

Fire and Explosion Investigation

S-E-A has investigated thousands of fire and explosion cases, inspiring **new standards** for safety procedures.

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PRIMARY SCENE ANALYSIS

S-E-A's fire investigation begins with a visual overview, point of origin determination, mapping, interviewing and photographic survey of the scene.

CAUSAL ANALYSIS

S-E-A team members begin systematic investigations in their respective specialized areas:



FIRE INVESTIGATORS

Identify the exact point of origin of the fire or explosion, and causal possibilities.



ELECTRICAL ENGINEERS

Investigate possible electrical malfunctions and lightning strikes.



MECHANICAL ENGINEERS

Determine causal effects of oil, gas and propane fueled appliances and systems, including leak detection, and analysis of transmission lines and sprinkler system operation.



CIVIL ENGINEERS

Explore other potential causes (wood-burning fireplaces, stoves and chimneys).



FIRE PROTECTION ENGINEERS

Analyze sprinkler systems, fire alarm systems, suppression systems, codes and other relevant protection issues as they relate to fire.



LABORATORY CHEMISTS & TECHNICIANS

Conduct chemical analysis of samples for possible accelerants, explosives and ignition agents; test materials for flame spread and toxic fumes. To ensure sample quality and consistency, and to minimize chances of spoliation, S-E-A maintains an in-house chemical laboratory.

CAUSAL VALIDATION

Causation and conclusions may be corroborated with extensive data collection, analysis, testing, technical searches, simulations and/or in-depth reporting.

