



Rev. 1-5-17

## Knox County Fire Prevention Bureau Protection from Isolated Hazard-Life Safety Code

### Protection from Hazard Areas per the Life Safety Code NFPA 101

The occupancy chapters of the Life Safety Code require certain hazardous areas or processes to have additional protection. This protection can consist of fire resistive construction or sprinkler protection or both. These requirements can apply to both new construction and to existing facilities. If sprinklers are required the sprinklers can be connected to the domestic water supply, and must meet the requirements outlined in the adjacent section.

This handout is intended as a guide. It is by no means all-inclusive or has all code related sections listed. If you have questions regarding this information please contact the Knox Co. Fire Prevention Bureau at 215-4660

### To comply with the requirements of the “protection from hazards” sections of the Life Safety Code when using section 8.7.1 of NFPA 101, the following criteria must be met:

1. A licensed fire sprinkler contractor must complete all work. License must be issued by the State of Tennessee.
2. The hazard to be protected must be fully enclosed with noncombustible or limited-combustible construction. (The construction must meet the construction of the building as allowed in the International Building Code.)
3. An indicating shutoff valve must be installed in an accessible, visible, location between the sprinklers and the connection to the domestic water supply.
4. If there is a building fire alarm system, a water flow switch and a tamper switch must be installed and connected to the building fire alarm system. If a tamper switch is not provided, the valve must be secured in the open position
5. The system does not have to be “flow tested” after installation is complete.
6. A permit must be obtained from Knox County Code Administration (215-2325) for this sprinkler modification. Plans and calculations must be submitted with the permit application. Three copies are required for review.
7. A maximum of six (6) sprinkler heads may be installed on any one domestic water line per building. The water supply shall have a capacity sufficient to provide 0.15 gpm/sq. ft. of floor area throughout the entire enclosed area.

After the installation is completed, a letter of completion from the installing fire sprinkler contractor shall be sent to this office. The letter shall state that all work has been completed in accordance with the applicable codes and standards as adopted by the Knox County Commission.