# 立法會 Legislative Council

LC Paper No. CB(1)872/10-11 (These minutes have been seen by the Administration)

Ref: CB1/SS/5/10

# Subcommittee on Second Technical Memorandum for Allocation of Emission Allowances in Respect of Specified Licences

# Minutes of second meeting on Monday, 15 November 2010, at 5:30 pm in Conference Room B of the Legislative Council Building

**Members present**: Hon Audrey EU Yuet-mee, SC, JP (Chairman)

Hon Fred LI Wah-ming, SBS, JP

Hon KAM Nai-wai, MH Hon Cyd HO Sau-lan Hon CHAN Kin-por, JP Hon Tanya CHAN

**Member absent** : Hon CHAN Hak-kan

Public officers attending

: Agenda Item I

Mr Carlson CHAN Ka-shun

Deputy Director of Environmental Protection (3)

Mr MOK Wai-chuen

Assistant Director of Environmental Protection

(Air Policy)

Mr PANG Sik-wing

Principal Environmental Protection Officer (Air

Policy)

**Environmental Protection Department** 

Clerk in attendance: Ms Debbie YAU

Chief Council Secretary (1)6

**Staff in attendance** : Ms Clara TAM

Assistant Legal Adviser 9

Ms Diana WONG

Senior Council Secretary (1)8

Action

#### I Meeting with the Administration

(LC Paper No. CB(1)410/10-11(01) -- List of follow-up actions

arising from the discussion at the meeting on 2 November

2010

LC Paper No. CB(1)410/10-11(02) -- Administration's response to

CB(1)410/10-11(01)

LC Paper No. CB(1)499/10-11(03) (tabled and issued on 18 November 2010)

Table listing the allocation of emission allowances for individual power stations under the First and Second Technical Memorandum and the actual levels of emission for the specified pollutants in January to September 2010 prepared by the Legislative

Council Secretariat)

The Subcommittee deliberated (Index of proceedings attached at **Appendix**).

# Follow-up actions to be taken by the Administration

- 2. <u>The Subcommittee</u> requested the Administration to provide written responses to the views and concerns raised at the meeting:
  - (a) in respect of each of the power stations, the emission allowances in 2020 for sulphur dioxide, nitrogen oxides and respirable suspended particulates if and when it is agreed to adopt the fuel mix of 50% nuclear energy, 40% natural gas and 10% coal and renewable energy proposed under the Consultation Document

Action - 3 -

- "Hong Kong's Climate Change Strategy and Action Agenda" issued in September 2010;
- (b) consider conducting a review of the Second TM within two years after its coming into operation; and
- (c) in respect of the Lamma Power Station and Lamma Power Station Extension, whether it is technically feasible to install flue gas desulphurization system in the coal-fired generation unit(s), and if yes, the associated increase in tariff, if any.

#### Date of next meeting

3. <u>The Subcommittee</u> agreed to hold the next meeting on Friday, 19 November 2010 at 3:00 pm or immediately after the House Committee scheduled on the same day, whichever is later.

### II Any other business

4. There being no other business, the meeting ended at 6:43 pm.

Council Business Division 1
<u>Legislative Council Secretariat</u>
24 December 2010

## Proceedings of the second meeting of Subcommittee on Second Technical Memorandum for Allocation of Emission Allowances in Respect of Specified Licences on Monday, 15 November 2010, at 5:30 pm in Conference Room B of the Legislative Council Building

Time marker	Speaker	Subject(s)	Action required
000000 – 000222	Chairman	Opening remarks by the Chairman	
000223 – 001430	Chairman Administration	The Administration briefed members on its response to the concerns raised at the meeting on 2 November 2010 (LC Paper No. CB(1)410/10-11(02)).	
001431 – 002149	Chairman Administration	The Chairman referred to the table listing the allocation of emission allowances for individual power stations under the First and Second Technical Memorandum (TM) and the actual levels of emission for the specified pollutants in January to September 2010 (LC Paper No. CB(1)499/10-11(03))  In response to the Chairman's concerns, the Administration advised that —  (a) the 2015 emission allowances for nitrogen oxides (NOx) and respirable suspended particulates (RSP) set for the Castle Peak Power Station were higher than their respective emission allowances for 2010 because the methods used in ascertaining the quantity of emission allowances for 2010 and 2015 were different. Unlike Black Point Power Station which deployed mainly natural gas for electricity generation, Castle Peak Power Station used coal as major fuel and was therefore allocated higher emission allowances for NOx and RSP; and  (b) the Penny's Bay Gas Turbine Power Station was for back-up and peak-lopping and a nominal allocation of 2 tonnes per year as its emission allowances for	
		sulphur dioxide (SO <sub>2</sub> ) and NOx each would be adequate.	
002150 – 003419	Chairman Mr KAM Nai-wai Administration	Mr KAM Nai-wai expressed concerns that the 2015 emission allowances for NOx and RSP for the two power stations of the CLP Power Hong Kong Limited (CLP) added together were just slightly lower than the respective 2010 actual levels of emission, whereas the 2015 allowance for SO <sub>2</sub> for Lamma Power Station and its extension was about 40% higher than the 2010 actual level of emission. He enquired about the impact on tariff if the 2010 actual levels were adopted as the 2015 emission allowances for CLP's power stations.  The Administration explained that –	The Administration to provide information as requested in paragraph 2(a) of the minutes.

Time marker	Speaker	Subject(s)	Action required
		(a) coal-fired generation unit usually emitted more NOx then gas-fired generation unit and the NOx abatement equipment retrofitted for the Castle Peak Power Station was already among the largest;	
		(b) the Climate Change Study proposed to revamp fuel mix by reducing the use of coal for power generation from the present some 50% to 10% in 2020 when the majority of local coal-fired generation units would start to retire in phases until early 2030s. As such, it was not cost-effective to make capital investment for further abatement equipment for NOx and RSP for the coal-fired generation units having regard to the implications of tariff increase;	
		(c) despite the estimated annual growth of 1% to 2% in electricity demand for the coming years, the 2015 emission caps were more stringent than those set for 2010 and they would be met by maximizing the use of gas-fired generation units and prioritizing the use of coal units with emission reduction retrofits; and	
		(d) the 2015 emission allowance for SO <sub>2</sub> for Lamma Power Station and its extension was set taking into account the fact that those coal-fired generation that had not been retrofitted with SO <sub>2</sub> abatement equipment had to be deployed to meet the 1% to 2% growth in electricity demand. As the station could not be retrofitted with further abatement equipment due to space constraints, the power company would have to procure higher quality coal in order to meet the cap.	
003420 – 004420	Chairman Ms Cyd HO Administration	Ms Cyd HO expressed concern about the gap between the 2010 emission allowances and the actual levels of emission in 2010, and she was worried the same error would occur for the 2015 emission allowance. The Administration advised that the 2010 emission reduction targets were set according to the consensus reached between the Hong Kong Special Administrative Region Government and the Guangdong Provincial Government in April 2002. Since 2003, the Administration had been engaging the two power companies regarding the emission caps in 2010 which were imposed since 2005 upon renewal of their respective specified process licences.	
		Discussion on the future fuel mix and the use of nuclear electricity by customers on Hong Kong Island. The Administration advised that if the fuel mix proposed under the Consultation Document "Hong Kong's Climate Change Strategy and Action Agenda" would be adopted in 2020, the emission of SO <sub>2</sub> , NOx and RSP for the power sector as a whole could further be reduced by about 60%, 50% and 50% respectively.	

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4421 – Chairi 5151 Mr Fr Admii	s for the er Station next ten speed up was also the life
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5152 – Chairi 0200 Mr Ka Assist Adv	The Administration to provide information as requested in paragraph 2(b) of the minutes.  The Administration to provide information as requested in paragraph 2(b) of the minutes.
0200 Mr KA Assist	gas-fired iency of ed from ort of the reconsider The reconsider coming as anges in paragolility in minumistration of the reconsider for the reconsider reconsider reconsider provides as paragonal for the reconsider recons

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Time	Speaker	Subject(s)	Action required
marker		abatement equipment in the Lamma Power Station and its extension might have to be deployed for power generation to meet the anticipated growth in electricity demand and hence more allowance was given to the emission of SO <sub>2</sub> for the station in 2015 onward. As the book lives of these old generation units would expire starting from 2017, it would not be cost-effective to install the flue gas desulphurization systems for them, not	
		In response to the Chairman, ALA advised that similar to section 34(2) of Cap. 1, section 37B of the Air Pollution Control Ordinance (Cap. 311) provided that the Legislative Council had power to amend the TM in any manner consistent with the power to issue it. While it was in order to amend the frequency of review under section 2.5 of the Second TM, Members who intended to move a resolution to amend the emission allowances for any specified pollutants should have regard to consider the factors listed in section 26G(2) of Cap. 311 which had to be taken into account by the Secretary for the Environment when making the allocation.	
010201 – 010402	Chairman Ms Cyd HO Administration	Ms Cyd HO supported reviewing the Second TM within two years after it came into operation having regard that more nuclear energy could be deployed by 2014.  The Administration agreed to re-consider the request of reviewing the Second TM within two years and revert its response within the week.	
010403 - 010717	Chairman Mr CHAN Kin-por Administration	Mr CHAN Kin-por considered that HEC should be requested to replace the existing coal-fired generation units without abatement equipment with new gas-fired generation units by 2017.  The Administration explained that any further major emission reduction could only be attained through major revamp of the fuel mix, which would require careful consideration of the overall fuel mix strategy, advanced planning and consultation beforehand. The Administration also added that the power companies had just retrofitted existing coal-fired generation units with emission abatement equipment for achieving the 2010 emission reduction targets under the First TM. The abatement equipment would be at their best emission performance, thereby reducing the emissions in 2010 to a very low level. However, these levels should not be used as a reference for 2015 emission allowances as the emissions could be increased due to declining performance of the abatement equipment and the need for deploying more generation units without emission abatement retrofit for meeting the increase of electricity demand.	

Action 5

Time marker	Speaker	Subject(s)	Action required
010718 – 011032	Chairman Ms Cyd HO Mr KAM Nai-wai Mr CHAN Kin-por	Ms Cyd HO suggested the Subcommittee moved a resolution to amend the review frequency of the Second TM to not less than once every two years if the Administration did not agree to do so.  Date of next meeting.	The Administration to provide information as requested in paragraph 2(c) of the minutes.

Council Business Division 1 <u>Legislative Council Secretariat</u> 24 December 2010