

PROJECT CLEAN AIR

Certification Scheme for Clean Air Charter

Final Report

For

Cathay Pacific Catering Services (HK) Limited (CPCS)



Prepared by



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1. INTRODUCTION

Established in 1967, Cathay Pacific Catering Services (CPCS) started catering business at the old Kai Tak airport as a cooperative venture between Swire group, Cathay Pacific Airways and Hong Kong and Shanghai Hotels. Since 1992, CPCS is a wholly owned subsidiary of Cathay Pacific Airways and also a Swire group member. CPCS, the largest Hong Kong based air caterer, produces in-flight meals to airlines to be served on board of aircrafts.

With a workforce of around 1,600 employees and a fleet of about 70 vehicles and hi-loaders, CPCS supplies over 30 airlines with more than 21 million meals produced in 2007, accounting for 64% of the total market share in airline catering from Hong Kong International Airport.

This report outlines the findings of Business Environment Council (BEC) from a walk through audit and interview with Ms Bonny Chan, Quality Assurance Manager of CPCS.

From the pre-audit questionnaire completed by CPCS, it was determined that CPCS fits into Group C category of the certification scheme, showing that the organization has comprehensive management systems and means in place to identify and verify the implementation of energy efficiency / emission reduction programmes that are in compliance with the Clean Air Charter.

The site visit was conducted at CPCS' premises located at Hong Kong International Airport and led by Mr Benny Au and Ms Dorothy Lam on 27th November 2008. The purpose of this audit was to verify CPCS' commitments to the Clean Air Charter.


2. OBSERVATIONS AND COMPLIANCE


Based on the site meeting, CPCS' programmes and practices on reducing air emission were reviewed. In general, a systematic approach on addressing the Clean Air Charter's commitments has been implemented as follows:

- CPCS has obtained ISO 14001 certification since 1996 and Good Class of Indoor Air Quality (IAQ) for office area in 2008.
- CPCS has set up Environmental Steering Committee to address issues concerning the environment and target reducing and controlling CO₂ emissions. This committee is composed of all management members to ensure environmental efforts are communicated and supported throughout the company.
- Both Engineering and Operations departments are responsible for monitoring air emissions, whereas emission of boiler and energy consumption are monitored by Engineering department and Operation department checks vehicles' fuel consumption.
- ISO 14001 representatives from each department are responsible for cascading down environmental messages to relevant staff so as to raise environmental awareness among employees. Departmental heads are responsible for disseminating management direction to relevant staff carrying out environmental projects.
- Environmental updates are communicated with staff in Annual Integrated training.


Regarding the six commitments of the Clean Air Charter, the table below summarizes the achievements of HAS:

Commitment	Action done
1) Operate to a recognized world class standard, or the standards established by the Hong Kong / Guangdong governments on emissions of air pollutants, even if it is not a requirement to do so here. (Relevant to industrial operations, power plants and business with direct emissions)	<ul style="list-style-type: none"> ◆ Purchase of high-loaders equipped with Euro 4 standard or latest compliant engines as to eliminate the air pollution generated from delivery services.
2) Use continuous emissions monitors (CEMs) at significant sources, e.g. large and medium plants. (Relevant to large / medium industrial operations and power plants)	<ul style="list-style-type: none"> ◆ The main emission sources are from delivery trucks (highloaders) and boilers. ◆ The major air pollutant generated is CO₂, SO₂, NOx and PM. ◆ All vehicles are being conducted regular checks to ensure proper fuel efficiency and performance of the vehicles. ◆ As indicated by CPCS, continuous emission monitor is required as the emissions are not significant, and hence continuous emission monitoring is not

Commitment	Action done								
	<p>applicable to the scope of CPCS operation with regards to the CAC commitments.</p>								
<p>3) Publish information on energy and fuel use, as well as total emissions of air pollutants annually and timely, if emissions are significant.</p>	<ul style="list-style-type: none"> ◆ Energy and fuel consumption data are recorded in Swire Group EHS database and benchmarked against other companies within the group. ◆ CPCS publishes energy consumption and greenhouse gas emission data in Swire Pacific Sustainable Development Report annually. ◆ Data comparison on CO₂e is summarized in the table below. <table border="1" data-bbox="734 734 1417 929"> <thead> <tr> <th data-bbox="740 743 983 801">Indicator</th> <th data-bbox="983 743 1139 801">2006</th> <th data-bbox="1139 743 1267 801">2007</th> <th data-bbox="1267 743 1410 801">Reduced</th> </tr> </thead> <tbody> <tr> <td data-bbox="740 801 983 920">Direct scope 1 carbon emission (Tonnes)</td> <td data-bbox="983 801 1139 920">12,869</td> <td data-bbox="1139 801 1267 920">12,173</td> <td data-bbox="1267 801 1410 920">-5.4%</td> </tr> </tbody> </table>	Indicator	2006	2007	Reduced	Direct scope 1 carbon emission (Tonnes)	12,869	12,173	-5.4%
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<p>4) Undertake to adopt energy-efficient measures in their operations.</p>	<p>CPCS has implemented a number of energy-efficient measures in their operations to reduce emissions, including:</p> <ul style="list-style-type: none"> ◆ Hi-loaders replacement program has been implementing since 2007, there are approximately 12 hi-loaders have been replaced by new models with Euro 4 or latest compliant engines, which accounts for 14.5% of all hi-loaders, up to the year of 2008. On average, about 4 new hi-loaders will be added or replaced annually.  <ul style="list-style-type: none"> ◆ Since 2004, a steam recovery system was installed to 								

Commitment	Action done
	<p data-bbox="727 340 1422 430">recover unused steam to pre-heat water for warewash machines, which reduced the fuel consumption of the boiler.</p>  <ul data-bbox="683 1240 1422 1662" style="list-style-type: none"> ◆ CPCS has installed refrigerant water heaters since 2004 in both male and female changing rooms providing hot water as well as part of the air conditioning supply. This system reduced the energy used for electric boiler with fuel oil consumption saving of 9.3 L/hr. ◆ In 2007, approximately 5300 reflective jackets were installed in light boxes to reduce the number of light tubes needed in building to reduce the use of electricity whereas T8 energy efficient light tubes were adopted.

Commitment	Action done
	 <ul style="list-style-type: none">◆ In 2004, CPCS implemented CO₂ demand control air conditioning in canteen to adjust the air conditioning according to people traffic as way to reduce electricity consumption, with estimated annual electricity saving of 177,600 Kwh.◆ Since mid November 2007, CPCS has been implementing a fuel saving trial with a Japanese device named Fire Ball on company's vehicle fleet. The trial demonstrated diesel-saving result on hi-loaders, while it did not show significant energy saving on smaller vehicles. Further trial with adjusted device is currently carried out on small vehicles to enhance the energy saving result. 

Commitment	Action done
	<ul style="list-style-type: none"> ◆ CPCS has installed motion sensor to the escalator at the main entrance since 1998 to control the operation of escalator depends on if a rider is detected, as to cut down on electricity. 
5) Identify and encourage business-relevant measures to be taken on days when air pollution is high.	<ul style="list-style-type: none"> ◆ When air pollution level is high, CPCS will send reminder to staff to use less energy and less electricity at home and at work. ◆ CPCS is planning to stop conducting regular test of emergency generator sets or carry out any full flow flushing on high pollution days, where practicable.
6) Share air quality expertise in business with others.	<ul style="list-style-type: none"> ◆ CPCS has won environmental best practice competition organized by Airport Authority in 2005. ◆ CPCS communicates its environmental achievements with other companies through annual environmental report. ◆ CPCS also shares its environmental experiences with the other companies within Swire group in the group environmental committee meeting regularly.

3. CONCLUSION

Cathay Pacific Catering Services (HK) Limited has demonstrated their commitments towards the Clean Air Charter's commitments and is recommended to be certified under the Clean Air Charter.