THE IMPORTANCE OF: REBUILDING & RENOVATING SAFELY

WATER-DAMAGED ELECTRICAL EQUIPMENT

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

Equipment	Status	Equipment	Status
Arc-Fault and Ground-Fault Circuit Interrupters	✖	Panelboards *See NEMA Standard: PB 1.1-2013*	⚒
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 *See NEMA Standard: PB 2.1-2013*	⚒
Low- and Medium-Voltage Switchgear	⚒	Switches and Dimmers	✖
Low-Voltage Power Circuit Breakers	⚒	Transformers *All dry type, control circuit, liquid-filled, cast-resin*	✖
Molded-Case Circuit Breakers	✖	Uninterruptible Power Supply	✖
Motors *See Standard ANSI/IEEE 43-2013, A2 & A3, ANSI EASA AR100*	⚒	Wire or Cable *for dry areas*	✖
Outlet and Junction Boxes *See NEMA standard OS 1-2008*	✖	Wire or Cable *for wet areas that have not been damaged / ends not exposed*	⚒

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