



Legionella Risk Assessment Reviewer Guidance – Building Hot & Cold Water Systems
Reference: HSE Control of Legionella Bacteria in Water Systems: Audit Checklists C200

Moorlands Community Centre

Risk Assessment Review

16th February 2015



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Property Name & Description Moorlands Community Centre			Review Date: 16 th February 2015
Responsible Person(s) Name & SCC Appointment: Mr Rob Butler			Last Review: 20 th February 2013
Compliance & Control Measure Checks	Yes	No	Comments/Observations
Have there been changes (or being proposed) to the use of the property in which the water systems are installed?		NO	
Have there been changes (or being proposed) to the water systems or their use?		NO	
Is there new information about potential risks or control measures?		NO	
Do the results of monitoring indicate that control measures are no longer effective?		NO	
Are the roles & responsibilities of all staff involved in control measures clearly defined in writing including responsible persons(s) & contractors?		NO	<u>Responsible persons and deputy have still not been nominated in writing within the logbook documentation.</u>
Have the persons nominated to carry out control measures including responsible person(s) received appropriate training?		NOT KNOWN	
Has there been a legionella bacteria incident associated with the water systems in the property?		NOT KNOWN	

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Risk Assessment, Written Scheme & Property/System Change Checks			
Risk Assessment	Yes	No	Comments/Observations
Does the Risk Assessment identify foreseeable risks & include an up to date schematic of the water systems?		NO	Drawings have been updated at the time of this review 2015. <u>Original risk assessment not seen filed in the logbook documentation at the time of this review 2015.</u>
Does the Risk Assessment include the measures & precautions to be taken to control foreseeable risks?		NO	<u>Original risk assessment not seen filed in the logbook documentation at the time of this review 2015.</u>
Written Scheme			
Are inspection & maintenance measures identified in the Risk Assessment being carried out?	YES		Temperature Monitoring is being carried out.
Have remedial works identified in the Risk Assessment & subsequent reviews to minimise foreseeable risks been completed?		NO	
Are the records of water system temperature monitoring & flushing representative of control measures, & up-to-date?	YES		Temperature monitoring is up to date as of February 2015. Water heater flushed monthly only.
Property & System Changes			
Have changes to property occupancy resulted in fewer occupants, intermittent occupation, or partial closure?		NO	Variable amounts of people use the community centre.
Have changes or modifications to the water systems resulted in low use outlets; dead legs; redundant service equipment or additional fittings e.g. TMV's?		NO	<u>Both toilet water heaters are faulty; one has been isolated creating deadleg pipe work.</u>
Are there any other aspects of the water system including its design, operation & maintenance that have increased foreseeable risks?	YES		No insulation fitted to any domestic water pipe work. Both toilet water heaters are faulty; one has been isolated creating deadleg pipe work.



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Risk Was (Circle)	Insignificant	Low	Medium	High	Uncertain
Risk Now (Circle)	Insignificant	Low	Medium	High	Uncertain

Remedial action to be taken	By Whom	By When
Responsible persons and deputies should be nominated in writing and recorded within the logbook documentation along with contact details. High This has not been carried out. High		
Ensure combination boiler is adjusted to achieve 50.0c at the outlets within one minute at the earliest opportunity. High Records seen indicate temperature is now satisfactory. Medium		
Repair or replace both local water heaters within the ladies and gents toilet areas. Medium This has yet to be carried out; I was informed this will be carried out this week. Medium		
Flush all infrequently used outlets weekly and record when carried out; this includes local water heaters. Medium No records of weekly flushing seen. Medium		
Insulate domestic water pipe work to help prevent heat gain. Medium This has not been carried out. Medium		
Audit logbook at least on an annual basis to ensure all monitoring is being carried out and maintained up to date. Medium This has not been carried not since April 2010. Medium		



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Compliance & Control Checks	Reviewer notes
Have responsible person(s) considered whether foreseeable risks could be eliminated?	Refer to Southampton City Council.
Have the responsible person(s) & deputies been nominated in writing?	<u>Responsible person and deputy have still not been nominated in writing.</u>
Are responsible person(s)/deputies contact details available in the event of an emergency?	No responsible person or deputies contact details were found within the logbook documentation.
Are the roles & responsibilities of all Council staff, & contractors involved in control & compliance measures identified in writing?	No roles and responsibilities of council and contractors involved in control and compliance measures were seen in writing within the log book documentation.
Have they all received appropriate training?	No training records were seen for any staff or contractors. Refer to Southampton City Council
Has the competence of contractors been checked and appropriate documentation held on file?	Refer to Southampton City Council.
Have other Health & Safety issues been actioned e.g. COSHH/MHSWR assessments for treatment chemicals and flushing routines?	Refer to Contractors used by Southampton City Council.
Do responsible person(s) keep a log of water system defects and follow up on progress?	All system defects are assumed phoned through to Southampton Property Services.
Do the responsible person(s) have a budget for remedial works and are they aware of the programme for completion?	Refer to Southampton City Council.



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Risk Assessment, Written Scheme & Property/System Change Checks	Reviewer notes
Does the risk assessment include all water systems in the building(s) including e.g. fire hose reels, spray fountains, dehumidifiers etc?	<u>Original risk assessment not seen filed in the logbook documentation at the time of this review 2015.</u>
Does the water system schematic show and identify all equipment & outlets including water softeners, TMV's, pumps, principal valves, stand-by equipment, showers, washbasins, water supply origin & systems out of use etc?	Drawings have been updated at this review 2015.
Does the Written Scheme contain the following: <ul style="list-style-type: none"> •System operating instructions? •Precautions to be taken when operating the system? •Details of the monitoring checks to be carried out on the system? 	NO YES YES
Have changes to the system been recorded in the water system logbook?	No records seen within the logbook documentation.
How are changes to the system managed & approved including approval by the responsible person(s)?	Refer to Southampton City Council.
How are remedial works co-ordinated, funded and approved including programme priorities?	Refer to Southampton City Council.



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System Design & Construction	Reviewer notes
Are the water systems designed in accordance with BS6700: 1997 & the Water Supply (Water Fittings) Regulations 1999 as amended by latest WRAS guidance?	Pipe work appeared to be copper.
Do any of the materials used in pipe systems & fittings support bacterial growth or corrosion?	Possible bacteria growth could occur within the water conditioner on mains water supply to the combination boiler if not serviced and maintained.
If TMV's are fitted are they sited within 2m of the outlet(s) served?	TMV tap fitted in disabled toilet.
Cold Water System	
Have low use outlets been installed upstream of high use outlets?	Flushing should be carried out weekly on infrequently used outlets.
Has cold water storage volumes been assessed for turnover (ideally 12 hours) & stagnation risk?	N/A
Is cold & hot water pipe work kept separated and adequately insulated?	No insulation was seen on any domestic water pipe work.
Are cold water tanks fitted with covers & insect screens, located in a cool well-insulated space, & safely accessible?	N/A
Are multiple CWST's configured in duty/stand-by mode and not operated in parallel?	N/A



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System Design & Construction	Reviewer notes
Hot Water Systems	
Is Calorifier storage capacity capable of maintaining a DHW distribution temperature of at least 50°C during maximum demand periods?	<u>Local water heaters in the ladies and gents toilets are both still faulty and should be repaired or replaced at the earliest opportunity.</u>
Are multiple calorifiers connected in parallel?	N/A
Is the calorifier(s) fitted with the following: <ul style="list-style-type: none"> •Functioning drain valve? •Temperature gauges on the flow & return? •An access panel? •A shunt pump and timer, timed to heat the calorifier to over 60°C for at least an hour a day? •Adequate primary & secondary pipe work insulation? 	N/A
Do electrically heated hot water heaters deliver water instantaneously at 50°C or above?	<u>Local water heaters in the ladies and gents toilets are both still faulty and should be repaired or replaced at the earliest opportunity.</u>
Is there a risk of scalding e.g. in buildings used by infants (under 5 years) the disabled or the elderly?	Possible risk to young children.
Have 'Very Hot' water labels been fitted to outlets used by the public including school children?	Hot water warning labels are fitted.



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Operation & Maintenance	Reviewer notes
Are low use outlets flushed at least weekly and records kept in the Written Scheme logbook?	No records of weekly flushing were seen at the time of this review.
What are the procedures for bringing stand-by equipment into service?	No standby equipment.
If TMV's are fitted, are they being maintained on a 6 monthly basis and records kept in the system logbook?	Disabled toilet has a blended tap fitted no records seen at the time of this review 2015 for maintenance.
Are CWST's inspected at least annually to include a check that there is cross flow of water and records kept in the system logbook?	N/A
Are calorifier drains checked on a monthly basis for operation and drained water conditions checked and records kept in the system logbook?	N/A.
How is calorifier internal condition assessed and what is the periodicity of internal inspection?	N/A.
Have outlets that are no longer required been cut back to the nearest main pipe branch?	No outlets have been removed.
Are up-to-date O&M manuals for the water system plant held including system valve lists, and pre-start, running, and stopping check off lists?	No records seen.
Are showers & other outlets being cleaned at least quarterly and records kept in the system logbook?	N/A



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Monitoring	Reviewer notes
Do system users carry out daily temperature monitoring checks and place records in the system logbook?	No
Are the temperatures of sentinel hot & cold-water outlets checked on a monthly basis and records kept in the system logbook?	Yes seen recorded within the logbook documentation.
Are the hot & cold-water temperatures from all other water system outlets checked on an annual basis and records kept in the system logbook?	All outlets checked monthly.
Is the temperature of the hot water supply to TMV's checked on a monthly basis and records kept in the system logbook?	Yes seen recorded within the logbook documentation.
Are calorifier flow & return temperatures checked on a monthly basis and records kept in the system logbook?	N/A.
Are calorifier temperatures checked at the base mid-level and top to check for primary heating efficiency and records kept in the system logbook?	N/A.
Are CWST inlet & outlet temperatures checked on a 6 monthly basis and records kept in the system logbook?	N/A.