

Fresh Water Cooling Tower Scheme for Air Conditioning Systems
Summary of Operational Information for Cooling Tower Installation
(Records kept by Owners of Cooling Towers)

Date: _____

Operational information for the month of _____ in Year _____

Cooling tower installation(s) at : _____

1. Operational information and water sampling results of the above month are summarized in page 2 of this Form.
2. This is also to record that
 - (a) The cooling tower shell is in good*/fair*/bad* condition.
 - (b) The supporting framework of the cooling tower shell is in good*/fair*/bad* condition.
 - (c) The maintenance carried out for each cooling tower of the installation has been recorded according to the requirements of the Scheme document.

(Remark: If the cooling tower shell and / or the supporting framework for the cooling tower is/are in bad condition, please use a separate sheet to describe details and planned action if any):

Signature of Owner or his Representative: _____	Date: _____	
Full Name of Owner or his Representative: _____	Company Chop:	
Company: _____		
Tel No.: _____ Fax No.: _____		
Correspondence Address: _____		

Operational Information (for Month: _____ Year: _____):

Cooling Tower Registration No.: PS- _____
Owner's cooling tower ref. no. _____
Daily operation time: _____ to _____
Power : Energy consumption for all water-side equipment of the AC system _____ kWh
Make-up fresh water : Total water consumption in the month _____ m³
Effluent discharge : Total discharge volume in the month _____ m³

Cooling water sampling results (Monthly unless otherwise stated - see Notes 1 to 4):

Water sampling date:	_____	Water Temperature	_____ °C
Total Dissolved Solids (TDS)	_____ mg/L	Calcium Hardness	_____ mg/L
Conductivity	_____ µS/cm	Total Alkalinity	_____ mg/L
Suspended Solids (SS)	_____ mg/L	pH	_____
Residual biocide concentration (1)	_____ mg/L	Residual biocide concentration (2)	_____ mg/L
Residual inhibitor concentration (1)	_____ mg/L	Residual inhibitor concentration (2)	_____ mg/L
Heterotrophic Colony Count (HCC)	_____ cfu/mL	Legionella pneumophila Sg1	_____ cfu/mL
Legionella pneumophila Sg2-14	_____ cfu/mL	Legionella Other species	_____ cfu/mL

Bleed-off water sampling results (Quarterly - see Note 5):

Water sampling date:	_____	Water Temperature	_____ °C
5-Day Biochemical Oxygen Demand (BOD ₅)	_____ mg/L	*Chemical Oxygen Demand (COD)	_____ mg/L
Suspended Solids (SS)	_____ mg/L	Dissolved Oxygen (DO)	_____ mg/L
Residual biocide concentration (1)	_____ mg/L	Residual biocide concentration (2)	_____ mg/L
Residual inhibitor concentration (1)	_____ mg/L	Residual inhibitor concentration (2)	_____ mg/L
Ammoniacal N	_____ mg/L	Threshold Odour No.	_____ T.O.N.
Colour	_____ H.U.	Turbidity	_____ N.T.U.
Synthetic Detergents	_____ mg/L	E. Coli / 100 mL	_____ count

Note 1: HCC to be tested every month and Legionella to be tested every three months unless otherwise required for validation of the effectiveness of water treatment.

Note 2: HCC and Legionella should be tested to APHA 9215B:1998 and AS3896 respectively or equivalent.

Note 3: Copies of the laboratory test reports on Legionella and HCC should be accompanied with this form.

Note 4: Cooling water samples should be tested every month unless otherwise required.

Note 5: Bleed-off water samples should be tested every three months unless otherwise required.