



PHILADELPHIA
INSURANCE COMPANIES

A Member of the Tokio Marine Group

Water Damage Prevention Risk Management Guidebook



PIC Loss Control Services

IMPORTANT NOTICE: The enclosed loss control information is for your consideration in your loss prevention efforts. They are not intended to be complete or definitive in identifying all hazards associated with your business, preventing workplace accidents, or complying with any safety related, or other, laws or regulations. You are encouraged to address the specific hazards of your business and to have your legal counsel review all of your plans and company policies.

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Introduction

The following information addresses the prevention and control of water damage claims. Concentration is on preventing frozen pipes from bursting.

In order for this guide to serve as a water damage prevention program, it must be adopted, distributed and supported by management. Additionally, the employees must be trained in, and familiar with, the concepts contained in this guide.

Water damage claims can be a result of many types of incidents:

1. Pipes (both domestic and sprinkler water) exposed to extended periods of low temperatures freeze and burst.
2. Sprinkler head leakage.
3. Escaped liquids – hot water heater, washing machines, refrigerators, toilets, etc.
4. Problems with improper pipe couplings or fittings
5. Water entering through building envelope – storms, rain water, surface water intrusion
6. Sewer backup



All insured clients are susceptible to water damage and can benefit from the information in this guide. However, for the insured clients located in freeze prone

areas (see map below), they should be implementing as many of the recommended practices and policies as possible.

PRE-PLANNING:

1. Establish, implement and provide training for a written water damage prevention and control program with specific guidelines. Designate a member of management to oversee the program.
2. Create a list of emergency contact information, including names and phone numbers, in the event a leak is discovered.
3. Clear drains, gutters and downspouts of debris and make sure water is directed away from the building. This will reduce the exposure of overflow.
4. Buy and install sump pumps with backup power where needed. Regularly check to make sure they are working. Check for signs of pump float corrosion.
5. Identify the location of the main electrical breaker and gas shutoff. Make sure everyone knows where they are and how to shut them off.
6. Identify the location of the main water shutoff valve and the sprinkler control valve. Make sure everyone knows where they are and how to operate them.
7. Have the appropriate tools readily available in the event of an emergency.

FREEZE

Freeze damage typically results from inadequate preparation. You will want to start your preparations early so your facilities are ready before the winter season. Schedule your review of each building at least 6-10 weeks in advance. This way you will have time to initiate any repairs or specific action before cold weather arrives.

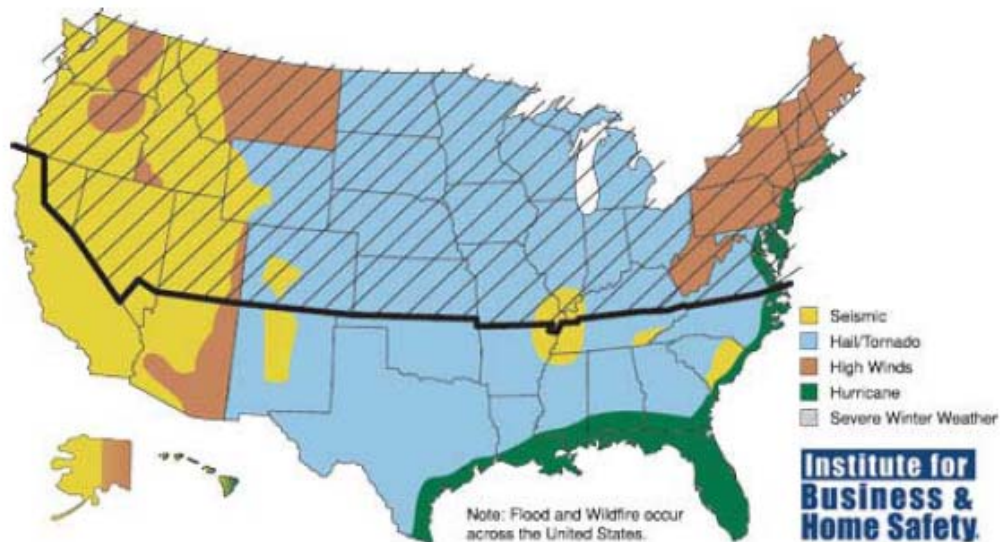
There are specific things you can do to help prevent property damage as a result of a piping or sprinkler heads from freezing.

The following is a list of suggestions that can be used in conjunction with the Winter Weather Emergency Checklist when the weather forecast calls for an extended period of temperatures 32° F or lower. The extent of what you do will

depend on the duration of cold temperatures and how low the temperature drops. Some suggestions are permanent solutions and others are temporary, to be done only during the period of freezing temperatures.

General

1. Gather emergency supplies: extra tarpaulins for windbreaks, warm clothing and hand protection for maintenance and operating crews.
2. Do not shut down operations during unusually cold weather.
3. Obtain a weather radio in order to receive constant weather updates.
4. In areas of severe cold weather, as specified on the map below, pay close attention to local weather reports for notice of extreme weather.



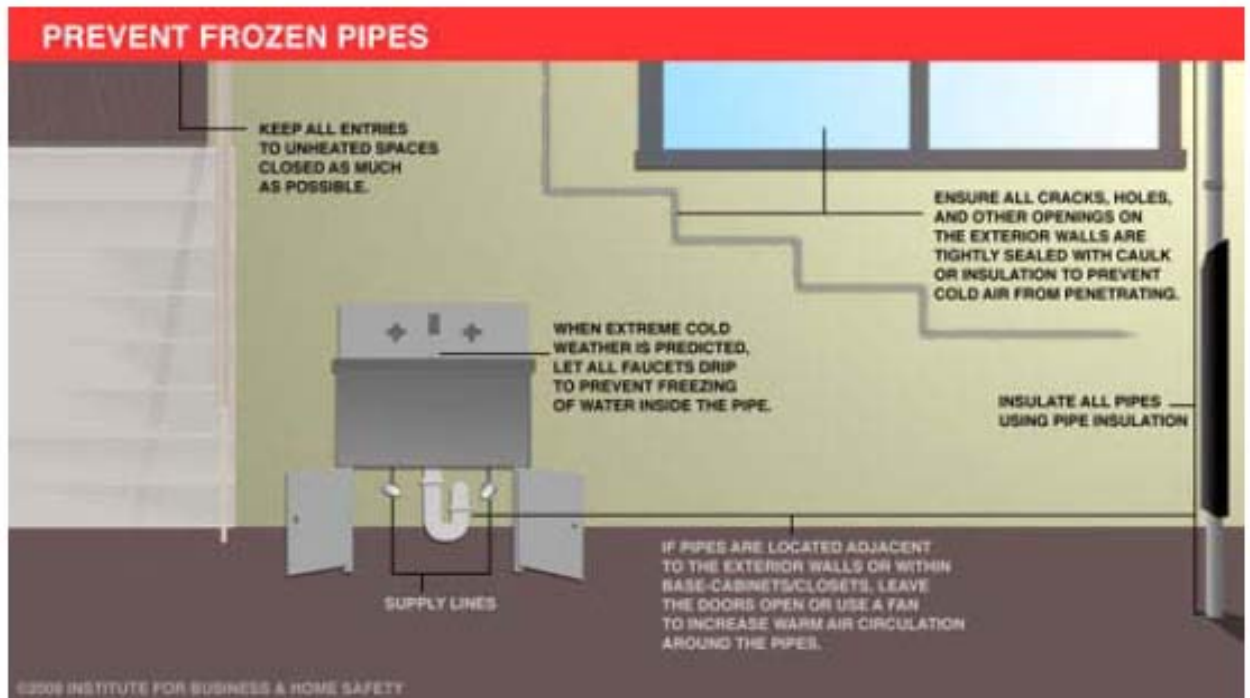
Building

1. Provide additional insulation within outside walls at the point where piping and sprinkler heads are located and in unheated areas such as the attic.
2. Inspect and confirm that your building is closed to cold air infiltration. Keep all openings in the building envelope closed.
3. Keep all exterior entry and exit doors closed as much as possible during the winter months.

4. Create better air circulation between the warmer areas and the colder areas by removing suspended ceiling tiles or opening interior doors throughout the facility, especially in rooms that may be unoccupied or unheated.
5. Have a member of your Emergency Response Organization or Security team monitor colder areas of the facility. This person should record the temperature in these areas and inspect sprinkler systems every few hours for broken or cracked piping and fittings. Also look for distorted or leaking sprinklers.
6. Install low temperature alarms in all unheated attics and above suspended ceilings set to send a signal to your alarm panel if the temperature drops below 40°F.
7. Use portable heaters in remote areas, if necessary, and be sure they are operating safely. Routine inspections of these space heaters should be scheduled.
8. A trickle of hot and cold water might be all it takes to keep your pipes from freezing. Let warm water drip overnight, preferably from a faucet on an outside wall.



9. Check heating equipment to make sure it will still be able to maintain building temperatures above 40°F at the coldest points in the building (eaves, corners, spaces with no direct heat, etc.)



Equipment

1. Provide heat tracing and insulation on water filled instrumentation and control lines.
2. For air conditioning, remove water from water jackets, and drain condensers of chilling units.
3. Test the heating system for proper function and make sure fuel supplies will be adequate, especially where oil fired equipment is used in winter weather months.
4. For boilers, completely drain idle equipment and remove low points and dead ends.

Fire Protection Equipment

1. Place thermometers inside buildings near sprinkler systems
2. Know the location of underground fire mains. Ensure adequate depth of ground coverage is maintained especially where construction, excavation or erosion has occurred.
3. For dry sprinkler systems:

- a. Low points in dry sprinkler systems should be drained after each operation and before the onset of freezing weather conditions.
 - b. As part of the weekly inspection, low points should be drained.
 - c. The dry pipe valve room should be maintained at 40°F or higher.
4. Pipes for wet sprinkler systems should be protected from freezing with the use of antifreeze loops or proper heating. Insulation and caulking must be adequate to prevent cold drafts from affecting the system.
5. Automatic Sprinkler systems should not be drained except as a last resort.
6. For fire pumps:
 - a. Maintain pump room at 40°F or higher.
 - b. For diesel engine drives, the temperature should be at least 70°F.
 - c. If pump suction is from an open reservoir, the intake and pipe should be below the frost level underground and deep enough to prevent ice obstructions.
7. Flush circulating heaters and piping for gravity and suction tanks.
8. Check hydrants for tightness and repair any leaks.

Before You Leave a Building Unoccupied

1. If your business is unoccupied for more than 24 hours at a time, have a plan in place to inspect the building once a day for freezing pipes during the winter months.
2. Set the thermostat no lower than 55°F.
3. If the building will be unoccupied for an extended duration, shut off main water supply and drain the water before leaving.
4. DO NOT – shut off sprinkler protection. This is your only means of automatic fire control protection.

If Your Pipes Freeze

1. If freezing does occur, relieve pressure buildup in the pipes between the ice blockage and the faucet. The pressure buildup is the actual cause of bursting pipes.



2. If you turn on your faucets and nothing comes out, leave the faucets turned on and call a plumber.
3. If you detect that your water pipes have frozen and burst, turn off the water at the main shutoff valve in the facility. Leave the water faucets turned on.
4. Waterproof the area with plastic drop clothes or containers.
5. Use a blow dryer to thaw the frozen pipe.



6. Wrap the pipe with hot cloths.



7. Start from the area closest to the faucet and work your way backward.
8. DO NOT - Use electrical appliances to thaw pipes in areas of standing water. You could get electrocuted.
9. DO NOT - Try to thaw a pipe with a torch or open flame.

WATER FROM ESCAPED LIQUIDS

Plumbing Supply Lines

1. Look for condensation around the pipes of an obvious leak.
2. Watch for stains on walls or ceilings, or a musty smell.
3. Pay attention to your water bill. A significant increase could mean a leak.

Refrigerator/Icemaker

1. Verify proper installation of icemaker supply line.
2. Tightly connect the hose to the valve. Avoid over-tightening.
3. Inspect the hose every 6 months to ensure the valve connection is secure and there are no signs of deterioration or damage.
4. Leave a 3 to 4 in. space between the back of the refrigerator and the wall to prevent crimping.

Washing Machine

1. Turn supply valves off when not in use.
2. Leave a 3 to 4 in. space between the back of the washing machine and the wall to prevent crimping of hose near the valve connection.
3. Check hoses for cracks, kinks, or blisters which are most commonly found near the hose connection.
4. Per manufacturer guidelines, replace washing machine hoses every 5 years.
5. Consider installing reinforced braided stainless steel hoses.

Water Heaters

1. Schedule a professional plumbing inspection at least once every 2 years. This should increase to annually once the warranty has expired.

2. Flush tank every 6 months to remove sediment. If you live in an area with hard water, this should be done every 3-4 months.

Toilet

1. Inspect flushing mechanism inside toilet every 6 months. The fill valve should shut off when float reaches proper water level.
2. Inspect the supply line every 6 months. Ensure connection to the valve is secure.

Sinks

1. Inspect plumbing beneath sinks every six months. Ensure connections are secure and there are no signs of corrosion on the pipes.
2. Look for kinks in copper or plastic piping. These could lead to pinhole leaks over time.

Sump Pump

1. Following the manufacturer's recommended maintenance, run the sump pump every 2-3 months and clean annually prior to the rainy season.
2. Open lid and remove debris that may be blocking the water inlet screen. Pour approximately 5 gallons of water into the pump and watch the float valve rise. As float valve rises, the pump should turn on and discharge water.
3. If pump fails to operate during the inspection, contact a plumbing professional.
4. Install a battery backup system in the event of a power failure. Replace the batteries every 2-3 years.



WATER IN BUILDING ENVELOPE

The construction materials of a commercial building envelope are as varied as its occupants and uses. All respond differently to the forces of rain wind, snow, ice and freezing temperatures. One of the best ways to minimize a building's risk of water damage is to develop, maintain and follow a Maintenance Inspection routine that includes all elements of the building envelope.

Areas of Concern:

Where the wall meets the ground – Building components such as roof drains and landscape irrigation systems can put a lot of water in the wrong place at wrong time. Quarterly:

- a. check all at-grade plumbing systems
- b. check all at-grade drainage systems
- c. test basement flood control and sump pump systems
- d. replace any leaking fittings or drains immediately – even if they are small
- e. Does irrigation system spray water against foundation wall?
- f. Are roof drain outlets clear of debris?
- g. Are any water elements at risk of vandalism?
- h. Do downspouts direct water away from the foundation?
- i. Investigate the source of standing water

Below grade building elements – Basement walls and floors are important in protecting the building from water intrusion and can provide warnings of water problems. Quarterly:

- a. Check basement floor drains and drainage systems
- b. Check all basement walls for signs of water staining and damage. If found, track the source and repair right away.
- c. Check for signs of flaking concrete. This would mean moisture seeping up thru the surface of the concrete
- d. Check for signs of mold

Roof – Most commercial roofs have HVAC equipment, vent pipes, skylights, etc. which are 'holes' in the worst possible place – overhead. Quarterly:

- a. Check all rooftop penetrations regularly from the inside and out.
- b. Verify the are seals intact around HVAC systems
- c. Are the flashings around the skylights, vents and other rooftop elements in good condition?
- d. When inspecting the roof from the underside, do you see daylight where it shouldn't be?

- e. Do you see any water stain marks?
- f. Clear drains, gutters and downspouts of debris and make sure water is directed away from the building. This will reduce the exposure of overflow.
- g. Look for general wear and tear.



Wall Systems – The exterior walls of a building can be a significant source of unwanted water leakage. All wall penetrations provide access for water to enter. If a building is seriously damaged, a specialist may be needed to bring a wall system back up to its expected performance levels. Quarterly:

- a. Check all wall penetrations for proper flashing and sealant integrity
- b. Check all major wall joints at windows, doors, electrical and plumbing penetrations



Windows – Penetrations in the Building Envelope provide Access for water to enter. Quarterly:

- a. Inspect window joints and flashings on the exterior for continuous seal integrity. If the windows are part of a drainable wall system, check to ensure that flashing openings and weep holes are not clogged.
- b. Inspect windows for the inside for glass and air seal integrity.
- c. Manually test all locks, cranks and other mechanical elements.
- d. Check interior walls around windows for water damage.
- e. Caulking – Exterior inspection of windows and doorways. Replace if deteriorated.



IF YOU HAVE WATER IN THE BUILDING

1. Shut off the water supply immediately if water is flowing into the house from a burst pipe or damaged appliance.
2. Cut off electrical service at the main breaker if the electrical system and outlets will be under water.
3. Immediately remove standing water and all moist materials.
4. Consult with a licensed building professional who can determine the extent of the repairs necessary. Water damage left unattended can result in structural failure or potentially the growth of mold.



WATER DAMAGE PREVENTION CHECKLIST: Use this checklist to minimize your facilities exposures. Instituting the following precautions, before, during and after a freeze-up or water in your facility can help mitigate the severity of the loss as well as enhance the overall safety of the facility.

Facility _____ Inspector _____
Location _____ Date _____

THE FOLLOWING CHECKLIST IS INTENDED TO PROVIDE OUR CUSTOMERS WITH THE GENERAL INFORMATION NEEDED TO PLAN AND IMPLEMENT AN ADEQUATE RESPONSE TO THIS CATASTROPHIC EXPOSURE. THE PURPOSE OF THIS FORM IS TO HELP PROTECT LIVES, PROPERTY, AND OTHER ASSETS OF THE ORGANIZATION, AND TO ENSURE A PROMPT AND EFFICIENT TRANSITION FROM NORMALCY TO EMERGENCY OPERATIONS AND BACK TO NORMALCY. EXPERTS AGREE THAT THE FOLLOWING MEASURES CAN BE EFFECTIVE IN DEALING WITH THE CHALLENGES OF SEVERE WINTER WEATHER:

PRE-PLANNING:

This should be completed 3-6 months in advance.

- ☐ Establish, implement and provide training for written water damage prevention and control program with specific guidelines. Designate a member of management to oversee the program.
- ☐ Create a list of emergency contact information, including names and phone numbers, in the event a leak is discovered.
- ☐ Clear drains, gutters and downspouts of debris and make sure water is directed away from the building. This will reduce the exposure of overflow.
- ☐ Buy and install sump pumps with backup power where needed. Regularly check to make sure they are working. Check for signs of pump float corrosion.
- ☐ Identify the location of the main electrical breaker and gas shutoff. Make sure everyone knows where they are and how to shut them off.
- ☐ Identify the location of the main water shutoff valve and the sprinkler control valve. Make sure everyone knows where they are and how to operate them.
- ☐ Have the appropriate tools readily available in the event of an emergency.

FREEZE

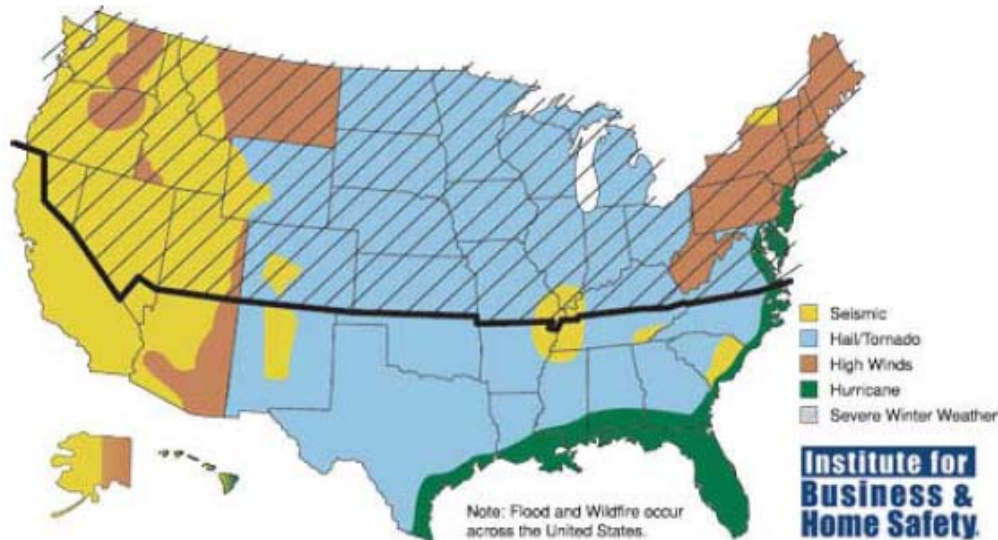
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- ☐ Do not shut down operations during unusually cold weather.
- ☐ Obtain a weather radio in order to receive constant weather updates.

- ☐ In areas of severe cold weather, as specified on the map below, pay close attention to local weather reports for notice of extreme weather.



Building

- ☐ Provide additional insulation within outside walls at the point where piping and sprinkler heads are located and in unheated areas such as the attic.
- ☐ Inspect and confirm that your building is closed to cold air infiltration. Keep all openings in the building envelope closed.
- ☐ Keep all exterior entry and exit doors closed as much as possible during the winter months.
- ☐ Create better air circulation between the warmer areas and the colder areas by removing suspended ceiling tiles or opening interior doors throughout the facility, especially in rooms that may be unoccupied or unheated.
- ☐ Have a member of your Emergency Response Organization or Security team monitor colder areas of the facility. This person should record the temperature in these areas and inspect sprinkler systems every few hours for broken or cracked piping and fittings. Also look for distorted or leaking sprinklers.
- ☐ Install low temperature alarms in all unheated attics and above suspended ceilings set to send a signal to your alarm panel if the temperature drops below 40°F.
- ☐ Use portable heaters in remote areas, if necessary, and be sure they are operating safely. Routine inspections of these space heaters should be scheduled.
- ☐ A trickle of hot and cold water might be all it takes to keep your pipes from freezing. Let warm water drip overnight, preferably from a faucet on an outside wall.
- ☐ Check heating equipment to make sure it will still be able to maintain building temperatures above 40°F at the coldest points in the building (eaves, corners, spaces with no direct heat, etc.)

Equipment

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- ☐ For dry sprinkler systems:
 - Low points in dry sprinkler systems should be drained after each operation and before the onset of freezing weather conditions.
 - As part of the weekly inspection, low points should be drained.
 - The dry pipe valve room should be maintained at 40°F or higher.
- ☐ Pipes for wet sprinkler systems should be protected from freezing with the use of antifreeze loops or proper heating. Insulation and caulking must be adequate to prevent cold drafts from affecting the system.
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 - For diesel engine drives, the temperature should be at least 70°F.
 - If pump suction is from an open reservoir, the intake and pipe should be below the frost level underground and deep enough to prevent ice obstructions.
- ☐ Flush circulating heaters and piping for gravity and suction tanks.
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- ☐ DO NOT – shut off sprinkler protection. This is your only means of automatic fire control protection.

If Your Pipes Freeze

- ☐ If freezing does occur, relieve pressure buildup in the pipes between the ice blockage and the faucet. The pressure buildup is the actual cause of bursting pipes.
- ☐ If you turn on your faucets and nothing comes out, leave the faucets turned on and call a plumber.
- ☐ If you detect that your water pipes have frozen and burst, turn off the water at the main shutoff valve in the facility. Leave the water faucets turned on.
- ☐ Waterproof the area with plastic drop clothes or containers.
- ☐ Use a blow dryer to thaw the frozen pipe.

- ☐ Wrap the pipe with hot cloths
- ☐ Start from the area closest to the faucet and work your way backward.
- ☐ DO NOT - Use electrical appliances to thaw pipes in areas of standing water. You could get electrocuted.
- ☐ DO NOT - Try to thaw a pipe with a torch of open flame.

WATER FROM ESCAPED LIQUIDS

Plumbing Supply Lines

- ☐ Look for condensation around the pipes of an obvious leak.
- ☐ Watch for stains on walls or ceilings, or a musty smell.
- ☐ Pay attention to your water bill. A significant increase could mean a leak.

Refrigerator/Icemaker

- ☐ Verify proper installation of icemaker supply line.
- ☐ Tightly connect the hose to the valve. Avoid over-tightening.
- ☐ Inspect the hose every 6 months to ensure the valve connection is secure and there are no signs of deterioration or damage.
- ☐ Leave a 3 to 4 in. space between the back of the refrigerator and the wall to prevent crimping.

Washing Machine

- ☐ Turn supply valves off when not in use.
- ☐ Leave a 3 to 4 in. space between the back of the washing machine and the wall to prevent crimping of hose near the valve connection.
- ☐ Check hoses for cracks, kinks, or blisters which are most commonly found near the hose connection.
- ☐ Per manufacturer guidelines, replace washing machine hoses every 5 years.
- ☐ Consider installing reinforced braided stainless steel hoses.

Water Heaters

- ☐ Schedule a professional plumbing inspection at least once every 2 years. This should increase to annually once the warranty has expired.
- ☐ Flush tank every 6 months to remove sediment. If you live in an area with hard water, this should be done every 3-4 months.

Toilet

- ☐ Inspect flushing mechanism inside toilet every 6 months. The fill valve should shut off when float reaches proper water level.
- ☐ Inspect the supply line every 6 months. Ensure connection to the valve is secure.

Sinks

- ☐ Inspect plumbing beneath sinks every six months. Ensure connections are secure and there are no signs of corrosion on the pipes.
- ☐ Look for kinks in copper or plastic piping. These could lead to pinhole leaks over time.

Sump Pump

- ☐ Following the manufacturer's recommended maintenance, run the sump pump every 2-3 months and clean annually prior to the rainy season.
- ☐ Open lid and remove debris that may be blocking the water inlet screen. Pour approximately 5 gallons of water into the pump and watch the float valve rise. As float valve rises, the pump should turn on and discharge water.
- ☐ If pump fails to operate during the inspection, contact a plumbing professional.
- ☐ Install a battery backup system in the event of a power failure. Replace the batteries every 2-3 years.

WATER IN BUILDING ENVELOPE

Areas of Concern:

Where the wall meets the ground – Building components such as roof drains and landscape irrigation systems can put a lot of water in the wrong place at wrong time. Quarterly:

- ☐ check all at-grade plumbing systems
- ☐ check all at-grade drainage systems
- ☐ test basement flood control and sump pump systems
- ☐ replace any leaking fittings or drains immediately – even if they are small
- ☐ Does irrigation system spray water against foundation wall?
- ☐ Are roof drain outlets clear of debris?
- ☐ Are any water elements at risk of vandalism?
- ☐ Do downspouts direct water away from the foundation?
- ☐ Investigate the source of standing water

Below grade building elements – Basement walls and floors are important in protecting the building from water intrusion and can provide warnings of water problems. Quarterly:

- ☐ Check basement floor drains and drainage systems
- ☐ Check all basement walls for signs of water staining and damage. If found, track the source and repair right away.
- ☐ Check for signs of flaking concrete. This would mean moisture seeping up thru the surface of the concrete
- ☐ Check for signs of mold

Roof – Most commercial roofs have HVAC equipment, vent pipes, skylights, etc. which are 'holes' in the worst possible place – overhead. Quarterly:

- ☐ Check all rooftop penetrations regularly from the inside and out.

- ☐ Verify the are seals intact around HVAC systems
- ☐ Are the flashings around the skylights, vents and other rooftop elements in good condition?
- ☐ When inspecting the roof from the underside, do you see daylight where it shouldn't be?
- ☐ Do you see any water stain marks?
- ☐ Clear drains, gutters and downspouts of debris and make sure water is directed away from the building. This will reduce the exposure of overflow.
- ☐ Look for general wear and tear

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- ☐ Check all major wall joints at windows, doors, electrical and plumbing penetrations

Windows – Penetrations in the Building Envelope provide Access for water to enter. Quarterly:

- ☐ Inspect window joints and flashings on the exterior for continuous seal integrity. If the windows are part of a drainable wall system, check to ensure that flashing openings and weep holes are not clogged.
- ☐ Inspect windows for the inside for glass and air seal integrity.
- ☐ Manually test all locks, cranks and other mechanical elements.
- ☐ Check interior walls around windows for water damage.
- ☐ Caulking – Exterior inspection of windows and doorways. Replace if deteriorated.

If You Have Water in the Building

- ☐ Shut off the water supply immediately if water is flowing into the house from a burst pipe or damaged appliance.
- ☐ Cut off electrical service at the main breaker if the electrical system and outlets will be under water.
- ☐ Immediately remove standing water and all moist materials.
- ☐ Consult with a licensed building professional who can determine the extent of the repairs necessary. Water damage left unattended can result in structural failure or potentially the growth of mold.

Signed _____

Dated _____

☐ **Additional Comments**

The information and suggestions presented by Philadelphia Indemnity Insurance Companies in this loss control technical resource form are for your consideration in your loss prevention and risk control efforts. They are not intended to be complete in identifying or reporting on every possible or significant hazard at your premises, preventing possible workplace accidents, or complying with all of the local, state or federal health & safety related laws or regulations. The material enclosed within this loss control reference source is intended and encouraged to be altered or redesigned by you to specifically address your hazards.