

## PROJECT FAIL-SAFE EXAMINES SAFETY LAYERING EFFECTS

In an effort to examine whether or not the adoption of sprinkler and other trade-offs is impacting the overall safety of buildings, the NASFM Fire Research and Education Foundation initiated Project FAIL-SAFE (Factually Analyzing Integrated Layers of Safety Against Fire's Effects).

Major findings from this study included: many provisions in current prescribed codes are empirical; many sprinkler trade-offs are scientifically baseless; sprinkler trade-offs for fire resistance rating are only partly supported by research using probabilistic risk-analysis methods; as well as many others. These findings provide traction in the need for scientific basis for code decisions. To further review literature associated with this program, please visit the documents in the [Project FAIL-SAFE](#) section of our website.



The FAIL-SAFE research has initiated conversation about the impact of fire-sprinkler trade-offs on occupant and building safety. The Air Movement and Control Association (ACMA) has produced a white paper which examines an under-reliance on scientific justification for code decisions. You can read the white paper [here](#).