

# FIRE SPRINKLER PLAN REVIEW CHECKLIST

## **General Review**

Drawings signed and sealed

- Underground Main Inspected

## **Building – Fire Suppression Plan Review**

A. Is the applicable code (NFPA 13, 13R, 13D, 14, 20) and edition correct and shown on drawing?

- Yes  No

B. Have details of hanger, valves, sprinkler arrangement been provided?

- Yes  No

## **System Type**

- Wet  Dry  Deluge  Pre-Action

A. Where the pipe cannot be maintained above 40 deg. F., have adequate freeze protection per (NFPA 13)?

- Yes  No

B. Does the zone contain the correct number of heads (NFPA 13)?

- Yes  No

C. Does the supply curve exceed the system demand?

- Yes  No

## **Sprinklers**

- A. Are quick response (QR) sprinklers used on light hazard occupancy (NFPA 13)?  
 Yes  No
- B. Is the area of coverage per sprinkler less than the maximum permitted (NFPA 13)?  
 Yes  No
- C. Are the sprinklers less than 7", 6" from a wall unless by small room exception allowing up to 9" (NFPA 13)?  
 Yes  No
- D. Do obstructions have additional heads for coverage?  
 Yes  No
- E. Do the soffits that obstruct discharge have adequate coverage?  
 Yes  No
- F. Have provisions been made to drain all parts of the system (NFPA 13)?  
 Yes  No
- G. If there are elevator shafts or shafts, are they sprinkler protected (NFPA 13)?  
 Yes  No

## **Standpipes / Mains**

- A. Does the standpipe have 2 ½" hose valves with 1 ½" reducers (NFPA 14)?  
 Yes  No
- B. Is the FDC located within 100' from the nearest hydrant (NFPA 14)?  
 Yes  No
- C. The FDC shall have a ball drip installed.  
 Yes  No
- D. If a standpipe is required, do the fire hose valves provide coverage within 100' of hose and 30' of spray (NFPA 14)?  
 Yes  No
- E. If a combination standpipe is used in a high rise, does each floor have separate control valve and flow switch (NFPA 13)?  
 Yes  No

F. Is the dedicated standpipe riser at least 4” and combination risers at least 6” in diameter (NFPA 14)?

Yes  No

### **Fire Pumps**

A. Do the drawings indicate installation in compliance with NFPA 20?

Yes  No

B. Does the fire pump room contain adequate drainage (NFPA 20)?

Yes  No

C. Does the fire pump room have adequate emergency lighting (NFPA 20)?

Yes  No

D. Is the type of system appropriate for the specified application (NFPA 13)?

Yes  No

E. Are dry-type valve rooms heated and lighted (NFPA 13)?

Yes  No

F. Does the system have an electronically monitored alarm valve or water flow device (NFPA 13)?

Yes  No

### **Hazard Classification**

Light  Ordinary I  Ordinary II  Extra  Storage

A. Does the hazard classification correspond to the potential fuel load (NFPA 13)?

Yes  No

B. Is the design density consistent with NFPA 13 classification (NFPA 13)?

Yes  No

C. Are the sprinkler zones less than the maximum permitted (NFPA 13)?

Yes  No

## **Hydraulic Calculations**

A. Are hydraulic calculations included?

Yes  No

B. Is the date of low test within 1 year?

Yes  No

C. Is hydraulic nodal information shown on drawings?

Yes  No

D. Is the calculated zone the most hydraulically demanding?

Yes  No