

HYDRO ALUMINIUM DEESIDE LTD

Bridge Road
Wrexham Industrial Estate
Wrexham
LL13 9PS



Permit Receipt Centre
Natural Resources Wales
Cambria House
29 Newport Road
Cardiff
CF24 0TP

14th March 2014

BK3638IF Hydro Aluminium Deeside: Application for Variation of an Environmental Permit

Dear Sir / Madam,

Please find enclosed our application for a minor technical variation to our existing environmental permit. This is to permit the operation of a continuous homogenising, sawing and packing line at our premises on Wrexham Industrial Estate. This equipment was purchased from Anglesey Aluminium in August 2013 and will replace equipment that has been in operation on-site for over 30 years. It is a "like-for-like swap" in terms of the processes being operated, namely the heat treatment of aluminium extrusion ingot logs, controlled cooling, sawing to length required by customers, and packing prior to despatch. However the new equipment will be fully automated and will bring efficiency savings in terms of the production process, energy use and raw materials, and will reduce emissions to air and noise.

The application comprises:

- Application Forms, Parts A, C3 and F
- Supporting Information Document
- CD ROM containing the application forms, supporting information, H1 database and EP OPRA profile.

A fee of £1280 has been calculated in accordance with the latest charging scheme guidance. This has been confirmed with Natural Resources Wales via e-mail correspondence.

Application Form C3 has generally been completed to reflect the new continuous homogeniser and sawing line, rather than the aluminium recycling operation as a whole. Further detail has been provided in a "supporting information" document. Additionally, please note the following regarding certain sections of Application Form C3:

- 3a, Technical Standards – the relevant sector guidance and draft non-ferrous BREF have been referenced, though neither document includes very much detail on heat treatment processes. Further detail on the process is included in section 3 of the supporting information document.
- 3b, General Requirements – emissions from the batch homogeniser are not currently controlled by emission limits. Similar parameters will be emitted from the new equipment that will be replacing the current homogenisers, though in lower concentrations. Results from an H1 assessment are detailed in section 2 of the supporting information document.
- A noise management plan is in place for current operations. Noise from the new equipment should be reduced as there will be no manual handling of logs once they are on the new laydown station, and the sawing operation will be within an enclosed booth. This is further described in Section 3 of the supporting information document.

- 3c, Raw Materials – There will be no change in the materials used and consumed. Summary information on key inputs to remelt operations are presented in Table 5 of Application form C3. Further information on raw materials is included in section 5 of the supporting information document.
- 4, Monitoring - emissions from the batch homogeniser are not currently subject to monitoring requirements. It is not known if Natural Resources Wales will require emissions from the new equipment to be monitored, as emissions will comprise combustion products of natural gas only and will be of lower concentration than those currently emitted from the six existing homogeniser stacks. Further information on monitoring is given in section 4 of the supporting information document.

Please contact me if you have any further queries relating to the application.

Yours faithfully,

Joel Priest
QHSE Manager
Hydro Aluminium Deeside

Tel: 01978 660231

Email: joel.priest@hydro.com