Fresh Water Cooling Towers Scheme

Application for Participation (Preliminary Assessment)

Date:_____

To : Director of Electrical and Mechanical Services

Part A : (To be completed by the Designer of the installation(s))

1. Designated Area		
1.1	Is the building located inside the Designated Area? *(please refer to EMSD web site for the Designated Area http://www.emsd.gov.hk)*	☐ Yes (please complete all Sections of Part A) (Designated Area:_____) ☐ No (please complete Section 2, 3 and 4 of Part A and mark the cooling tower location on the nearest Designated Area plan)

2. General Details		
2.1	Building name:	
2.2	Building address:	
2.3	Building type:	a) * New Building / Existing Building (Issue date of Occupation Permit: _____) b) * Commercial / Composite Building / Educational / Government / Hospital & Healthcare / Hotel / Logistics / Public Transport / Public Utilities / Industrial / Science & Technology Estate / Data Centre / Restaurant / Food Factory / Other (please specify) _____
2.4	Number of cooling towers to be installed:	_____no.
2.5	Total non-domestic gross floor area (GFA) of the building: *(please use figure for submission under Buildings Ordinance)*	_____m^2
2.6	Floor area served by A/C installation:	_____m^2
2.7	Anticipated commencement date of the cooling towers installation:	_____
2.8	Anticipated completion date of the cooling towers installation:	_____

3. Cooling Tower Details			
3.1	Scope of works:		New / Replacement *
3.2	In case of replacement #, the existing heat rejection device to be replaced is: ☐ Air-cooled chiller / Seawater cooling tower / Pumped sea-water once-through * ☐ Fresh water cooling towers : ☐ Scheme tower (EMSD Registration No.: PS - _____) ☐ Non-scheme towers ☐ Other (please specify) _____		
3.3	(a) Cooling capacity :	Duty: _____ kW; Standby: _____	kW
	(b) Heat rejection capacity :	Duty: _____ kW; Standby: _____	kW
3.4	Estimated daily operating hours:		_____hours

For works involving replacement of an existing cooling tower at the same location, only Form EMSD EE CT1B and Form EMSD EE CT4 should be submitted directly.

4. Water Aspect		
4.1	Estimated daily operation hour:	_____hours
4.2	Estimated peak daily make-up water demand by cooling tower(s): ^	_____m^3
4.3	Estimated peak daily bleed-off volume: # ^	_____m^3
4.4	Estimated peak daily demand for flushing: ^	_____m^3
4.5	Bleed-off water to be directly discharged to public sewerage? *(If yes, please apply to EPD for application of Discharge Licence)*	Yes / No*
4.6	(a) Water saving measure (e.g. Rainwater harvesting, condensate water recycling, etc.)	Please specify: _____ _____
	(b) Estimated daily water saving:	_____m^3
Remarks: *# It is a mandatory requirement to reuse the bleed-off water for flushing purposes. If the bleed-off water is not reused for flushing purpose or there is other discharge arrangement other than reusing for flushing, please specify the discharge arrangement and state the reason(s) in a separate sheet. ^ Please provide calculations.*		

5. Cooling Tower Installed Location *(for building in non-designated area, fill in part 5 after receiving confirmation of adequacy of fresh water supply, and submit Form CT1A again)*					
5.1	Are the cooling towers to be installed in a composite building (residential/ commercial)? *(If yes, please submit technical assessment report and provide supporting information for completing consultation of relevant resident association or alike)* *(Details please refer to CoP(FWCT) Part 1 Section 4.8)*				Yes / No*
5.2	Installation location:			*Roof / Podium / Indoor / Other (please specify) _____	
5.3	Separation distances:			Horizontal separation	Vertical separation
	(a) Any critical air intake / exhaust# or operable window near cooling tower(s):	Yes / No*	Outdoor air intake	_____ m	_____ m
			Exhaust air outlet	_____ m	_____ m
			Operable window	_____ m	_____ m
	(b) Any public accessible area next to cooling tower(s) exhaust:	Yes / No*	Public accessible area	_____ m	_____ m
Remarks: *# Critical outdoor air intake refers to fresh air intakes of the building air conditioning systems (e.g. primary air unit, air handling unit, lift vent) or any intake that draws fresh air into the occupied area or vent pipe of water tanks. Critical exhaust air outlet refers to kitchen exhaust, toilet exhaust, car park exhaust, food processing exhaust, laboratory exhaust, outlet of drainage vent pipe, generator flue discharge, or any exhaust that can contaminate the cooling water or pollute the cooling air. (Details refer to CoP(FWCT) Part 1 Section 4)*					
5.4	Direct distance between the cooling tower exhaust outlet and the nearest noise sensitive receiver (NSR):				_____m
5.5	Building type of the nearest NSR:				* Residential / Commercial / Composite / Medical or Health Care / Others (please specify)_____ _____

6. Information to be submitted with this application form *(for building in non-Designated Area, fill in part 6 after receiving confirmation of adequacy of fresh water supply and submit Form CT1A again)*	
Please put a tick if the following information are submitted together with this form	
6.1	☐ Site plan of the premises / building(s) showing the following information: ☐ nearest noise sensitive receiver(s) ☐ location of the cooling tower installation ☐ cooling tower separation distance from the nearest adjacent building ☐ location of cooling towers marked on "Scheme Location Plans of Designated Areas" *(for both Designated Area and non-Designated Area applications)*
6.2	☐ Drawing(s), including plan(s) and section(s), to legibly show the following information: ☐ cooling tower installation(s) ☐ critical operable window, outdoor air intake and exhaust air outlet and their separation distances from cooling tower(s)
6.3	☐ Other supporting documents ☐ Technical assessment report *(Details please refer to CoP(FWCT) Part 1 Section 4.5 and 4.8)* ☐ Plume abatement report endorsed by the owners of cooling towers (if applicable) *(Details please refer to CoP(FWCT) Part 1 Section 4.5 and 4.8)* ☐ Risk management plan (if applicable) *(Details please refer to CoP(FWCT) Part 1 Section 4.8 and Section 7.2)* ☐ Supporting documents for the application of direct discharge licence from EPD (if applicable)

Part B : (To be completed by the Designer and Owner of the installation(s))

Declaration by the designer of the Installation(s)	
I, as the designer of the installation(s), confirm that the above submitted information is accurate. Signature of Designer:_____ Full name of Designer:_____ RPE Registration No.:_____ (*Building Services / Mechanical Engineering Discipline) Company:_____ Tel. No.:_____ Fax No.:_____ Email:_____ Corresponding address:_____ _____ _____ Date:_____	Company Chop:
Declaration by the owner of the Installation(s)	
I, as the Owner of the cooling tower installation(s), wish to apply for the use of fresh water for the cooling tower(s) via the Scheme, and I fully understand the conditions and obligations of participation. Signature of Owner or his Representative:_____ Full name of Owner or his Representative:_____ Company:_____ Tel. No.:_____ Fax No.: _____ Email:_____ Corresponding address:_____ _____ _____ Date:_____	Company Chop:

Part C : (to be completed by EMSD)

File Ref. No.: EMSD/EEO/WC/13/01/

EMSD Cooling Tower Registration. No.: PS-

Applicant Ref. No.: _____

Having checked Form CT1A and associated plans / drawings, the application submitted by _____ to use fresh water for the cooling tower installation(s) via the Scheme at (building name and address of premises) _____

_____

_____ is

☐ supported in principle.

☐ not supported, because _____.

Please note that the approval granted for each stage of submission by means of Forms CT1A or CT1B has a validity of five (5) years, counting from the approval date of each application. If applicant cannot proceed the application to the next application stage, i.e. submission of Form CT1B, within the validity period, this application is considered invalid.

5-year validity period for this application will lapsed on _____ (DD/MM/YYYY).

_____

( )

Post: _____

Telephone Number: _____

Date: _____

Personal Data Privacy Statement

Purpose of Personal Data Collection

1. The personal data provided by means of this form will be used by the Government for the following purposes:
   a. activities relating to the processing of the submission in this form;
   b. activities relating to requirements stipulated in the Fresh Water Cooling Towers Scheme; and
   c. facilitating communication between Government and yourself.

Classes of Transferees

2. Upon receipt of your information submission, all personal data that are collected in this form and all documents submitted along with this form will be kept at the Electrical and Mechanical Services Department and will be disclosed to the data users of the department only for activities relating to the Fresh Water Cooling Towers Scheme.

Access to Personal Data

3. You have a right of access and correction with respect to personal data as provided for in sections 18 and 22, and Principle 6 of Schedule 1 of the Personal Data (Privacy) Ordinance. Your right of access includes the right to obtain a copy of your personal data provided by this form

Enquiries

4. Enquiries concerning the personal data collected by means of this form, including the making of access and correction, should be submitted in writing and addressed to the Director of Electrical and Mechanical Services by posting to Electrical and Mechanical Services Department, 3 Kai Shing Street, Kowloon, Hong Kong, or via email info@emsd.gov.hk. For other enquiries relating to the Fresh Water Cooling Towers Scheme, please call 3912 0642 or contact the 1823 Call Centre.

Prevention of Bribery

Any attempt to offer advantage (as defined in the Prevention of Bribery Ordinance ("POBO") (Chapter 201 of the Laws of Hong Kong)) to any Government officer with a view to influencing the outcome of this application constitutes an offence under the POBO and renders the application invalid. The case will be reported to the Independent Commission against Corruption. You should report to the ICAC (Telephone No.: 2526-6366) if any government officers or their agents solicits an advantage from you in relation to this application.