

# P78 PRODUCTION SHIFT REPORT

Date : 2 Maret 2025 (Sunday)  
 Reported by : Ade Kurniawan / Banariyanto

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 																																																																																																		
07-Feb 09:15(27-Feb)	<p>Discharge Canal Temperature at DC max= 37.4°C          Scrubber basin Outlet PH (DCS) Min/Mx: 6.69 / 7.20          WWTP equalization basin: level A/B: 16% / 42.8%</p> <table border="1"> <tr> <td><b>U 7 Technical Generation Losses</b></td> <td><b>U 8 Technical Generation Losses</b></td> </tr> <tr> <td>Total: 0 MWH</td> <td>Total: 0 MWH</td> </tr> </table> <p>Declare U7: 640 NMW.          Declare U8: 630 MW, U7:640 MW (Station: 1270 MW)</p> <p><b>Unit # 7: Days of continues operation: 50 Days.</b>          Last Maintenance Outage (MO) 10-Jan 2025, @14:54 SWGR-A 13.8 trip          U7 load Max: 402 MW(GROSS) ; Min: 364 MW(GROSS) ; Average: 379 MW(GROSS)          U7 load Max: 373 MW(NET) ; Min: 334 MW(NET) ; Average: 350 MW(NET)          NPHR Target / Achieved: 2721/ 2787(Loss: 2.42%), Eta Pro:2721/ 2792 kcal/kWh (Loss: 2.61%)          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 975 °C (max: 1029 °C at inspect. hole #14)          Minimize R/H spray. Average MS/RH steam temperature 537 / 523 °C          Turbine 8X vibration max 33 µm at MS/RHT 537 / 523 °C load 376 GMW at 05:14          Average vibration 8x / 7X for 24 hours were: 28 / 59 µm          U7 Frequency of transfer: A:4;B: 4 ;C: 0;D: 0;E: 0;F: 4          500KV GSUT DGA max / average was 16.6 / 16.5 ppm          Make up: 824 tons (open continuous blowdown valve 5 turns)          Soot blower: 71 tons, SW pyrites: 180 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"> <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>UC</td><td>UC</td><td>1</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>UC</td><td>UC</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> </p>	<b>U 7 Technical Generation Losses</b>	<b>U 8 Technical Generation Losses</b>	Total: 0 MWH	Total: 0 MWH	C1	C2	W	10	11	12	13	14	15	16	17	18	E	C3	C4	UC	UC	1	-	1	C	1	4	2	2	1	-	C	UC	UC	Last Sync Sunday, 10-Jan-2025 @19:56  <table border="1"> <tr> <td colspan="4">Coal Burn IOL</td> </tr> <tr> <td>23:00</td><td>05:00</td><td>11:00</td><td>17:00</td> </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>4605</td><td>4605</td><td>4605</td><td>4605</td> </tr> <tr> <td>30.45</td><td>30.45</td><td>30.45</td><td>30.45</td> </tr> <tr> <td>4.12</td><td>4.12</td><td>4.12</td><td>4.12</td> </tr> <tr> <td>0.28</td><td>0.28</td><td>0.28</td><td>0.28</td> </tr> <tr> <td>49</td><td>49</td><td>49</td><td>49</td> </tr> </table> <table border="1"> <tr> <td colspan="4">Coal Transfer Plan</td> </tr> <tr> <td>23:00</td><td>5:00</td><td>11:00</td><td>17:00</td> </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>	Coal Burn IOL				23:00	05:00	11:00	17:00	CLHV+CMHV+ CH3SF+KJA	CLHV+CMHV+ CH3SF+KJA	CLHV+CMHV+ CH3SF+KJA	CLHV+CMHV+ CH3SF+KJA	4605	4605	4605	4605	30.45	30.45	30.45	30.45	4.12	4.12	4.12	4.12	0.28	0.28	0.28	0.28	49	49	49	49	Coal Transfer Plan				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	UNIT 7 PROBLEMS	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%).	SR113756 (under investigation Engineering) <b>CRV#2 postpone when RPT TG01</b>																																																																																																		
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	Waiting material/WO. 2409051037																																																																																																		
06-Nov	3. 7ID-MOV-729A Dilution Pump MOV found gear box crack	Monitoring WPCOND/WO.2411071521																																																																																																		
22-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 <b>Trip point: 3.0 Mils</b>																																																																																																		
05-Jan	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	Vibration data (10-01-2025) Motor I-B vibration (mm/s or RMS/mm/s) <table border="1"> <tr> <td>Motor Outboard</td> <td>0.71</td> <td>0.55</td> <td>1.93</td> </tr> <tr> <td>Motor Inboard</td> <td>3.23</td> <td>0.78</td> <td>6.34</td> </tr> </table> Vibration data (10-01-2025) Motor IB vibration (mm/s or RMS/mm/s) <table border="1"> <tr> <td>Motor Outboard</td> <td>0.71</td> <td>0.60</td> <td>3.35</td> </tr> <tr> <td>Motor Inboard</td> <td>0.87</td> <td>0.66</td> <td>2.22</td> </tr> </table>	Motor Outboard	0.71	0.55	1.93	Motor Inboard	3.23	0.78	6.34	Motor Outboard	0.71	0.60	3.35	Motor Inboard	0.87	0.66	2.22																																																																																		
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04-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																																																																																																		
24-Dec	7. <b>Sea water leaks at condenser outer loop inletsid.</b> @ Daily check the leaks rate by Chemist. Leak rate: 2.8 liter per hour. @ 11:40 (22-Feb) Open continuous blowdown valve 5 turns (as Req. Chemist), BB cation conductivity 1.2 Us/cm.	Monitoring, Closed Blowdown valve when BB cation cond 0.5 uS/cm																																																																																																		
31-Jan	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																																																																																																		
10:26 (02-Feb)	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.	SR117476 (RTV-310B)																																																																																																		
10:26 (02-Feb)	10. <b>Generator Hydrogen Leakage</b>																																																																																																			

	<p>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.  <b>@ 20:00</b> found H2 leakage at <b>7GH-RV-300</b> waiting material expected end of April 2025 (WO : 2502071118, ST014412)</p>																																																									
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																																																								
	<p><b>UNIT 7 ACTIVITIES</b></p> <ol style="list-style-type: none"> <li>Change over MT EHC oil due oil filter 7A high DP alarm.</li> <li>Found leakage at casing condenser water box innerloop (south side). DONE, install additional plate</li> <li>Start RPT Lube Oil conditioner BFPT, conditioning to BFPT 7A then 7B</li> <li>Fill all of Coal Silo with KIDECO 100% direct from Barge</li> <li>RPT counting Ball Cleaning, Add = 300 pcs, Existing = 700 pcs, Total = 1000 pcs</li> <li>Gas Up H2 from press 4.86 to 5.09 barg</li> <li>500 KV phase A (0%), B (0%) and C (0%) arching.</li> <li>Fill all of Coal Silo with KJA50% + JMB50%</li> </ol>	Waiting spare Call out, Complete Completed Information Completed Completed Information Information																																																								
	<p><b>Unit # 8: Days of continues operation: 05 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: 610 MW(GROSS) ; Min: 364 MW(GROSS) ; Average: 503 MW(GROSS)  U8 load Max: 578 MW(NET) ; Min: 336 MW(NET) ; Average: 474 MW(NET)  NPHR Target / Achieved: 2588 / 2640 (Loss:1.99 %), Eta Pro:2588 / 2553 kcal/kWh (Save: -1.36%)  Un-burn carbon Fly ash and Bottom ash= 0.17% (25-Feb) and 2.20% (25-Feb)  Furnace temperature at load 588 MW(Gross) average 1062 °C (max: 1120 °C at inspect. hole #12)  Minimize R/H spray. Average MS/RH steam temperature 524 / 527 °C  Turbine 3Y vibration max 104 µm at MS/RHT 529 / 527 °C load 372 GMW at 06:39  Average vibration 3Y for 24 hours were: 98 µm  U8 Frequency of transfer: A:4;B: 5 ;C: 3;D: 4;E: 0;F: 0  500KV GSUT DGA max / average was 32.4 / 32.1 ppm  Make up: 502 tons, Soot blower: 145 tons, SW pyrites: 346 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"> <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> </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>	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	Last Sync Tuesday, 25-Feb-2025 @02:13																										
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	<p><b>UNIT 8 ACTIVITIES</b></p> <ol style="list-style-type: none"> <li>Manual dumping FA-Economizer hopper B and C Done</li> <li>Found TR/RECT 845A overcurrent trip, back restart trip again. (Hopper level normal).</li> </ol>	Completed SR118209																																																								

13:35 (01-Mar)	3. Change over CEP 8C to 8B , Found DO tend increasing if running CEP 8C. @CEP 8B motor winding temperature is higher than other (high load pump B temp about 135 degc if Pump A is about 113 degc).	Monitoring
23:30 (01-Mar)	4. CAG of mill 8F unable closed by manual (the valve always back open after closed command is completed)	Raised <b>SR118214</b>
00:30	5. 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)	Raised <b>SR118219</b>
08:00	6. Inject Coal Additive to Furnace 200 ppm (92 pails)	Completed
09:00-16:00	7. Start RPT Lube Oil conditioner BFPT, conditioning to BFPT 8A then 8B	Completed
11:00	8. Fill all of Coal Silo with KIDECO 100% direct from Barge	Completed
21:00	9. CW Water box Vacum Priming pump fail to start auto & Manually.	Raised <b>SR118245</b>
22:00	10. Pdm Feeder 8C (monitoring clean).	
00:13	11. FGD U8 Trip due to Spike quencher flow low low alarm, check Local Flow Tx normal. Restart FGD.	
03:00(03-Mar)	12. 500 KV phase A (0%), B (0%) and C (0%) arching.	Information
05:00(03-Mar)	13. Fill all of Coal Silo with KJA50% + JMB50%	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> - 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
	2. <b>U78 Fly Ash System:</b> <b>CFA-CMP-103</b> ✓ Inservice to U7&8 (02-Mar) Last update @10:40 (02-Mar): Resetting Trip Overload current of Breaker done.(trip due to loss of power) <b>7FA-CMP-104</b> ☔ Standby @10:40 (02-Mar): Last Trip due to High Air temperature SR118243 Station compressor: ☔Standby 8FA-CMP-103 ✗ N/A Knocking on drive gear, not accepted for running. SR116521. 7FA-CMP-103 ✗ N/A due to High vibration ~ PR189023 Temporary Rental compressor: ✗ N/A not available	Information
	3. <b>7FA-DRY-107:</b> ✓ Inservice to U7&8. 8FA-DRY-106: ☔ Standby CFA-DRY-106: ☔ Standby. 7FA-DRY-106: ✗ N/A not available (compressor, fan cooler no spare) SR116542	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. @ 19-Oct, Remove and replace motor of CRO-P-100A to C done	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-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
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.	<b>SR118205</b>
10:40	4. 7FA-CMP-104 trip due to High Air temperature, then start <b>CFA-CMP-103</b> but after 3 hours trip due to loss of Power. Then restart again 7FA-CMP-104 for U78 FA System, but still any outstanding issue about High Air temperature.	Call Out for CFA-CMP-103 WO:2503021007
<b>Load scheduled and Activity for next 24 hours:</b>		
	1. U78 Maintain load as PLN requested. U7 Full Load (≥ 595 NMW) = 14.5 hrs. TML = 0 hrs. (350 NMW ≤ 590NMW) = 9.5 hrs. U8 Full Load (≥ 595 NMW) = 16 hrs. TML = 0 hrs. (350 NMW ≤ 590NMW) = 8 hrs.	
08:00-20:00	2. Unit-8 Reliability Test at 610 NMW (phase-2)	3-7 Maret 2025



## 500 KV BUS-B SF6

