

Introduction

The pre-emergency plan is usually thought of as a preplan for fires since fire is one of the emergencies most frequently encountered. However, dealing with fire emergencies is only one of the situations a pre-emergency plan should include. The pre-emergency plan should spell out a course of action that directs personnel in acting immediately and correctly during all types of emergencies such as fire, explosion, bomb threats, tornadoes, hurricanes, etc. The local fire department should be invited to tour your facility and should offer assistance in developing your pre-emergency plan.

The main objective of any pre-emergency plan should be to provide a safe environment for employees during an emergency.

The pre-emergency plan should include a diagram of the facility showing construction, occupancy, utility shutoffs, hazardous materials, flammable liquids storage and use areas, and fire protection equipment. This diagram should be provided to the local fire department and CNA. Any time it is necessary to evacuate the facility due to an emergency the emergency team is responsible to make sure everyone is out of the building. Therefore, there should be a meeting place for groups and a headcount should be taken.

The pre-emergency plan outlined should include an emergency team with detailed duties during an emergency. The size of emergency team will vary with the size and complexity of the company it protects. The emergency team must be custom fitted to a company's needs so that enough people are assigned to handle all emergency functions adequately. While team members should be specifically trained to handle any emergency and minimize injury to employees and damage to property, all employees should have basic and general knowledge of the entire pre-emergency plan and what is expected of them.

The basic emergency team will include an emergency coordinator, floor captain/group leader, exit guide, searcher, notifier, and salvage squad. In certain cases, some of the duties may not be applicable or there may not be enough personnel for a separate individual to fill all of the above mentioned assignments. Therefore, the fire squad may double as the salvage squad or a person may have more than one responsibility. If the facility operates more than one shift, emergency team members should be present on every shift. Also, alternates should be trained in case regular emergency team members are on vacation or out sick.

Hurricane

A hurricane is defined as a storm with pronounced rotary circulation, winds exceeding 74 mph, and are normally accompanied by torrential rains and flooding. The majority of hurricanes occur from mid-June to mid-November. In planning for hurricanes, a detailed checklist should be developed indicating the order in which processes are to be shut down and the facility secured.

The length of time needed to accomplish these tasks should be determined in advance so that appropriate actions can be initiated at the proper time.

The emergency coordinator should monitor the storm advisories issued by the National Weather Service and decide if conditions warrant a shut down. Precautions should be taken and appropriate actions implemented as soon as a hurricane warning has been announced.

When the worst of the storm has passed:

- 1. An immediate damage assessment should be made.
- 2. Special attention should be paid to possible fire, flooding, or impairments to fire protection equipment.
- 3. Openings in walls or roofs should be temporarily repaired or the contents of the building covered with tarpaulins to minimize rain damage.
- 4. Salvage operations should be initiated.



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5. Roof drains should be cleared of debris to prevent water from ponding on the roofs which could lead to roof collapse.

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- 6. Extreme care should be exercised around damaged power lines. The utility company should be advised of necessary repairs.
- 7. Emergency crews and salvage teams should be cautioned not to smoke or use heat producing devices if there is a possibility that flammable liquids or gases are present.

Flooding

Flooding is commonly defined as the rise and overflow of a body of water that covers land not usually under water.

Detailed information, about the susceptibility of a site flooding in the United States, has been compiled by the U.S. Department of Housing and Urban Development. The Army Corps of Engineers provides information and assistance in flood related matters. They maintain a file of flood plain information, surveys and other reports. During flood emergencies, the Corps can assist states and communities by providing materials, equipment, and personnel for flood fighting and construction of temporary levees or other protective structures.

During floods, the greatest effort should be made to keep water out, rather than planning to remove it once it fills the building. In planning for floods, a detailed list should be developed indicating the order in which processes are to be shut down and the facility secured. Flood shields will keep water out. These are permanent parts of a structure, but need to be slid into place or bolted on before the flood waters rise. If your facility doesn't have flood shields, sandbags or sheet metal coverings can be used to seal openings but these supplies must be on hand. It is important to keep boiler houses and pump rooms as dry as possible.

Stored goods might have to be raised off the floor or moved to higher floors, especially in basement areas. Storage tanks either within the building or nearby should be filled if they are not anchored securely enough to keep from floating. Barriers can be placed around sprinkler risers and gravity tank risers to keep them from being damaged by floating debris. The emergency team should turn off all open flames, shut off the main gas valve and close discharge valves on all tanks that contain flammable liquids or dangerous chemicals. Those chemicals that produce heat or noxious gases when reacted with water should be raised or moved to upper stories.

When the flood waters recede, the emergency team should supervise the following activities:

- 1. An immediate damage assessment should be made.
- 2. Special attention should be paid to possible fire or impairment of fire protection equipment.
- 3. Salvage operations should be initiated.
- 4. Care should be exercised around damaged or submerged power lines. The utility company should be advised of necessary repairs.
- 5. Drains should be cleared of debris.
- 6. Emergency crews and salvage teams should be cautioned not to smoke or use heat-producing devices if there is a possibility that flammable liquids or gases are present.

Summary

A pre-emergency plan must be tailored for each individual facility. The attached forms (Hurricane Checklist, Hurricane Tracking Data with Map, and Flood Checklist) should be used, along with the preceding information as a reference guide in preparing a sound and effective pre-emergency plan.





Suggested Flood Checklist

When preparing for a flood, a detailed checklist should be developed indicating the order in which processes are to be shut down and the facility secured. The length of time needed (expressed in hours or days) to accomplish these tasks should be determined in advance so that appropriate actions can be initiated at the proper time. Then, as each task is completed during either a flood watch or flood warning, check it off and move on to the next one.

Acti	on	Time Needed	Done	
1.	Shut down processes safely, and or combustible liquids.			
2.	Brace unsupported structural mer	mbers at construction sites.		
3.	Update important back-up record not vulnerable to flooding.	s, and move them to a location		
4.	Anchor yard items that can be mo trailers, lumber, or loose yard stor inside if practical.	oved by flood waters, such as rage. Move stored materials		
5.	Assemble the following supplies a secure location:			
	Portable pumps and hose			
	Emergency lighting			
	Lumber and nails			
	Sandbags			
6.	Ensure that the emergency crew the following:	remaining on the premises has		
	Non-perishable food	First aid equipment		
	Radio receivers	Stored drinking water		
	Lighting			
7.	Fill emergency generator and fire			
8.	Inspect all fire protection equipme			
9.	Check travel brakes on movable them in accordance with the man structions.			
10.	Place sandbags at vulnerable ope critical areas such as holes in fou			



Action			Time Needed	Done
11.	Move important machinery, stock, and reports to higher eleva- tions. By knowing the past flooding history of the area, reasona- bly safe areas can be selected.			
12.	Shut off all flammable and combustible liquid lines at their source to prevent the discharge of such liquids from piping broken by floating debris. Support exposed piping properly.			
13.	Make sure above and below ground tanks are properly an- chored to prevent flotation. Fill empty tanks with water or prod- uct, and extend vent lines on active tanks above the anticipated maximum water level.			
14.	Lash down portable containers of flammable or combustible liq- uids.			
15.	Shut off electrical power at the main building. Disconnect when that building is in imminent danger of flooding.			
16.	Install flood doors/covers.			



Suggested Hurricane Checklist

When planning for hurricanes, a detailed checklist should be developed indicating the order in which processes are to be shut down and the facility secured. The length of time needed (expressed in hours or days) to accomplish these tasks should be determined in advance so that appropriate actions can be initiated at the proper time. Then, as each task is completed during either a hurricane watch or hurricane warning, check it off and move on to the next one.

Action				Time Needed	Done
1.	Shut down processes safely.				
2.	Inspect roof edging strips, gutters drains.				
3.	Inspect sign and stack supports,	guy wires, and anchorages.			
4.	Check for weak door and window secure panel fastenings. Expedite	latches or hardware or for in- e repairs.			
5.	Protect vulnerable windows from	flying debris.			
6.	Brace unsupported structural me	mbers at construction sites.			
7.	Protect important records from wi	nd, debris, and rain.			
8.	Update important back-up record not vulnerable to the same incide	s, and move them to a location nt.			
9.	Fill above ground tanks to capaci mize wind damage.				
10.	Anchor structures in the yard that such as trailers, lumber, or any lo materials inside where practical.				
11.	Assemble the following supplies a secure location:	and equipment at a central,			
	Emergency lighting	Caulking compound			
	Lumber and nails	Tarpaulins			
	Tape for windows	Power and manual tools			
	Sandbags	Shovels and axes			
	Roofing paper				
12.	Ensure that the emergency crew remaining on the premises has the following:				
	Non-perishable food	Radio receivers			
	First aid equipment	Stored drinking water			
	Lighting				



Actio	on la	Time Needed		Done
13.	Fill emergency generator and fire pump fuel tanks.			
14.	Inspect all fire protection equipment to be sure it is in service.			
15.	Take extraordinary measures to secure outdoor traveling cranes and bridges. Besides setting rail clamps, secure with wedges and cable anchors.			
16.	Clean out drains and catch basins.			
17.	Be sure to prepare the Flood Checklist as well as the Hurricane Checklist.			
Add o	other items unique to your facility.		-	



Hurricane	Tracking	Data	With	Мар	

Storm Name						Central				
						Maxi-	Pres-	Forward		
Data Tima Latituda Longituda Milos Erom					Wind	sure	Speed	Direction		
Date	TIME	Latitude	Longitude			Wind	menes	Opeeu	Direction	
	(Deg.N)	(Deg. W)					(MPH)	(HG)	(MPH)	



How To Track A Hurricane



*Block