

1.10. Water Mist Systems

1.10.12. Deluge Water Mist System

A water mist system utilizing nonautomatic mist nozzles (open) attached to a piping network connected to the fluid supply(ies) through a valve controlled by an independent detection system installed in the same area as the mist nozzles.

1.10.13. Dry Pipe Water Mist System

A water mist system using automatic nozzles attached to a piping system containing air, nitrogen, or inert gas under pressure, the release of which (as from an opening of an automatic nozzle) allows the water pressure to open a dry pipe valve. The water then flows into the piping system and out through any open nozzles.

1.10.14. Engineered Water Mist System

Those systems that need individual calculation and design to determine the flow rates, nozzle pressures, pipe size, area, or volume protected by each nozzle, discharge density of water mist, the number and types of nozzles, and the nozzle placement in a specific system.

1.10.15. Local Application Water Mist System

A water mist system arranged to discharge directly on an object or hazard in an enclosed, unenclosed, or open outdoor condition.

1.10.16. Pre-action Water Mist System

A water mist system using automatic nozzles attached to a piping system that contains air that might or might not be under pressure, with a supplemental detection system installed in the same areas as the mist nozzles. The actuation of the detection system opens a valve that allows water to flow into the piping system and discharges through all opened nozzles in the system.

1.10.17. Wet Pipe Water Mist System

A water mist system using automatic nozzles attached to a piping system containing water and connected to a water supply so that water discharges immediately from nozzles operated by the heat from a fire.