

# Refurbishing Boilers After Hurricanes And Extreme Weather

Boilers that have been exposed to flood conditions may be restored to a safe operating condition by taking a number of essential steps. The following procedures are recommended by Cleaver-Brooks.

**Do not attempt to start or operate a boiler that has been wholly or partially submerged under water** until the following steps have been taken:

## Firetube Boilers

- Replace all electrical or electronic devices and wiring.
- Replace insulation on front door, rear head, and air intake.
- Inspect burner components and replace as necessary.
- Clean fireside tube and furnace surfaces.
- Replace safety valves.
- Replace boiler lagging on hot water boilers.
- Dry the refractory by firing boiler on low fire for approximately 8 hours. Steam boilers – boiler lagging will dry out during the refractory warm-up.

## Flextube Boilers

- Replace all electrical or electronic devices and wiring.
- Replace inner panels and roof insulation.
- Poured refractory base – fire the boiler at low fire to dry out refractory.
- Insulated base – replace with new insulation or replace with refractory.
- Inspect burner components and replace as necessary.
- Clean furnace and fireside surfaces.
- Replace safety valves.

## Model 4 Boilers

- Replace all electrical or electronic devices and wiring.
- Inspect burner components and replace as necessary.
- Replace insulation on outer panels.
- Replace safety valves.

## Clearfire Boilers

- Replace all electrical or electronic devices and wiring.
- Inspect and clean fireside surfaces.
- Replace blanket insulation.
- Replace burner canister.
- Replace safety valves.

### **\*\* Notice \*\***

Boilers that have been in contact with saltwater or brackish water should not be repaired or operated without the approval of the local authority having jurisdiction.

### **\*\* Safety \*\***

Regardless of the skill level or the experience of a service technician or electrician assigned to inspecting the unit, the adverse and potential effects of water to the various boiler components that have been submerged may not be detected at the time of inspection. Boilers that have been submerged in water for any length of time should be replaced.