



Standby power

> Case History

Regal Palace Hotel, People's Republic of China



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Where:

Regal Palace Hotel, Dongguan, Guangdong province, China

What:

Standby power system consisting of four 1120 kW generator sets with PowerCommand® control from Cummins Power Generation

Purpose:

Ensure guest safety and comfort in the event of utility power failure

Primary choice factors:

Quality and reliability of Cummins Power Generation equipment and the service reputation of the local distributor

Five-star hotel in China selects standby power system from Cummins Power Generation

DONGGUAN, CHINA — Dongguan's five-star Regal Palace Hotel is one of the newest luxury hotels in this rapidly growing city in the Guangdong province of China, just 50 miles from Hong Kong. With \$20 billion (USD) in annual trade, Dongguan is known as a center for furniture, leather goods, electronics and toy manufacturing. Catering to elite business travelers with its deluxe accommodations, the Regal Palace Hotel is near the Guangdong Modern International Exhibition Center — one of China's largest exhibition halls. To help ensure that its guests always receive five-star service, the hotel installed a 4.48 MW standby power system from Cummins Power Generation Inc.

The Regal Palace Hotel's main tower is 53 stories tall, and the complex has 750 guest rooms, 12 conference centers and eight international restaurants. To meet the hotel's power demand in the event of a utility outage, the standby power system Cummins Power Generation provided consists of four C1400D5 generator sets operating at 50 Hz. When operating in parallel, the generators provide enough electrical energy to supply all



Four Cummins Power Generation generator sets operating in parallel ensure continuous services for hotel guests and allow generator-set maintenance without power interruption.

of the hotel's needs. In the unlikely event that one of the generator sets does not start, the other three would be able to supply most or all of the loads during an emergency.

The hotel's multiple-generator system also makes maintenance more convenient because one generator can be taken out of service for maintenance while the three remaining generator sets are available in case the utility power fails.

No interruptions for guests

"We use several generator sets in parallel to guarantee that there won't be any inconvenience to our customers if there is an interruption in utility power," said Mr. Gao, supervisor of power generation applications for the Regal Palace Hotel. "If the utility power fails, the generators start and synchronize with each other. In a very short time — usually less than 10 seconds — they are ready to automatically transfer power and supply the hotel's electrical loads."

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The C1400D5 generator set features the Cummins KTA50 series diesel engine, a rugged 50-liter, 16-cylinder industrial engine that has been used in thousands of successful on-site power applications around the world.



PowerCommand controls on each generator set are easy to use and provide real-time system status as well as system integration and remote control functions.

Each generator in the power system also features a Cummins Power Generation PowerCommand electronic control system as standard equipment. PowerCommand provides total system integration as well as remote starting/stopping, precise frequency and voltage regulation, and alarm and status message display.

Local distributor played key role

Chi Ki Electrical Engineering Works Ltd., the local distributor for Cummins Power Generation in Dongguan, was instrumental in designing and installing the power system for the Regal Palace Hotel. Not only did the distributor provide the generating equipment, it also designed the paralleling system, provided environmental engineering to comply with local ordinances and oversaw the system commissioning. Chi Ki Electrical even assisted when heavy rains flooded the mechanical room during the installation. To keep the standby power system in proper working order, the distributor is also responsible for regular inspections and periodic maintenance.

Mr. Gao said that the hotel selected Cummins Power Generation as its standby power system supplier because the brand name was respected and the local distributor was known to provide quality service. "We chose Cummins Power Generation equipment for its reliability and quality."

For more information about integrated standby power systems, contact your local Cummins Power Generation distributor or visit www.cumminspower.com.

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