

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

Accidents and Emergencies

The Kriger 2.0 MW_{th} biomass boiler to be installed at JCG Hale Ltd's site has been designed to be fully compliant with the operational requirements of the draft Secretary of State's Guidance Note PG 5/1(18), as well as the MCPD, and includes various alarms and fail-safe systems to ensure optimum control in the event of an other than normal operating condition. It is fully consistent with Natural Resources Wales' guidance for the operation of wood waste combustion plant, and with the principles of Best Available Techniques (BAT) in all aspects of its design.

Novalux Energy Systems Limited, suppliers of the Kriger 2.0 MW_{th} biomass boiler, has produced a risk assessment for the installation at JCG Hale Ltd. This largely deals with health and safety considerations but also includes consideration of managing fires and hazardous substances, including spill control. A copy of the risk assessment is appended to this document. Further fire and accident prevention and management procedures are in the process of being prepared by JCG Hale Ltd and will be implemented prior to operation of the Kriger 2.0 MW_{th} biomass boiler.

Novalux Energy Systems Limited is an energy systems installation and maintenance company and it is expected that in-house trained engineers will undertake regular inspections of the Kriger 2.0 MW_{th} biomass boiler installation, as part of a maintenance contract to be agreed with JCG Hale Ltd, to identify potential problems with the process equipment that may adversely affect performance. This will include working to a documented programme of preventative maintenance of major components of the installation.

In the event of any operational failure of plant at the site, a senior manager will be contacted by operational staff. The manager will decide whether operations are to continue or be suspended prior to corrective action being taken. Serious operational failures, which result in the shutdown of the biomass boiler, will be recorded.

In the event of any significant plant break-down or site emergency, the transfer of wood chip fuel to the fuel store will be suspended where necessary to allow action to be taken safely, and to avoid a build-up of fuel being stored in the vicinity of the boiler.

By way of accident prevention, no wood waste will be burnt on site other than in plant specifically designed for the purpose and in accordance with the relevant statutory instruments, and smoking is not permitted on site. In the event of a fire occurring, the operator / site supervisor will exercise his judgement and extinguish the fire with a suitable fire extinguisher and / or call the fire service for assistance. A record will be made of any extra-ordinary events or incidents, including fires.

In order to protect against potential pollution of the soil, surface water or ground water, the site includes comprehensive impermeable surfacing, both internally, and across the site yard. Spill kits and drain covers are available around the site for the management of incidents and the protection of local drains in the event of an emergency. The fall of the land across the site will direct any run-off into the roadway, and covering the drains will allow any water from fire-fighting to be collected and tankered away for appropriate treatment and disposal.

None of the wood to be utilised as fuel is expected to cause any adverse reactions to operational staff handling the material. All vehicles carrying solid waste materials (bottom ash and / or fly ash) will be sheeted to avoid losses and dust creation.