

KRIGER 2.0 MW_{th} BIOMASS BOILER INSTALLATION MCP/SG ENVIRONMENTAL PERMIT APPLICATION JCG HALE LIMITED JUNE 2019

Introduction and Contents

JCG Hale Ltd proposes to install a biomass boiler at its new site on the outskirts of the Milland Road Industrial Estate, Neath. The installation will incorporate a Kriger 2.0 MW_{th} biomass boiler, supplying approximately 2.0 MW of thermal energy in the form of 125°C hot water for use within the site. The facility also incorporates an Organic Rankine Cycle (ORC) electrical generator, that will generate approximately 110 kW of renewable electricity for use on-site and for export to the local distribution network. The Kriger 2.0 MW_{th} biomass boiler and associated equipment will be located within an existing building on the site, which will be modified to accommodate the boiler and all of the ancillary process equipment.

The Kriger 2.0 MW_{th} biomass boiler will burn virgin timber offcuts from the company's on-site timber processing activities. The fuel feed-rate to the boiler will be approximately 525 kg/hr, depending upon the moisture content and calorific value of the fuel. Although the biomass fuel to be burned is classified as a waste, it is considered to be exempt waste under the Industrial Emissions Directive (IED), and the operation of the biomass boiler would normally be subject to regulation by Neath Port Talbot Council (NPTC) as a Part B process. However, as the thermal rating of the boiler is greater than 1 MW_{th} and incorporates an ORC, the biomass boiler is also classified as a Medium Combustion Plant (MCP) and a Specified Generator (SG). Therefore, the operation of the boiler will be subject to regulation by Natural Resources Wales (NRW), and the application is submitted on this basis.

The application forms and accompanying documentation constitute an application for an environmental permit to allow the operation of the Kriger 2.0 MW_{th} biomass boiler to be installed at JCG Hale Ltd's new site on the outskirts of the Milland Road Industrial Estate, Neath. The application includes the following documentation:

- Environmental Permit application forms - Application for a permit to operate a biomass combustion process burning exempt wood waste in a 2.0 MW_{th} MCP and SG (NRW Forms A, B2, B3, and F1).
- Appendix 1 – Description of the location of the proposed development, plus associated drawings and plans;
- Appendix 2 – Technical description of the biomass boiler installation and associated technical brochures;
- Appendix 3 – Assessment of the environmental impact of the operation of the biomass boiler, plus results from a D1 chimney height calculation and detailed atmospheric dispersion modelling;
- Appendix 4 – Description of energy use within the biomass boiler installation;
- Appendix 5 – Assessment of the risks associated with the operation of the biomass boiler and associated preventative maintenance procedures;
- Appendix 6 – Description of environmental management procedures that will be adopted, plus associated policy and procedural documents;
- Appendix 7 – Non-Technical Summary.

Any technical queries relating to this Environmental Permit application should be directed initially to:

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