

Fire and Explosion Investigation

Services:

Accident
Reconstruction

Fire & Explosion
Investigation

Component
Failure
Analysis

Structural
Assessment

Microclimate
Engineering

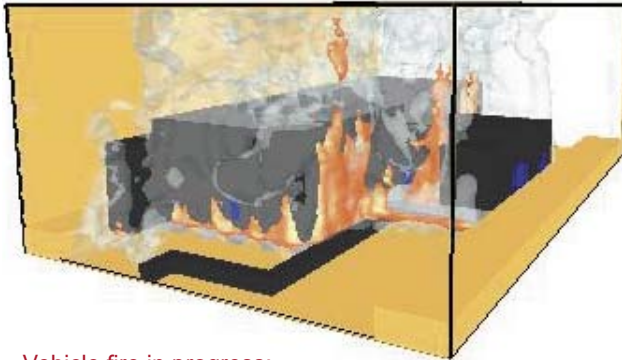
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(613) 837-1235

dfa-Ottawa West
(613) 836-0177

Hovey Services
(613) 830-4917

www.dfagroup.ca

CFD fire model output:



Vehicle fire in progress:



The DFA Group investigates building, automobile, marine and machinery fires to determine:

- **Origin and Cause**
- **Fire development & behaviour**
- **Detection & suppression activation**
- **Fire code compliance**
- **Protection & prevention**
- **Product liability**
- **Damage severity & scope of repairs**

State-of-the-art laboratory techniques and ASTM standard test methods are used in fire debris analysis for flammable liquids.

Simplified zone models, and more sophisticated field models using advanced computational fluid dynamics (CFD) are used to model fire phenomenon.

DFA engineers have performed more than 1000 fire-related investigations over the past 20 years. Our professional affiliations include the Professional Engineers of Ontario, Society of Fire Protection Engineers, Canadian Association of Fire Investigators, and International Associations of Arson Investigators. Our professional engineers have been admitted as expert witnesses, and offered opinion evidence at all levels of court in Ontario, and in Quebec, British Columbia and Nova Scotia.