

Seminar Title: Seismic Protection of Fire Sprinkler Systems

Seminar Description: As a life safety system, fire sprinkler systems need to remain operational following an earthquake event. In order to do this, NFPA 13 has guidelines in place to seismically protect the piping system. The rules provide both flexibility and rigidity so that the system can move with the building structure it is protecting against fire. Learn when seismic protection is needed for a building. In addition, the components used to protect against earthquake motion and the necessary calculations will be reviewed.

This seminar will refer to ASCE 7-16 and NFPA 13 (2016). It is recommended that participants bring an NFPA 13 2016 to class.

Total Instructional Time: 8 Contact Hours

Learning Outcomes: At the conclusion of this seminar, the participant will be able to:

1. Apply the principles of seismic protection on piping systems
2. Identify the points in a fire sprinkler system that need flexibility
3. Explain where sway braces are needed on a sprinkler systems
4. Calculate the applicable loads to sway braces
5. Evaluate common configurations in order to locate seismic protection components

Seminar Format(s): Lecture, Video, Exercises

Participant Materials: Participant Guide

Assessment Method(s): Application through the exercises and class participation