Completed																																																																																						
08:00 (28-Feb)	2. Manual dumping FA-Economizer hopper B and C Done	Completed																																																																																						

05:00-10:00	3. Found economizer hopper drag chain conveyor was broken 4. RPT Record Gas SF6 at 150 kV and 500 kV, lower press = 0,52 Mpa 5. Found TR/RECT 845A overcurrent trip, back restart trip again. (Hopper level normal). 6. Change over CEP 8C to 8B , Found DO tend increasing if running CEP 8C. CEP B motor winding temperature is higher than other (high load pump B temp about 135 degc if Pump A is about 113 degc). 7. Pdm cleaning coal feeder 8A & 8F (clean) 8. CAG of mill 8F unable closed by manual (the valve always back open after closed command is completed) 9. Found hydraulic oil press of FGD A outlet damper is lower than others it's about 1900 Kpa (normally above 3500 Kpa)	Completed Completed SR118209 Completed Completed Completed Completed Completed Completed Completed Completed Completed
08:00		
11:30		
13:35		
23:00		
23:30		Raised SR118214
00:30		Raised SR118219
03:00(02-Mar))	10. 500 KV phase A (0%), B (0%) and C (0%) arching.	Information
05:00(02-Mar))	11. Fill all of Coal Silo with CLHV50% + CH3SF20% + CMHV30%	Information
	<b><i>Balance of Plant</i></b>  CSW / CST (U7/8) Tank Level: 98% ( 92% / 92% ) SWRO A/B product water flow: A/B: 110 m <sup>3</sup> - Standby Total caustic soda consumption: 0 ton	
	<b>Balance of Plant Problem</b>	
06-Jan	1. <b>Retention Basin Pump.</b> CPD-P- 910A, Pump Unbalance. Recondition submersible pump (Waiting material <b>ST038054</b> Victaulic ridged coupling 6" è Lead time 40 days.12-Dec Install retention basin pump CPD-P-910A (refurbish pump), but motor current still high while first start. 07-jan CPD-P-910C External power cable was burn (SR116712) >> apply logic for back up pump mode due to pump A&C are not available.	Progress installation & testing
28-May	2. <b>U78 Fly Ash System:</b> <b>8FA-CMP-103</b> <b>☒ N/A Knocking on drive gear, not accepted for running. SR116521.</b> 04-Feb Start 8FA-CMP-103 run test together with vendor. After 48 hrs load test supply to U7.Done <b>7FA-CMP-103</b> <b>☒ N/A due to High vibration ~ PR189023</b> <b>7FA-CMP-104</b> <b>☒ Inservice to 7 &amp; 8 (26-Feb/11:00) Monitoring</b> <b>CFA-CMP-103</b> <b>☒ STAND BY</b> Temporary Rental compressor: not available <b>Station compressor:</b> Ready standby	Information
	3. <b>7FA-DRY-106:</b> <b>☒ not available (compressor, fan cooler no spare) SR116542</b> <b>7FA-DRY-107:</b> <b>☒ Inservice to U7&amp;8.</b> <b>8FA-DRY-106:</b> <b>☒ Standby</b> <b>CFA-DRY-106:</b> <b>☒ Standby.</b>	Information
26-Aug	4. <b>CRO-P-100A SWRO supply pump, (Last Condition No Motor)</b> 28-Aug Solo run test by EIC & CBM, result motor side Normal. Suspect vibration from pump side. <b>@ 19-Oct, Remove and replace motor of CRO-P-100A to C done</b>	Information
27-Nov	5. Need monitoring during CRO-P-910A in service (oil motor leaks) still investigation	waiting material
7-Jan	6. Aeration Fan A not available due to motor swap to Aeration fan C (bearing fan looseness) need bearing replacement. Motor under refurbishment.	SR116728/ est. motor complete on 28-Feb
31-Jan	7. <b>CRO-P-960C</b> as internal inspection, stator winding is broken (under PR189325, for rewinding). Done Still has vibration at pump side.	Information
25-Jan	8. Station air compressor A low speed Vibration alarm active after running about 5 minutes. 30-Jan Run Test Air Compressor A still vibration 04-Feb Solo run test and impeller inspection result Ok. Need further discussion between maint & eng team.	WO.2501281044/ PR.189713
	<b>UNIT BOP ACTIVITIES</b>	
19-Peb	1. Found CRO-FV-549 inlet DAF flow CV tracking to close and cause pre-treatment tripped. Temp.action: put manual control operation.	WO.2502171020
08:30 – 12:00	2. Repair CRO-P-910B -CB due fail to close during SWRO-Train B in service. done.	Completed
05:00 (01-Mar)	3. Make up DWRO train A reject discharge flow indicator transmitter is bad quality. Temporary force logic and put manual flow control valve.	SR118205
	<b>Load scheduled and Activity for next 24 hours:</b> 1. U78 Maintain load as PLN requested. U7 Full Load ( <b>≥ 595 NMW</b> ) = 0 hrs. TML = 0 hrs. (350 NMW ≤ 590NMW) = 24 hrs. U8 Full Load ( <b>≥ 595 NMW</b> ) = 13 hrs. TML = 0 hrs. (350 NMW ≤ 590NMW) = 11 hrs. 2.	



## 500 KV BUS-B SF6

