

STRUCTURE TRIAGE DECISION PROCESS (S-FACTS)

SURVIVAL

- Initial Assessment: can you survive here? If not, LEAVE NOW!
- Is there a Safety Zone nearby? If not, LEAVE NOW! (IRPG)
- Do you have a viable Escape Route?
- What is the decision point at which you will leave based on fire behavior and rate of spread?
- Is there a Temporary Refuge Area (TRA) on site? If not, LEAVE NOW!
 - Preplanned area for immediate, temporary refuge
 - -- Use of fire shelter should not be necessary
 - Is there a viable Escape Route to the TRA or Safety Zone?
- Is "Prep and Go" tactic an option?
- Do you have communications with your supervisor and adjoining forces?
- If safety issues cannot be mitigated, **LEAVE NOW!**

Fire environment

- Can you survive based on current and expected fire behavior? If not, LEAVE NOW!
- Look up, Look Down, Look Around Indicators:
 - Fuels (characteristics, moisture, temperature)
 - -- What will the intensity of the fire be when it arrives?
 - -- How long will it take to consume the fuels?
 - Wind
 - -- Current speed/direction
 - -- Expect changing winds
 - Terrain
 - -- Are you in a chute, chimney, or saddle? If yes, LEAVE NOW!
 - -- Is wind in alignment with topography?
 - -- What is your position relative to topography?
 - -- Are you mid slope or on top of a ridge?
 - Atmospheric Stability
 - Fire Behavior (requires constant monitoring)
 - -- Spotting, crowning, sheeting, rate of spread?
 - -- Flame length and height?
- Other weather considerations:
 - What is the current relative humidity?
 - -- Is there an expected change?
 - Are thunderstorms forecasted?

ACCESS

- Is access compatible with time and distance factors necessary to utilize as an Escape Route to a Safety Zone?
 - Road surface adequate for speed necessary?
 - Adequate width?
 - Turnaround/turnouts?
 - Bridges within limits for fire apparatus?
 - Drainage ditches/culverts?
 - Steep grades?
 - Is there a safe place to spot apparatus?

CONSTRUCTION/CLEARANCE

- Does the structure have adequate defensible space, based on topography, fuels, and current and expected fire behavior?
- Can defensible space problems be mitigated quickly?
- Will building materials and yard clutter compromise safety?
- Is the construction wood siding or shake shingle roof?
- Are there vent openings, open eaves, large glass windows facing fire front, decks with vegetation below?
 - Will ember intrusion through attic or foundation vents be a problem?
- What are the contents in the garage and outbuildings?
- Are there hazardous materials present?
- Are there propane tanks, fuel tanks, or power lines?
- Is there an adequate water supply nearby?
- Are additional resources needed to mitigate issues?
- Consider "Prep and Go" or "Prep and Defend" tactics

Time constraints

- Is there time for an adequate size up of the structure defense problem?
- Is there time to mitigate safety concerns?
- Is there time and adequate resources to properly prepare and defend the structure?
- Is there time to escape, utilizing Escape Routes, to a Safety Zone? If not, LEAVE NOW!

STAY OR GO

- Tactical decision based on the S-FACTS
- Is it safe to stay? If no, utilize "Check and Go" tactic
- Is there time to prepare the structure for defense and what will the fire behavior be when the fire gets here?
- "Prep and Go" or "Fire Front Following" tactics should be used when it is not safe to "Prep and Defend"

STRUCTURE TRIAGE CATEGORIES

Not-Threatened

- Safety Zone nearby and TRA present at structure
- Construction features/defensible space make the structure unlikely to ignite
- Residents may/may not have evacuated

Threatened Defensible

- Safety Zone nearby and TRA present at structure
- Construction features/defensible space require structure defense tactics during fire front impact
- Residents may/may not have evacuated

Threatened non-Defensible

- Lack of adequate Safety Zone nearby
- Structure cannot be safely defended
- Residents must be evacuated

ENTRAPMENT AVOIDANCE

- Are you adhering to the 10 Standard Firefighting Orders? (IRPG)
- Have you considered the 18 Situations that Shout Watch Out?
- Have you considered the Common Denominators of Fire Behavior on Tragedy Fires? (IRPG)
- Are you maintaining LCES? (IRPG)
- Look Up, Look Down, Look Around (IRPG)
- Have Decision Points ("Trigger Points") been established?
- Conduct Risk Management (IRPG)
 - Situational Awareness Hazard Assessment Hazard Control Decision Point Evaluate

STRUCTURE DEFENSE TACTICAL ACTIONS

- Check & Go Most appropriate action when no Safety Zone/TRA is present and fire
 front impact is imminent. Conduct rapid evaluation to check for occupants and
 evaluate for follow up action. LEAVE promptly.
- Prep & Go Structure preparation can be safely completed prior to fire front impact. Potential fire activity is too dangerous to remain and/or there is no Safety Zone/TRA present. LEAVE before escape routes are compromised.
- Prep & Defend Appropriate when a Safety Zone is nearby and TRA is present.
 Adequate time exists to prepare the structure for defense prior to fire front impact.
 Escape routes must be maintained.

- **Fire Front Following** Follow-up tactic after passage of the fire front. Involves searching for victims, perimeter control, hot spotting, and ember control.
- **Bump & Run** Resources move ahead of the fire front extinguishing spot fires and defending structures. Utilize extreme caution.
- Anchor & Hold Resources use large volume fire streams to extinguish structure fires, stop structure-to-structure ignitions, protect exposures, and control embers.
- **Tactical Patrol** Resources remain mobile and continuously monitor assigned area after fire front passage. Involves aggressive mop up around structures.
- Connect the Dots Resources use suppression tactics to start perimeter control by connecting "dots" (using hose-lays, hand lines or other barriers) to another "dot" to effectively stop forward momentum of the fire in a particular area.

Structure defense tactics are a vital part of perimeter control operations.

- Stopping fire spread significantly eliminates the fire's threat to structures.
- Connect contained points along the fire's perimeter typically near the structures at risk ("Connect the Dots").
- Perimeter control and structure defense should be done concurrently.

LEVELS OF ENGAGEMENT

Consider PACE

- Primary Plan (Offense)
 - Focused on firefighter safety and objectives
- Alternate Plan (Offense)
 - Fallback plan that closely resembles primary plan
- Contingency Plan (Defense)
 - Focused on firefighter safety, move to a safety zone, temporary refuge areas
- Emergency Plan (Defense)
 - Firefighter survival
 - Deployment zones/Refuge areas
 - Fire shelters

Consider DRAW-D

Defend – Reinforce – Advance – Withdraw – Delay

IMMEDIATE NEED EVACUATION CHECKLIST

- Co-locate with law enforcement at ICP
- Identify evacuation area utilizing local maps. Include area of incident potential when determining evacuation area.
- Identify traffic control points for entry and exit of resources and civilians
- Identify areas that must be immediately evacuated and label "evacuation order" areas
- Identify areas that are potentially threatened and label "evacuation warning" areas
- Identify community safe refuge areas inside evacuation areas
- Determine and publish evacuation routes
- Identify and clearly communicate the decision points for implementing additional evacuation areas
- Identify areas of special needs population and large animals
- Consider use of public notification systems for evacuations

STRUCTURE DEFENSE FUNDAMENTALS

- Back equipment in for tactical mobility
- Shield apparatus from radiant heat be aware of structure ignition potential
- Park in a cleared area (watch for power lines, trees)
- Have an engine/crew protection line identified
- Determine if residents are home. Determine best course of action evacuate if safe to do so or shelter in place at safe location
- Maintain communications with all crew members
- Maintain at least 100 gallons of water reserve in your tank
- Top off your tank at every opportunity (use garden hose)
- For roof access, place owner's ladder at a corner of the structure on the side with the least fire threat and away from power drop
- Keep fire out of heavier fuels (suppress in lighter fuels)
- Clear area around above-ground fuel tank, shutting off tank
- Close windows and doors, including garage, leaving doors unlocked
- Place combustible outside furniture inside the structure
- Charge and place garden hoses strategically around structure for immediate use
- Move wood piles away from structures
- Consider applying foam/gel to the structure (roof and siding) and/or fuels

• REMEMBER to follow up with TACTICAL PATROL!

Adopted From Original:

