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SPECIFICATION FOR HRSG PACKAGE

KEMSLEY MILL CHP (K4)

FEED (CLOSING) PHASE

Business Function: Mechanical

Document Owner: Principal Mechanical Engineer

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TEMPLATE NO: INF-T-010

EN 60439	Low-voltage switchgear and control gear assemblies. Particular requirements for assemblies for power distribution in public networks
BS EN 14015	Specification for the design and manufacture of site built, vertical, cylindrical, flat-bottomed, above ground, welded, steel tanks for the storage of liquids at ambient temperature
BS EN 14732	Welding personnel. Qualification testing of welding operators.
BS EN 3834	Quality requirements for fusion welding of metallic materials.
BS EN 9606	Qualification testing of welders. Fusion welding. Steels.
BS EN 10312	Welded stainless steel tubes for the conveyance of aqueous liquids including water
EN ISO12944	Paints and Varnishes. Corrosion protection of steel structures.
IEC 60034-1/2/3	Rotating Electrical Machines.
IEC 60072	Dimensions and Output series for Rotating Electric Machines.
IEC 60079	Electrical apparatus for Explosive gas atmospheres.
IEC 60529	Degree of protection provided by enclosures.
IEC 61000	Electromagnetic compatibility (EMC)
IEC 61439-1 & 2	Low Voltage Switchgear and Control-gear assemblies.
ISO7919	Mechanical Vibration of Non-Reciprocating Machines. Measurements in Rotating Shafts and Evaluation criteria
ISO 10816	Mechanical Vibration – Evaluation of Machine vibration by measurements on non-rotating parts
VGB-S-010-T-00;	VGB standard for Feed Water, Boiler Water and Steam Quality for 2011-12 (2011) Power Plants / Industrial Plants

2.4 Applicable Project Specifications

See B0-00

3 SCOPE OF SUPPLY

The minimum scope of supply will include:

3.1 HRSG

The Heat Recovery Steam Generator (HRSG) with supplementary firing shall be rated for approximately 131.5 t/h live steam at 80.3 bara and 522 degC at the boundary limit, including as a minimum the below items:

- A natural gas combustion system with DLE (dry low emission) combustors, flame detection system (fail-safe) for the combustors with automatic trip release and gas emergency shutoff.
- Fuel gas pressure control system suitable for incoming gas supply with a min/max of 15/38 barg.
- Single pressure boiler with economiser, evaporators, steam drum and superheater stages.
- Feedwater pre-heater.