



Flood events can emanate from a variety of sources, including severe weather, tropical windstorm, and stalled or prolonged weather fronts. Facilities located nearby or within low elevation of flooding sources such as rivers, creeks and basins, may disrupt key infrastructure and business interruption potential. The following tips and actions may be helpful to consider before, during and after a flood strikes.

Actions to take before flood season	Emergency Equipment:
Prepare or locate and maintain a scaled plan or diagram of the facility that clearly shows the location of all fire protection and other emergency equipment.	 Ensure emergency generators, water and sump pumps, etc., are operational and fuel tanks are full.
Obtain and review applicable flood maps for each location and evaluate flood susceptibility of each building.	 Clean all catch basins, drains and drainage ditches. Lower the levels of retention ponds. Ensure all sump pumps are operational and connected to emergency power.
 Obtain multiple suppliers for critical building components, equipment and stock necessary to resume operations/business. Understand your energy needs and make arrangements for backup utilities and fuel 	Inspect all fire protection equipment and leave in service. All fire protection equipment should be adequately anchored and protected from flooding and floating debris.
sources where possible. Consider emergency generators, alternative fuels and the like.	Plan for facility security after a storm
Identify alternative means of transportation and alternative routes for all critical personnel, services, suppliers, contractors, etc.; and establish relationships with lease and rental companies.	Review the structural integrity of each building and structure foundation including physical damage, etc.
Actions to take once a flood warning has been issued	Check any flood doors, gates, shields or barriers for proper operation and water tightness including latches and hardware. Where possible, brick up lower building openings susceptible to flooding.
been issued	Evaluate the need for floodwalls, levees or dikes.
Plant Management/Emergency Team:	☐ Have plywood and sandbags available to barricade floodwaters.
Assemble the Plant Emergency Organization and supplies and equipment at a designated safe location onsite. Consider the following: emergency lighting, generators, portable pumps and hoses, sandbags, fans, dehumidifiers, etc.	Make arrangements for several forms of emergency communications, including cellular phones, two-way radios, ham radio operators, etc.
☐ Establish emergency communication methods.	Plant Management/Emergency Team Recovery Operations:
 Monitor weather and flood reports through the National Weather Service (NWS) and the National Ocean and Atmospheric Administration (NOAA). 	The site should be secured and a Command Center should be established to direct the recovery operation.
 Release non-essential staff, or direct to a designated safe location. Shut off all flammable and combustible liquid piping and gas lines at the source or entry into the property to reduce the likelihood of release if pipes are broken. Turn off non-essential lighting, machinery and equipment. Anticipate power 	□ Survey for safety hazards such as downed electrical wires, leaking gas or flammable liquids, poisonous gasses, etc. Look for undermining and damage to foundations or underground piping, etc. Notify appropriate utility companies of damage as soon as possible. Use care around downed power lines and leaking fuel lines and consider providing barriers or watches.
outages and surges; be prepared to shut down susceptible systems such as computers. De-energize equipment which may become submerged.	Begin salvage as soon as possible to prevent further damage.
☐ Back up important computer data and records and store backups in a safe,	Items to consider include:
elevated location not subject to flooding.	☐ Fill eroded land areas, especially around building and structure foundations.
Buildings and Structures:	Remove standing water in buildings, yard areas, etc.
Close and secure any flood doors, gates, shields or other flood barriers. Close any valves in building drains or plumbing to prevent back up into the buildings.	 Clean and dry equipment with most critical objects receiving priority. Clean roof drains, storm drains, retention ponds, etc. and remove any debris.
Place sandbags at lower building openings such as doors and other openings susceptible to flooding, and around important outdoor equipment, to divert floodwaters.	 Inspect all electrical equipment including exposed insulators, bus bars, conductors, and motors before reenergizing electrical distribution systems and equipment.
Fill aboveground and underground tanks with product or water to improve stability and minimize damage from flooding waters. Check tanks for proper anchorage and extend vent lines above level of expected flooding. Anchor and secure all portable containers of flammable or combustible liquids.	 Contents of tanks, piping, reservoirs, boilers, process equipment, cooling towers and the like should be tested for contamination before use. Mechanical equipment should be dried and
Anchor and tie down all small structures, equipment, and storage in the yard, trailers, conveyors, lumber, process equipment, etc. to prevent movement by floodwaters.	cleaned and casings inspected. Shafts should be checked for alignment and lubricating
☐ Brace unsupported structural members and foundations for structures/buildings under construction.	systems flushed. Insurance institute for Business &
Secure electrical power to buildings in imminent danger of flooding	Tell III Safety

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☐ Secure electrical power to buildings in imminent danger of flooding.

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