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GE Multilin Generator Relays: Saving Space & Increasing Productivity

SR489 Generator Management Relays Provide Competitive Advantage in Generator Protection

May 23rd, 2002 - Markham, ON – Kirloskar Oil Engines, one of India's largest manufacturers of diesel powered electrical generators, is using four SR489 Generator Management relays from GE Multilin to protect and monitor four generators supplying power to two industrial manufacturing plants. The four generator and engine control panels were constructed by M/S Swarna Powertechnik of Pune, Maharashtra province. The project involved retrofitting the existing protection and control system for the generators, with a new panel created around the SR489.

Milind M. Kolhatkar, Control Engineering Manager from Kirloskar's Large Engine Division, explains the selection of the SR489: "The SR489 was the right choice because it provides both protection and metering functions, and offers the advantage of recording fault reports to help with tripping analysis. This analysis will help increase our operating time, and improve plant productivity. Additionally, we have achieved a 50% reduction in our control panel size, providing valuable space."

Before Retrofit



(Size: 3200W x 2100H x 600D)

Engine and Generator Control Panels

After Retrofit



(Size: 1600W x 2100H x 600D)

Combined Engine and Generator Control Panel
using the GE Multilin SR489 Relay

The two plants being retrofitted include the 7.5MW power plant at Carbon Everflow Ltd., and a 1.7MW power plant at Kirloskar Systems Ltd. Three 2.5MW Heavy Fuel based Diesel Generator sets were supplied to Everflow and one 1.7MW to Kirloskar. The generators are being used to supply power to a continuously running process plant. This plant requires a reliable and secure supply of power to remain 100% productive, making the SR489 the ideal choice.

Luis Perez, General Manager for GE Multilin's European manufacturing operation, comments on this application: "GE Multilin is dedicated to helping customers like Kirloskar Oil Engines increase their productivity and profits to achieve a competitive advantage. Our innovative line of products, services and solutions are supported by skilled and experienced personnel that work closely with customers to ensure a smooth and timely implementation, from planning to commissioning."

About Kirloskar:

Kirloskar Oil Engines Ltd. (Pune) manufactures Diesel Generator sets ranging from 3 KVA to 6000 KVA. For more information, please visit www.kirloskars.com

About GE Multilin:

GE Multilin, a division of GE Industrial Systems, is a global leader in the design, manufacture, sales and service of protection, metering, control and automation systems, as well as telecommunication networks for utility, industrial and general industry applications. For more information, visit the website at <http://www.geindustrial.com/Multilin>.

About the SR:

GE Multilin's SR family are microprocessor-based products that can provide economical system protection, control, monitoring and metering in a single unit. Both local and remote user interfaces are included, and ModBus RTU protocol is supported. SR family relays are available for motor, generator, transformer and feeder management applications. The SR family includes: 489 Generator Management Relay; 745 Transformer Management Relay; 735/737 Feeder Protection Relay; 750/760 Feeder Management Relay, 469 Motor Management Relay and the new F650 Digital Bay Controller.

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