

Water mist suppression system quarterly maintenance checklist

A quarterly water mist suppression system round is short on purpose: it catches the wear items that fail between annual services. This checklist is sized for a tech with a phone. Every item says what to look at and the photo that proves the round happened. Work is commonly verified against NFPA fire suppression standards, manufacturer's published instructions. Confirm the edition your authority having jurisdiction has adopted.

Who runs it: The building engineer or the system's service tech reading the supply, the pump or cylinder set, the section valves and the nozzles on the quarterly round, recording conditions rather than discharging. When: Every quarter, and closely around any work near the protected hazard, since a mist system depends on a clean supply pressure and unobstructed nozzles that both drift out of readiness quietly.

Supply and driving pressure

- ☐ Cylinder, accumulator or pump supply pressure read
- Driving pressure read at the gauge against the manufacturer's fill or standby mark, cylinders weighed or level-checked where the instructions call for it, readings noted and neither gauge stuck.
- 2 photos required
- ☐ Pump set readiness observed where fitted
- On a pump-driven system, the pump and controller in automatic and standby, no trouble on the controller, priming and suction conditions normal.
- 1 photo required

Distribution and nozzles

- ☐ Section valves in their normal positions and supervised
- Each section or zone valve set to its marked normal position and supervised, tamper reporting where fitted, nothing left isolated after prior work.
- 1 photo required
- ☐ Mist nozzles clear, aimed and caps intact
- Nozzles over the hazard clear of paint, grease and debris, protective caps or blow-off covers intact, each aimed as installed and none missing or corroded.
- 2 photos required

Detection and release

- ☐ Detection and release path observed
- Detection covering the hazard intact and reporting, release solenoid or actuator in its normal state, manual release station in place, unobstructed and not left disabled.
- 1 photo required