



Crowley Fire Department

Fire Marshal's Office

201 E. Main Street
Crowley, Texas 76036
Phone (817) 297-2201 ext: 5020 email: FireMarshal@ci.crowley.tx.us

Dry Pipe Sprinkler System

This inspection checklist is provided as a courtesy to assist with dry pipe sprinkler suppression installation requirements

Project Name: _____

Permit # _____

Address: _____

City, State & Zip: _____

Date: _____

Phone Number: _____

Hydrostatic Test

- Y N N/A Confirm underground fire line finalized w/SF-042 Certification
- Start PSI: Time: (≥ 200 psi for 2 hours)
- Pressure pumps disconnected 13-28.2.1
- End PSI: Time: (No loss of pressure)
- Relieved pressure and the gauge returned to zero?

Inspection Results: Passed Failed

24 Hour Air Test (Dry & Pre-Action Systems)

- Y N N/A System pressure @ 40 psi 13-28.2.1
- Start PSI: Time: (24 hours)
- Air compressor disconnected?
- End PSI: Time: (Pressure loss ≤ 1.5 psi)
- Relieved pressure and the gauge returned to zero?

Inspection Results: Passed Failed

Visual

Consult the stamped approved plans and verify the following

Piping & Hangers

- Verify proper pipe installed 13-16.3.1
- Verify piping sizes and layout
- Pipe hangers installed per section 13-17.1.1
- Main & cross main piping supported per 13-(Table 17.4.2.1 a)
- Branch line piping supported per section 13-17.4.3
- Support of riser piping per section 13-17.4.5
- Clearance to hangers not within 3" of an upright head 13-17.4.3.3

Sprinklers

- Type, temp. & spacing of sprinklers match plans 13-9.5.1
- Minimum distances from sprinklers 13-9.5.3.4
- Minimum deflector distance below ceiling 13-9.5.4.1.1
- Obstructions to sprinkler discharge 13-9.5.5
- Min. Temp. & Distance from heat source 13-(Table 9.4.2.5 a)
- Are dry sprinkler min. barrel lengths per 13-(Table 15.3.1 a)
- Has the penetration of the dry sprinkler been sealed 13-15.3.3
- Are sprinklers in their proper orientation per 13-9.5.4.2

Riser

- Backflow device, size, type & flow direction 13-16.9.3.3.5
- Main drain piped outside or to drain of proper size 13-16.10.4.4
- Are all freeze protection methods operational SFMO 34.718

FDC

- Connection 18" to 48" above finished grade 13-16.12.5.1.2
- 5" Stortz w/30° downturn and locking cap 13-16.12.3.1.1
- FDC with the proper drip valve for drainage 13-16.12.7
- Verify 5' pathway, visible & facing the fire lane 24-5.9.5.1
- Sign with 1" letters indicating what it serves 13-16.12.5.8
- If FDC serves multi-addresses, addresses must be listed 24-5.9a

Comments: _____

Dry System Functional Test

- Y N N/A Full flow trip test, w/out Quick Opening Device (QOD) 13-8.2.3.3
- Full flow trip test, w/QOD (750 gallon capacity) 13-8.2.3.4
- Record water delivery times per 13-8.2.3
- Delivery: ≥ 60 sec. or > 500 gal. or > 750 gal. w/QOD) 13-8.2.3.2

Inspection Results: Passed Failed

Air Compressor Visual & Functional Test

- Y N N/A Verify the compressor is listed for proper use per 13-8.2.6.3
- Verify the connection supply pipe not less than 1/2" per 13-8.2.6.4.1
- Verify the compressor fills the system per Section 13-8.2.6.3.2
- Confirm high/low pressure supervisory signal @ the FACP 903.4

Inspection Results: Passed Failed

Visual

- Y N N/A Sprinkler placement clearance from obstructions 13-9.5.5.2
- Verify sprinkler heads are free from foreign matter 13-16.2.3.1
- Escutcheon plates are installed per mfg. instructions 13-16.2.5
- Water pressure gauges are installed properly 13-16.13
- Inspector's test connection clearly indicated & accessible 13-16.9.12
- Auxiliary/low point drains clearly indicated & accessible 13-16.10.5.3
- Sign @ each control valve w/portion of building served 13-16.9.12.3

Riser Room

- Hydraulic nameplate installed at riser per section 13-28.5.1
- Spare head box, sprinkler heads, wrench & label per 13-16.2.7
- Proper space around riser(s) for service per mfg. (3" min.) 901.4.6
- Multiple risers correspond w/ fire alarm addressing 904.3
- All riser trim and valves labeled per 13-28.6.1.1
- Riser room door labeled & Knox box installed 509.1
- Riser room hard wired for heat & emergency lighting 13-8.2.5.2.1
- A Locking documents cabinet installed per Crowley Amendments
- NFPA 25, Contractor Certificate & As-Built Drawings in cabinet

Testing

- Main drain test performed, recorded/permanently affixed 13-28.2.3.4.2
- Flow from ITV initiated signals within the designed times 13-28.2.3.1
- Initiation of alarm activated proper notification devices 13-28.2.3.1.1
- Signals to F/A panel w/correct address & description 903.4
- Signals @ the FACP correspond w/monitoring station signals received?
- Verify DCVA forward flow and certification test report provided?
- Signed Aboveground Contractor Material & Test Certificate SF-041
- Statement of Compliance letter on file with the Crowley
- FMO As-Built drawings on file with the Crowley FMO

Inspection Results: Passed Failed

Inspector's Name: _____

Contractor's Name & License # _____