

**Hong Kong Airport Services Limited**



## **Sustainable Development Report 2007**

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## Batteries and Rollers

HAS believes that extending the life time of equipment is part of waste management in that it does not only save costs but also helps reduce resource usage.

Whilst we have two major engineering companies to maintain our ground services equipment and a specialized company to manage and maintain our computer equipment, we have sought ways to prolong the life time of older equipment.

We have around 7,000 cells of rechargeable batteries to support our electric vehicles including electric tractors and electric conveyor belts. These batteries are recharged on average twice a day. However, after two to three years of use the batteries become less efficient at charging. In 1998, we purchased a battery discharging device. With this we are able to extend the life time of our batteries by 20 to 30%.



*The Torkel 720 battery discharger*

Another item of interest is the use of composite rollers to replace aluminum rollers produced by the manufacturers for our main deck and lower deck loaders. These composite rollers are cheaper but are more durable. They reduce noise level in operation and do not generate metal grains which are harmful to human eyes.



**Composite Rollers**



## **Air Pollution**

We have a comprehensive maintenance program with our maintenance contractors to ensure that emissions from our vehicles and equipment are within the legally acceptable level. Additionally, all vehicles and equipment are inspected by the Airport Authority on an annual basis. The emission from each piece of equipment is a determining factor for the issuance of an airside vehicle license.

On a day-to-day basis, the Airport Authority performs spot checks on black smoke emissions and when a vehicle fails the test, it will be suspended from service. Senior members of the HAS staff will perform such checks as well.

For the past several years, HAS has entered into joint studies with commercial and scientific organizations on vehicle emission projects, including:

- Moly Slip Product 2001E – fuel additive;
- Dodwell De-Nox smoking emission control system;
- LIS-Co fuel additive; and
- Engel Hard diesel oxidation catalyst converter.

HAS will continue to participate in such studies and introduce changes when and where applicable.

Smoking is only allowed in the designated ramp area.

## **Noise pollution**

The activities performed by HAS do not generate a lot of noise. We have, however, two programs that help in reducing noise level.

The first one is the use of electric equipment to replace diesel equipment; the former is much quieter in operation. The second is the use of composite rollers to replace aluminum rollers. Composite rollers, which are essentially made of nylon, greatly reduce the noise level when in contact with the bottom of the unit load devices, which is metal. At the same time, they do not generate metallic grains. The use of these rollers therefore protects not only the environment, but also the ears and eyes of our staff members.