SS 9 - Mechanical Ventilation, Air Conditioning Systems and Cooling Towers

Address:								
Provided by (name):								
E	quipment Register							
	Make (major components)	Model Location						
1								
2								
3								
4								
5								
6								
Performance/Installation Standard		□ AS/NZS 3666.2 □ AS 1668.2 □ Specifically Designed Alternative Solution □ Other (Historical)						
Inspections and Maintenance Standard: As a minimum these		Comp. Schedule Handbook and AS/NZS 3666.2 AS 1668.2 Specifically designed solution provide details separately						
inspections and maintenance procedures will be carried out:		Planned preventative maintenance and responsive maintenance will be carried out in accordance with the nominated performance and inspection standard or document to ensure the system will operate as required. See Below.						
1	equency and sponsibility:	☐ Annually ☐ Owner ☐ IQP						
		☐ Six-Monthly ☐ Owner ☐ IQP						
		☐ Monthly ☐ Owner ☐ IQP						
		☐ Weekly ☐ Owner ☐ IQP						
	spections and aintenance:	•						
Annual / Monthly Inspections		Annual and monthly inspections should be carried out in conformance with the applicable standard selected above.						
Monthly / Weekly Inspections		In addition to the maintenance required by the applicable standard selected above particular attention must be given to systems incorporating cooling towers or condensers in case organisms such as Legionella are present.						

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Cooling Towers	Chemical control					
	For cooling tower chemical dosing:	cooling towers and evaporative condensers with automatic ical dosing:				
	bacteriological tests performed as detailed in Table 1					
	For cooling towers and evaporative condensers without automatic chemical dosing:					
	 weekly dipslide tests bacteriological tests performed as detailed in Table 1 					
	When dipslide tests have a result greater than 10^5 cfu/ml, co strategies in AS/NZS 3666.3 Table 3.2 must be implemented.					
Reporting:	 The owner must keep records of all inspections, maintenance and repairs undertaken in the previous 24 months. The records must be kept with the compliance schedule and as a minimum, include: Details of any inspection, test or preventative maintenance carried out. Include dates, work undertaken, faults found, remedies applied, and the person who performed the work. A Form 12A provided by an IQP annually 					
TABLE 1	Cooling Tower t	esting				
Cooling tower with automatic	Time	Test method	Test result levels dosing and control strategies ²			
Legionella	Monthly	AS/NZS 3896 ¹	AS/NZS 3666.32 Table 3.1			
Heterotrophic microorganisms	Monthly	AS 4276.3.1 ¹	AS/NZS 3666.3 Table 3.2			
Cooling tower without autom dosing						
In addition to the testing above, cooling towers without automatic chemical dosing must also do the following test.						
Heterotrophic microorganisms		Weekly	Dip slide	AS/NZS 3666.3 Table 3.2		

Note 1

 Tests to AS/NZS 3896 and AS 4276.3.1 shall be undertaken by an IANZ biologically accredited laboratory.

Note 2

Legionella tests with results greater than or equal to 1000 cfu/ml should be notified within 48 hours to the local Medical Officer of Health at the Public Health Service of the District Health Board, and the Required Control Strategy from Table 3.1 of AS/NZS 3666.3 shall be implemented.

Note 3

• Industrial cooling towers are not required by the Building Act to be included on a compliance schedule. Testing for Legionella in these cooling towers is required by employers to ensure a

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safe working environment for their employees under the Health and Safety in Employment Act 1992.