

# P78 PRODUCTION SHIFT REPORT

Date : 27 August 2025 (Wednesday)  
 Reported by : Ade Kurniawan / Banariyanto / Agus Mustofa

TIME	DESCRIPTION	REMARK																																																																																						
	<b>Process Safety and Environment Information</b>																																																																																							
20-Nov	Unit 7 reading for accumulation in the CEMS at the DCS is higher than the accumulation displayed on the CEMS dashboard.																																																																																							
5-Aug	U7 Boiler elevator not available due jammed on between 1 <sup>st</sup> and 2 <sup>nd</sup> Floor, found rope no.5 was out of the pulley and one part of woven rope broken.	Update the calculation on the DCS while waiting for the unit #7 outage. Waiting for the wire rope spare. (PO 97928) 																																																																																						
	<table border="1"> <thead> <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/Nm<sup>3</sup></th> <th>35,500 kg/d</th> <th>44,000 kg/d</th> <th>550 mg/Nm<sup>3</sup></th> <th>5064 kg/d</th> <th>mg/Nm<sup>3</sup></th> <th>0.03 mg/Nm<sup>3</sup></th> </tr> </thead> <tbody> <tr> <td>Unit 7</td> <td>268.7</td> <td>9701.7</td> <td>2435.2</td> <td>29.2</td> <td>1072.9</td> <td>5.86</td> <td>0.00284</td> </tr> <tr> <td>Unit 8</td> <td>2556.5</td> <td>23860.5</td> <td>2915.4</td> <td>250.9</td> <td>1306.6</td> <td>5.51</td> <td>0.0017</td> </tr> </tbody> </table>		Limit	NOX		CO	SO2		Particulate	Mercury (Hg)	550 mg/Nm <sup>3</sup>	35,500 kg/d	44,000 kg/d	550 mg/Nm <sup>3</sup>	5064 kg/d	mg/Nm <sup>3</sup>	0.03 mg/Nm <sup>3</sup>	Unit 7	268.7	9701.7	2435.2	29.2	1072.9	5.86	0.00284	Unit 8	2556.5	23860.5	2915.4	250.9	1306.6	5.51	0.0017																																																							
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	The maximum temperature recorded at the Discharge Canal (DCS) is 37 °C Scrubber basin Outlet PH (DCS) Min/Max: 6.42 / 6.61 WWTP equalization basin: level A/B: 31 % / 40 %																																																																																							
	<b>U 7 Technical Generation Losses</b> <table border="1"> <tr> <td>Total: 0 MWH</td> <td>Total: 0 MWH</td> </tr> </table>	Total: 0 MWH	Total: 0 MWH																																																																																					
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06:52 (15-Aug)	Declare U7: 640 NMW, U8: 637 NMW, Station 1277 NMW																																																																																							
	<b>Unit # 7: Days of continues operation: 40 Days.</b> Last forced/ Planned outage/ Trip: 16-July-2025. @ 17:39 FO boiler wall tube leaks at C#4 3 <sup>rd</sup> floor. U7 load Max: 646 MW(GROSS) ; Min: 371 MW(GROSS) ; Average: 558 MW(GROSS) U7 load Max: 620 MW(NET) ; Min: 353 MW(NET) ; Average: 530 MW(NET) NPHR Target / Achieved: 2528 / 2522 (Save: -0.22%), Eta Pro: 2518 / 2517 kcal/kWh (Loss: 0.04%) Un-burn carbon Fly ash and Bottom ash= 0.23% (12-Aug) and 5.72% (19-Aug) Furnace temperature at load 624 MW(Gross) average 1177 °C (max: 1210 °C at inspect. hole #15) Minimize R/H spray. Average MS/RH steam temperature 538 / 528 °C Turbine 8X vibration max 28 µm at MS/RHT 538 / 518 °C load 469 GMW at 04:49 Average vibration 8x / 7X for 24 hours were: 23 / 66 µm U7 Frequency of transfer: A:3;B: 3 ;C: 3;D: 3;E: 3;F: 0 500KV GSUT DGA max / average was 41.4 / 41.1 ppm Make up: <b>436</b> tons (Regen-ex CPP 7C), Soot blower: <b>163</b> tons, SW pyrites: <b>89</b> tons. Soot blower skip: <b>494 (motor jammed)</b> <b>Soot blowers special operations:</b> 420, 421, 422 / 470, 471, 472 (Screen tube), 427/477-428/478-429/479-430/480 (LTS203 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>C</td><td>-</td><td>1</td><td>C</td><td>1</td><td>5</td><td>1</td><td>2</td><td>1</td><td>-</td><td>C</td><td>UC</td><td>UC</td> </tr> </table> <p style="text-align: center;">1: Spotty, 2:&lt;5 cm, 3:&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	-	1	C	1	5	1	2	1	-	C	UC	UC	Last Sync Sunday, 20-Jul-2025 @00:39 <b>Coal Burn IOL</b> <table border="1"> <thead> <tr> <th>05:00</th><th>11:00</th><th>17:00</th><th>23:00</th> </tr> </thead> <tbody> <tr> <td>CMHV = 60% + CLHV = 30% + CH3SF = 10%</td><td>CMHV = 60% + CLHV = 30% + CH3SF = 10%</td><td>CMHV = 60% + CLHV = 30% + CH3SF = 10%</td><td>CMHV = 60% + CLHV = 30% + CH3SF = 10%</td> </tr> <tr> <td>4607</td><td>4607</td><td>4607</td><td>4607</td> </tr> <tr> <td>30.27</td><td>30.27</td><td>30.27</td><td>30.27</td> </tr> <tr> <td>3.24</td><td>3.24</td><td>3.24</td><td>3.24</td> </tr> <tr> <td>0.25</td><td>0.25</td><td>0.25</td><td>0.25</td> </tr> <tr> <td>48</td><td>48</td><td>48</td><td>48</td> </tr> </tbody> </table> <b>Coal Transfer Plan</b> <table border="1"> <thead> <tr> <th>05:00</th><th>11:00</th><th>17:00</th><th>23:00</th> </tr> </thead> <tbody> <tr> <td>CMHV = 50% + CLHV = 40% + CH3SF = 10%</td><td>CMHV = 50% + CLHV = 40% + CH3SF = 10%</td><td>CMHV = 50% + CLHV = 40% + CH3SF = 10%</td><td>CMHV = 50% + CLHV = 40% + CH3SF = 10%</td> </tr> <tr> <td>4754.5</td><td>4754.5</td><td>4754.5</td><td>4754.5</td> </tr> <tr> <td>29.36</td><td>29.36</td><td>29.36</td><td>29.36</td> </tr> <tr> <td>2.86</td><td>2.86</td><td>2.86</td><td>2.86</td> </tr> <tr> <td>0.26</td><td>0.26</td><td>0.26</td><td>0.26</td> </tr> <tr> <td>46.7</td><td>46.7</td><td>46.7</td><td>46.7</td> </tr> </tbody> </table>	05:00	11:00	17:00	23:00	CMHV = 60% + CLHV = 30% + CH3SF = 10%	CMHV = 60% + CLHV = 30% + CH3SF = 10%	CMHV = 60% + CLHV = 30% + CH3SF = 10%	CMHV = 60% + CLHV = 30% + CH3SF = 10%	4607	4607	4607	4607	30.27	30.27	30.27	30.27	3.24	3.24	3.24	3.24	0.25	0.25	0.25	0.25	48	48	48	48	05:00	11:00	17:00	23:00	CMHV = 50% + CLHV = 40% + CH3SF = 10%	CMHV = 50% + CLHV = 40% + CH3SF = 10%	CMHV = 50% + CLHV = 40% + CH3SF = 10%	CMHV = 50% + CLHV = 40% + CH3SF = 10%	4754.5	4754.5	4754.5	4754.5	29.36	29.36	29.36	29.36	2.86	2.86	2.86	2.86	0.26	0.26	0.26	0.26	46.7	46.7	46.7	46.7
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	<b>UNIT 7 PROBLEMS</b> <ol style="list-style-type: none"> <li>A load dropped during the closure test conducted on CRV#2. The load dropped from 628 GWM to 407 GWM due to the sudden closure of IV#1 and RSV#1.            17-Apr, the Engineering team performed a simulation stroke test and did not find any anomalies. CRV#2 postpone when RPT TG01. Planning will carry out the test when unit 7 progress shutdown for PO.</li> <li>PA fan 7B vibration motor I-B bearing has increasing value (1,7 Mills), the event is same time with U8 trip. (Trip point: 3.0 Mills)            22-Jul Vibration still high about 1.53 Mills after balancing unit FO load 610NMW            30-Jul Vibration about 1.4 Mills at load 700 GMW (NDC test).</li> <li>Generator Hydrogen Leakage            From investigation found H2 leakage at <b>7GH-RV-300</b></li> <li>Found Relief valve of LP heater 100A was passing.            Trial lift up/ jacking but still not success. 13-Aug Install temporary hose for direct the drain water to condensate drain tank through the overflow line.</li> <li><b>7TM-Watts-Net had fluctuated until 50 MW, found that transducer problem.</b> <ul style="list-style-type: none"> <li>a. Put Limit set House Load 30-35 NMW at load 595NMW. (Force Logic)</li> <li>b. ENG team found that bad quality problem ELC communication from U7 KWH meters to DCS (WO P10. 2508261035)</li> <li>c. Power Coal Handling supply from unit 8.</li> </ul> </li> <li><b>Unit 7 High Priority Alarm:</b> <ul style="list-style-type: none"> <li>None</li> </ul> </li> </ol>																																																																																							
	<b>U7 HEAT RATE OPTIMIZATION</b> <ol style="list-style-type: none"> <li>To improve heat transfer condenser and reduce consequence overheat cond. tube/increasing reliability tube (target condenser press: &lt; 70 mmHg at 610 NMW)           <ul style="list-style-type: none"> <li>➤ Check and make sure the water level is full of water by verifying venting float valve to atmosphere, put auto vacuum priming pump in operation, find local level sight glass condenser dirty/corrosion (will be replaced next outage)</li> <li>➤ Check air ingress all drain line which connected to condenser (HP/LP steam pressure) by using helium gas, using thermal imaging, opening insulator and visual check.</li> <li>➤ Verify vent/drain Boiler &amp; turbine valves Post U7 RTS. 57 valves have been inspected; 25 valves were passing.</li> </ul> </li> <li>Biassing O2 trim: - 0,5% during low load operation</li> <li>Reduce ESP TR amp setting Row#1234: 800/1000/1200/200 mA</li> </ol>	SR113756 (under investigation Engineering) WP Cond (Unit offline)  WO:2503061049 Monitoring/ WP Cond (Unit offline)  (WO: 2502071118, ST014412) waiting material expected end of 7 Sept 2025  SR121926 Repair WP Cond (Unit offline)  WO P10. <b>2508261035</b> PO <b>97984</b> Status Raised  Continued implemented  Continued implemented  Continued implemented																																																																																						
(09-Mar)																																																																																								

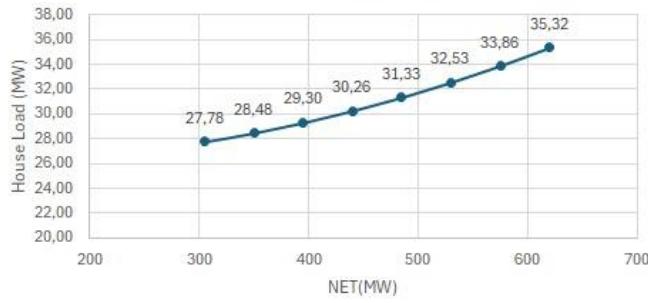


	<b>•U8 HEAT RATE OPTIMIZATION</b>													
24-Mar	1. To improve heat transfer condenser and reduce consequence overheat cond. tube/increasing reliability tube (target condenser press: < 70 mmHg at 610 NMW) <ul style="list-style-type: none"> <li>➤ Check and make sure the water box level is full of water by verifying venting float valve to atmosphere, put auto vacuum priming pump in operation, found local level sight glass condenser was dirty/corrosion (will be replaced next outage)</li> </ul>	Information												
05-May	➤ To improve AH efficiency gas side, Change the AH soot blowers' cycle from 3 to 4 times/day. <b>Result:</b> AH gas out temperature still increases even though the inlet AH can be reduced, Change the AH soot blower cycle from 3 to 4 continue meanwhile the issue will be discussed with the OEM <ul style="list-style-type: none"> <li>➤ Continue operating cycle soot blower 4 times/day. Planning to increase pressure and steam flow to increase cleaning efficiency (will be done by ENG Pak Kadar).</li> </ul>	Continued implemented												
30-May	2. Bias O2 trim 3,5% at high load, burner tilt set higher at 53-55 %, to reduce CO and Decrease AH outlet temperature 3. Reduce ESP TR amp setting Row1234: 800/1000/1200/200 mA	Continued implemented Continued implemented												
	<b>UNIT 8 ACTIVITIES</b>													
00:01-16:00	1. Maintain Load as PLN scheduled	Information												
08:40	2. U8 Boiler Pumps and Fans Change Over Duty to Standby at 00.00 and Return Back to Original Duty at 16.00.	Complete												
08:55	3. Start Coal Additive injection with doses 50 ppm, 23 pails	Information												
09:00-10:20	4. RPT 8FW-01	Information												
00:01	5. RPT Start MD-BFP	Information												
03:00 (28-Aug)	6. Found Anomali reading at 500 KV check meter M1.	SR122689												
05:00 (28-Aug)	7. 500 KV phase A (0%), B (0%) and C (0%) arching.	Information												
	8. Fill all of Coal Silo with CMHV = 50% + CLHV = 40% + CH3SF = 10%	Information												
	<table border="1"> <tr> <td>Torque bar temperature</td> <td>HPSV (LH) (12:00/00:01)</td> <td>LPSV (RH) (12:00/00:01)</td> <td>Grease condition (Normal/Melting)</td> </tr> <tr> <td>BFPT 8A</td> <td>46.5 / 44.8 deg C</td> <td>68.8 / 66 deg C</td> <td>Normal</td> </tr> <tr> <td>BFPT 8B</td> <td>42.8 / 41.7 deg C</td> <td>56.5 / 53.3 deg C</td> <td>Normal</td> </tr> </table>	Torque bar temperature	HPSV (LH) (12:00/00:01)	LPSV (RH) (12:00/00:01)	Grease condition (Normal/Melting)	BFPT 8A	46.5 / 44.8 deg C	68.8 / 66 deg C	Normal	BFPT 8B	42.8 / 41.7 deg C	56.5 / 53.3 deg C	Normal	
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BFPT 8B	42.8 / 41.7 deg C	56.5 / 53.3 deg C	Normal											
	<b>9. Balance of Plant</b>													
	CSW / CST (U7/8) Tank Level: 88% (86% / 86%) SWRO A/B product water flow: A/B: 108 m³ / 111 m³ Total caustic soda consumption: 0 tons													
	<b>BOP PROBLEMS</b>													
	1. <b>U78 Fly Ash System:</b> <b>CFA-CMP-103</b> <input checked="" type="checkbox"/> <b>N/A PR190708 Repair leak at Body Compressor (still in the process of finding a vendor).</b> <b>7FA-CMP-104</b> <input checked="" type="checkbox"/> <b>Inservice to U7. (15-Apr)</b> <b>8FA-CMP-103</b> <input checked="" type="checkbox"/> <b>N/A Knocking on drive gear, not accepted for running~ PO92564 (Waiting for a response from the vendor regarding the warranty discussion.)</b> <b>7FA-CMP-103</b> <input checked="" type="checkbox"/> <b>N/A due to High vibration ~ PR189023 Purchase New Compressor (belum ada PO).</b> <b>Temporary Rental compressor</b> <input checked="" type="checkbox"/> <b>N/A 1of2 Compressor Cooler leaks.</b> <b>Station Compressor:</b> <input checked="" type="checkbox"/> <b>Inservice to U8. (30-Apr).</b>	Information												
	2. <b>7FA-DRY-107:</b> <input checked="" type="checkbox"/> <b>Inservice to U7(15-Apr).</b> <b>8FA-DRY-106:</b> <input checked="" type="checkbox"/> <b>N/A Leak on evaporator, PO92564</b> <b>CFA-DRY-106:</b> <input checked="" type="checkbox"/> <b>Inservice to U8(Since 15-Apr).</b> <b>7FA-DRY-106:</b> <input checked="" type="checkbox"/> <b>N/A As found the fan condensing cannot run / short and need replace. Leak on evaporator. WO 2503141003</b>	Information												
10-Jul	3. Put out of service Polishing Filter A due to sand release (chemist request). Need internal inspection. WO.2507101038 @ 18-Aug Isolate CRO-FLT-200A for Sorting sand filter if any deformed media filter Inspect nozzle if any defect. Target completion on 04-Sep	WMATL Filter ST033399-PO97266 ETA 20-Sept-25.												
9-Aug	4. Found Potable Water to admin building underground leaks at north side Semanggi bridge.	SR122227 Waiting for an update from planner												
	<b>UNIT BOP ACTIVITIES</b>													
	Maintain CST, SWT and Portable Water Tank Level are adequate.													
	1. SWRO 100% in service Train-B and DWRO stand by	Information												
	2.													
	<b>Load scheduled and Activity for next 24 hours:</b>													
	1. U78 Maintain load as PLN requested. <ul style="list-style-type: none"> <li>- U7 Full Load (<math>\geq 595 \text{ NMW}</math>) = 14.5 hrs. TML = 0 hrs. (<math>350 \text{ NMW} \leq 590 \text{ NMW}</math>) = 9.5 hrs.</li> <li>- U8 Full Load (<math>\geq 595 \text{ NMW}</math>) = 14.5 hrs. TML = 0 hrs. (<math>350 \text{ NMW} \leq 590 \text{ NMW}</math>) = 9.5 hrs.</li> </ul>	Information												
	2. PTW <ul style="list-style-type: none"> <li>- WTP 78 will support water for P3 during Outage Work due P3 WTP not availabel on 24-Aug till 03-Sep</li> <li>- Verify Motor Heater Dilution Pump 8B.</li> <li>- Replace MPR Aeration Fan 701C.</li> </ul>													
	3. Routine Production Test <ul style="list-style-type: none"> <li>- U8 Test Run Boiler Fire Booster Pump.</li> </ul>	Information												
	4. Performance activities & Trouble Shooting. <ul style="list-style-type: none"> <li>-</li> </ul>													

26-August



House Load Vs Net Unit 7  
(reference data 2024)



27-August (Before-After) Turbine Valve Closure Test

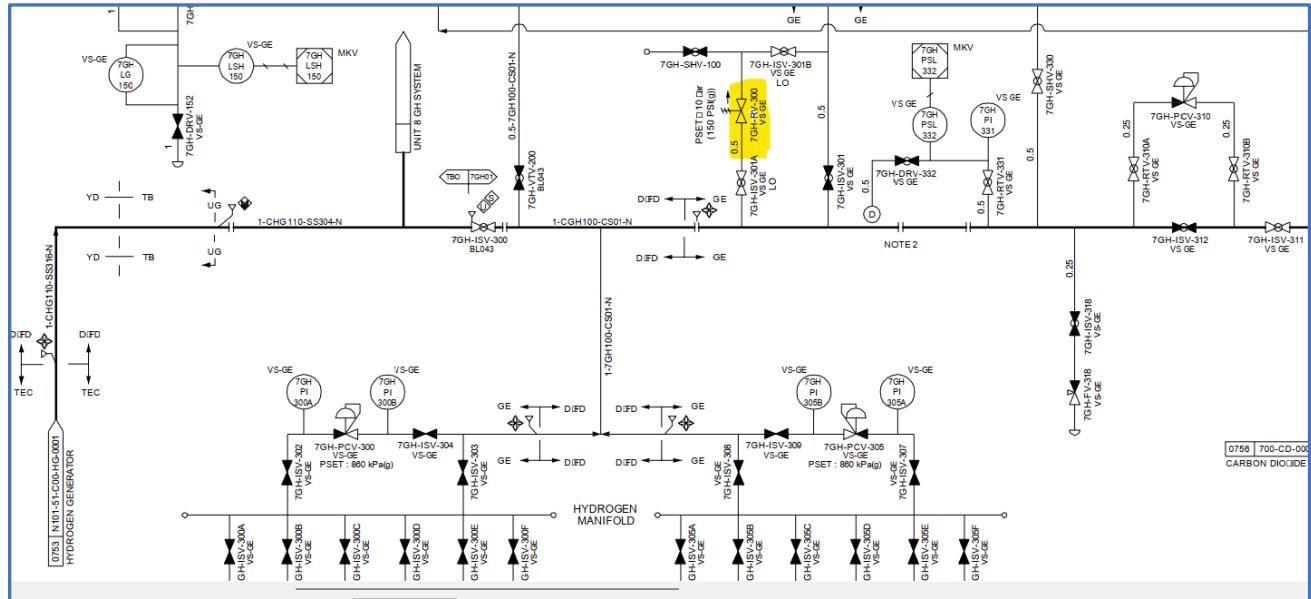




WhatsApp Video  
2025-08-24 at 05.37.

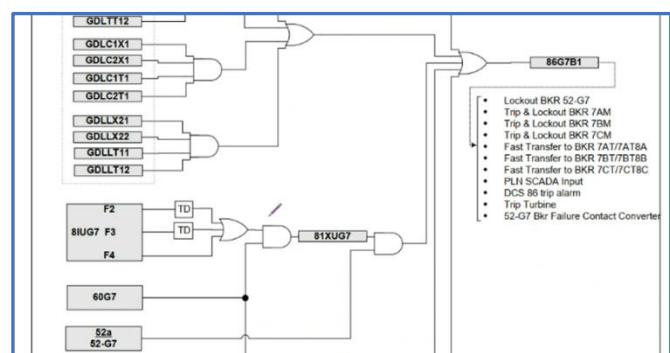
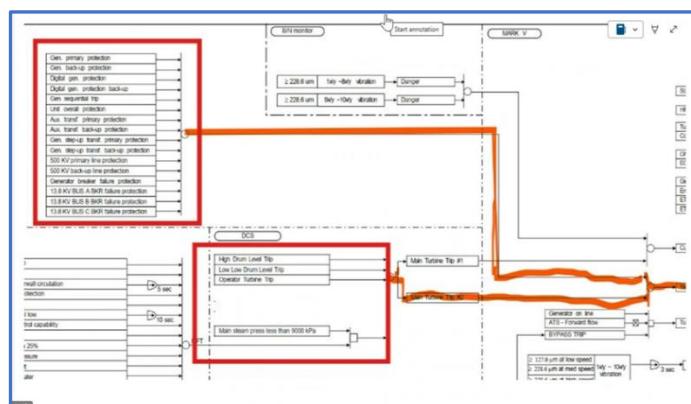
need reposition, due to water coming out (**SR122591**)

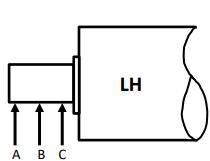
## U7 CONDENSATE DRAIN TANK (LP HTR-2 RV connection)



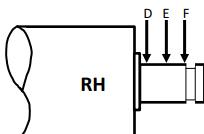
7GH-RV-300

## OFR & UFR lock out relay





BFPT-8A Left



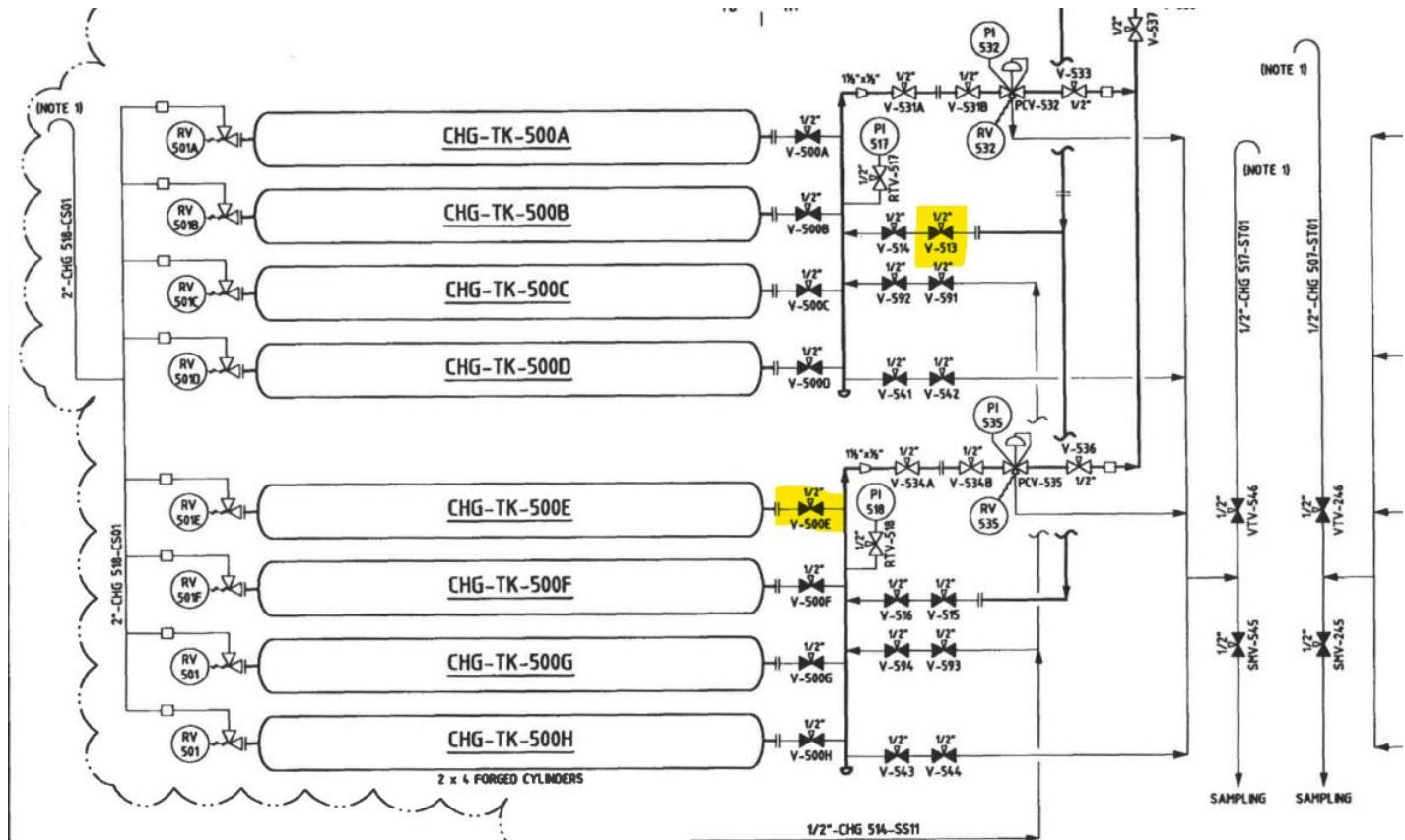
BFPT-8A Right

BFPT-8B Left

BFPT-8B Right

## Valve list U7 passing.

No	Execution Date	Tag Number	Description	Temperature Before Act (normal <82)	Result	Location	Scaffolding Access (PxLxI)	SR no.
1	26-Jun-25	7BS-MOV-120A	MAIN STEAM LOW PT DRN	>410	PASSING	Mezzanine floor west side	NO	(WO 2505051024)
2		7BS-MOV-120B	MAIN STEAM LOW PT DRN	104	PASSING	Mezzanine floor west side	NO	
3		7BS-MOV-134A	COLD REHEAT 7A AC DRAIN	226	PASSING	ground floor above 5 m	2x1x4	
4		7BS-MOV-134B	COLD REHEAT 7B BC DRAIN	229	PASSING	ground floor above 5 m	2x1x4	
5		7BS-MOV-135A	COLD REHEAT 7A AC DRAIN	228	PASSING	ground floor above 5 m	2x1x4	
6		7BS-MOV-135B	COLD REHEAT 7B AC DRAIN	240	PASSING	ground floor above 5 m	2x1x4	
7		7BS-MOV-116A	HP BYPASS 7A LOW PT DRN	201	PASSING	ground floor above 5 m	2x1x4	
8		7BS-MOV-170A	HP BYPASS 7A LOW PT DRN	116	PASSING	ground floor above 5 m	2x1x4	
9		7BS-MOV-170B	HP BYPASS 7B LOW PT DRN	201	PASSING	ground floor above 5 m	2x1x4	
10		7BS-MOV-114A	BFPT 7A LOW PT DRN	388	PASSING	Mezzanine North BFPT A	NO	
11	27-Jun-25	7HB-ISV-204A	EXTRACTION 8A LOW PT DRN	234	PASSING	ground floor above 5 m	2x1x4	7HB-ISV-204A (SR122134), 7HB-ISV-800A (SR122135)
12		7HB-ISV-207A	EXTRACTION 8A LOW PT DRN	320	PASSING	Mezzanine floor	NO	SR122131
13		7HB-ISV-204B	EXTRACTION 8B LOW PT DRN	245	PASSING	ground floor above 5 m	2x1x4	7HB-ISV-204B (SR122132), 7HB-ISV-800B (SR122133)
14		7HB-ISV-207B	EXTRACTION 8B LOW PT DRN	341	PASSING	Mezzanine floor	NO	
15		7HB-ISV-220A	EXTRACTION 7A LOW PT DRN	187	PASSING	Operating floor above 4 m	2x1x3	7HB-ISV-220A (SR122128), 7HB-ISV-700A (SR122129)
16		7HB-ISV-220B	EXTRACTION 7B LOW PT DRN	172	PASSING	Operating floor above 4 m	2x1x3	SR122130
17		7HB-ISV-230A	EXTRACTION 6A LOW PT DRN	286	PASSING	ground floor above 5 m	2x1x4	SR122127
18		7HB-ISV-233A	EXTRACTION 6A LOW PT DRN	350	PASSING	Mezzanine floor	NO	SR120149
19		7HB-ISV-230B	EXTRACTION 6B LOW PT DRN	255	PASSING	ground floor above 5 m	2x1x4	SR122126
20		7HB-ISV-233B	EXTRACTION 6B LOW PT DRN	340	PASSING	Mezzanine floor	NO	
21	28-Jun-25	7BS-MOV-151A	LP BYPASS 7A LOW PT DRN	241	PASSING	Ground floor above 2 met	2x1x2	
22		7BS-MOV-151B	LP BYPASS 7B LOW PT DRAIN	>410	PASSING	Ground floor above 2 met	2x1x2	
23		7BS-MOV-114B	BFPT 7B LOW PT DRN	-	PASSING	Mezzanine South BFPT B	NO	
24		7BS-MOV-165A	LOW PRESSURE TURBINE BYPASS DRAIN POTMO	>410	PASSING	Mezzanine floor	2x1x0	
25		7BS-MOV-165B	LOW PRESSURE TURBINE BYPASS DRAIN POTMO	393	PASSING	Mezzanine floor	2x1x0	



- INSTALL SCAFFOLDING FOR ACCES INSPECT AND REPAIR VALVE CCM-ISV-753 (CATION  
REGENERATION VESSEL ANION RESIN OUTLET ISOL V/V)  
**REPAIR OR REPLACE IF VALVE CANNOT REPAIR.**