

Generating Power

Project Name:

Herts Police H.Q.

Client Name: Lorne Stewart Plc.



Project Summary

Power Electrics (Bristol) Ltd. has recently successfully completed the supply and mechanical installation of a standby power project on behalf of Lorne Stewart Plc. at the headquarters of Hertfordshire Police.

Two diesel driven generators from FG Wilson Eng. have been installed, each capable of supporting the building load in the event of a mains failure and with the capability of each being tested on site load, in parallel with the mains supply without interruption.

Both sets installed in acoustic enclosures to limit noise level to 75dBA @ 1 mtr at full load.

Power Electrics (Bristol) Ltd. undertook the civil, mechanical and bulk fuel installation works.



Equipment Summary

Generator – 2 off continuously rated FG Wilson Eng. P730P1, 730KVA, 584KW, 1054 Amps, 230/400 Volts, 3 Phase, 50Hz AC, diesel driven generating sets.

Control Panel – Fully synchronised control panel including automatic mains failure: complete with automatic shutdown protection, alarms and BMS communications. Included are G59 protection and synchronising controller.

Engine – Perkins 4006TAG2A 6 cylinder in-line water cooled turbo charged 1500 rpm diesel engine.

Alternator – Leroy Somer single bearing brushless, self exciting, self regulating, screen protected, 3 Phase 4 wire output, with permanent magnet and 3 Phase sensing module.

Enclosure – Dimensions 9600 x 2600 x 3200 to 75 dBA @ 1 mtr complete with internal lighting, air dampers and bunded steel floor.

Bulk Tank – 21,800 litres capacity to BST99 Type J.