Powhatan County Fire Department – Plans Review
Fire Flow Estimate Form

Virginia Statewide Fire Prevention Code Method of Calculating NFF (Needed Fire Flow)

Engineer/ R.D.P: _____ Date:_____

Project Name and Address: _____

Calc By: _____

Type of Construction – Based on Current Edition of the Virginia Construction Code: _____

Number of Stories: _____

Total Ground Floor Area–Including Projections (Canopies. Loading Docks, Etc) _____

Total Area of floors above grade _____

Total area of basement _____

Total Building Area in Square Feet _____

FIRE AREA CONSIDERED:

Note: In order to apply for a reduction in total area for a building, a fire resistive rated FIRE WALL without openings shall be provided. WITHOUT OPENINGS refers to no penetrations being permitted (i.e. – doors, duct penetrations, pipe penetrations). (B104.2)

Fire Resistive Rating of FIRE WALL _____

Square feet of most restrictive single area between FIRE WALLS or Either Side _____

Required Fire Flow from International Fire Code – Table B105.1 _____

Fire Flow Duration in Hours from International Fire Code – Table B105.1 _____

NEEDED FIRE FLOW : (Based on Total Square Foot or Fire area considered)

Required fire flow for Total area or Fire area considered _____

Automatic Sprinklers (YES ___ NO ___) Reduction Factor for sprinklers is (75%)

Fire flow for area considered X(1) (if non sprinklered) _____ = NFF (GPM)@ min 20psi residual.
OR
Fire flow for area considered X(.25) (if sprinklered) _____ = NFF (GPM) @min 20psi residual.

(NOTE: MINIMUM REQUIRED FIRE FLOW NOT LESS THAN 1500 GPM@ 20psi residual pressure)

FIRE HYDRANTS AND SPACING:

REQUIRED MINIMUM NUMBER OF FIRE HYDRANTS (IFC Table C105.1) _____

AVERAGE SPACING BETWEEN FIRE HYDRANTS (IFC Table C105.1) _____

I CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND CORRECT.

SIGNATURE: _____

(SIGNATURE REQUIRED)

Reference: Virginia Statewide Fire Prevention Code Appendix B and C.