

P78 PRODUCTION SHIFT REPORT

Date : 05 Maret 2025 (Wednesday)
Reported by : Hariyanto / Agus Mustofa / Iwan Priyanto

TIME	DESCRIPTION	REMARK																																																																																														
	Process Safety and Environment Information																																																																																															
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																																																																																														
	<table><tr><th rowspan="2">Limit</th><th colspan="2">NOX</th><th>CO</th><th colspan="2">SO2</th><th>Particulate</th><th>Mercury (Hg)</th></tr><tr><th>550 mg/Nm³</th><th>35,500 kg/d</th><th>44,000 kg/d</th><th>550 mg/Nm³</th><th>5,064 kg/d</th><th>100 mg/Nm³</th><th>0.03 mg/Nm³</th></tr><tr><td>Unit 7</td><td>10143.1</td><td>5061.5</td><td>3709.5</td><td>2807.0</td><td>1837.1</td><td>5.94</td><td>0.00164</td></tr><tr><td>Unit 8</td><td>352.4</td><td>15607.7</td><td>12854.3</td><td>65.2</td><td>1991.5</td><td>17.21</td><td>0.00050</td></tr></table> <p>Discharge Canal Temperature at DC max= 38.9°C Scrubber basin Outlet PH (DCS) Min/Mx: 6.77 / 7.03 WWTP equalization basin: level A/B: 16% / 33%</p>	Limit	NOX		CO	SO2		Particulate	Mercury (Hg)	550 mg/Nm³	35,500 kg/d	44,000 kg/d	550 mg/Nm³	5,064 kg/d	100 mg/Nm³	0.03 mg/Nm³	Unit 7	10143.1	5061.5	3709.5	2807.0	1837.1	5.94	0.00164	Unit 8	352.4	15607.7	12854.3	65.2	1991.5	17.21	0.00050	<div>CHSF COMP. HIGH SULFUR — KPC,ABK,ALHASANIE, MIP (TS= > 0.3%)</div> <div>CHHV COMP.HIGH HHV JMB,ABE,MBA (HHV= >5000)</div> <div>CMHV COMP.MID HHV ADARO & Kideco (HHV= 4700~5000)</div> <div>CLHV COMP. LOW HHV TITAN —DIZAMATRA (HHV = < 4700)</div>																																																															
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27-Feb	Declare U7: 640 NMW, Declare U8: 630 MW (Station: 1270 MW)																																																																																															
	Unit # 7: Days of continues operation: 53 Days. Last Maintenance Outage (MO) 10-Jan 2025, @14:54 SWGR-A 13.8 trip U7 load Max: 645 MW(GROSS) ; Min: 361 MW(GROSS) ; Average: 463 MW(GROSS) U7 load Max: 611 MW(NET) ; Min: 332 MW(NET) ; Average: 432 MW(NET) NPHR Target / Achieved: 2627 / 2707 (Loss: 3.07%), Eta Pro:2728/ 2633 kcal/kWh (Loss: 3.58%) Un-burn carbon Fly ash and Bottom ash= 0.17% (25-Feb) and 2.80% (25-Feb) Furnace temperature at load 386 MW(Gross) average 993 °C (max: 1073 °C at inspect. hole #14) Minimize R/H spray. Average MS/RH steam temperature 537 / 533 °C Turbine 8X vibration max 30 µm at MS/RHT 537 / 526 °C load 484 GMW at 06:05 Average vibration 8x / 7X for 24 hours were: 24 / 62 µm U7 Frequency of transfer: A:11;B: 5 ;C: 1;D: 6;E: 0;F: 1 500KV GSUT DGA max / average was 17.0 / 16.8 ppm Make up: 896 tons (open continuous blowdown valve 5 turns).Soot blower: 131 tons, SW pyrites: 640 tons. Soot blower skip: - Sootblowers special operations: 420, 421, 422 / 470, 471, 472 (Screen tube), 427/477-428/478-429/479-430/480 (LTSH Cavity) run every 1 st and 15 th days of the month (2 times/month). Clinker Condition at Hole No. —	Last Sync Sunday, 10-Jan-2025 @19:56																																																																																														
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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. Found load decrease disruption when conducted closure test at CRV#2. 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 -->PO 94216/PE/POMI/24, PO Waiting approval from SM																																																																																														
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. PA fan 7B vibration motor I-B bearing has increasing value (1,7 Mills), the event is same time with U8 trip. @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, trip point = 6,25 kPa); PA to furnace DP = 8,8 kPa, trip point = 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 Mills <table><tr><th colspan="4">Vibration data (05-03-2025) before fan bearing inspection (mm/s RMS) portable tool</th></tr><tr><th></th><th>V</th><th>H</th><th>A</th></tr><tr><td>Motor Outboard</td><td>0.73</td><td>0.55</td><td>1.93</td></tr><tr><td>Motor Inboard</td><td>0.23</td><td>0.25</td><td>0.15</td></tr></table> <table><tr><th colspan="4">Vibration data (10-01-2025) after fan bearing inspection (mm/s RMS) portable tool</th></tr><tr><th></th><th>V</th><th>H</th><th>A</th></tr><tr><td>Motor Outboard</td><td>0.35</td><td>0.34</td><td>1.33</td></tr><tr><td>Motor Inboard</td><td>0.07</td><td>0.05</td><td>0.22</td></tr></table>	Vibration data (05-03-2025) before fan bearing inspection (mm/s RMS) portable tool					V	H	A	Motor Outboard	0.73	0.55	1.93	Motor Inboard	0.23	0.25	0.15	Vibration data (10-01-2025) after fan bearing inspection (mm/s RMS) portable tool					V	H	A	Motor Outboard	0.35	0.34	1.33	Motor Inboard	0.07	0.05	0.22																																																														
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04-Jan	6. Sea water leaks at condenser outer loop inlet side. @ Daily check the leaks rate by Chemist. Leak rate: 4.16 liter per hour at load 382 GMW. @ 11:40 (22-Feb) Open continuous blowdown valve 5 turns (as Req. Chemist), BB cation conductivity 1.30 Us/cm.	Monitoring, Closed Blowdown valve when BB cation cond 0.5 uS/cm																																																																																														
24-Dec	7. FGD Operation issue: • 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 (found disc valve has abration indication) . (SR117345)	Monitoring/Waiting plant condition WO.2501281011																																																																																														
31-Jan	8. Found Pulverizer seal air Fan 7A (7BF-FAN-620A) high vibration. 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><tr><th colspan="3">Runtest</th></tr><tr><th colspan="3">Vibration (RM5)(mm/s)</th></tr><tr><th></th><th>6/1/2025</th><th>31-01-2025</th></tr><tr><td>Fan IBV</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>6.7</td><td>10.5</td></tr></table>	Runtest			Vibration (RM5)(mm/s)				6/1/2025	31-01-2025	Fan IBV	3.8	3.4	Fan IBH	3.1	3.8	Fan OBV	9.2	8.1	Fan OBH	6.4	5.7	Fan OBAX	6.7	10.5																																																																						
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10:26 (02-Feb)	9. Generator Hydrogen Leakage 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. @ 20:00 found H2 leakage at 7GH-RV-300 waiting material expected end of April 2025 (WO : 2502071118, ST014412)	SR117476 (RTV-310B)																																																																																														
17:00 (11-Feb)	10. Mill-7C HAG passing	Information																																																																																														

	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)																																																																	
01-Mar	11. Found Valve 7CM-MOV-455 discrepancy alarm, Status WPCond for repair.	WO.2501141017/ WPCond																																																																
	12. Unit 7 High Priority Alarm: •																																																																	
	U7 HEAT RATE OPTIMIZATION																																																																	
	1. Opening sofa damper C# 1&2 wider than C#3&4 for direct the combustion to the center.																																																																	
	2. Condenser Vacuum improvement and leak investigation (drain valve inspection).	PIC: pak Sapto PPE																																																																
	3. Supply seal water U#7SSCC Bottom Ash some reuse Effluent Water.																																																																	
	UNIT 7 ACTIVITIES																																																																	
08:51	1. Increase Generator H2 pressure from 4.8 to 5.1 bar	Completed																																																																
09:00	2. Chemical injection to boiler furnace unit #7 in 3rd floor with doses 50 ppm = 23 pails	Information																																																																
09:59	3. Start dilution pump 7B due to discharge canal temperature high > 38.9 C	Information																																																																
10:02	4. Main turbine valve closure test completed except CRV #2, Control valve no ripple and MW was not fluctuations	Information																																																																
14:01	5. Change over 7BF-FAN-620 B to A due to local check high vibration & temperature high. 16:00 put back C/O 7BF-FAN-620 A to B as req by CBM team.	Monitoring																																																																
03:00 (06-Mar)	6. 500 KV phase A (0%), B (0%) and C (0%) arching.	Information																																																																
05:00 (06-Mar)	7. Fill all of Coal Silo with CLHV=30% + CHSF=40% + CHHV=30%	Information																																																																
	Unit # 8: Days of continues operation: 08 Days 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																																																																
	U8 load Max: 663 MW(GROSS) ; Min: 360 MW(GROSS) ; Average: 548 MW(GROSS) U8 load Max: 631 MW(NET) ; Min: 333 MW(NET) ; Average: 519 MW(NET) NPHR Target / Achieved: 2542 / 2537 (SAVE:0.17 %), Eta Pro:2543 / 2532 kcal/kWh (Save: 0.44%) Un-burn carbon Fly ash and Bottom ash= 0.17% (25-Feb) and 2.20% (25-Feb) Furnace temperature at load 643 MW(Gross) average 1128 °C (max: 1205 °C at inspect. hole #15) Minimize R/H spray. Average MS/RH steam temperature 530 / 533 °C Turbine 3X vibration max 81 µm at MS/RHT 535 / 533 °C load 613 GMW at 12:19 Average vibration 3X for 24 hours were: 76 µm U8 Frequency of transfer: A:4;B: 5 ;C: 4;D: 4;E: 4;F: 1 500KV GSUT DGA max / average was 32.2 / 32.1 ppm Make up: 532 tons, Soot blower: 143 tons, SW pyrites: 290 tons. Sootblowers special operations: 420, 421, 422 / 470, 471, 472 (Screen tube), 427/477-428/478-429/479-430/480 (LTSH Cavity) run every 1 st and 15 th days of the month (2 times/month). Clinker Condition at Hole No. –	<table><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><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>4629</td><td>4629</td><td>4629</td><td>4629</td></tr><tr><td>29.17</td><td>29.17</td><td>29.17</td><td>29.17</td></tr><tr><td>5.78</td><td>5.78</td><td>5.78</td><td>5.78</td></tr><tr><td>0.34</td><td>0.34</td><td>0.34</td><td>0.34</td></tr><tr><td>50</td><td>50</td><td>50</td><td>50</td></tr></table> <table><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><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	4629	4629	4629	4629	29.17	29.17	29.17	29.17	5.78	5.78	5.78	5.78	0.34	0.34	0.34	0.34	50	50	50	50	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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UC	UC	C	-	2	1	1	2	1	1	2	-	C	UC	UC																																																				
	UNIT 8 PROBLEMS																																																																	
24-Feb	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). >>Monitoring @ 26-PEB/ 10:07 Drop5 FGD fuse blown, some of FGD status fail.																																																																	
25-Feb	2. 8FW-ISV-130A handwheel gearbox was broken.WO.2502251044 Status WAMTL.																																																																	
27-Feb	3. Main filter Stator cooling current dp:16.6 kPa (High/HH sp alarm:8/20 kPa) Wo.2502271046																																																																	
28-Feb	4. 8BS-TI-241A 2 nd Superheater outlet temperature element < than 8BS-TI-240 A (deviation >14 degC). SR118223																																																																	
28-Feb	5. 500 KV SF6 gas leak at)ring gasket phase B 8GD4B1. (Rate leak 0.01 MPa/day, (current Press: 0.49 MPa) SR118224																																																																	
28-Feb	6. Put bias demand FD Fan 8A to -5% for balance flow with FD Fan 8B (Re-adjusting blade waiting plant condition).																																																																	
	7. Unit 8 High Priority alarm •-																																																																	
	UNIT 8 HEAT RATE OPTIMIZATION																																																																	
	1. Improve vacuum condenser with survey & check tightness of valve drain to condenser.(Perf Team)	Inprogress																																																																
	2. U8 Boiler Tuning.(Perf Team)	Inprogress																																																																
	UNIT 8 ACTIVITIES																																																																	
01-Mar	1. Found TR/RECT 845A overcurrent trip, back restart trip again. 09:00 Replace SCR & Restart.	Completed																																																																
09:00	2. Inject Coal Additive to Furnace 50 ppm (23 pails)	Completed																																																																
10:00-19:30	3. U8 Reliability test & combustion test on high load (NC).	Information																																																																
03:00 (06-Mar)	4. 500 KV phase A (0%), B (0%) and C (0%) arching.	Information																																																																
05:00 (06-Mar)	5. Fill all of Coal Silo with CHSF=40% + CLHV=30% + CHHV=30% (Test combustion tunning)	Information																																																																
	Balance of Plant																																																																	

	CSW / CST (U7/8) Tank Level: 88% (98% / 98%) SWRO A/B product water flow: A/B: 110 m³ - 107 m³ Total caustic soda consumption: 0 ton	
	Balance of Plant Problem	
06-Jan	1. Retention Basin Pump. CPD-P- 910A, Pump Unbalance. Recondition submersible pump (Waiting material ST038054 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. U78 Fly Ash System: CFA-CMP-103 ✓ 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) 7FA-CMP-104 ⚡ 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. 7FA-DRY-107: ✓ 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. CRO-P-100A SWRO supply pump, (Last Condition No Motor) 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	WAMTL
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.	PO 88855 ETA.09-Mar
25-Jan	7. 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 PR.189713 --> 95604/PE/POMI/25 (Status : PO raised)
01-Mar	8. Make up DWRO train A reject discharge flow indicator transmitter CDW-FIT-502A is bad quality. Temporary force logic and put manual flow control valve. SR118205.	WAMTL
	UNIT BOP ACTIVITIES	
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
13:00	2. Stop recycle mix bed B (Conductivity : 0.105). Info to chemist team.	Information
	Load scheduled and Activity for next 24 hours:	
	1. U78 Maintain load as PLN requested. U7 Full Load (≥ 595 NMW) = 13.5 hrs. TML = 0 hrs. ($350 \text{ NMW} \leq 590 \text{ NMW}$) = 10.5 hrs. U8 Full Load (≥ 595 NMW) = 18.0 hrs. TML = 0 hrs. ($350 \text{ NMW} \leq 590 \text{ NMW}$) = 6.0 hrs.	
08:00-20:00	2. Unit-8 Reliability Test at 610 NMW (phase-3)	3-7 Maret 2025

U7 CEMS



