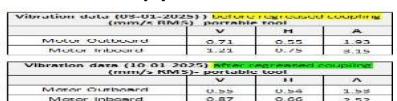
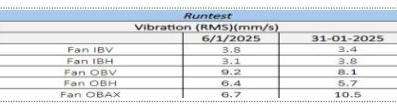


# P78 PRODUCTION SHIFT REPORT

Date : 03 Maret 2025 (Monday)  
 Reported by : Hariyanto / Iwan Priyanto

TIME	DESCRIPTION	REMARK																																																																																						
	<b>Process Safety and Environment Information</b>																																																																																							
20-Nov	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	Update calculation on DCS Waiting Unit Shutdown 																																																																																						
	<b>U 7 Technical Generation Losses</b> Total: 0 MWH	<b>U 8 Technical Generation Losses</b> Total: 0 MWH																																																																																						
27-Feb	Declare U7: 640 NMW, Declare U8: 630 MW (Station: 1270 MW)	Last Sync Sunday, 10-Jan-2025 @19:56																																																																																						
	<b>Unit # 7: Days of continues operation: 51 Days.</b> Last Maintenance Outage (MO) 10-Jan 2025, @14:54 SWGR-A 13.8 trip U7 load Max: 640 MW(GROSS) ; Min: 367 MW(GROSS) ; Average: 526 MW(GROSS) U7 load Max: 605 MW(NET) ; Min: 339 MW(NET) ; Average: 493 MW(NET) NPHR Target / Achieved: 2568/ 2672 (Loss: 4.06%), Eta Pro:2653/ 2567 kcal/kWh (Loss: 3.38%) Un-burn carbon Fly ash and Bottom ash= 0.17% (25-Feb) and 2.80% (25-Feb) Furnace temperature at load 623 MW(Gross) average 1096 °C (max: 1148 °C at inspect. hole #14) Minimize R/H spray. Average MS/RH steam temperature 536 / 528 °C Turbine 8X vibration max 31 µm at MS/RHT 536 / 516 °C load 382 GMW at 02:48 Average vibration 8x / 7X for 24 hours were: 24 / 61 µm U7 Frequency of transfer: A:3;B: 1 ;C: 1;D: 2;E: 0;F: 3 500KV GSUT DGA max / average was 17.0 / 16.6 ppm Make up: 928 tons (open continuous blowdown valve 5 turns). Soot blower: 148 tons, SW pyrites: 292 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 (LTSH Cavity) run every 1 <sup>st</sup> and 15 <sup>th</sup> days of the month (2 times/month). Clinker Condition at Hole No. – <table border="1" data-bbox="198 1178 1119 1257"> <tr> <th>C1</th><th>C2</th><th>W</th><th>10</th><th>11</th><th>12</th><th>13</th><th>14</th><th>15</th><th>16</th><th>17</th><th>18</th><th>E</th><th>C3</th><th>C4</th></tr> <tr> <td>UC</td><td>UC</td><td>1</td><td>-</td><td>C</td><td>C</td><td>1</td><td>3</td><td>4</td><td>2</td><td>1</td><td>-</td><td>C</td><td>UC</td><td>UC</td></tr> </table> 1: Spotty, 2:<5 cm, 3: 5>10 cm, 4:>10<15 cm, 5:>15cm, C: Clean	C1	C2	W	10	11	12	13	14	15	16	17	18	E	C3	C4	UC	UC	1	-	C	C	1	3	4	2	1	-	C	UC	UC	Coal Burn IOL <table border="1" data-bbox="1135 841 1532 1010"> <tr> <th>23:00</th><th>05:00</th><th>11:00</th><th>17:00</th></tr> <tr> <td>CLHV+CMHV+ CH3SF+KJA</td><td>CLHV+CMHV+ CH3SF+KJA</td><td>CLHV+CMHV+ CH3SF+KJA</td><td>CLHV+CMHV+ CH3SF+KJA</td></tr> <tr> <td>4721</td><td>4721</td><td>4721</td><td>4721</td></tr> <tr> <td>28.24</td><td>28.24</td><td>28.24</td><td>28.24</td></tr> <tr> <td>4.48</td><td>4.48</td><td>4.48</td><td>4.48</td></tr> <tr> <td>0.28</td><td>0.28</td><td>0.28</td><td>0.28</td></tr> <tr> <td>50</td><td>50</td><td>50</td><td>50</td></tr> </table> Coal Transfer Plan <table border="1" data-bbox="1135 1021 1532 1245"> <tr> <th>23:00</th><th>5:00</th><th>11:00</th><th>17:00</th></tr> <tr> <td>KJA50% + JMB50%</td><td>KJA50% + JMB50%</td><td>KJA50% + JMB50%</td><td>KJA50% + JMB50%</td></tr> <tr> <td>4853</td><td>4853</td><td>4853</td><td>4853</td></tr> <tr> <td>26.27</td><td>26.27</td><td>26.27</td><td>26.27</td></tr> <tr> <td>4.23</td><td>4.23</td><td>4.23</td><td>4.23</td></tr> <tr> <td>0.2</td><td>0.2</td><td>0.2</td><td>0.2</td></tr> <tr> <td>50</td><td>50</td><td>50</td><td>50</td></tr> </table>	23:00	05:00	11:00	17:00	CLHV+CMHV+ CH3SF+KJA	CLHV+CMHV+ CH3SF+KJA	CLHV+CMHV+ CH3SF+KJA	CLHV+CMHV+ CH3SF+KJA	4721	4721	4721	4721	28.24	28.24	28.24	28.24	4.48	4.48	4.48	4.48	0.28	0.28	0.28	0.28	50	50	50	50	23:00	5:00	11:00	17:00	KJA50% + JMB50%	KJA50% + JMB50%	KJA50% + JMB50%	KJA50% + JMB50%	4853	4853	4853	4853	26.27	26.27	26.27	26.27	4.23	4.23	4.23	4.23	0.2	0.2	0.2	0.2	50	50	50	50
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16-Sep	1. Analyzer Transmitter (OXYGEN) A, 7BG-AT-562A often Alarm Deviation (XMTR A < B deviation more than 1.5%).	Under Investigation by performance team																																																																																						
18-Sep	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) <b>CRV#2 postpone when RPT TG01</b>																																																																																						
06-Nov	3. 7ID-MOV-729A Dilution Pump MOV found gear box crack	Waiting material/WO. 2409051037																																																																																						
06-Nov	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 <b>Trip point:</b> 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 inletside.</b> @ Daily check the leaks rate by Chemist. Leak rate: 2.8 liter per hour. @ <b>11:40 (22-Feb)</b> Open continuous blowdown valve 5 turns (as Req. Chemist), BB cation conductivity 2.89 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). • <b>26-Jan.CFC-MOV-802 hard to open during Absorber pump B start (SR117345)</b>	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.																																																																																							
10:26 (02-Feb)	10. <b>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%) & CHG-V-537 Initial Press H2 Vessel 6.2 Bar.	SR117476 (RTV-310B)																																																																																						

	<p>@ 20:00 found H2 leakage at 7GH-RV-300 waiting material expected end of April 2025 (WO : 2502071118, ST014412)</p> <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>																																														
17:00 (11-Feb)	<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></p> <ul style="list-style-type: none"> <li>•</li> </ul> <p><b>U7 HEAT RATE OPTIMIZATION</b></p> <ol style="list-style-type: none"> <li>1. Opening sofa damper C# 1&amp;2 wider than C#3&amp;4 for direct the combustion to the center.</li> <li>2. Condenser Vacuum improvement and leak investigation (drain valve inspection).</li> <li>3. Supply seal water U#7SSCC Bottom Ash some reuse Effluent Water.</li> </ol>	Information WO.2501141017/ WPCond PIC: pak Sapto PPE																																													
01-Mar	<p><b>UNIT 7 ACTIVITIES</b></p> <ol style="list-style-type: none"> <li>1. Mill 7A leaks feeder outlet pipe leaks, repair complete</li> <li>2. Chemical injection to boiler furnace unit #7 in 3rd floor with doses 100 ppm = 46 pails</li> <li>3. Perform RPT boiler standpipe booster pump</li> <li>4. Found 7TL-PV-292 Aux Steam Seal Feed Pressure Control V/V uncontrolled pressure till 3000 kpa due suddenly pv open. temporary: shut ia supply but the valve not fully closed. Replace card positioner, in progress.</li> <li>5. 500 KV phase A (0%), B (0%) and C (0%) arching.</li> <li>6. Fill all of Coal Silo with KJA50% + JMB50%</li> </ol>	Completed Information Call out Information Information																																													
	<p><b>Unit # 8: Days of continues operation: 06 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.</p> <p>U8 load Max: 652 MW(GROSS) ; Min: 367 MW(GROSS) ; Average: 534 MW(GROSS) U8 load Max: 622 MW(NET) ; Min: 339 MW(NET) ; Average: 505 MW(NET) NPHR Target / Achieved: 2556 / 2586 (Loss:1.17 %), Eta Pro:2554 / 2548 kcal/kWh (Save: 0.24%) Un-burn carbon Fly ash and Bottom ash= 0.17% (25-Feb) and 2.20% (25-Feb) Furnace temperature at load 626 MW(Gross) average 1087 °C (max: 1148 °C at inspect. hole #13) Minimize R/H spray. Average MS/RH steam temperature 528 / 528 °C Turbine 3X vibration max 82 µm at MS/RHT 535 / 528 °C load 369 GMW at 06:50 Average vibration 3X for 24 hours were: 78 µm U8 Frequency of transfer: A:4;B: 5 ;C: 3;D: 4;E: 0;F: 1 500KV GSUT DGA max / average was 32.3 / 32.1 ppm Make up: 477 tons, Soot blower: 136 tons, SW pyrites: 331 tons. <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"> <thead> <tr> <th>C1</th><th>C2</th><th>W</th><th>10</th><th>11</th><th>12</th><th>13</th><th>14</th><th>15</th><th>16</th><th>17</th><th>18</th><th>E</th><th>C3</th><th>C4</th></tr> <tr> <th>UC</th><th>UC</th><th>C</th><th>-</th><th>C</th><th>C</th><th>1</th><th>1</th><th>1</th><th>1</th><th>1</th><th>-</th><th>C</th><th>UC</th><th>UC</th></tr> </thead> <tbody> <tr> <td colspan="15">1: Spotty, 2:&lt;5 cm, 3: 5&gt;10 cm, 4:&gt;10&lt;15 cm, 5: &gt;15cm, C: Clean</td></tr> </tbody> </table>	C1	C2	W	10	11	12	13	14	15	16	17	18	E	C3	C4	UC	UC	C	-	C	C	1	1	1	1	1	-	C	UC	UC	1: Spotty, 2:<5 cm, 3: 5>10 cm, 4:>10<15 cm, 5: >15cm, C: Clean															Last Sync Tuesday, 25-Feb-2025 @02:13
C1	C2	W	10	11	12	13	14	15	16	17	18	E	C3	C4																																	
UC	UC	C	-	C	C	1	1	1	1	1	-	C	UC	UC																																	
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	<p><b>UNIT 8 PROBLEMS</b></p> <ol style="list-style-type: none"> <li>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.</li> <li>2. 8FW-ISV-130A handwheel gearbox was broken.WO.2502251044 Status WAMTL.</li> <li>3. Main filter Stator cooling dp:16.6 kPa (High/HH sp alarm:8/20 kPa) Wo.2502271046</li> <li>4. Found oil leak from seal guide bearing Primary Air Heater, monitoring.Wo.2502281015</li> <li>5. 8BS-TI-241A 2" Superheater outlet temperature element &lt; than 8BS-TI-240 A (deviation &gt;14 degC). SR118223</li> <li>6. 500 KV SF6 gas leak at )ring gasket phase B 8GD4B1. (Rate leak 0.01 MPa/day, (current Press: 0.50 MPa) SR118224</li> <li>7. Put bias demand FD Fan 8A to -5% for balance flow with FD Fan 8B (Re-adjusting blade waiting plant condition).</li> <li>8. <b>Unit 8 High Priority alarm</b></li> <ul style="list-style-type: none"> <li>•</li> </ul> </ol>																																														
	<p><b>UNIT 8 ACTIVITIES</b></p> <ol style="list-style-type: none"> <li>1. <b>Found TR/RECT 845A overcurrent trip, back restart trip again. (Hopper level normal).</b></li> <li>2. CAG of mill 8F unable closed by manual (the valve always back open after closed command is completed)</li> <li>3. Found hydraulic oil press of FGD A outlet damper is lower than others it's about 1900 Kpa (normally above 3500 Kpa), suspect form PI gauge problem (not actual)</li> <li>4. Inject Coal Additive to Furnace 100 ppm (46 pails)</li> <li>5. Bottom ash Conveyor 200 fan belt broken.</li> <li>6. 500 KV phase A (0%), B (0%) and C (0%) arching.</li> <li>7. Fill all of Coal Silo with KJA50% + JMB50%</li> </ol>	SR118209 Raised SR118214 Raised SR118219 Completed Completed Information Information																																													

	<b>Balance of Plant</b> CSW / CST (U7/8) Tank Level: 92% ( 96% / 96% ) SWRO A/B product water flow: A/B: 110 m <sup>3</sup> - 107 m <sup>3</sup> Total caustic soda consumption: 0 ton	
06-Jan	<b>Balance of Plant Problem</b> <ol style="list-style-type: none"> <li><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.<b>12-Dec</b> 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) &gt;&gt; apply logic for back up pump mode due to pump A&amp;C are not available.</li> <li><b>U78 Fly Ash System:</b> <b>CFA-CMP-103</b> <input checked="" type="checkbox"/> Inservice to U7&amp;8 (02-Mar) Last update @10:40 (02-Mar): Resetting Trip Overload current of Breaker done. (trip due to loss of power) <b>TFA-CMP-104</b> <input checked="" type="checkbox"/> Standby @10:40 (02-Mar): Last Trip due to High Air temperature SR118243 <b>Station compressor:</b> <input checked="" type="checkbox"/> Standby 8FA-CMP-103 <input checked="" type="checkbox"/> N/A Knocking on drive gear, not accepted for running. SR116521. 7FA-CMP-103 <input checked="" type="checkbox"/> N/A due to High vibration ~ PR189023 <b>Temporary Rental compressor:</b> <input checked="" type="checkbox"/> N/A not available</li> <li><b>7FA-DRY-107:</b> <input checked="" type="checkbox"/> Inservice to U7&amp;8. 8FA-DRY-106: <input checked="" type="checkbox"/> Standby CFA-DRY-106: <input checked="" type="checkbox"/> Standby. 7FA-DRY-106: <input checked="" type="checkbox"/> N/A not available (compressor, fan cooler no spare) SR116542</li> <li><b>CRO-P-100A SWRO supply pump, (Last Condition No Motor)</b> 28-Aug Solo run test by EIC &amp; 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></li> </ol>	Progress installation & testing
26-Aug	5. Need monitoring during CRO-P-910A in service (oil motor leaks) still investigation	Information
27-Nov	6. Aeration Fan A not available due to motor swap to Aeration fan C (bearing fan looseness) need bearing replacement. Motor under refurbishment.	waiting material
7-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.	SR116728/ est. motor complete on 28-Feb
31-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.	Information
25-Jan		WO.2501281044/ PR.189713
	<b>UNIT BOP ACTIVITIES</b>	
19-Feb	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
01-Mar	2. 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>	
08:00-20:00	<ol style="list-style-type: none"> <li>U78 Maintain load as PLN requested. U7 Full Load (<math>\geq 595 \text{ NMW}</math>) = 11 hrs. TML = 0 hrs. (<math>350 \text{ NMW} \leq 590 \text{ NMW}</math>) = 13 hrs. U8 Full Load (<math>\geq 595 \text{ NMW}</math>) = 13 hrs. TML = 0 hrs. (<math>350 \text{ NMW} \leq 590 \text{ NMW}</math>) = 11 hrs.</li> <li>Unit-8 Reliability Test at 610 NMW (phase-3)</li> </ol>	3-7 Maret 2025

## 500 KV BUS-B SF6

