READY TO INSPECT — FIELD CHECKLIST

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.
  No photo required

Water supply and filtration

- [ ] Supply filter or strainer indicator within range
  Differential gauge or clogging indicator on the supply filter read within the manufacturer's range, a tripped indicator reported so the contractor changes the element.
  No photo required

- [ ] Water tank level or mains supply valve at normal
  On a pump unit, the storage or break tank at its fill mark with the refill valve working, or the mains supply valve to the unit open and supervised.
  No 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

- [ ] Tubing, fittings and supports dry and secure
  Tubing or piping and fittings from the supply to the section valves and nozzles dry, no weeping at any joint, supports tight, no corrosion or impact damage.
  1 photo required

- [ ] Spare nozzles and removal tool kept on site
  Spare nozzles of each installed type and the removal tool kept where the manufacturer's instructions call for them, the stock matching what is fitted.
  No photo 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

- [ ] Releasing control panel display normal
  Releasing panel display read with no trouble, supervisory or disabled zone standing, power and battery indications normal, any standing condition reported to the contractor.
  1 photo required

Protected enclosure and follow-up

- [ ] Protected space layout and hazard unchanged from design
  Space matches the design basis, with no new partitions, opened ceilings, stored stock or equipment shielding the nozzles, and no change in what is being protected.
  1 photo required

- [ ] Enclosure openings and ventilation shutdown still in place
  Where the design relies on a closed enclosure, doors not wedged open, no new unsealed openings, and the fans and dampers interlocked to shut down still present, changes reported.
  No photo required

- [ ] Deficiencies and impairments reported to owner and contractor
  Low pressure, a closed section valve, a tripped filter or a blocked nozzle reported before leaving, and anything that impairs the system handled under the owner's procedure.
  No photo required