

# Litigation Support

RJA employs a global team of engineers, scientists, and technicians with unmatched and unbiased experience in fire protection engineering gained from high-performance participation in more than 50,000 projects in over 60 countries around the world. Whether the issue involves cause, spread, mitigation, life safety system performance, design or installation issues, RJA can meet your needs promptly and professionally.

**Litigation Support/Expert Testimony** – Providing field investigations, securing evidence and conducting the necessary analysis to determine factors contributing to life loss, property damage and business interruption. Working with sophisticated computer-based models and facts obtained from field investigations, we reconstruct fire loss scenarios and identify critical factors affecting fire spread. Should it be necessary to reconstruct, test or evaluate an exemplar, RJA has access to some of the most sophisticated laboratory and test facilities in the business. Our veteran staff understands the importance of maintaining professional integrity and communications with the client in developing observations and conclusions in reports, depositions and courtroom testimony.

**Fire Protection Engineering and Code Consultation** – Conducting thorough evaluations of buildings for compliance with codes and to identify construction deficiencies that may contribute to the proximate cause of loss from fire. Our code consulting background also enables our staff to evaluate requirements for code-required upgrades to a facility during rebuilding after a loss.

**Construction Claims Dispute** – Assisting in code-related construction claims disputes. RJA's staff can review building documents and the as-built conditions relative to compliance with local codes and standards. From our evaluation we can develop alternative solutions to compliance that can lessen the economic or design impact for resolving the dispute.

**Fire and Smoke Modeling** – Applying the latest computational fluid dynamics models to simulate and analyze fire growth and smoke development and movement within a building. Models are also used to evaluate people movement, stair widths, egress times and human factors. Coupled with calculations and models used to predict the time required for sprinkler and smoke detector operations, we can assemble a picture of how a building performed in an actual event, or how it would have performed under various circumstances.

**Forensic Analysis of System Performance** – Designing and testing of a broad range of fire safety systems (such as automatic sprinklers, wet and dry chemical extinguishing systems, fire and smoke detection, alarm systems, and occupant notification systems). With over 40 years of service on the technical committees responsible for life safety codes and standards, our forensic evaluations provide a clear picture of system and component performance, and their possible contribution to the loss scenario.

