

York District Hospital 16/01195/FULM UPDATE

BREEAM Statement

BREAAAM Excellent will not be achieved as except where derogated the mechanical and electrical services design reflect the need to be to health care standards and comply with the Health and Technical Memorandums (HTM's). The impact of being HTM compliant is that generally the plant is of an enhanced specification which means more features (e.g. internal AHU lighting, inspection window, access doors, etc) which leads the equipment to be physically larger. As such, in order to meet the operational requirements of the trust and the HTM's the current mechanical and electrical design includes duty and standby provision for some plant items such as chillers and domestic hot water generators. This provides the necessary operational robustness and resilience for the clinical environment but in doing increases the amount of plant and associated equipment.

However, the current mechanical and electrical services derive primary heat for heating and hot water generation and the incoming electrical supply from the existing site wide infrastructure. The existing infrastructure benefits from a Combined Heat & Power (CHP) unit rated 1.2MVA. This inherently provides the new building with a proportion of sustainable energy. In addition, the current mechanical and electrical services design also incorporates energy efficient products such as:

- Air Handling Units (AHU) that incorporate heat recovery and the ability to maximise the recovery during various conditions. The fan motors are all driven by inverter driven motors that run at the speed required and hence only use a minimum amount of energy to run.
- The cooling plant is modular and each module has inverter driven compressor motors which only run when required and at the relative speed required saving energy during operation and throughout the life time of the unit.
- The internal lighting is predominantly LED based meaning lower energy consumption and longer lamp life's. The external feature lighting is also LED. We have combined the light fittings with lighting controls that incorporate dimming, absence and presence detection where appropriate and the overall solution is not only effective but very energy efficient.
- There is also a modern 'Building Management System' (BMS) that monitors, assesses and controls the various systems to reflect the specific operational requirements. Along with fault monitoring this save energy by switching system on and off when required and providing an 'failure alert' minimising any wasted energy due to a faulty component.

Point of Clarification

The representation detailed in the report raises concern specifically about out of hours noise associated with the installation of a new heat exchanger in the boiler house and asks for noise restrictions for out of hours working. This is considered to be covered by the planning condition restricting construction and loading/ unloading to 0800-1800 Monday to Friday and 0900-1300 Saturday with no works on Sundays or bank holidays.

Additional condition

Details of all machinery, plant and equipment to be installed, which is audible above background noise levels at the hospital site boundaries, and proposed noise mitigation measures shall be submitted to the local planning authority. These details shall include maximum ($L_{Amax}(f)$) and average (L_{Aeq}) sound levels (A weighted), and octave band noise levels they produce. All such approved machinery, plant and equipment shall not be used on the site except in accordance with the prior written approval of the local planning authority. The machinery, plant or equipment and any approved noise mitigation measures shall be appropriately maintained thereafter.

Reason: to protect the amenity of nearby occupiers of premises.