

AUTOMATIC FIRE SPRINKLER SYSTEM

TECHNICAL SUBMISSION

Fire Suppression Engineer,

The following submission shall be required in the event that a new sprinkler system is being installed or a major renovation of the system will be required. This is per The State of Illinois (225 ILCS 325/3) (from Ch. 111, par. 5203). The renovation portion of the requirement shall consist of the addition of 20 or more new heads that will require sprinkler pipe changes. In addition, any changes to the hazard classification of an occupancy or changes to commodities stored within an occupancy shall require the preparation of a Technical Submission. In the situation of relocates or arm-overs this shall not be required. Any questions please contact the Fire Prevention Division Chief at (630) 434-5975.

225 ILCS 325/3 from Ch. 111, par. 5203:

(d) A building permit for a building that requires a fire suppression Submitted 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.

Project name _____

Project address _____

Owner _____

Occupant _____

Building Official _____

Fire Official _____

Year of Codes and Standards:

NFPA 13, 13D, 13R, 14, 20, 25, 72, and 2001: Most Current Edition

Building Code _____ Edition.

Local amendments applied _____ Other _____

AUTOMATIC FIRE SPRINKLER SYSTEM TECHNICAL SUBMISSION

Water flow test information (current to within one year of the date of the Submission):

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: 5" Storz Connection with a 30 degree elbow

Location (within 100' of a fire hydrant) _____

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 _____

AUTOMATIC FIRE SPRINKLER SYSTEM TECHNICAL SUBMISSION

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 _____

Signature, Seal, Date of NICET III/IV or PE

Design 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 Standpipe 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 _____

AUTOMATIC FIRE SPRINKLER SYSTEM TECHNICAL SUBMISSION

Design 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 Standpipe 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 _____

Design 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 Standpipe 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 _____

AUTOMATIC FIRE SPRINKLER SYSTEM TECHNICAL SUBMISSION

Storage Area #1: _____ 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 Standpipe 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:

AUTOMATIC FIRE SPRINKLER SYSTEM TECHNICAL SUBMISSION

Storage Area #2: _____ 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 Standpipe 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:
