QBE European Operations

Winter freeze checklist





Before freezing conditions arrive

Emergency Preparations

Emergency Preparations	
Weather Watch established, employee rota set-up for nominated staff to monitor weather conditions and to make the prewarning call.	
Severe weather emergency response plan updated. Refresher training done and copies given to emergency response team for their 'grab bag'.	
Emergency use materials checked/replenished: tarpaulins, fuel, antifreeze, salt, grit, sand, sandbags etc.	
Emergency use tools checked/replenished: cold weather clothing and footwear, snow shovels, mops, buckets, squeegies, waste bags etc.	
Plans and tools made ready to isolate and drain down tanks, boilers, water pipes and sprinkler systems if temperatures drop excessively.	
Owned emergency equipment maintenance checks done: hand-held hot air guns, space heaters, power generators, snow blowers, snow ploughs, gritters etc.	
Emergency equipment pre-contracts re-confirmed, contact details re-verified and ready at hand.	
Rental contracts started/set-up for key equipment without pre-contracts.	
Refresher training completed on the use of hand-held air guns/blowers to thaw water pipes plugged with ice. Employees and contractors reminded that they MUST NOT use open flame heat guns or space heaters.	
Building	
Checklist and rota set up for regular site inspections and internal/external building inspections by employees and/or contractors during the freeze period.	
Water drainage channels at roof level checked to be clear of leaves and other debris. Includes roof gutters, valley drainage channels, hoppers, parapet outlets and downpipes.	
Ground drains checked to be clear of leaves, branches, waste and other debris.	
Risk of ice dam formation in roof level gutters checked: loftspaces re-insulated where internal temperatures found to be high enough to cause them to develop.	
Thermostatically controlled heating installed in freeze exposed areas of a building containing water tanks and water pipes. Includes loftspaces, attics, plant rooms and other isolated areas. Heating confirmed as able to maintain 4°C or more from floor to ceiling.	
Remotely monitored thermometers fitted in freeze exposed locations. Low temperature alarms verified as functioning to indicate failed heaters or insufficient heating to an area.	
Checked building management system (BMS) alarms are functioning correctly for power supply failures, low-water fuel trips on boilers, low building temperatures, low water temperatures in exposed tanks and water ingress/leak detectors (if installed).	
Checked BMS text / bleeper / e-mail alert messages are being received by emergency responders for overnight periods, weekends and during planned shutdowns from all buildings, including vacant premises.	
Water Systems	
Vacant areas or exposed areas with freeze history: drained equipment/pipes carrying water or susceptible to condensation or freezing. Antifreeze added to systems that cannot be drained.	
Boilers protected against freeze, particularly drain lines, sight glasses and condensate lines.	
Boilers not in use or not needed during the period of freeze have been drained down.	
Master water supply shut off valve to each building located and physically tested to ensure it can be closed. Sub-divisional valves within the buildings located and tested.	
Outdoor water filled equipment and tanks prone to wind chill have been shielded/lagged.	
Indoor plant and pipework located behind open louvres in plant rooms have been shielded.	
Sprinkler systems normally switched to 'air' for the winter period done at planned Autumn visit by sprinkler contractor or done in advance of threatened freeze period.	
Checked lagging and trace heating for indoor and outdoor exposed wet sprinkler pipework and valves.	
Space heating verified as functioning to maintain 4°C or higher for cold loftspaces, valve chambers and other isolated areas that have wet sprinkler pipework.	
Sprinkler contractor has inspected and freeze proofed all fire pump houses, fire hydrants, fire system water tanks and the associated pipework.	
Pre-planned fire control impairment permit procedure is in place ready for emergency sprinkler system isolations if required, with Red Tags or Lock-Out Tags ready for use. Refresher training on the procedure done for sprinkler contractors and employees.	

During freezing conditions

Emergency Response

Weather Watch active - daily cold temperatures and forecasts being monitored.	
Emergency materials / tools / equipment inspected, protected and kept replenished.	
Building	
Site / building inspections active, including vacant areas and unoccupied premises.	
Access roads/pathways and yards kept clear of deep snow and ice build-up. Contractors engaged as necessary.	
Roof and ground drains kept open and free of ice in a safe manner. Contractors engaged as necessary.	
Ice-dam formation monitored in roof level gutters.	
Temperatures checked and recorded for vulnerable areas during the day, at night and at weekends.	
Snow monitoring active for roofs – drifts and accumulations being cleared before they reach unsafe levels. Contractors engaged as necessary.	
BMS checked as operational and key parameters being monitored.	
Water Systems	
Trace-heating systems checked to be operating correctly.	
Boilers / heaters operating satisfactorily.	
Equipment checked for signs of freeze – localised heating, lagging and shielding in place.	
Sprinkler systems checked to be ice-free on pipework and valves.	
Access to fire hydrants, fire pumps, sprinkler valvehouses kept clear of snow and ice.	
Water tanks maintaining water temperature above above 4°C and tank roofs kept clear of snow build-up.	
Fire pumphouse and sprinkler valvehouses maintaining temperatures above 4°C.	
Emergency sprinkler system isolations done using fire control impairment procedure with Red Tags or Lock-Out Tags hung on the isolated system.	

After freezing conditions

Emergency Response	
Emergency materials / tools / equipment inspected, replenished and stored away safely.	
Learnings from emergency responses and communications taken on-board and plans revised/updated.	
Building	
Site/building repairs completed as required.	
Access roads/pathways and yards cleared of remaining snow, ice and water. Contractors engaged as necessary.	
Roof and ground drains checked and cleared. Contractors engaged as necessary.	
Roof level snow drifts and accumulations cleared. Contractors engaged as necessary.	
Temporary alarms or BMS settings re-set.	
Water Systems	
Indoor/outdoor equipment and pipework inspected and checked for signs of damage, with repairs completed. Contractors engaged as necessary.	
Isolated equipment re-instated and tested to ensure correct functioning.	
Isolated sprinklers checked for damage, reinstated and impairment permits closed.	

