



Fire Pump Commissioning Requirement

Purpose

To ensure a smooth and compliant commissioning process for your fire pump system, the following stakeholders must be present and prepared on-site.

Who needs to be present?

To comply with NFPA-20 Section 14.2.1, the following parties must be present during the fire pump commissioning:

- **Owner/Customer Representative**
Witnesses the commissioning, confirms system readiness, and receives training.
- **Pump Manufacturer or Authorized Technician**
Supervises startup, validates alignment report, and verifies pump performance.
- **Diesel Engine or Generator Supplier (if applicable)**
Verifies engine/generator operation, fuel system, and load handling.
- **Authority Having Jurisdiction (AHJ) (if required)**
Witnesses final acceptance test and ensures code compliance.

What Happens When a Critical Path Component Needs to Be Replaced?

According to NFPA-20 Section 14.5.2:

- Replacement of components in a listed fire pump, controller, or driver must be performed by a factory-trained representative.
- To maintain the system's listing, all replacement parts must be OEM supplied and listed specifically for fire pump service.
- If original parts are unavailable, components must be replaced with new listed and approved alternatives.
- A field/on-site retest is required whenever a critical path component is replaced, changed, or modified.
- The retest must meet or exceed the original factory-certified performance curve, controller trip/start curves, and material specifications.
- Testing must be conducted by a qualified person or manufacturer's representative, and results must fall within NFPA-20 accuracy limits.

Which Components Are Considered Critical Path?

Per NFPA-20 Section 14.5.2.5, critical path components include:

- **Fire Pumps**
 - Impeller
 - Casing
 - Gear drives
- **Fire Pump Controllers (electric or diesel)**
 - Total replacement
- **Drivers**
 - Electric motor replacement
 - Diesel engine replacement or rebuild

How Often Do I Need to Perform a Flow Test on My Fire Pump?

According to NFPA 25 (8.3.3), the standard for inspection, testing, and maintenance of water-based fire protection systems:

- A full flow (annual performance) test must be conducted once per year.
- This test ensures the pump delivers the required pressure and flow as per its original specifications.
- Results must be compared to the original factory-certified curve to detect any degradation in performance.

For questions or to schedule your commissioning, please contact us:

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