

EXECUTIVE SUMMARY

EMISSIONS SUMMARY					
Parameter	Units	Result	Calculated Uncertainty +/-	Emission Limit Value (ELV)	Accreditation
Total Particulate Matter	mg/m ³	6.2	1.0	25	MCERTS
Particulate Emission Rate	g/hr	71	11.5	-	
Ammonia	mg/m ³	665	79.1	30	MCERTS
Ammonia Emission Rate	g/hr	7607	905	-	

Kennametal Meeting held 14.00 21Oct2021

Maintenance have reviewed the afterburners on each of the 4 furnaces and have confirmed that they are in working order.

Through discussion and viewing past records it has been concluded that, after the recent production shutdown, the production process in BN Firing (A1 Emissions Point) had changed.

Pots prepared for firing were now put into the induction heating with a reduced time gap. Whereas in the past a 2.25 hr gap between firings was in place this was now reduced to 1hr. This time reduction was based on past Ammonia sampling results being consistently low.

Year	Quarter	Ammonia recorded
2019	Q3	24.4
	Q4	5.3
2020	Q1 & Q2 no readings	
	Q3	9.3
	Q4	2.2
2021	Q1	0.1
	Q2	0.03

Being that this has been the only major change it is concluded that this is the reason behind the significant change in A1 sample point readings for Ammonia.

With Immediate effect (as of today 21 Oct 2021) production has been notified and instructed to reinstate the time gap of 2.25 hrs between firings. This will be reinforced via pre-shift team talks held each morning.

System Improvement

Further to this Kennametal site management have also discussed a requirement for an Ammonia monitoring / detection system to be put in place to enable real time notification for production. 3rd party advice will be sought on available monitoring systems.