

# THE IMPORTANCE OF: **REBUILDING & RENOVATING SAFELY**

Water and electricity do not mix. Follow this guide to quickly

## **WATER-DAMAGED ELECTRICAL EQUIPMENT**



see what equipment must be **replaced** and what electronics may be **reconditioned**. Any water-damaged equipment even if thoroughly dried will pose serious long-term safety and fire risk if not properly reconditioned.



ESFI recommends that the evaluation of water-damaged electrical equipment be conducted by **qualified electricians**. Floodwaters contaminated with chemicals, sewage, oil, and other debris can affect the **integrity and performance** of electrical equipment. Ocean water and salt spray can be **particularly damaging** due to the corrosive and conductive nature of the saltwater residue. Returning power to water-damaged electrical devices or equipment without a proper evaluation could result in an **electrical fire, shock, electrocution, or further damage to your device**.

### WATER DAMAGED ELECTRICAL EQUIPMENT

**✗ MUST BE REPLACED**



**MAY BE RECONDITIONED**

	Arc-Fault and Ground-Fault Circuit Interrupters	✗		Panelboards <i>See NEMA Standard: PB 1.1-2013</i>	
	Batteries	✗		Receptacles	✗
	High-Voltage AC Circuit Breakers			Signaling, Protection, and Communications Systems	✗
	Lighting, Ballasts, and LED Drivers	✗		Surge Protective Devices	✗
	Low- and Medium-Voltage Fuses	✗		Switchboards <i>See NEMA Standard: PB 2.1-2013</i>	
	Low- and Medium-Voltage Switchgear			Switches and Dimmers	✗
	Low-Voltage Power Circuit Breakers			Transformers <i>All dry type, control circuit, liquid-filled, cast-resin</i>	✗
	Molded-Case Circuit Breakers	✗		Uninterruptible Power Supply	✗
	Motors <i>See Standard ANSI/IEEE 43-2013, A2 &amp; A3, ANSI EASA AR100</i>			Wire or Cable <i>for dry areas</i>	✗
	Outlet and Junction Boxes <i>See NEMA standard OS 1-2008</i>	✗		Wire or Cable <i>for wet areas that have not been damaged / ends not exposed</i>	

ESFI has teamed with the **National Electrical Manufacturers Association ([www.nema.org](http://www.nema.org))** to provide a detailed explanation on what electrical components can be reconditioned and which need to be replaced.

Please share this free resource to save lives



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