



# ALLIED FIRE PROTECTION INC

CONSULTING - DESIGN - CONTRACTING



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# ABOUT US

Allied Fire protection, Inc. (AFP) was officially founded on November of 1998 with a \$60,000 contract for the Army Corps of Engineers. For the next 6 years AFP steadily grew to a volume of \$4.5 million in 2005 which we maintain today. AFP concentrates heavily on engineering and consulting aspect of the fire protection field while our permanent crews continually complete flawless installations in all of Washington DC metropolitan area from Delaware to Richmond. AFP has successfully designed and installed a variety of fire suppression and fire alarm systems such as wet, dry, preaction, deluge, low expansion foam, high expansion foam, AFFF, FM-200, Intergen, standpipes, fire pumps and rack storage systems. We rely on state of the art computers and software to keep up to date with this fast changing industry.

AFP's base of operation is in our own 16,000 square foot building with over 2000 square feet of offices dedicated for engineering alone. Our engineering services has been utilized for many projects for the department of state or the military overseas such as Rome, Brussels, Luxembourg, New Delhi, Mumbai, Islamabad (Pakistan), Qatar, Kathmandu (Nepal), Tashkent (Uzbekistan), Kingston (Jamaica), Panama city, Mexico city, Brasilia, Lima (Peru), Manama (Bahrain), Dili (East Timor), Bermuda, St. Croix, Caracas (Venezuela) and US embassy compound in Brunei.



# OUR EXPERTISE

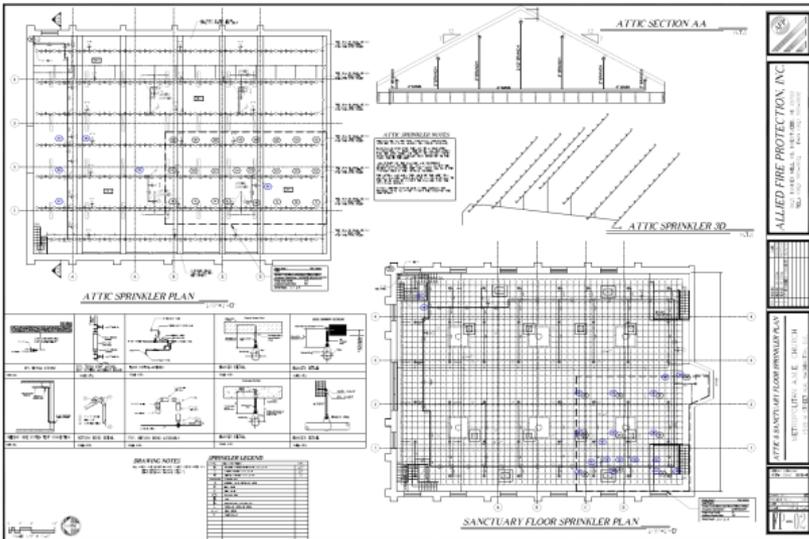
- Fire Protection Engineering , Design & Consulting
- Fire Alarm/Life Safety Engineering
- Fire Hazard and Risk Analysis
- Fire & Smoke/Egress Modeling
- Code Consulting
- Maintenance
- Installation
- Inspection
- Repair



# ENGINEERING SOFTWARES

## SprinkCAD - AlarmCAD - "THE"

Design – Calculate – Co-ordinate - Stocklist



# PROJECT HIGHLIGHTS



**Horse Stable Fort**  
Myer Arlington Virginia  
Arlington, Virginia 22211



**George Mason University**  
3501 North Fairfax Drive  
Arlington, Virginia



**Building 160 at the Yards**  
7 Story retail / residential  
Washington Navy Yard  
Washington D.C.



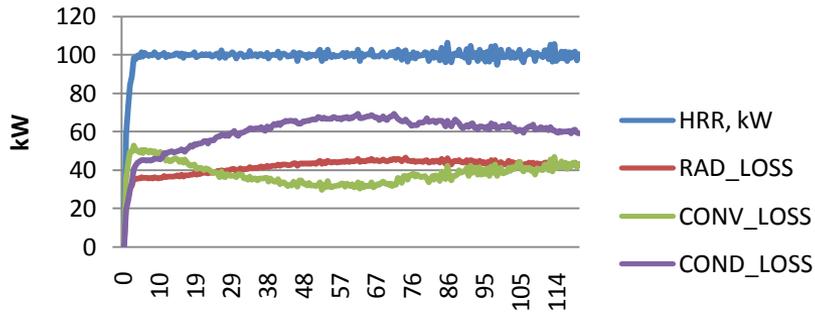
**Crown Plaza, Kingston,  
Jamaica**  
12 story high rise with offices  
and banquet halls



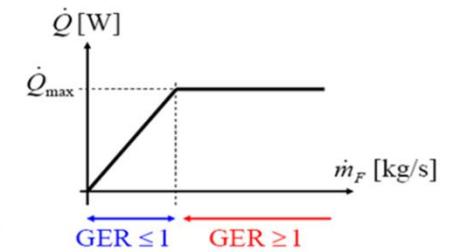
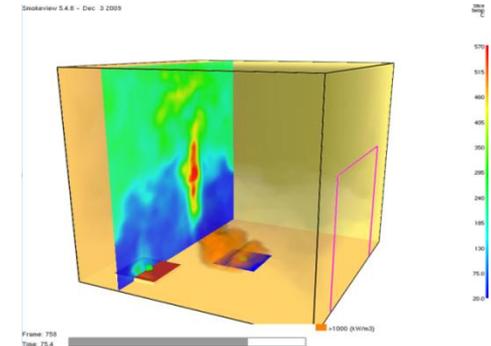
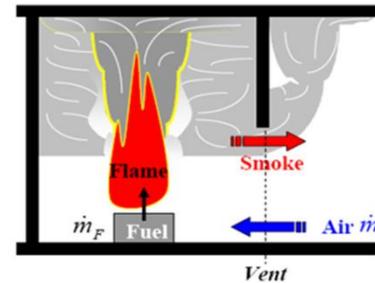
# RESEARCH & DEVELOPMENT

- Fire Hazard Analysis
- Computer-Base Fire Modeling
- Computer-Base Evacuation Modeling/Smoke Management

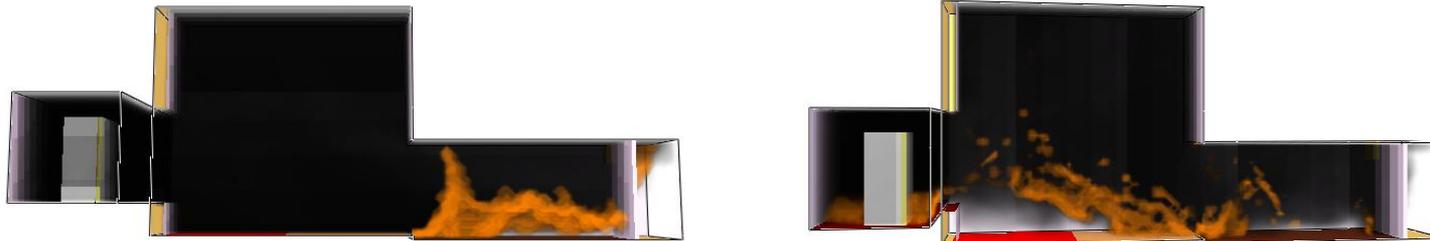
$\Delta X=0.05$



Time evolution of all heat release components for the fine grid (0.05m)



$$\dot{Q}_{max} = (Y_{O_2,m} \Delta H_{O_2}) \times 0.5 \times W_o H_o \sqrt{H_o}$$



Compartment fire and smoke modeling / simulation