Brookway Court, Wythenshawe.

Planning application for proposed stand by generator installation

For

Wythenshawe Community Housing Group,

Parkway Green House, 460 Palatine Road, Northenden, Manchester M22 4DJ

September 2017

Design and access statement.

- Wythenshawe Community Housing Group intend to replace 2No existing passenger lifts in the above premises, with the larger of the two lifts having additional protection, controls and signals that enable it to be used under the direct control of the fire service.
- The firefighting lift requires a secondary power supply, in the form of a low voltage standby generator. The standby generator would only operate under the event of main power failure under fire conditions. The likelihood of the generator operating in fire conditions is minimal, as the primary supply cables, fed from the mains supply within the building, are themselves fire rated for 120 minutes.
- The firefighting lift installation shall be fully compliant with BS 7671-2008+A3-2015 Requirements for Electrical Installations - The IET Wiring Regulations, in particular, Chapter 56 Safety Services, and the requirements for firefighters lifts contained in BS EN 81-72:2015 Safety rules for the construction and installation of lifts - Particular applications for passenger and goods passenger lifts: Fire fighters lifts.
- All cabling including control and generator supply cabling shall be FP600S fire resistant armoured cable to comply with BS8519 category 1, 2 and 3 power control cable, BS8419 120 minutes, and BS7846 F120.
- The stand by generator is mounted within the grounds of the building on a 4200mm x 2300mm x 175mm thick concrete raft slab and concealed in a powder coated aluminium, fire rated, acoustic, GRP enclosure.
- The generator shall be supplied with sufficient fuel, in a tank located at the base of the generator, to provide standby power for 24 hours. A monthly test of the generator shall be incorporated into the building maintenance regime, where it shall be run at full load, before the fuel tank is re-filled to allow for twenty four hour operation of the generator at full load.
- The generator needs to be accessible for re-fuelling and periodic inspection/maintenance by a specialist contractor.
- The generator is designed for residential locations, is fitted with a silencer and is designed to create an acoustic pressure level of 73dBA at 1m and 61 dBA at 7m.
- The recommended fuel shall be Class A2 Diesel and a replaceable element fuel filter type.
- Specification for the generator is appended to this document.