

AUGUST 2022

HENDRINA POWER STATION MONTHLY EMISSIONS REPORT Atmospheric Emission License 17/4/AEL/MP313/11/16





1 RAW MATERIALS AND PRODUCTS

Raw	Raw Material Type	Units	Max. Permitted Consumption Rate	Consumption Rate Aug-2022
Materials and Products	Coal	Tons	820 000	141 751.0
Products	Fuel Oil	Tons	3 200	752416
HEN	Product / By-Product Name	Units	Max. Production Capacity Permitted	Production Rate Aug-2022
Production	Product / By-Product Name Energy	Units GWh		Production Rate Aug-2022
Production Rates	to all transmitting managers the up that the		Permitted	

2 ENERGY SOURCE CHARACTERISTICS

Coal Characteristics	Units	Stipulated Range	Monthly Average Content
Sulphur Content	%	0.6 to < 1	0.90
Ash Content	%	31 to < 35	26.50

3 EMISSION LIMITS (mg/Nm³)

Associated Unit/Stack	РМ	SO ₂	NOx
North	75	3200	1200
South	75	3200	1200

4 ABATEMENT TECHNOLOGY (%)

Associated Unit/Stack	Technology Type	Efficiency Aug-2022
Unit 1	Fabric Filter Plant (FFP)	Unit Off-line
Unit 2	Fabric Filter Plant (FFP)	99.961%
Unit 3	Fabric Filter Plant (FFP)	Unit Off-line
Unit 4	Fabric Filter Plant (FFP)	Unit Off-line
Unit 5	Fabric Filter Plant (FFP)	99.977%
Unit 6	Fabric Filter Plant (FFP)	99.993%
Unit 7	Fabric Filter Plant (FFP)	99.990%
Unit 8	Fabric Filter Plant (FFP)	Unit Off-line
Unit 9	Fabric Filter Plant (FFP)	Unit Off-line
Unit 10	Fabric Filter Plant (FFP)	Unit Off-line

Note: Abatement plant does not have bypass mode operation, hence plant 100% Utilised.

5 MONITOR RELIABILITY (%)

Associated Unit/Stack	РМ	SO ₂	NO	02
North	100.0	99.0	89.5	61.3
South	100.0	100.0	100.0	100.0

South 100.0 100.0 100.0 100.0 Note: NOx emissions is measured as NO in PPM. Final NOx value is expressed as total NO 2

6 EMISSION PERFORMANCE

Table 6.1: Monthly tonnages for the month of August-2022

Associated Unit/Stack	PM (tons)	SOx (tons)	NOx (tons)
North	1.7	359.5	128.8
South	48.7	1 882.0	999.7
SUM	50.3	2 241.5	1 128.5

Table 6.2: Operating days in compliance to PM AEL Limit - August 2022

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average PM (mg/Nm²)
North	11	0	0	0	0	9.0
South	29	2	0	0	2	46.0
SHM	40	3	n	ol	2	

SUM 40 2 0 0 2 2 Comments: PM emissions are reported according to section 7. 3 of the license which states that PM emissions are not reportable during unit offload, and shutdown and start-up operations.

North Stack Units (boiler unit 1 to 5) is not accounted for 20 days because of units offloads, and shutdown and start-up operations. South Stack, normal operating days was only 29 because there was exceednace of PM limit for the other 2 days.

Table 6.3: Operating days in compliance to SO₂ AEL Limit - August 2022

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average SO ₂ (mg/Nm³)
North	14	0	0	0	0	1 559.5
South	31	0	0	0	0	1 717.6
SUM	45	ol	0	0	0	

Comments: Gaseous emissions are reported for as long as gasses are detected through the monitor.

North Stack: There was no detection of SO2 emission for the remaining 17 days

Table 6.4: Operating days in compliance to NOx AEL Limit - August 2022

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average NOx (mg/Nm³)
North	14	0	0	0	0	574.1
South	31	0	0	0	0	915.1
SUM	45	n)	0	ol	0	1

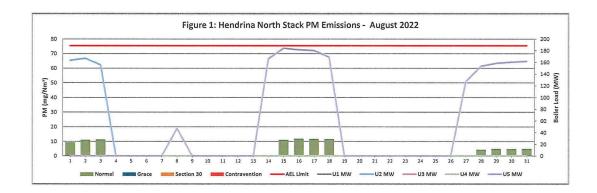
SUM 45 0 0 0 U U U

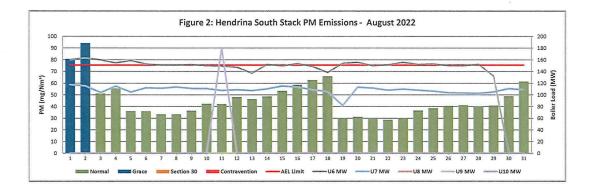
Comments: Gaseous emissions are reported for as long as gasses are detected through the monitor.

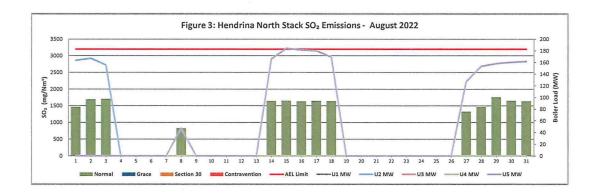
North Stack: There was no detection of NOx emissions for the remaining 17 days on the North Stack

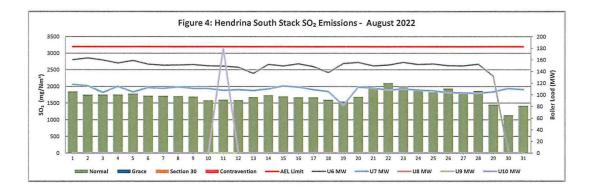
Table 6.5: Legend Description

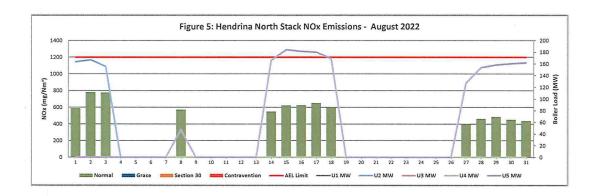
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Condition	Colour	Description
Normal		Emissions below Emission Limit Value (ELV)
Grace	ANY STATE	Emissions above the ELV during grace period
Section 30	1872	Emissions above ELV during a NEMA S30 incident
Contravention		Emissions above ELV but outside grace or S30 incident conditions

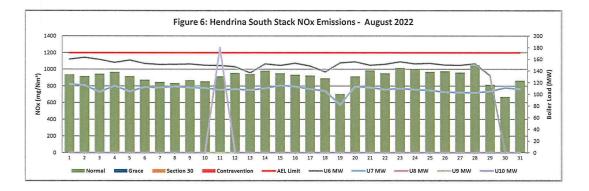












7 SHUT DOWN AND LIGHT UP INFORMATION

North Stack	Event 1	1	Event 2	2	Eve	Event 3	Ū	Event 4
Unit No.	Unit 2	2	Unit 2	2	Un	Unit 5	7	Unit 5
Breaker Open (BO)	BO previously	BO previously	6.45 am	2022/08/03			7.45 pm	2022/08/18
Draught Group (DG) Shut Down (SD)	n/a	n/a	4.35 pm	2022/08/03			6:55 am	2022/08/19
BO to DG SD (duration)	n/a	DD:HH:MM	05:60:00	DD:HH:MM		DD:HH:MM	00.11.10	DD:HH:MM
Fires in time					14:03:10	2022/08/14	2022/08/27	2022/08/27
Synch, to Grid (or BC)					3:10 pm	2022/08/14	9:10 pm	2022/08/27
Fires in to BC (duration)		DD:HH:MM		DD:HH:MM	00:12:00	DD:HH:MM	00:12:00	DD:HH:MM
Emissions below limit from BC (end date)					not > limit	not > limit	not > limit	not > limit
Emissions below limit from BC (duration)		DD:HH:MM		DD:HH:MM	E/U	DD:HH:MM	n/a	DD:HH:MM

South Stack	Event 1	11 1	Event 2	112
Unit No.	Unit 6	9,	Unit 7	1.1
Breaker Open (BO)	3.45 pm	2022/08/29	11.15 pm	2022/08/18
Draught Group (DG) Shut Down (SD)	6.35 am	2022/08/30	11.25 pm	2022/08/18
BO to DG SD (duration)	00-14:50	DD:HH:MM	00:00:10	DD:HH:MM
Fires in time			19:12:40	2022/08/19
Synch. to Grid (or BC)			6:40 pm	2022/08/19
Fires in to BC (duration)		DD:HH:MM	00:00:00	DD:HH:MM
Emissions below limit from BC (end date)			not > limit	not > limit
Emissions below limit from BC (duration)		DD:HH:MM	ב/ע	DD:HH:MM

7.2: Point Source emissions released during start-up (fires-in) and Shut-down (SD) for the month of August-2022 in mg/Nm³

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8 EMERGENCY GENERATION

There was no emergency generation of any boiler unit

9 COMPLAINTS REGISTER

Source Code / Name	Root Cause Analysis	Calculation of Impacts / emissions associated with the incident	Calculation of Impacts / emissions	Measures implemented to prevent	Dispersion modeling of pollutants where	Date measure will be implemented
There was no co	omplaints receive	ed				

10 S30 INCIDENT OR LEGAL CONTRAVENTION REGISTER

There was no section 30 or legal contravention for the month of August.

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20/09/2022		
Verified by Boiler Engineer Date Marco Cossa		
FFP SE/ Environmental Officer		
Air Qaulity Officer		
D Herbst B Mccourt		
R Rampiar E Patel		
Engineering Manager Operating Manager Maintenance Manager Unit Production Manager Boiler Engineering Manager System Engineer Boiler Engineering Environmental Officer C & I Engineering Manager Production Manager Environmental Manager Environmental Manager		