Complication was added by the venue’s crowded performance schedule, which meant that all work had to be carried out overnight.

The project was a complete turnkey installation including:

- Removal and recycling of the old batteries and battery chargers
- Manufacture and supply of two new banks of 190 SBM Ni-Cd cells, two chargers and a two-stage diode regulator to maintain supply within tight voltage limits.
- An installation plan which avoided interfering with the busy performance schedule
- Long-term product support and maintenance.

Case study
Ideal for emergency power

Saft’s Ni-Cd batteries are specially designed for backup power and bulk energy storage. They are significantly lighter than traditional lead-acid batteries and have a longer life, leading to a low Total Cost of Ownership. The system was designed to provide 100 kW for two hours with 16-hour recharge capability.

Saft battery systems – key features

- SBM cells can provide power for emergency backup systems that require continuity for anything from 30 minutes to three hours
- Ni-Cd cells are robust and lightweight, suitable for spaces with size and weight restrictions
- Minimum life of 20 years
- Complete turnkey installation by a professional and flexible installation team
- Designed to suit backup power applications
- Ni-Cd cells offer high energy density, long life, low life cycle costs and high resistance to electrical and mechanical abuse

Saft SBM batteries – key benefits

Saft Ni-Cd block batteries are one of the world’s most reliable power backup systems and the SBM range is typically used in backup applications to give:

- Totally reliable and low maintenance power backup with no risk of thermal run-away or sudden death
- Sustained loads for 30 minutes to three hours
- Mixed loads with a mixture of high and low discharge rates
- Frequent or infrequent discharges
- With only periodic checks, up to 20+ years of faithful service
- Wide operating temperature range of –20°C to +50°C and toleration of extremes of –50°C to +70°C for short periods