



# In-Station Training

## TM 24-46 Residential Fire-Unusual Hazards



### Author

Chief Ed Hartin

### Purpose

Incident commanders (ICs) use critical fireground factors in making strategic and tactical decisions. Fixed factors include building construction, occupancy, and arrangement. ICs may make assumptions regarding fire load based on occupancy. For example houses often have typical residential contents, but sometimes they don't.

### Learning Outcomes

Firefighters and officers perform an effective size-up, select an appropriate strategy, and implement tactics based on the strategic decision-making model.

### Conducting the Drill

This incident involved a residential fire at 7 Bruce Drive in Shelton, Connecticut on June 22, 2024, at 18:45 (Firegroundimages, 2024 & Valley Independent Sentinel Staff, 2024). Review the map and photos (Figures 1-6) to gain an understanding of the area and building involved.

Figure 1. Map of the Incident Area



Note: Adapted from Google. (2024a). [Map, 7 Bruce Drive, Shelton, CT]. <https://bit.ly/3AfGeLZ>.

Figure 2. Aerial View



Note: Adapted from Google. (2024b). [Aerial view 7 Bruce Drive, Shelton, CT]. <https://bit.ly/4f8NHel>.

The closest hydrant is at the corner of Bruce Drive and Richard Boulevard. Additional hydrants are in the area as illustrated in Figure 1.

Figure 3. Alpha/Delta Corner



Note: Adapted from Google. (2012a). [Street view 7 Bruce Drive, Shelton, CT]. <https://bit.ly/48jFa6G>.

Figure 4. Side Alpha



Note: Adapted from Google. (2012b). [Street view 7 Bruce Drive, Shelton, CT]. <https://bit.ly/3AjaxRY>.

Figure 5. Alpha/Bravo Corner



Note: Adapted from Google. (2022c). [Street view 7 Bruce Drive, Shelton, CT]. <https://bit.ly/3NzrbQv>.

Figure 6. Side Charlie



Note: Adapted from Google. (2024c). [3d aerial view 7 Bruce Drive, Shelton, CT]. <https://bit.ly/48j4I3D>.

The temperature is currently 76° F with wind from the southeast at 5 mph (Weather Underground, 2024) and a thunderstorm is moving through the area (Hardaway, 2024). You have been dispatched at 18:45 to 7 Bruce Drive for a residential fire. You are the company officer or AIC of the first arriving engine and have your company's typical staffing.

1. What critical factors would you consider when dispatched and during response and what conversations would you have with your crew while responding?

You hear a command officer, three other engines, and an advanced life support ambulance with typical staffing for your agency go enroute. You will arrive from the south on Richard Boulevard. The second engine will arrive from the same direction four minutes after you. The command officer will arrive shortly after the second engine. All other units dispatched on the first alarm will arrive after the command officer.

While enroute, dispatch reports that multiple callers have reported a fire in the garage. Watch the [incident video](#) (Firegroundimages, 2024) from 00:34 to 00:49 and examine Figure 7, illustrating conditions on arrival.

Figure 7. Conditions on Arrival



Note: Adapted from Firegroundimages. (2024a). *Early arrival Bruce Dr. 2nd alarm fire (Shelton, CT) 6/22/24* [video]. <https://bit.ly/4fbe4AN>

2. State your initial radio report (IRR) exactly as you would transmit it to dispatch.
  
3. What specific actions would you take (as the company officer) immediately upon arrival and exiting the apparatus and what task orders would you give your crew?

Two adult occupants are across the street from the fire and report that everyone is out of the house. There is a small amount of smoke from the ridge vent at the peak of the roof, but no smoke is pushing from any other openings (e.g., from around windows and doors).

4. Would you change the action you are taking or modify the assignments given to your crew? If so, what task orders would you provide?

5. State your update report exactly as you would transmit it to dispatch.
  
6. Engine 2 arrives and reports that they are Level 1 at the hydrant on Bruce Drive at Richard Boulevard. State the tactical assignment you would give them exactly as you would transmit it.
  
7. Based on the anticipated effectiveness of your tactical operations, state your conditions, actions, and needs (CAN) report that you would provide to the first arriving command officer as part of command transfer to IC #2.

Reflect on your strategic decision-making and responses to questions 1 through 7 before answering the next six questions.

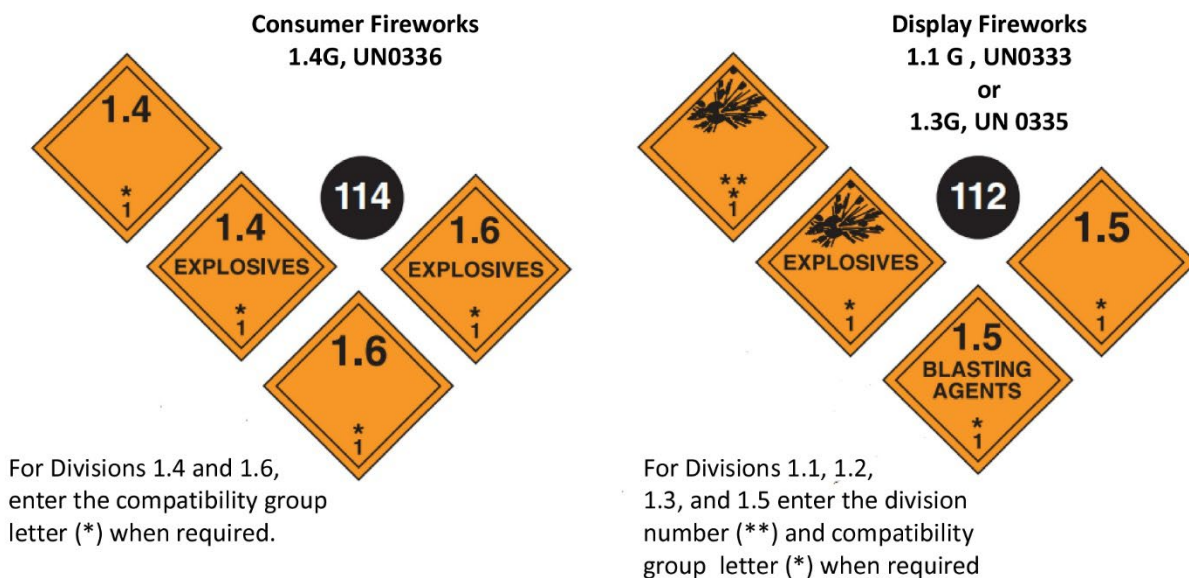
8. What was the problem?
  
9. What was getting in the way of achieving your tactical priorities?
  
10. Was there anything in this incident that could have hurt or killed you (right now)?
  
11. Was it reasonable to believe that the Main Fire Occupancy was occupied?
  
12. Was there searchable space?
  
13. If you believed it was reasonable that the building was occupied and there was searchable space, what could you do about it?

Watch the [incident video](#) (Firegroundimages, 2024) from 00:49 to 04:30 before answering the next several questions.

14. How did the apparent presence of fireworks impact your strategic, tactical, and task level decision-making?
15. Was the initial attack line effective in controlling the fire in the garage? What factors likely impacted its effectiveness or ineffectiveness?

**Additional Learning:** Review the American Pyrotechnics Association Safety Sheets for [consumer fireworks](#) (APA, n.d.a) and [display fireworks](#) (APA, n.d.b) and examine the Department of Transportation Emergency Response Guidebook (DOT ERG) to see if you can identify any additional information that would be useful in a fire involving pyrotechnics. Hint: You will not find UN ID Numbers 0336 (consumer fireworks), 0335, or 03333 (display fireworks) in the yellow pages. Nor will you find fireworks as a proper shipping name in the DOT ERG blue pages.

Figure 8. ERG Guide Pages for Fireworks



Note: Adapted from US Department of Transportation (US DOT). (2024). *Emergency response guidebook*. <https://bit.ly/4dlCnLo>.

Given the information provided in these references, would you change your strategy, tactics, and/or task level actions in this 10-Minute Training? If so, how?

Incidents involving explosives generally require consultation with law enforcement or military explosive ordinance disposal specialists to determine the appropriate course of action to render damaged or waste explosives safe and/or dispose of these materials properly.

In this incident CT State Bomb Squad, along with ATF, CT State Fire Marshal, Shelton Fire Marshal, and the Shelton Fire Department were granted a court order to conduct a controlled burn at 7 Bruce Drive due to the significant hazard presented by the large amount of fireworks remaining in the residence (Hardaway, 2024; Gioiele, 2024; & Firegroundimages, 2024b). Watch the [controlled burn video](#) (Firegroundimages, 2024b)

## References

- American Pyrotechnics Association. (n.d.a). *Emergency response information UN0336, [consumer] fireworks, 1.4G*. Retrieved October 23, 2024, from <https://bit.ly/4fhj1rS>.
- American Pyrotechnics Association. (n.d.b). *Emergency response information display fireworks, 1.1G, UN0333 or display fireworks, 1.3G, UN0335*. Retrieved October 23, 2024, from <https://bit.ly/3C0dh7C>.
- Firegroundimages. (2024a). *Early arrival Bruce Dr. 2nd alarm fire (Shelton, CT) 6/22/24* [video]. Retrieved October 22, 2024, from <https://bit.ly/4fbe4AN>.
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- Gioiele, B. (2024). After fireworks-filled Shelton house is burned down, a return to normalcy as smell of smoke lingers. Retrieved October 23, 2024, from <https://bit.ly/3A0a3QV>.
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Hardaway, L. (2024). *Warrant: Shelton man was training to be licensed pyrotechnician when fireworks set home ablaze*. Retrieved October 23, 2024, from <https://bit.ly/48kL07D>.

US Department of Transportation (US DOT). (2024). *Emergency response guidebook*. Retrieved October 23, 2024, from <https://bit.ly/4dICnLo>.

Valley Independent Sentinel Staff. (2024). *Three people displaced, no injuries in Shelton house fire*. Retrieved October 22, 2024, from <https://bit.ly/4felfs4>.

Weather Underground (2024). *East Haven, CT weather history* [historical weather June 22, 2024]. Retrieved October 23, 2024, from <https://bit.ly/3Un4sLn>.