



Permit requirement - IC10

Requirement:

The Operator shall carry out emissions monitoring for hydrogen chloride and hydrogen fluoride (as F) at air emission points A8/1 and A8/2 when the plant is in full production to measure the emissions to air from the zinc-nickel plating process. Based on the results of the monitoring the Operator shall assess the need for, and develop an on-going monitoring program for the zinc-nickel plating process as necessary. The Operator shall provide a report to Natural Resources Wales with proposals for a monitoring program or provide full justification as to why a monitoring program may not be necessary.

Emissions Monitoring Results:

Emissions monitoring was carried out for the zinc nickel process on the 21th of June 2018. The results of the monitoring are shown below in Table 1.

Table 1	Emission point A8/1	Emission point A8/2	Emission Limit – Process Guidance Note 4/01(13)
Hydrogen Chloride (HCl)	0.04 mg/m ³	Not currently running	-
Hydrogen Fluoride (HF)	0.05 mg/m ³	Not currently running	5 mg/m ³

Emission Point A8/2 extraction fan has been switched off and is currently in use as a backup fan if a fault occurs with A8/1. Air monitoring has been conducted to confirm that the internal workplace air quality is maintained with only A8/1 extraction fan running.

The measured emissions from the Zinc Nickel process remain low and below the emission limits stated in the Process Guidance Note 4/01(13). There are also no Air Quality Strategy Objectives or European limit values for HCl or HF.

Therefore, based on the results of the monitoring it is planned to conduct emissions monitoring on a three-yearly basis.

The next emission monitoring for the plant will be planned for 2021.

Shane Thomas

HS&E Manager

31/07/18