350kVA Generator Package Upgrade for Magistrates Court



Project Brief

The customer required The Generator Company to provide a generator package upgrade for a well-known magistrate's court in North London.

The project required us to design, manufacture, package, deliver and commission a 1 off 350kVA prime rated open generator with Volvo TAD 532 GE diesel engine, along with silencer, new flue and an upgraded fuel system. CUSTOMER

UK based leading security construction logistics and business services provider

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On receiving the contact from the client, an experienced Project Manager was appointed to ensure that the daily running of the project went smoothly and all necessary drawings and other associated aspects of the project were managed in an appropriate and timely manner and the project was given 100% focus throughout. This guaranteed that the customer had someone on hand whenever they were needed.

Our project manager attended various on-site meetings with the customer and the end client to work out and finalise the work schedule for the project to enable us to meet the tight deadlines and tight site constraints that were in place.

Before any works could commence we were required to strip down and remove the existing generator from site along with the disconnection of all cables, fuel lines, the silencer and pipework to external existing flue.

Due to the size and height of the existing generator it was required that the set was removed via specialist lifting equipment. Before our generator engineers could proceed to dismantle the existing generator into movable size parts the concrete bund wall around the existing set had to be knocked down and removed allowing us to lift all the equipment out of the room. All the redundant equipment was then craned onto our flatbed lorry and transport away from the site ready for the new one to arrive.

The new generator was broken down in to movable size sections and on the agreed delivery date, off loaded with an oversized Hiab lorry and positioned in the generator room via the plant replacement access at the rear of the building.

Once the generator was positioned into the room, it was rebuilt by our experienced service engineers and skated into the correct position. This was followed by the installation of a new canvas connection between the radiator and discharge louvre along with the new silencer hung from the ceiling together with a new exhaust flue from the silencer to the existing flue.

SECON-X flexible pipework was used for the upgrade of the generator fuel system and with the new pipework being raised to a higher level the new pumps were moved from the generator room to the bunded tank room to keep the pumps at a positive head thus meaning we had to extend the wiring from the new pump control panel located at the generator set to the pumps in the tank room.

Following the installation and commissioning of all equipment a Site Acceptance Test was carried out, attended by our Project Manager, Commissioning Engineer and a representative of the customer. The test is performed to ensure that the equipment conforms to the client's requests, is correctly installed, safe to use and fit for purpose and well as demonstrating the control and protection features for the generator to the client. On satisfactory completion of the test, the representative of the customer signed the Certificate of Inspection in readiness for the equipment to be put into operation.

The project was satisfactorily completed on time and within the budget allocated. With the bulk of the works being completed in early morning and weekend shifts there were minimal interruptions to the live site.

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