

MODERN FIRES REQUIRE FASTER NOTIFICATION

Modern Challenges

1. National Institute of Science & Technology (NIST) studies completed in 2013 show much faster fire spread in the average modern home from plastics in furnishings and building materials, with more toxic gases produced and greatly decreased survivability times
2. Fire injuries and deaths continue to befall those sleeping in non-traditional bedrooms
3. Larger homes require longer evacuation distances and times for occupants, including children
4. Highland Park DPS responds quickly with a limited number of highly trained personnel to begin initial efforts, but depends on mutual aid from other municipalities with longer response times

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Modern Furnishings: A Visual

- Polyurethane significantly reduces the time it takes for a room to burst into flames



Intelligent Solutions:

Homes must better protect occupants prior to FD arrival.

1. Alarms must guard all sleeping rooms, allowing faster activation, giving all occupants time to pursue practiced escape routes
2. Detectors must tell the monitoring company and fire department what structure, floor, and room in which smoke is detected
3. Highland Park DPS uses house alarm plans and reported detector location to tactically plan and execute faster rescue and more efficient fire attack

Legacy Furnishing Fire
(leather furniture)

1 minute, 50 seconds



4 minutes, 25 seconds



Modern Furnishing Fire
(synthetic furniture)

1 minute, 50 seconds



4 minutes

