WINDSTORM CHECKLIST

Allianz Risk Consulting

From hurricanes in the North Atlantic Ocean, to typhoons in the Northwest Pacific Ocean, to cyclones in the Southwest Pacific Ocean and Indian Ocean, to winter storms in Europe, windstorms can have a devastating affect on your business. With the advent of just-in-time management philosophies and lean inventories, losses caused by windstorms can cripple an organization. Property damage and business interruption may be covered by the insurance policy, but the loss of market share and a damaged reputation cannot be easily recovered.

Based on our experience over the past 20 years, windstorms appear to be increasing in frequency and intensity. Certainly the population growth and expansion of industries, particularly in the developing world, will ensure that losses from windstorms will continue to increase in the future. Obviously, windstorms cannot be prevented from occurring. However, loss can be greatly minimized by adequate preparation before the storm arrives, including the development and implementation of a comprehensive written windstorm emergency plan.

In an effort to help you minimize the damage that may occur as a result of a windstorm, Allianz Risk Consulting has developed the following checklist that should be completed before, during and after a windstorm. This checklist is not intended to be all inclusive and should be used as a guide, taking into consideration your specific site conditions and processes.

Should you have any questions about windstorms or want to discuss any aspect of risk management in greater detail, please feel free to contact your local engineer at Allianz Risk Consulting. For any insurance claims, please contact your insurance broker or Allianz Global Corporate & Specialty.



PRE-WINDSTORM PLANNING

The key to minimizing damage is adequate preparation before a windstorm arrives.

☐ Protect exterior windows and doors as follows:

plywood.

☐ Attach pre-fitted windstorm shutters and/or

Inspect doors and windows for weak latches and hardware. Make repairs as needed.
 Install steel bars in pre-installed metal brackets on the inside of exterior roll-up doors.

If your site is subject to windstorms, the following should be completed prior to the storm: ☐ Develop a comprehensive written windstorm emergency plan to mitigate the exposures. The ☐ Fill fuel tanks of generators, fire pumps, plan should include: companyowned vehicles, etc. ☐ Fill aboveground tanks to capacity with product ☐ Assigning emergency organization roles and responsibilities. or water to prevent wind damage. ☐ Providing training at least annually. ☐ Clean out debris from storm drains and ☐ Assembling emergency supplies and catch basins. equipment in a safe location, such as plastic ☐ Protect computers, stock and key machinery tarps, mops, squeegees, emergency lighting, and equipment subject to water damage battery operated radio, tape for windows, with plastic tarps or waterproof covers. lumber and nails, etc. Backup all important computer data and ☐ Planning for salvage and recovery, including store in a safe location. maintaining a list of key vendors, contractors, ☐ Consider moving valuable and/or critical stock and salvage services. and materials from the site to a safe location. ☐ A business continuity plan for restoring ☐ Isolate, neutralize or remove from the site operations after the event. any chemicals that can react violently with The plan should be reviewed at least annually each other. and updated as needed. ☐ Prepare for possible flooding if located in a ☐ Designate a person to monitor the status and flood prone area: location of the windstorm, keeping ☐ Relocate important equipment, stock, and management and maintenance personnel records to higher elevations not subject to updated as needed. Allow sufficient time flooding. For equipment and stock that needed to implement the emergency cannot be relocated, be prepared to cover with plastic tarps or store on pallets. procedures. ☐ Inspect and repair the roof for problems with: ☐ Install back-flow prevention devices in sewer □ Loose roof covering. and drain lines to prevent floodwater from ☐ Loose flashing, edging strips and accessories. backing up into buildings. ☐ Blocked or loose drains, gutters or downspouts. ☐ Be prepared to place sandbags at vulnerable ☐ Inadequately secured equipment, signs, building openings and around critical stacks, roof ventilators, etc. outdoor equipment subject to flooding. ☐ Anchor large equipment, such as cranes and ☐ If there is eminent danger of flooding, shut off the building's electrical power. Note: draglines, in accordance with manufacturer's guidelines. Power to electric motor-driven fire pumps ☐ Relocate loose outdoor equipment, machinery, should remain in service. stock and other debris indoors or fasten securely. \square Be prepared to safely shut down operations if Outdoor structures, such as trailers, should be necessary: properly anchored. Secure storage of flammable ☐ Shut off processes and equipment following liquid containers or move them to a sheltered established procedures. ☐ Shut off all flammable and combustible area (but never into main facility areas). liquid and gas lines at their source to prevent ☐ Identify and consider removing any large trees or limbs that could fall and damage buildings, discharge from broken piping. outdoor equipment, power lines, etc. ☐ Enforce "No Smoking" and "No Cutting or

Welding" rules. Protect or shut off other

possible flame sources.

DURING A WINDSTORM

☐ Emergency response team personnel should remain at the facility if safe to do so and be prepared to respond.	☐ Constantly monitor any processes, equipment, boilers, furnaces, etc., that must remain on line during the windstorm.
☐ Continue to monitor weather reports for information on potential storm damage, access to property, utility outage, etc. Update management and maintenance accordingly.	☐ During power failure, turn off electrical switches to prevent reactivation before necessary checks are completed.
☐ Patrol the property continuously and watch for roof leaks, pipe breakage, fire or structural	

AFTER A WINDSTORM

damage.

 □ Secure the site to prevent unauthorized entry. □ Organize and prepare emergency crews for salvage and cleaning operations. □ If safe to do so, conduct an immediate damage. assessment, paying particular attention to the following: □ Structural damage to the building. □ Roof coverings. □ Fire protection equipment, maintaining as much fire protection in service as possible by isolating damaged sections, then making repairs and restoring systems back to service as soon as possible. Notify ARC if any system will be impaired for more than 10 continuous hours. □ Utilities, including electricity, gas, water, compressed air, HVAC, steam, etc. (isolate as necessary). □ Production & process equipment. □ Areas subject to flooding, including basements. □ Notify utility companies of any outages or damage. □ Call in key personnel and notify contractors to begin major repairs. Make sure facility safety procedures are fully implemented before work commences. This includes controlling ignition sources such as smoking and hot work. Follow all hot work permit procedures. 	 □ Initiate salvage operations to perform the following: □ Promptly cover any compromised exterior building elements, such as damaged roof coverings, doors, windows, etc., with plastic tarps to prevent water entry. □ Relocate damaged stock and equipment to dry areas. □ Clean and dry equipment, placing priority on critical high-valued equipment. □ Inspect and repair electrical systems and equipment before re-energizing. □ Clear any debris from roof and yard drains, gutters, drain pipes, gutters, catch basins, etc □ Remove water and dehumidify damp areas. Monitor air humidity levels over an extended period of time in areas with highly sensitive equipment. □ Review the effectiveness of the windstorm emergency plan and revise as needed.

If needed, please contact your insurance broker or Allianz Global Corporate & Specialty for assistance in reporting a claim.

