

MECHRON



Cycle Charge™ DC Generator For Bell Mobility

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Bell Mobility operates one of the largest cellular phone networks in Canada. Mechron supplied and installed a Cycle Charge™ DC generator set for a critical cellular repeater station.



For Bell Mobility, availability of the repeater station is essential. Mechron's Cycle Charge™ DC generator provides full standby capability at a fraction of the cost a fully-rated AC generator set with rectifiers. Mechron's Cycle Charge™ DC generator is designed to maintain station batteries at an optimal level of charge, avoiding the need for a full current-rated AC standby generator set. Mechron supplied a 7kW, 24 VDC natural gas powered generator with full controls including interfaces to previously installed equipment.

The design and installation of the generator was complicated by the limited space available and the need to integrate the generator with the existing generator, ventilation and exhaust system. Mechron's solution required the design of a

custom control panel to interface to the existing generator set ventilation system. At the same time the damper control system was redesigned to improve environmental control. Mechron's simplified controls allow for easy control of the generator set and interfaces. The small footprint of the system allows for easy installation in tight spaces.

In the same room resides a 70KW generator that provides back-up power to the buildings elevator systems. The Mechron 7KW ventilation system works in conjunction with the 70KW generator. The controls ensure that the room temperature is maintained if one or both generators are on. The flexible control system allows the Cycle Charge™ product to be easily integrated into topologies that include existing equipment.

The Cycle Charge™ has remote dial in access. This allows operator to check the status of the unit as well as perform test starts on the generator remotely. This dramatically reduces costly trips to the site.

