



Being there for backup power - loadbanks in Kuwait

Two loadbanks supplied by METAL DEPLOYE RESISTOR helped Kuwait International Airport overcome a recent power outage. The loadbanks are based in an emergency substation composed of three gensets supplying energy to airport equipment, reports MEP.

Two loadbanks supplied by the French company, METAL DEPLOYE RESISTOR, part of the ICM Group, are deployed at Kuwait International Airport.

According to the manufacturer these load banks are installed in an emergency substation composed of three generator sets which supply energy to airport equipment.

A spokesman for the company told MEP: "The loadbanks are used to load the generator sets during periodic tests. The aim of these tests is to ensure the good working of generator sets in case of power cuts. The loadbanks which have been specially adapted to work in the extreme climate and difficult dust conditions of the Middle East."

Power resistors are used in generator load banks to avoid any potential fouling of the diesel engine when the generator is operating at low power, reports the company.

Loadbanks are also used to reduce the 'wet stacking' issue in diesel engines. In addition, it is also standard practice to use power resistors as loadbanks to maintain batteries in electrical laboratories, industrial testing facilities and in telecommunications facilities.

The substation at Kuwait Int. Airport housing the gensets/loadbanks.



Kuwait International Airport - undergoing major changes.

MDR's inductive loadbanks can vary their individual power factor between 0.8 and 1 and a Remote Control or local control facility available in fixed and portable applications on any load banks.

Some models of loadbanks feature Horizontal Forced Air Cooling (HFAC) with power available from 50 to 1200 kW in 10 kW steps. These units feature a low-noise helical fan with motor rated to IP54.

Situated inside an emergency substation, the loadbanks supplied in this UAE contract currently serve three Kuwait Airport backup power gensets.

The importance of having backup gensets - and also having loadbanks to regularly test their power output - was firmly underscored on November 11th, 2013, when Kuwait International Airport - and some key residential districts around it - experienced a brief power outage, the Kuwait Ministry of Electricity told MEP.

"The power went down due to technical failure, when a new main station was being connected to the electrical network. It went down at 11:51a.m, affecting the airport, and some large neighbourhoods in



The MDR factory.

Al-Farwaniyah, Jeleeb Al-Shoyoukh, South Al-Ardiah, Ishbeliah, Al-Rabiah, Al-Regea and Al-Rai. The power failure lasted for eight minutes."

Fortunately, thanks to the right technology being in place, on this occasion emergency backup power came on immediately at the Airport for the duration of the outage.

MEP

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www.mdresistor.com