



Winter Freeze-Up Precautions

Too many businesses find themselves unprepared when normal winter weather suddenly turns extreme. During a severe cold spell, sprinkler or water pipes can freeze, burst, and produce devastating losses. Water damage from this type of incident, known as a freeze-up, can affect products in storage, paperwork, records, furniture, machinery, computers, and all types of electronic equipment. If the water leakage goes undetected for an extended period (over a weekend, for example), extensive flooding can result. Total costs often reach hundreds of thousands of dollars.

In "deep-freeze" conditions, a broken window or an open door in an un-insulated or unheated area can let in enough cold to freeze nearby piping and start a catastrophic chain of events. Any equipment that contains or uses water, produces condensate, or depends on pneumatic controls is vulnerable to freezing. Other conditions that make your business susceptible to freeze-ups are heating systems that lack reserve capacity beyond their normal heating load, poor building insulation, and piping run out of doors.

The following guidelines will help you plan for and implement preventive measures to better protect your business from the threat of freeze-ups.

Before the Cold Sets In

If at all possible, implement these measures in the fall, before the onset of cold weather.

1. Update your Emergency Response Program for winter emergencies to including appropriate response procedures for deep-freeze conditions.
 - Appoint one or more members of the Emergency Response Team to monitor weather forecasts and initiate winter emergency procedures when appropriate.
 - Develop procedures and priorities to be implemented when you lose heat and/or electricity.
2. Determine which processes are dependent upon continued building heat or electricity for safety (i.e., processes that are subject to solidification or runaway reactions) and need prompt attention.
3. Identify equipment, processes, and piping that contains or uses water or other liquid subject to freezing; they will need to be promptly and thoroughly drained if heat or electricity is lost.
4. Identify building areas that are unusually difficult to heat or that lose heat rapidly. Install ordinary thermometers to allow temperature monitoring during cold spells.
5. Identify equipment that is vulnerable to freezing. Prepare the equipment for cold weather by:
 - Draining and securing any idle equipment,
 - Draining condensate frequently,
 - Providing adequate heat or locating the equipment in a heated enclosure, and/or
 - Protecting it with suitable anti-freeze.

6. Service the heating system before the heating season begins. Make sure adequate supplies of alternate fuels are on hand if the system is capable of dual firing.
7. Inspect and maintain the building shell to minimize unnecessary openings. Fix windows and doors so they close tightly. Caulk, insulate, and weather-strip as needed. Close and seal unneeded dampers, louvers, and vents.
8. Drain condensate from dry-pipe sprinkler system piping by opening the priming water level drain valve until the water in the riser has been expelled, and by using the auxiliary drains installed at system low points. If there are any trapped sections of branch line piping, it may be necessary to remove sprinklers and drain the water into a bucket.
9. Open any on-site fire hydrants and allow water to flow until it is flowing clear. This measure flushes any debris from the underground main and exercises the hydrant valve. Then slowly close the hydrant, making sure that it drains. Water can often be heard draining from the hydrant, and you will notice suction if you place a hand over the hydrant hose connection as the drainage occurs.

During Cold Spells

- Monitor temperatures every few hours in vulnerable areas.
- Provide safe, portable heaters for vulnerable areas that might fall below 40 degrees.
- Provide heat or steam tracing for exterior piping that either contains liquids or needs to maintain constant temperatures.
- Use tarps to erect temporary windbreaks. For a permanent windbreak, consider planting evergreen trees and hedges upwind (prevailing winter wind direction) of vulnerable buildings and equipment.

In the Event of a Loss...

Take steps to control the damage. Move property out of harm's way and protect it from the elements.

- To report a claim, contact Gowrie and ask for your account manager or our claims experts (800.262.8911)
- Visit www.gowrie.com/claims to look up the direct claims number for your insurance company.

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