
From: Gary Brook <[REDACTED]>
Sent: 08 January 2021 18:38
To: McClue, Jonathan
Subject: RE: 101 Camley Street - installation of a condenser at roof level ref. 2020/4594/P

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Hi Jonathan – the M&E engineer, Cudd Bentley, has drafted the below. Does this provide what you need? Have a good weekend, Gary

The data racks & comms equipment were not included, selected or quantified at the planning application stage. Consequently any necessary associated cooling equipment was not incorporated at that stage. Data racks & comms equipment have now been introduced to the North Block essential services riser at Upper Ground Floor level up to Level 10. Details of the data racks & comms equipment, including heat outputs, have been provided by the manufacturer.

For the solution, the cooling hierarchy has been assessed. Calculations have been carried out to determine whether natural & mechanical ventilation are viable. Both options were found to have insufficient 'free cooling' capacity to offset the heat output from the data racks & comms equipment. Therefore a refrigerant cooling system is required.

The system is not a comfort cooling system for the occupants of the Building & as such would be considered to be a process system, rather than for regulated energy use. We understand that under these circumstances, the Mayor and Camden's energy policies do not apply.

The system will limit overheating & maintain the comms / data equipment within the manufacturers operating temperature parameters to prevent equipment failure. As the equipment is located in the ELV essential services riser, the system will also limit the temperature within the riser to prevent the electrical equipment & cables from overheating. The data racks & comms equipment could fit within the main Building Plant areas but a refrigerant cooling system with an outdoor unit on the roof would still be required to offset the heat output generated.

The riser cooling VRF refrigerant cooling system comprises five indoor fan coil units located within the North Block ELV essential services riser link by refrigerant pipework to an external VRF unit mounted on the roof of the North Block. The system provided cooling to the risers at each floor level & rejects heat at roof level. The external VRF unit has been located next to the lift overrun to minimise the visual impact to surrounding areas.

An acoustic assessment of the roof mounted VRF has been carried out. Please refer to the attached Sharps Redmore Report dated the 14th September 2020.

Gary Brook
Senior Associate