Caution!

- 1. Inspect for structural and electrical damage from outside to determine if it is safe to enter.
- Electrical safety is extremely important in floods. Check for fire hazards and gas leaks. Use battery-powered light sources.
- 3. Never mix chlorine bleach with ammonia or vinegar.
- 4. Wear sturdy shoes, rubber gloves and eye protection.
- 5. Be watchful for fire ants and animals.
- 6. If mold is present, wear a respirator that can filter spores.

First Steps

See that everyone is out of danger of new flood crests, fire and falling buildings. Assume floodwater and flooded materials are contaminated.

Flood Insurance Claims

- 1. Contact your insurance adjuster immediately.
 - a. Begin cleanup, salvage and drying as soon as possible. Do not wait for adjuster. Take photos for use as an inventory. All steps suggested on this page can be taken before adjuster arrives.
 - b. Clean house so adjuster can see the damage. Keep damaged materials for proof of loss.
 - c. Leave phone number where you can be reached when adjuster arrives.
 - d. Adjuster will assess damages to house. Owner should sign proof of loss statement. Additional damage can be added when found.
- 2. Contact governmental offices for information.
 - a. Cooperative Extension Service parish office (may be listed as County Agent's Office or LSU AgCenter in parish government section).
 - b. Parish Emergency Management Office; the FEMA TeleRegistration Hotline, 800-621-3362.

Electrical Systems

- 3. Be sure all electric and gas services are turned off before entering premises for the first time.
 - a. Disconnect main switch and all circuits.
 - b. Remove covers from all outlets and fuse or breaker boxes and flush with clean water.
 - c. Let dry and spray with contact cleaner/lubricant.
 - d. Have electrician check for grounds and other unsafe conditions before reconnecting system.

Food and Water Sanitation

4. Until your local water company, utility or public health department declares your water source safe, purify water, not only for drinking and cooking, but also for washing any part of the body or dishes.

- a. Water: Strain water through a clean cloth or filter, then boil water vigorously for a full minute, let cool. If boiling is not possible, use fresh unscented liquid chlorine bleach (16 drops or 1/8 tsp./gallon of clear water; 1/4 tsp./gallon of cloudy water), stir, let stand 30 minutes. Iodine and purification tablets are not recommended.
- b. Food: Because of risk of contamination, discard all foods that came in contact with floodwater, including canned goods. Discard perishable foods that have been above 40 degrees F for more than two hours.
- c. Utensils: Discard flood-contaminated wooden cutting boards and spoons, plastic utensils, baby bottles, nipples and pacifiers. Thoroughly wash metal and ceramic pans, utensils and dishes with hot soapy water and sanitize by boiling them in clean water or by immersing them for 15 minutes in a solution of 1 tsp. chlorine bleach/quart water.

Furnishings and Carpets

- 5. Remove all furniture, bedding and carpeting to outdoors to be cleaned and dried (or discarded).
 - a. Flooded carpets and rugs are best replaced since floodwater may contain contaminants. Flooded carpet pads should always be discarded and replaced.
 - b. Remove waterlogged rugs, carpets and pads within 48 hours after flooding subsides.
 - c. If salvage is attempted, spread out rugs and carpets outdoors. Hose off. If soiled, professionally clean or work in carpet shampoo with a broom. Rinse well with solution of 1 gallon water and 2 tablespoons liquid household chlorine bleach to sanitize (if colorfast). If carpet is wool, do not add bleach.
 - d. Dry carpet and subfloor thoroughly as quickly as possible. If carpet is installed damp, it can mildew. Carpet might shrink, but a professional may be able to stretch it.

Walls*

- 6. Open flooded walls, even if they appear undamaged, to prevent mold, odor and structural decay later.
 - a. Remove water from structure as rapidly as possible. Ventilate.
 - Remove baseboards and cut holes in wallboard to drain uninsulated walls.
 - c. Remove interior surface of insulated walls to a point above water height. Discard flooded drywall.
 Undamaged paneling may be propped open or reinstalled after cleaning.
 - d. Remove and discard all wet fibrous insulation.
 - e. Clean out mud. Wall studs and plates may be sprayed with disinfectant (1 cup bleach/gallon water) to kill any existing mold and fungi.
 - f. Speed drying with dehumidifiers and fans.
 - g. Leave walls open until they have thoroughly dried (may take up to a month).

h. Select replacement materials that will withstand future floods (such as rigid foam insulation, removable wainscoting, ceramic tile, etc.).

Next Steps

7. Long-term flooding or wetness is likely to ruin most interior finishes and contents, but the next steps may be possible when flooding is short term and cleanup begins promptly. **Delay permanent repairs until the building is thoroughly dry** (may take weeks).

Subfloors

- a. Layers of submerged plywood or OSB subfloors will likely separate or swell. Affected sections must be replaced to keep new floor covering from buckling.
- b. When floor coverings are removed, allow subflooring to dry thoroughly (may take months without dehumidifier). Check for warping before installing new flooring.

Wood Floors

- c. Carefully remove a board every few feet to reduce buckling caused by swelling. If boards are tongue-andgrooved, consult a carpenter or flooring professional.
- d. Clean and dry floor thoroughly (may take weeks) before replacing boards and attempting repairs.

Tile and Sheet Flooring

- e. If submerged wood subfloor swells or separates, flooring will need to be removed. (Asbestos tiles should be removed only by a trained professional.)
- f. If subflooring is concrete, removal of floor covering will hasten drying of slab but might not be necessary if it would ruin an otherwise unharmed material.
- g. If water has seeped under loose sections of sheet flooring, remove entire sheet.
- h. Ease of flooring removal depends on type of material and adhesive. Contact a reputable dealer to find out what product and technique (if any) will loosen the adhesive.

Cleaning Wall Finishes, Woodwork and Floors*

- 8. To reduce mold and damage, clean and dry as soon as floodwaters recede.
 - a. Use phosphate-free, all-purpose or disinfecting cleaner. Wash from top to bottom. Rinse with clean water.
 - b. One-half cup of household chlorine bleach to a gallon of water can be used on nonmetallic, colorfast surfaces as a disinfectant (to kill surface mold and bacteria) after cleaning, but it will not prevent new mold growth on materials that stay damp.
 - c. Dry thoroughly and quickly. If utilities are on, use air conditioning or heater, fans and a dehumidifier or desiccants to speed drying.

Appliances and Equipment

- 9. Clean and dry submerged household appliance before starting.
 - a. With electricity or fuel turned off, unplug and open as much as possible to rinse or wipe clean and let dry.
 - b. Tilt to drain and aid quick drying. Three days to a week is necessary for drying.
 - c. Appliance repair professionals should inspect before reconnecting. Many appliances can be saved.

Furniture

- 10. Take furniture outdoors to clean.
 - a. Brush off mud. All parts (drawers, doors, etc.) should be removed. Remove or cut hole in back to push out stuck drawers and doors. Discard flooded padding.
 - b. Use commercial furniture-cleaning products designed for the type of material. Do not refinish or wax until thoroughly dry.
 - c. Dry slowly out of direct sunlight because sun will warp furniture. It may take several weeks to several months to dry.

Preventing Mold

- 11. Aggressively control mold in the weeks and months after the flood.
 - a. When power is available, continuously use air conditioning (or heat in winter) plus a dehumidifier, if possible, to remove humidity.
 - b. In an unair-conditioned home, open windows and use fans to circulate air.
 - c. Turn on electric lights in closets, and leave doors open to facilitate drying.
 - d. Try to reduce activities that add moisture to the indoor air, and use exhaust fans when cooking and bathing.

Removing Mildew from Household Articles and Upholstery

- 12. Avoid disturbing and spreading mold spores indoors. Clean mildewed items outdoors. Learn and take precautions to minimize exposure to mold. Visit www.epagov/iaq.
 - a. Use a HEPA vacuum, if available, to remove visible mold growth. Discard vacuum bag. Otherwise, wipe with damp paper towels, discard and seal in plastic bags.
 - b. Dry items in the sun if possible.
 - Sponge any remaining mildew with thick suds or commercial cleaner designed for the type of material.
 Wipe with a clean, barely damp cloth.
 - d. Wipe mildew-stained area with cloth dampened with diluted alcohol (1 cup rubbing or denatured alcohol to 1 cup water). Dry thoroughly.

For more information, visit www.lsuagcenter.com. Click on Family and Home or contact your local Cooperative Extension Service office.

*Do not sand or scrape lead-based paint. Get more information before disturbing old paint. If materials are already moldy before you can begin cleanup, get more information on avoiding mold hazards and recommended removal methods from www.epa.gov/mold or other LSU AgCenter disaster recovery publications.

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