

Project Profile

Design



RAF Fairford

The Problem

The site had two generators feeding two separate buildings, both of which were undersized for their current requirements. There was also no bypass facility and limited space in the building for the control panel and changeover switchgear.

The client also required the fuel system to meet current and forthcoming environmental standards.

The Solution

Working with the client, BGSS designed and manufactured a single skid mounted generator capable of supplying the power required to both buildings. We were able to re-use one of the original generator sets elsewhere on site, saving the client the cost of purchasing a new generator.

A panel was designed, built and installed, encompassing the controls, change-over and system bypass into one panel as there was not the space to fit three separate panels in the generator room.

A double-skinned, bunded and alarmed base fuel tank was fitted to the set meeting all environmental standards and was connected to the existing bulk fuel installation with double-skinned fuel pipes.

BGSS work closely with the client from the design stage through installation to the commissioning.

System Details

100kVA Prime Power skid mounted set with separate control panel that encompassed a control section, MCCB section, Auto transfer section and bypass switch all housed in one complete suite of panels. Panel designed and built by Burtonwood Generator & Switchgear Services Ltd. Panel utilised an industry standard Deep Sea Electronic Generator Controller. Prime mover from the Perkins family of engines directly coupled to a Newage Alternator. System taken to site as a complete unit necessitating the need for cable connections only at site, cutting down site attendance and installation downtime. System connected to an existing bulk tank, fuel transfer system supplied to top up the base tank located under the generator set within the bed frame. Double skin and Bunded tank technology supplied as part of the package to include level devices for fuel transfer. Motorised louvres were supplied to the building fabric to ensure the building is kept warm and damp free when the generator is not in use and motorised open when the set is called upon to start.

Maintenance

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