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**PROJECT NAME:**

RAF Marham - Electrical Engineering Squadron Facility

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**CLIENT:**

Defence Estates

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**LOCATION:**

RAF Marham

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**M&E ORDER VALUE:**

£2.1m

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**CONTRACTOR:**

Amec

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This project was a partnering agreement for a new build electrical engineering facility. Dodd Group provided the design, supply, installation and commissioning of a full MEP package including standby power.

The Electrical installation included the provision of a new sub station c/w HV ring main unit transformer, feeder pillar and earthing nest. The incoming supply terminated into a new bespoke main switch panel that served distribution boards and other equipment. General lighting & 230v power supplies were distributed throughout the building using a trunking conduit & dado trunking network. In addition to standard 230v power systems 400hz power supplies were provided via static frequency converter. Emergency lighting was provided with centralised static converters.

The Mechanical installation included ventilation, heating, chilled water, gas supply, fire hose reels, oil pipe works, compressed air and HCW / HWS domestic services. The heating system was supplied for 2No dual fuel (gas / oil) serving a primary loop circuit, weather compensated radiator circuit and constant temperature circuit for unit heater and AHU coils. The chiller provided cooling for AHU coils to meet air cooling requirements. The ventilation system is provided by various AHU's providing fresh air, recirculated air & extract air.

Oil tanks complete with pipework were installed to serve previously monitored boiler. The gas supply also supplied the dual fuel boiler. In addition to the boiler the gas serves gas meters and radiant panels.

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