North Carolina MARINA / BOATYARD HURRICANE PREPARATIONS

MARINA OPERATOR CHECKLIST

E	QUIPMENT ON SITE		
	Lines		camera/video equipment
	chafing gear		mobile radio/cellular phone
	tarps		spill containment gear
	screw anchor		minimum repair kit
	batteries		
	first aid kit		
	portable generator		
	plywood		
	cut/patch equipment		<u> </u>
	duct tape		
	submersible pump		
	plastic sheeting		
	docks have quick shut off above the flood plain docks are attached to pilings that can sustain a 50 year storm there is enough storage space above the flood plain for boats there is storage space above the flood plain for office records there is emergency power for winch operation, travel lift, pur cradles and jacks are stored and easily accessible moorings have been checked by a diver and set all employees are trained for hurricane plan actions all boaters have received checklists for hurricane planning all boaters have current insurance for their vessels	and and	vehicles 1 equipment
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	SPECT MONTHLY		
	building roofs, doors and windows		
	fuel and sewer pumping lines		
	fire fighting gear		
	spill containment gear		
	lifts and cranes		
	electrical supplies		
	debris is removed from open areas		
	trees and shrubs are trimmed		
	trash bins and dumpsters are secured in protected areas		
	salvage or abandoned hulls, equipment and parts are dispose	d of	or secured
	dry storage areas and racks		
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CONTRACTORS FOR RECOVERY

SERVICE	NAME	PHC	ONE/FAX
NC Marines Trades	Mike Bradley Wendy Larimer	252-728-2144 910-962-3351	910-962-3014
County Inspector			
FEMA Assistance			
CAMA Permit Rep			
Crane/Barge			
Diver	-1 1		
Plumber			
Electrician			
Roofer			
Boat Repairs			
General Contractor			
Dock Supplier			
Fuel Spill			
Engineer			
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ACTIONS DURING STORM APPROACH

72-48 HOURS PRIOR TO PROJECTED STORM ARRIVAL

	MNAGER (this job is the same throughout the preparation stage) monitor NOAA weather station and/or the internet weather reports assist where needed coordinate volunteers acts as home base where employees can report jobs completed and where help is needed coordinate supplies, tools and labor		
0000000	rotify customers that facility is on alert monitor NOAA weather station and/or internet weather reports process mail and all paperwork back up computer records delay orders of materials and stocks that are due to be shipped contact all contractors for post-storm clean-up contact volunteers to begin preparation work cover and tape windows		
	remove or secure blowables (signs, tables, chairs, trash cans, etc.) fill fuel tanks remove or secure small drystorage boats (dinghies, kayaks, canoes etc)		
	begin hauling boats begin securing boats that have decided to remain at the docks allow boat owners to evacuate to an off-site location assist boaters in preparation		
48-24 HOURS PRIOR TO PROJECTED STORM ARRIVAL			
00000	remove equipment and records to safe storage cover remaining equipment and furniture with plastic move items that could sustain water damage to tables or off the ground purchase extra batteries, food and water for emergency securing and recovery workers have a source of ready cash for recovery work confirm insurance coverage and secure policies establish an "outside the area" contact person for communication during evacuation		

00000	move all vehicles upland secure the marina from non-essential traffic remove floating docks if possible and tie them down turn off water supply if it is public turn off fuel pumps and main electricity take pictures/video of the facility and preparation conditions	
DC	OCKS	
	continue securing vessels check boats to see that no occupants are remaining	
2	4-0 HOURS BEFORE PROJECTED STOR	M ARRIVAL
	FICE lock doors and brace them against wind set up answering machine (have battery back-up installed) give instructions for post-storm activities give approximate time to return to the marina (to be confirmed by ensure everyone has the number of the off-site contact	off-site contact)
(ALIST	ARD do a last patrol of the grounds	
	secure all access points	
	OCKS conduct a last patrol of the vessels, checking docklines and mooring	ngs
	ensure no one remains on their vessel-if they choose to remain have you the next of kin address and phone number	
		

Send All Employees Home Unless A Skeleton Crew Is Needed To Remain For The Storm

Г	DURING THE STORM
	Monitor weather reports on radio, TV and/or internet Stay in a protected area Use extreme caution and stay off the docks Do not attempt to re-tie or board a loose vessel during the storm
	Monitor weather reports on radio, TV and/or computer Coordinate return of all employees Review recovery plan Review insurance policy
	RECOVERY ware Of Snakes, Downed Electric Lines, Wet Electronic Equipment, Leaking Gas or Fuc
0000000000000000	contact employees regarding when they should return contact recovery crews contact insurance company to get an adjuster and surveyor to you set up security to prevent looting and for crowd control photograph/video everything complete a survey of the facility including equipment and inventory estimate damages and prepare a written assessment if possible if anything is stolen, file an incident report with local police set up an answering machine or volunteer to respond to customers' inquiries investigate to find a marina where your customers can berth temporarily begin clean-up efforts coordinate employees and contractors investigate boat repair facilities for customer referral control news media; no media exposure is usually better control conflicts between returning boat owners and recovery of damaged boats order repair supplies coordinate utility evaluation and reinstitution of service if your marina did not sustain damage, let other marinas know that you can take boats

CUSTOMER CHECKLIST

	chafing gear fenders two sufficient anchors with 300' or more oversized rode		flashlight with spare batteries battery-operated radio		
	exterior lights operable auto bilge pump operating (check battery) hatches are watertight power and electric gear operating		engine battery charged flashlight battery charged radio batteries charged		
000000000000000	To Do At A New Marina: □ learn marina approaches and basin □ learn the size and type of your mooring □ ensure mooring and lines are sufficient for all likely wind direction and velocity □ ensure mooring has enough weight and scope and is properly set □ learn your moorage lease and rental agreement responsibilities □ learn responsibilities for your boat's safety when a hurricane is approaching □ develop a plan for securing your vessel outside the marina if you plan to evacuate □ if evacuating, visit the site by boat and time the trip □ learn what possible delays you may encounter when evacuating (drawbridges, boat traffic etc.) □ photograph your boat and surroundings □ keep a list of all equipment on board □ keep a list of all equipment that will be removed during storm preparations □ keep a complete set of records for your boat at home □ give the marina operator the name and number of your absentee skipper □ give the marina operator a description of your boat, registration number and location				
D	DOCKED BOAT PREPARATIONS				
	strip all removable items, including spare rigging clear self-bailing cockpit drains close all through-hull fittings set chafing gear where lines will rub (chocks, cross lines, deck edge, dock edge etc.) remove portable fuel and oil storage containers		consider attaching 3 sets of bow and stern spring lines consider attaching lines to cleats at a 45 degree angle		
	remove ship papers shut off fuel tanks leave anchor light on		consider tying your boat between two piers or along a pier and anchored off one side		

MOORED BOAT PREPARATIONS

00000000000	Make Plans To Have Someone Pick You Up From Your Boat Before The strip all removable items, including spare rigging clear self-bailing cockpit drains close all through hull fittings remove portable fuel and oil storage containers remove ship papers shut off fuel tanks leave anchor light on leave auto bilge pump on check openings to ensure boat is watertight use storm pennants to increase scope attach chains directly to pennants instead of swivels add an emergency catenary weight at the vessel end of the chain	Storm Arrives
	use double or triple chafe protection	
	use chafing gear over entire length of pennants	
	use two pennants	
	if no permanent mooring is available, use two storm anchors at 45-degree a	ngles
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	f no garage is available: secure trailer to a sturdy object let half the air out of the trailer tires put wood blocks between the frame and axle take out the drain plugs cover with tarp use tie-downs	
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ANCHORED BOAT PREPARATIONS

Make Plans To Have Someone Pick You Up From Your Boat Before The Storm Arrives

strip all removable items, including spare rigging
clear self-bailing cockpit drains
close all through-hull fittings
remove portable fuel and oil storage containers
remove ship papers
shut off fuel tanks
leave auto bilge pump on
check openings to ensure boat is watertight
use 3 or 4 substantial anchors and good tie rope
tie your boat high on the mainland to a substantial tree or similar structure
do not tie parallel to the bank
keep a navigable passage at your stern to allow other boats passage
use enough line to allow for storm surge
leave enough room between your boat and others to allow for swing
take valuables off
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