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B&F CONSTRUCTION CODE SERVICES, INC.
BUILDING & FIRE PROTECTION PLAN REVIEW
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To Whom It May Concern:

The State of Illinois passed into law, as part of the Professional Engineering Practice Act of 1989, that a fire suppression technical submission is required for every building permit that requires a fire suppression system. The legislation (225 ILCS 325/1) (from Ch. 111, par. 5201) is as follows:

“A building permit for a building that requires a fire suppression system shall not be issued without the submission of a technical submission prepared and sealed by a licensed design professional. Fire protection system layout documents do not require an engineering seal if prepared by a technician who holds a valid NICET level 3 or 4 certification in fire protection technology, automatic sprinkler system layout. An authority having jurisdiction may not accept fire protection system layout documents in lieu of technical submissions. Fire protection system layout documents may be submitted as supporting documents to supplement technical submissions. However, in the event the fire protection system layout documents materially alter the technical submissions, the authority having jurisdiction shall return both the fire protection layout documents and technical submissions to the licensed design professional for review.”

Based on the legislation, and the Codes and Standards committee's recommended criteria (attached), structures that require a fire suppression system shall submit a fire suppression technical submission as part of the building plan review. The technical submission is to address the applicable codes, pertinent requirements to the fire service, sprinkler systems, fire pumps, standpipes, small hose connections, hazard classifications and their design criteria. Fire sprinkler shop drawings produced by the contractor are not suitable to serve as the technical submission.

Sincerely,

Sean Fallows
Fire Protection Inspector / Plan Reviewer

AUTOMATIC FIRE SPRINKLER SYSTEM TECHNICAL SUBMISSION

Project name _____
Project address _____
Owner _____
Occupant _____
Building Official _____
Fire Official _____

Year of Codes and Standards

NFPA 13 _____ ed. NFPA 13R _____ ed. NFPA 13D _____ ed. Building Code _____
NFPA 14 _____ ed. NFPA 20 _____ ed.
Local amendments applied _____ NFPA 72 _____ Other _____

Water flow test information

Date _____ Location _____ Witness _____
Static pressure _____ psi Residual pressure _____ psi Flow _____ GPM
Source _____ Seasonal or local adjustment _____
Water quality investigation (MIC or other) _____ Results _____
Building footprint _____ square feet Building height _____
Number of stories _____ Floor to floor height _____
Water supply _____ Same as domestic _____ Size _____

Type of pipe which can be used _____
Risers _____ Bulk main _____
Cross main _____ Branch lines _____
Type of fittings which can be used _____
Backflow device/s required _____

Fire department connection

Type _____ Location _____
Fire pump and controller
Size _____ gpm @ _____ psi Type of drive _____ Voltage _____
Location of service _____ Generator required _____
Water storage tank required _____ Type of tank _____
Location of tank _____ Size of tank _____

Standpipes required

Class _____ Type _____ Location/s _____
Required flows Top most outlet _____ Most remote _____ Total flow _____

Required valves 1 ½ _____ 2 ½ _____

1 ½ " hose required _____

Length of hose _____

Other _____

Page _____ of _____

Signature, seal, date

Area # 1 Type of system _____

Description of use of area or hazard _____

Hazard classification _____ Commodity _____

Design criteria _____ gpm over _____ square feet

Area per sprinkler _____ square feet Stand pipe flow _____

Other water flow

Hose _____ gpm Outside hydrants _____ Special _____ gpm

In rack or special sprinklers _____ gpm Total flow required _____

Fire pump required _____ Submit graph sheet _____ gpm at _____ psi

Project name _____

Project address _____

Area # 2 Type of system _____

Description of use of area or hazard _____

Hazard classification _____ Commodity _____

Design criteria _____ gpm over _____ square feet

Area per sprinkler _____ square feet Stand pipe flow _____

Other water flow

Hose _____ gpm Outside hydrants _____ Special _____ gpm

In rack or special sprinklers _____ gpm Total flow required _____

Fire pump required _____ Submit graph sheet _____ gpm at _____ psi

Area # 3 Type of system _____

Description of use of area or hazard _____

Hazard classification _____ Commodity _____

Design criteria _____ gpm over _____ square feet

Area per sprinkler _____ square feet Stand pipe flow _____

Other water flow

Hose _____ gpm Outside hydrants _____ Special _____ gpm

In rack or special sprinklers _____ gpm Total flow required _____

Fire pump required _____ Submit graph sheet _____ gpm at _____ psi

Storage areas	Type of system
Description of use of area or hazard	
Type of storage and maximum height	Pallet Bulk
Shelf	Bin box Rack
Minimum aisles width	Maximum rack depth
Commodity classification Encapsulated	
Rack type Single row Double row Multiple row Other	
Flue spaces Longitudinal required size Transverse required size	
Ceiling design criteria gpm over square feet	
Area per sprinkler square feet	Stand pipe flow
Other water flow	
Hose gpm	Outside hydrants Special gpm
In rack or special sprinklers gpm	Number of levels
Location Type	Temp. rating Orifice size
Fire pump required	Submit graph sheet gpm at psi
Required accommodations for building structure	

Storage areas	Type of system
Description of use of area or hazard	
Type of storage and maximum height	Pallet Bulk
Shelf	Bin box Rack
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Commodity classification Encapsulated	
Rack type Single row Double row Multiple row Other	
Flue spaces Longitudinal required size Transverse required size	
Ceiling design criteria gpm over square feet	
Area per sprinkler square feet	Stand pipe flow
Other water flow	
Hose gpm	Outside hydrants Special gpm
In rack or special sprinklers gpm	Number of levels
Location Type	Temp. rating Orifice size
Fire pump required	Submit graph sheet gpm at psi
Required accommodations for building structure	