HENRICO COUNTY DPU FIRE FLOW ESTIMATE FORM

ISO (Insurance Service Office) Method of Calculating NFF (Needed Fire Flow)

ENGINEER:	DATE:	
PROJECT NAME:	CALC. BY:	
TYPE OF CONSTRUCTION:		
Class of	Construction Coef. $= F$:	-
GROUND FLOOR AREA =	# of Stories	
Total Floor	Area = A_i (effective area):	
FIRE AREA CONSIDERED Constructio	on Factor $C_i = 18(F)(A_i)^{0.5}$ DED TO NEAREST 250 GPM)	$C_i = $
TYPE OF OCCUPANCY:		v
	(Worst Case) Occupancy Factor	$= O_i$:
EXPOSURE (X) AND COMMUNI	CATION (P):	
$X_I + P_I = $	$X_4 + P_4 = \underline{\hspace{1cm}}$	
$X_2 + P_2 = \underline{\hspace{1cm}}$	$X_5 + P_5 = \underline{\hspace{1cm}}$	
$X_3 + P_3 = $	$X_6 + P_6 = \underline{\hspace{1cm}}$	
(X+P	$(X_i)_i = 1.0 + \sum_{i=1}^n (X_i + P_i) =$	
(n = NUMBE)	x. $(X + P)_i = 1.75$] ER OF SIDES OF SUBJECT BUILDING)	
NEEDED FIRE FLOW NFF	$F = (C_i)(O_i)(X+P)_i$	NFF =
Automatic Sprinklers (YES NO)	Reduction Factor % x NFF =	-
	TOTAL:	***************************************
	Required Fire Flow - Rounded (if < 2500 nearest 250) (if > 2500 nearest 500)	gpm
	* Fire Hydrants Required:	***************************************
I CERTIFY THAT THE ABOVE INFORM	MATION IS TRUE AND CORRECT.	
SIGNATURE:	P.E.	
* COMMERCIAL AREA REQUIRES 350 FT. MAXIMUM H		
References: NFF CALCULATION PROCEDURE DI SCHEDULE AND I.S.O.'s 1980 FIRE	ESCRIBED IN A.W.W.A. M-31, I.S.O.'s 1980 <u>Cor</u> Supression Rating Schedule.	MMERCIAL FIRE RATING