



# RESEARCH FOUNDATION

## RESEARCH FOR THE NFPA MISSION

### PROJECT SUMMARY

## **Response Time of Quick Response Intermediate Temperature Sprinklers versus Standard Response Ordinary Temperature Sprinklers**

13 May 2016

**Background:** Handbook commentary in NFPA 13, Standard for the Installation of Sprinkler Systems, 2016 edition, Section 8.3.2 presently states “Since the response time of quick-response intermediate-temperature sprinklers is not that different from ordinary-temperature standard-response sprinklers, the standard now groups ordinary and intermediate-temperature sprinklers together and allows intermediate-temperature sprinklers throughout the building reducing the need for multiple types of sprinklers.” Can research substantiate this claim?

**Research Goal:** The goal of this project is to research the existing data and perform computer modeling to determine the differences in response time between quick-response intermediate-temperature and ordinary-temperature standard-response sprinklers.

**Project Tasks:** The project will include:

- A literature review of available data and information relating to the issue of response times of quick-response intermediate-temperature and ordinary-temperature standard-response sprinklers.
- Document the knowledge gaps and develop a modeling plan to investigate these gaps.
- Implement the modeling plan and analyze the results.

Compilation of the information in a report.

**Implementation:** This research program will be conducted under the auspices of the Research Foundation in accordance with Foundation Policies and will be guided by a Project Technical Panel who will provide input to the project, recommend contractor selection, review periodic reports of progress and research results, and review the final project report.

**Schedule:** The final report will be available in January 2017.