



# In-Station Training

## TM 24-42 Residential Fire



### Author

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### Purpose

Fires in rural single-family houses present the same challenges inside the hazard zone as those that occur in a suburban or urban context. However, water supply often presents a different set of issues in the rural environment.

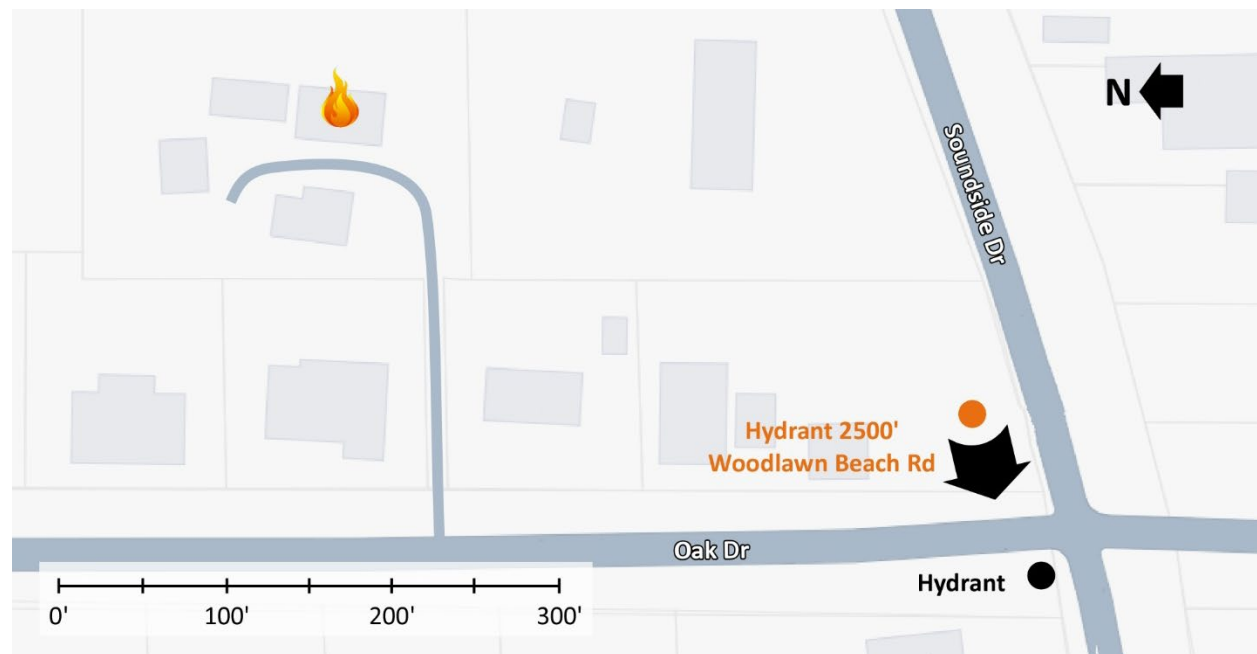
### Learning Outcomes

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 1458 Oak Drive, Gulf Breeze, Florida on November 4, 2023, at 13:59 (Clark, 2023). Review the map and photos (Figures 1-3) to gain an understanding of the area and building involved.

Figure 1. Map of the Incident Area



Note: Adapted from Google. (2024a). [Map, 1458 Oak Drive, Gulf Breeze, FL]. <https://bit.ly/3YeAL0Z>.

There is a hydrant at the intersection of Oak Drive and Soundside Drive (250 gpm@20 psi) with a single 2 ½” outlet and a second hydrant (800 gpm@20 psi) with 4 ½” and 2 ½” outlets located to the west on Woodlawn Beach Road at Soundside Drive as illustrated in Figure 1.

Figure 2. Aerial View



Note: Adapted from Google. (2024b). [Aerial view 1458 Oak Drive, Gulf Breeze, FL]. <https://bit.ly/3BB5PZ>.

Figure 3. Driveway Access to 1458 Oak Drive



Note: Adapted from Google. (2022). [Street view 1458 Oak Drive, Gulf Breeze, FL]. <https://bit.ly/4esZAMA>.

There are no pre-incident photos of the Main Fire Occupancy and Exposure Bravo 1.

The temperature is currently 78° F with wind from the west northwest at 6 mph (Weather Underground, 2023). You have been dispatched at 13:59 to 1458 Oak 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, two water tenders, and an advanced life support ambulance with typical staffing for your agency go enroute. You will arrive from the south on Oak Drive. 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.

Watch the first 30 seconds of the [incident video](#) (Clark, 2023) and examine Figure 4 illustrating conditions on arrival.

Figure 4. Conditions on Arrival



Note: Adapted from Clark, S. (2023). 11-04-2023, working structure fire on Oak Drive in the Midway Fire District Gulf Breeze, Florida. <https://bit.ly/3ZO6uHV>.

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?

Bystanders report that everyone is out. The fire has extended to the Bravo 1 Exposure which is also well involved. Side Delta of the Main Fire Occupancy is not yet involved and conditions on Side Charlie are like those on Side Alpha.

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 Soundside Drive and Oak Drive. 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](#) (Clark, 2023) from 00:30 to 02:30 before answering the next several questions.

14. It appears that the attack line stretched by the first arriving company was a 1 ¾" hoseline. At 00:35 in the incident video, a firefighter states, "were going to need a 2 ¼", at 00:52 "the same individual states "hey, we're going to need a bigger line", this statement regarding a bigger line is repeated at 01:38, and at 01:52 this firefighter states "you want to get the Ram (portable master stream) going". Do you agree or disagree? What initial attack options did you use (small attack line, large attack line, portable master stream, etc.)?
  
15. Was the initial attack line effective in achieving knockdown? Why or why not? How did flow rate and distribution impact the effectiveness of initial incident operations?

**Additional Learning:** Discuss the water supply alternatives that could be used in this incident. Consider 1) if you would use nurse tender or water tender shuttle operations, 2) where you would locate the dump site (for tender shuttle) or Siamese (for nurse tender operations), 3) which hydrant you would use as a tender fill point, the close, low flow hydrant, or the higher flow hydrant located further away. Discuss how you can minimize the total cycle time for tenders (total time includes offloading, travel to the fill point, fill, and travel back to the incident location).

*Important!* There is not a single right answer to the water supply questions. The best answer will depend on the capabilities and limitations of the available water tenders and fire engines.

## References

- Clark, S. (2023). *11-04-2023, working structure fire on Oak Drive in the Midway Fire District Gulf Breeze, Florida*. Retrieved October 5, 2024, from <https://bit.ly/3ZO6uHV>.
- Google. (2022). [Street view 1458 Oak Drive, Gulf Breeze, FL]. Retrieved October 5, 2024, from <https://bit.ly/4esZAMA>.
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- Google. (2024b). [Aerial view 1458 Oak Drive, Gulf Breeze, FL]. Retrieved October 5, 2024, from <https://bit.ly/3BBE5PZ>.
- Weather Underground (2024). *Pensacola, FL weather history* [historical weather November 4, 2023]. Retrieved October 5, 2024, from <https://bit.ly/4dApNYc>.