



LIBERTY ALUMINIUM TECHNOLOGIES LTD

KIDDERMINSTER

1.0 Non-Technical Summary

1.1 Section 1. Introduction & Application Forms

This section contains the Environment Agency application forms.

1.2 Section 2. About the Application

Section 2 covers details of the application, the applicant and site location.

Figures 1, 1a and 1b give details of the site location and permit boundary

The point source emissions for the activities have been identified. The permit is to cover 3 melting furnaces of 6T holding capacity each and 10 die cast machines and all associated operation.

1.3 Section 3. How LATK will comply with the permit

LATK will run the site in accordance with the permit requirements and are actively committed to continually assessing performance, resource and energy usage and waste. LATK will keep up to date with legislation and modify processes to fit new legal requirements as required. LATK are in the process of developing a full environmental Management System (EMS) to ISO14001.

1.4 Section 4. Manufacturing Process Overview

A simplified overview of the manufacturing process on site is supplied in both text and a flow diagram.

1.5 Section 5. Best Available Techniques (BAT)

The Best Available Techniques (BAT) assessment was carried out for all techniques and process equipment to be used on site using the Reference Document for the Non-Ferrous Metal Industries - Industrial Emissions Directive 2010/75/EU (Integrated Pollution Prevention and Control) JRC Institute for Prospective Technological Studies, Sustainable Production and Consumption Unit, European IPPC Bureau, Draft 3 (February 2013).

The BAT conclusion from the above reference document was used for the LATK BAT conclusions. Reference to BAT is made throughout the document all reference to BAT are taken from the above reference document.

1.6 Section 6. Managing the Activities

Section 7 covers the process LATK will use to manage the activities on site to ensure they comply with the permit and legal requirement.

The section covers the use of the EMS which LATK will use and further develop. The management are fully committed and the signed Environmental Policy is included in Appendix A, EMS system documents.

This section also details on energy efficiency measures, how the site will monitor and aim to reduce resource use and waste. LATK will continually use monitoring, auditing and assessment methods on raw material usage, waste generated and energy used (each machine will be metered to give very detailed information about energy usage). This information will be used by the operations director to improve the site performance in-line with the permit and EMS.

LATK are already investigating resource saving measures for once the site is operational.

A flow diagram (Figure 4; given in Section 16.2 of this document) of the processes and estimated mass balance for the site has been provided. The figures are estimated as the site is not yet fully operational. The figures have been estimated using data from the equivalent processes carried out at LATK

This section contains the accident management plan and Fire Prevention and control plan.

1.7 Section 7. Site Closure

LATK have had a full Site Condition Report carried out and have installed monitoring points on the site. LATK site design will enable the site to be decommissioned as per the site closure plan. The entire site drainage system is new, all process pipe work is above ground and there are no subsurface tanks.

The SCR took in to account the materials and wastes that will be used and generated on site.

1.8 Section 8. Operations and Techniques for Pollution Prevention

This section details the processes in place to control the materials on site and prevent pollution incident.

LATK will use waste scrap aluminium as a raw material, referred to as scrap aluminium.

LATK are fully aware that the raw material will be treated as a waste and have the correct processes for acceptance and handling and storage in place.

They have carried out duty of care on their scrap suppliers and waste contractors.

The Environmental manager on site (Mike Clarke) is registered on WAMITAB course to ensure he and staff are competent in handling non-hazardous and hazardous waste.

1.9 Section 9. Plant and Equipment

This section includes details on the equipment used, the manufacture specifications.

The manufacturer information and the BAT reference document have been used throughout this section.

LATK have many years' experience in this sector and have purchased all new equipment.

1.10 Section 10. Point Source and Fugitive Emissions

The point source emissions to Air and water have been identified and mapped to a site plan.

The potential fugitive emissions to air, ground and water have been identified and mapped to a site plan and mitigation methods used to prevent release detailed.

1.11 Section 11. Monitoring

This section covers the emissions to air and water.

A full air modelling assessment has been carried out for the site based on data from the Witham site, information on the Kidderminster processes, and the manufactures equipment specifications.

Air monitoring data was made available by the Witham site, who carry out equivalent operations.

LATK have installed an effluent treatment plant (ETP) to treat and reuse water; this will also use rainwater harvested from the factory roof. This will not only make significant water usage saving but also reduce the amount of water discharged from site.

The quality of the water leaving the site from the ETP will be monitored.

1.12 Section 12. Noise and Vibration

A full noise assessment has been conducted for the Kidderminster site. Sample noise data was taken from a site visit to the Witham site and back ground noise data from the Kidderminster site and receptors near the site.

LATK will monitor and log noise and investigate and log any noise complaints.

LATK have installed a weather station on the east end of the building.

1.13 Section 13. Environmental Impact Assessment

A desk top environmental impact assessment of the site and surround area has been conducted and the potential impacts of the site and its operations identified and assessed.

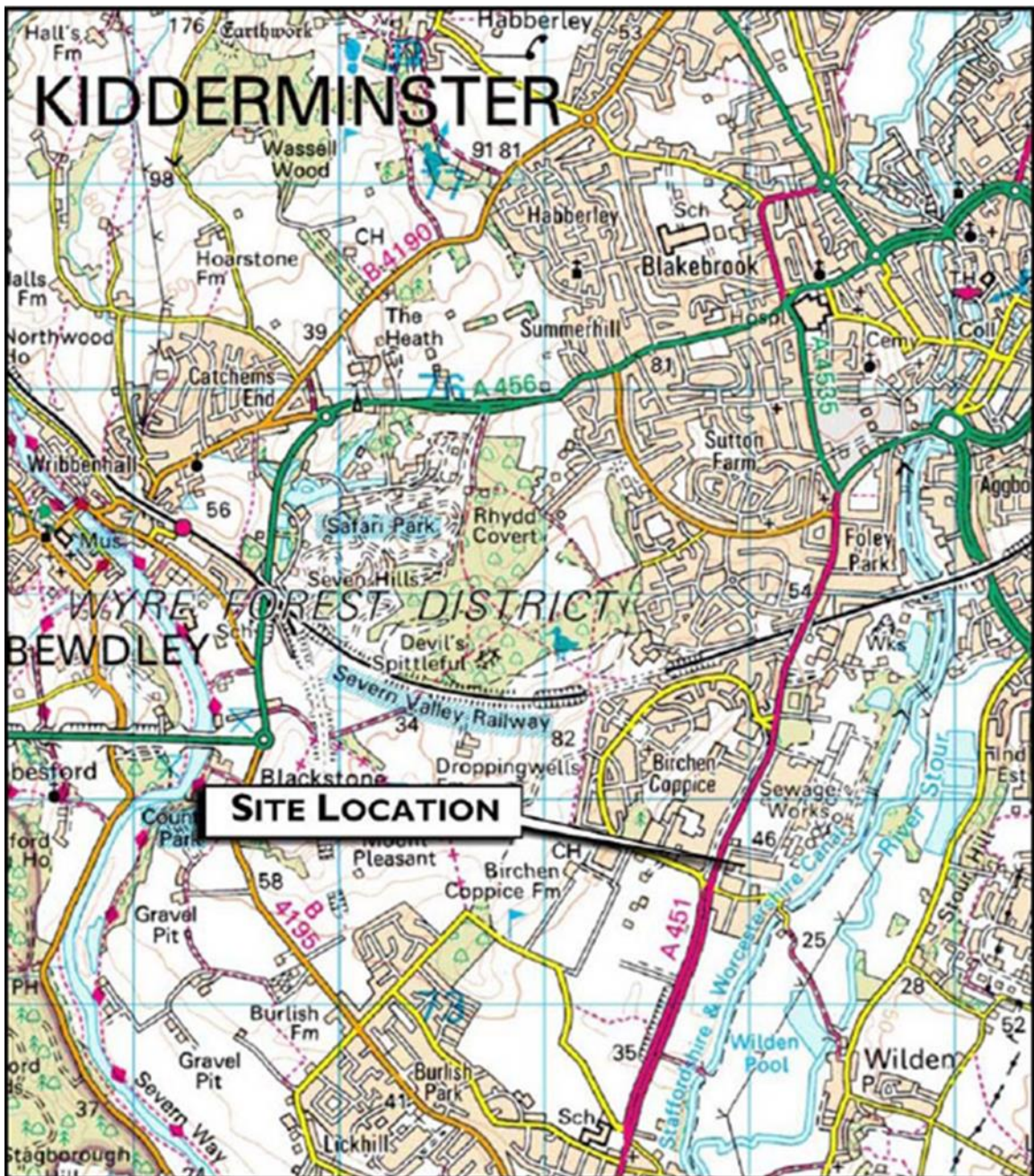
This has included details on the SSSI's close to the site.

Figure 1: Boundary of Permit Application



Environmental Permit Application Boundary

Figure 1b: Site location



Process Flow Diagram

