

Oregon Office of State Fire Marshal

Task Force & Strike Team  
Leader Guidebook



Updated for 2023

Prevention ■ Preparedness ■ Response

## Table of Contents

Code of Conduct	1
Expectations for all Responders	1
Task Force/Strike Team Leader Expectations	3
Checklist 1 – Assembly	5
Checklist 2 - Arrival	6
Checklist 3 - Demobilization	7
OSFM Structure Protection Guide	8
Sprinklers	18
Flagging	19
Firefighter Risk Assessment Placards	20
Forms Overview	21
Form – Task Force/Strike Team Resource Form	22
Form – Resource Manifest	23
Form – Apparatus Form	24
Form – ICS-214/Unit Log	25
Form – Incident Demobilization Inspection	26
Form – Engine Company or Crew Performance Rating	27
Form – Task Force After Action Review	28
Standard Incident Communications Plan	30
Wildland Fire COVID-19 Screening Tool	31
Apparatus Cleaning	32

## **Code of Conduct**

It is the duty of personnel mobilized by the State of Oregon to maintain high standards of performance and conduct that will promote public trust and provide the best possible service to Oregon. Personnel are expected to demonstrate cooperation, efficiency, integrity, and accountability in the performance of their duties. It is expected that all mobilized resources will conduct themselves in a professional manner, meet the performance standards for their position, and comply with all local, state, and federal laws.

Your actions, behavior, and work ethic will be scrutinized by those with whom you work and interact and by the citizens being served. You represent the State of Oregon, your region, and your department as an individual and as a team member on the fire line, in camp, and in transit. Work hard, learn as much as you can, and come home safe.

### **Specific Expectations for All Responders**

Adhere to applicable safety standards. All mobilized individuals have a responsibility to each other to be alert to and communicate all safety hazards or near misses to the immediate supervisor or the Incident Management Team. All injuries incurred while mobilized must be documented and immediately reported to your supervisor.

Adhere to the chain of command. Become familiar with whom you are working, follow directions, and keep your supervisor informed. You are responsible for understanding your assignments and instructions; if in doubt, immediately ask for clarification.

Drive apparatus in a safe and courteous manner at all times. Use all appropriate safeguards, including backing guides. Be considerate of civilian traffic. If traffic is backing up behind your convoy, pull off at the first safe place and allow traffic to pass. All resources are expected to obey posted speed limits and warnings at all times.

Wear your PPE when assigned and appropriate attire when in camp.

Maintain a state of readiness at all times. When not assigned, resupply apparatus and restore equipment. You are expected to be available and ready to respond on notice, 24 hours a day.

Harassment of any kind against coworkers, supervisors, civilians, contractors, or others based on race, color, national origin, age, gender, disability, religion, marital status, or any other class protected by civil

rights laws will not be tolerated and will result in immediate demobilization.

When not assigned or in camp, conduct yourself in a manner that will not discredit yourself, your department, or the State of Oregon.

Misconduct, insubordination, dishonesty, inattention to duty or any conduct that you know or should know is improper will not be tolerated and may result in immediate demobilization from the incident.

Know and follow the procedures in the current Oregon Fire Service Mobilization Plan.

Access to a cache and requests for supplies shall be only through your chain of command. Return all procured equipment prior to demobilization. You may be responsible for items not returned.

Alcohol and illegal drugs shall not be transported or consumed. A person using prescription drugs may be asked to show reasonable proof that the medication is prescribed to them. Consuming over-the-counter or prescribed medication must not interfere with a person's performance or judgment.

Firearms are not allowed unless it is a requirement of your assigned position.

You are required to report to your immediate supervisor any medical condition that may arise that will interfere with your ability to safely perform your assigned tasks.

Personnel who fail to follow the code of conduct, receive poor performance evaluations, or who do not perform to the expectations of fire leadership may not be allowed on future mobilizations

## **Task Force/Strike Team Leader Expectations**

While you are working on this incident, you are asked to adhere to the following guidelines. Providing for public and firefighter safety is always our number ONE priority.

### **Attend the Operations Period Briefing (Be on Time)**

- Meet with your Division/Group Supervisor (DIVS) in the appropriate Division Breakout immediately after the briefing to receive and discuss specific details of your assignment.
- You are responsible for understanding your assignment and obtaining all necessary information, maps, and an Incident Action Plan (IAP) for each apparatus.
- While you are at briefings, your personnel are expected to be preparing to start work; obtaining meals, water, ice, radio cloning, fuel, etc. Your resources should be prepared to begin work immediately following the Division Breakout.
- Ensure each apparatus officer completes and submits an ICS 214 (Unit Log) for each operational period. You will submit Unit Logs for each apparatus and yourself to the DIVS after each operational period.

### **Before Leaving the Incident Base**

- Brief all personnel assigned to you.
- Ensure that your assigned resources have all necessary equipment and documentation to understand their assignments.
- Check with your DIVS on the status of anything ordered the day prior to determine delivery time and location.

### **Upon Arrival at your Assigned Division**

- Account for all resources assigned to you.
- Debrief with the out-going DIVS or Task Force Leader.
- Personal protective equipment is mandatory for everyone on the line.
- Identify LCES (Lookouts, Communications, Escape Routes, and Safety Zones) and insure that they adequate. ***You must do this soon after arrival and brief all your personnel!***

### **During the Operational Period**

- Account for all resources assigned to you at all times.
- Document any actions, accidents, or agreements in your Unit Log and notify your DIVS when appropriate.
- Make sure your activities are well coordinated with your adjoining Divisions. Share resources when and where appropriate.
- Meet with your DIVS before 1400 (day shift) or 0200 (night shift) to request any resources, supplies, or equipment needed for the next operational period.

- Update your DIVS on fire and weather conditions as appropriate.
- Develop contingency tactics, and always have alternate plans in place.
- Make notes that may be relevant to complete evaluations and an After Action Review prior to demobilization. Unsatisfactory performance will not be tolerated; it is to be identified and dealt with immediately. If you are unable to resolve the performance problem, it shall be brought to the attention of the DIVS. Outstanding performance needs to be documented and recognized. Be prepared to make recommendations on what type of recognitions might be appropriate to the DIVS.
- All accidents or injuries must be documented and reported immediately.

### **Before Leaving the Assigned Division**

- Account for all assigned resources.
- Debrief with the in-coming DIVS or Task Force Leader.

### **Upon Returning to the Incident Base**

- Ensure that all of your assigned resources have returned to camp and are accounted for.
- Debrief with your DIVS.
- You are to be available to return to work 24 hours a day.

### **Internal/External Political Concerns**

The needs of the local jurisdiction and community must be an important consideration in all interactions. Ask your DIVS how you can cooperate with the Incident Information Officers when you come in contact with community members or media.

## **Task Force/Strike Team Leader Mobilization Checklist #1**

### **FOR ASSEMBLING THE TASK FORCE/STRIKE TEAM**

Personnel and apparatus that do not meet the response standards of the Mobilization Plan may be rejected by the Incident Commander without state reimbursement for travel or any other response costs.

- Assemble Task Force/Strike Team (TF/ST) at Point of Departure.
- Brief all personnel on code of conduct and expectations.
- Confirm all personnel have adequate personal gear for a minimum of seven days and are self-sufficient for 72 hours with adequate food, drinking water, and sleeping bags.
- Ensure all personnel conduct self-screening using the [Wildland Fire COVID-19 Screening Tool](#).
- Confirm all personnel are fit for duty.
- Confirm all personnel are properly trained and equipped with appropriate structural, wildland, or other necessary PPE for the type of incident to which you are responding.
- Confirm all apparatus meet applicable standards, are properly and adequately equipped, in good repair, and capable of meeting travel and firefighting requirements.
- Confirm all apparatus have the ability to utilize State FireNet.
- Confirm all apparatus are fully fueled and personnel have travel funds.
- Complete and submit a TF/ST Resource Form to the AOC.
- You must receive explicit approval to mobilize from the AOC.**
- Ensure one Resource Manifest Form is completed for each apparatus, including command and support apparatus.
- Ensure one Task Force/Strike Team Apparatus Form has been completed for each apparatus.
- Brief all personnel on incident, travel route, communications en route, pre-determined fuel or rest stops, safety issues, and second-in-command.
- Advise AOC of departure time, travel route, and estimated time of arrival. (503-373-0001)
- Ensure that each apparatus uses the same departure time on their Resource Manifest.
- Prior to arrival at the incident, ensure all apparatus are fully fueled and ready to begin operations. This final fueling is not reimbursable.

**“How can we accomplish this task while minimizing human contact or contact where humans have recently been?”**

## Task Force/Strike Team Leader Mobilization Checklist #2

### FOR TASK FORCE/STRIKE TEAM **ARRIVAL** AT AN INCIDENT

Personnel and apparatus that do not meet the response standards of the Mobilization Plan may be rejected by the Incident Commander without state reimbursement for travel or any other response costs.

- Prior to arrival at the incident, ensure all apparatus are fully fueled and ready to begin operations. This final fueling is not reimbursable.
- Advise AOC of arrival time. (503-373-0001)
- Arrive at requested time and location. Collect Resource Manifests and Apparatus Forms. **TFL ONLY don mask and meet Resource Unit Leader (RESL) at designated location to complete check-in.**
- Initiate ICS-214s (Unit Logs) for each apparatus. Complete this form daily and provide to Division/Group Supervisor (DIVS). Document actions, accidents, agreements, and other relevant information.
- Determine availability and location of food, water, and fuel.
- Determine location of sleeping areas. Find a safe, comfortable, and quiet place for the TF/ST to sleep and establish camp.
- Visit Communications Unit and ensure all apparatus have radios with incident communications plan.
- Confirm your group has access to systems or paperwork to complete structural triage work (paper forms or electronic system).
- Determine what level of medical care is available, its location, and how to access it.
- Locate your DIVS and obtain your initial assignment and/or briefing. Confirm how to contact them.
- Find out where and when operational briefings occur and **be on time for briefings**. Attend all briefings; get updated maps, and Incident Action Plans (at least one per apparatus).
- When possible, debrief with the Task Force/Strike Team Leader(s) you are relieving.

**“How can we accomplish this task while minimizing human contact or contact where humans have recently been?”**

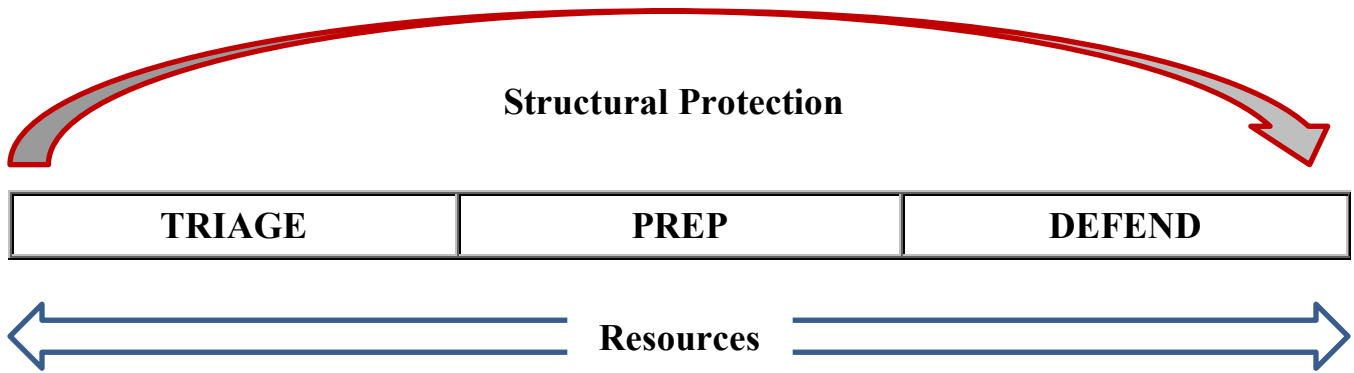


## Task Force/Strike Team Leader Mobilization Checklist #3

### FOR **DEMOBILIZING** THE TASK FORCE/STRIKE TEAM

- Ensure all damage claims have been reported to Division/Group Supervisor (DIVS) and documented appropriately.
- Each apparatus operator must complete Incident Demobilization Vehicle Safety Inspection Form. Any failed items must be reported to DIVS.
- Ensure all ICS-214s (Unit Logs) have been given to DIVS.
- Ensure the return of all borrowed equipment and resources to the appropriate party.
- Complete evaluations for all resources assigned to you.
- Receive evaluation from DIVS.
- Complete Task Force After Action Review.
- Ensure all personnel have sufficient rest prior to demobilization.
- Make sure all apparatus are fully fueled.
- Brief all personnel on travel route, communications en route, pre-determined fuel or rest stops, safety issues, and second-in-command.
- Check out with the Resource Unit Leader (RESL). Provide RESL with Demobilization Vehicle Safety Inspection Forms, evaluations, Task Force After Action Review Form, and any other documentation you have. **RESL must sign all Manifests and return hard cards.**
- Advise the AOC of departure time and ETA. (503-373-0001)
- Advise the AOC and your Fire Defense Board Chief of arrival. (503-373-0001)
- Each apparatus must record their in-station time on their Manifest.

**“How can we accomplish this task while minimizing human contact or contact where humans have recently been?”**



**PURPOSE**

This structural protection plan is designed to provide structural resources with common expectations, procedures, and terminology in order to execute efficient structural protection during wildland fire/urban interface incidents.

**PROCEDURE**

The components of effective structural protection are based on the integrated actions surrounding three critical actions: Structural Triage, Structural Preparation and Defensible Tactical Action. The successful implementation of these actions is based on the following critical factors: TIME, RESOURCES and FIRE CONDITION. These factors must be strongly considered in the decision making of when and how to execute the critical structure protection actions.

**I. Structural Triage**

Utilization of the OSFM Structural Protection Checklist should be utilized when triaging structures with the goal of placing each structure in one of the following categories. These categories will be utilized to determine the structural prep and defensible actions given consideration of available time, resources, and fire condition.

<p><b>Stand Alone (Low Risk)</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Safety zone present</li> <li><input type="checkbox"/> Requires little or no attention</li> <li><input type="checkbox"/> Will require patrol or homeowner presence after fire passage</li> </ul>	<p><b>Prep and Go (High Risk)</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> No safety zone present</li> <li><input type="checkbox"/> If time allows, rapid mitigation, apply foam or gel</li> <li><input type="checkbox"/> Set trigger point for safe retreat</li> <li><input type="checkbox"/> Go to nearest safety zone, return to area after fire passage</li> </ul>
<p><b>Prep and Hold (Moderate Risk)</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Safety zone present at or near structure for apparatus and firefighters</li> <li><input type="checkbox"/> Structure has a higher probability of ignition without firefighter intervention</li> </ul>	<p><b>Check and Go (Extreme Risk)</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> No safety zone present</li> <li><input type="checkbox"/> Inadequate time for mitigations</li> <li><input type="checkbox"/> If time allows, ensure lives are not threatened</li> <li><input type="checkbox"/> Set trigger point for safe retreat</li> <li><input type="checkbox"/> Go to nearest safety zone, return to area after fire passage</li> </ul>

## II. Structure Preparation

Structural preparation is executed based on the Structural Protection Checklist and is a factor of TIME, RESOURCES and FIRE CONDITION. If a fire front is imminent or highly likely the goal is to defend what can be saved and accomplish as much of the Structure Prep Priorities as feasibly possible. This section is intended to provide structural protection resources with a clear guideline of what structure prep objectives are expected based on the mode of operation. This is a critical component of the structure prep plan, if there are other actions not addressed in this plan it is recommended that those actions are discussed with the appropriate supervisors.

Prioritize Structural Prep Actions based on the greatest chance of savable probability. Complete prep actions on the structures using the following order.

1. **Low Risk- Stand Alone.** Reinforce and ensure prepped for standalone defense.
2. **Moderate Risk- Prep and Hold.** Time sensitive, these structures provide biggest gains.
3. **High Risk- Prep and Go.** Time sensitive.
4. **Extreme Risk- Check and Go**

### Structure Prep Priorities

The following outlines the order of priority in which preparation should be conducted. Two general levels of structure prep are identified: Surface Prep and Full Prep. The three critical factors of time, resources, and fire condition will determine which level and priority should be accomplished. This determination may occur in conjunction with the Division/Group Supervisor.

Depending upon these critical factors, attempt to accomplish as much as feasibly possible starting with Surface Prep priorities down through the Full Prep priorities. ***The ultimate goal with any of the following prep work is to minimize or eliminate the direct flame contact to the edge of a combustible building material.***

#### **SURFACE PREP**

*Should always be completed first. Allows crews to conduct initial prep work without physically altering structures or property providing crews opportunity to conduct work if fire front is not imminent and it is unclear if fire front will affect the area.*

##### **Priority #1 ROOF** (critical ignition component)

- Clean out gutters and ember traps at the vertical intersections and horizontal surfaces, remove receptive fuel beds, leaves, needles, debris and any other flammable materials on or attached to the roof.
- 

##### **Priority #2 INTERIOR**

- Close windows.
- Turn lights on, close interior doors and unlock and shut exterior doors.

##### **Priority #3 EXTERIOR**

- Relocate easy to move flammable/combustible items surrounding structure (lawn furniture, toys, propane cylinders, gas cans etc.) to an area of cover or outside preparation perimeter (garage, shed, barn etc.).
- Clear decks, walkways and other areas of light receptive fuels (leaves, needles ect.). Consider base of exterior walls, decks or other areas of adjoining combustible surfaces of the structure.

#### **FULL PREP**

*Complete Surface Prep priorities first and then determine which of the following Full Prep tasks need to be/can be completed.*

#### **Priority #4 EXTERIOR**

- Remove receptive fuels adjacent to the structure 5-10 feet (fine dead fuels, leaves, grass, bark dust, firewood, etc).
- Cover attic and basement vents. (metal window screen is preferable).
- Shut off gas, LP/NG.
- Remove attached fences 10 feet from structure for access and removal of combustibles.

#### **Priority #5 SECONDARY PRIORITIES**

- Remove vegetation within 30 feet of structure scatter flat.
- Limb trees 5 to 7 feet from ground.
- Remove debris and ember traps around structure.
- Remove lawn furniture and toys- place in home if possible.
- Remove and scatter wood pile or cover to avoid ignition by ember shower.
- Move cars if possible.
- Construct hand-line around structure, outbuildings, or immovable fuel sources/hazards.
- Consider burn out operations.
- Consider use of sprinkler kits. Only if adequate structural prep has been obtained.
- Consider use of structure wrap.
- Consider extreme prep tactics (additional limbing or falling of trees).
- Consider egress preparation. Limbing/brushing 5 to 10 feet on either side of road/driveway.
- Consider the need for Safety Zone preparation.
- Plug downspouts and fill gutters with water.

#### **FIRE IMMINENT**

*Consider when fire front is imminent and structure is categorized as defensible.*

- Determine defensible action.
- Stretch hose lines.
- Ladder roof, hose to roof.
- Initiate Structural Prep Checklist if not already complete- Complete as much as possible before initiating defensible stand.
- Consider burn out operations.

### III. Defensible Tactical Action

The following tactical actions allow firefighters combating an urban interface wildland fire to utilize common terminology and actions in order to safely and effectively defend structures.

#### Primary Tactical Action

Primary tactical actions are based on the triage category and level of structure prep accomplished prior to arrival of fire front. Primary tactical action may be supplemented or transition to another primary action or secondary tactical action as needed.

##### 1. STAND ALONE

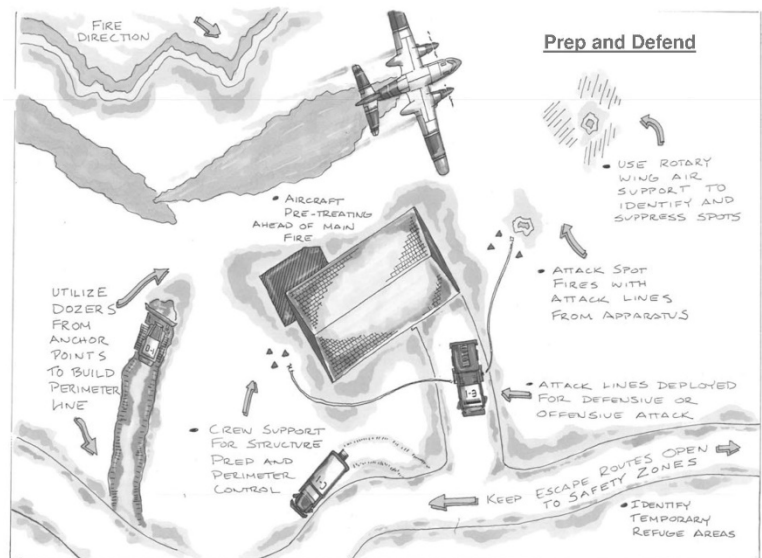
*Triage Category: Low Risk*

- **Purpose:** Adequate safety zones and escape routes allow for safe and effective preparation and defensible stand.
- **Indicators:** Structure requires little or no preparation or protection.
- **Actions:** Ensure adequate structural preparation measures are in place. If needed, make defensible stand as fire front approaches.
- **Considerations:** Situational awareness. Tactical patrol before and after fire front. Increased possibility of occupants holding in place.

##### 2. PREP & DEFEND

*Triage Category: Moderate Risk*

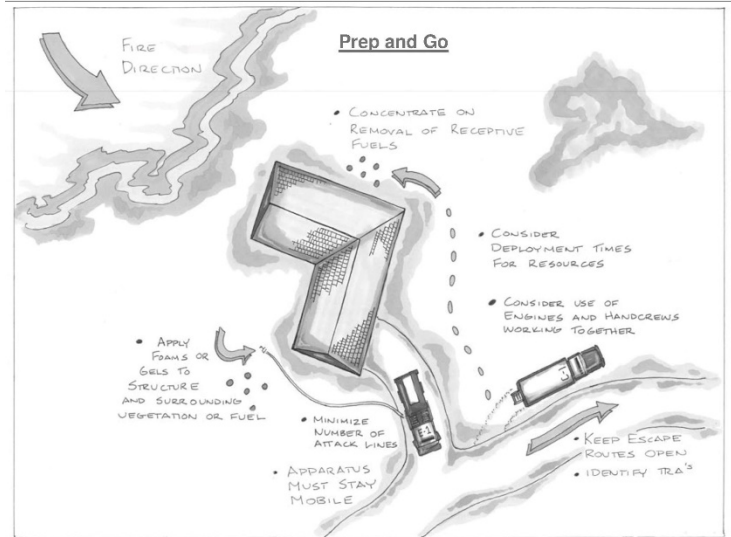
- **Purpose:** A tactic used when it is possible for fire resources to stay and defend structures as the fire front arrives.
- **Indicators:** Safety zones and escape routes are present and adequate time allows for safe preparation of structure for defense prior to fire front impact.
- **Actions:** Aggressive structure prep following Structure Prep Checklist. Adequate time, resources and conditions to make a defensible stand as fire front approaches.
- **Considerations:** Situational awareness, escape routes and safety zones must be identified and maintained. Utilization of PACE planning in case of adverse fire behavior changes. Fire behavior must allow for firefighters to safely remain in place and engage the fire.



### 3. PREP & GO

*Triage Category: High Risk*

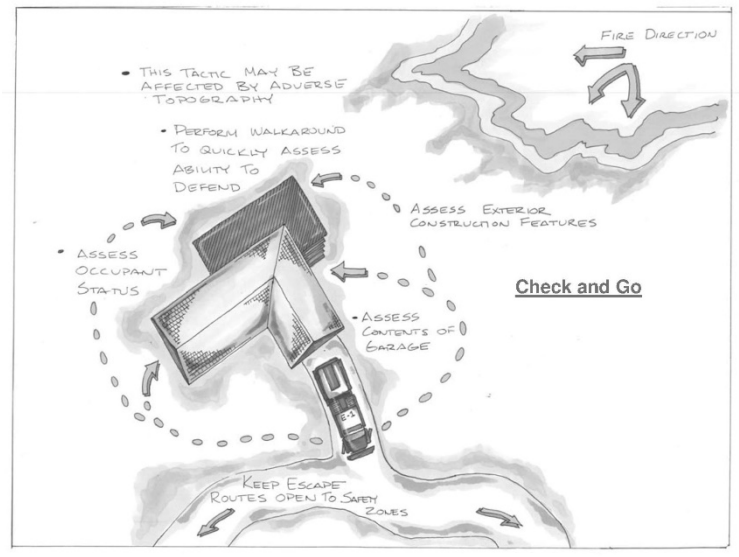
- **Purpose:** No safety zone present.
- **Indicators:** Time allows for rapid mitigation measures.
- **Actions:** Rapid triage, prep and retreat to Safety Zone
- **Considerations:** Set trigger point for safe retreat and return tactical action.



### 4. CHECK & GO

*Triage Category: Extreme Risk*

- **Purpose:** Inadequate defensible space prohibits safe defense actions.
- **Indicators:** Extreme fire behavior, compressed time constraints.
- **Actions:** Rapid evaluation to check for occupants who may require removal or rescue, then withdraw to a Safety Zone.
- **Considerations:** Retreat and return tactical action when able.

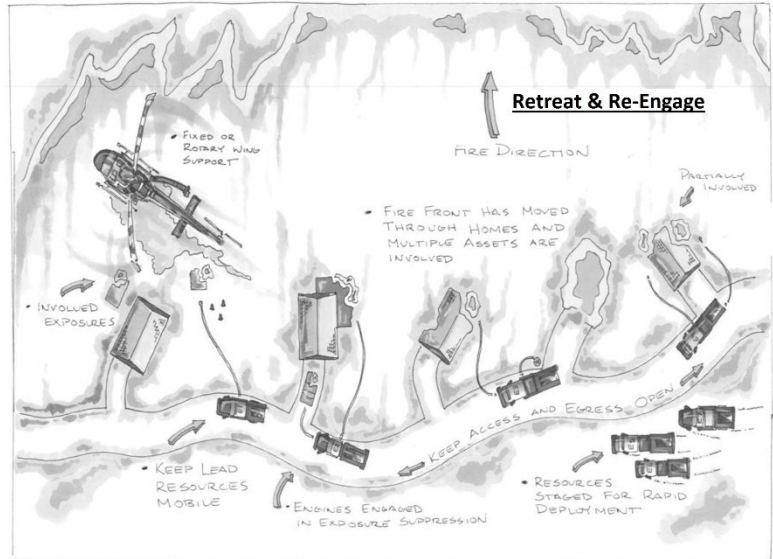


## Secondary Tactical Action

Secondary tactical action should be utilized to supplement and support the primary tactical action.

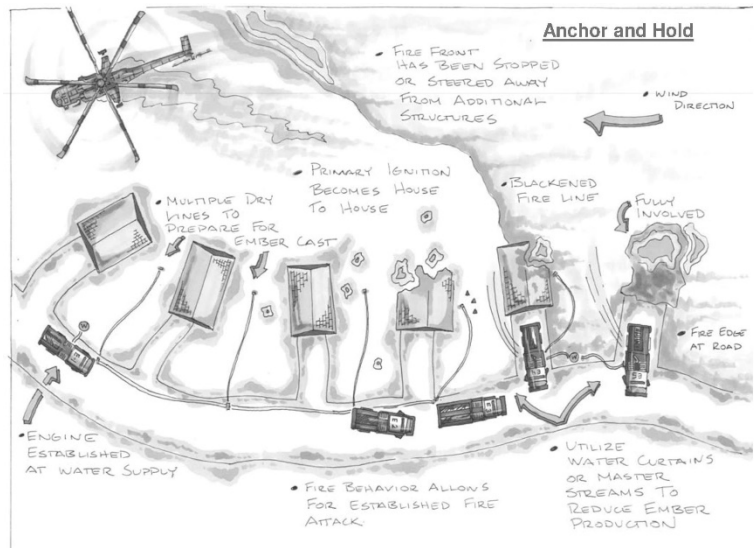
### 1. RETREAT & RE-ENGAGE

- **Purpose:** Follow up tactic used when Check and Go, Prep and Go or Bump and Run tactics are initially used.
- **Indicators:** When there is insufficient time to safely set up ahead of the fire or the intensity of the fire would likely cause injury to personnel located in front of the fire.
- **Actions:** After retreating to Safety Zone, return behind the fire front to search for victims, minimize property loss, effect perimeter control, extinguish hot spots around structures, control hot spots and reduce ember production.
- **Considerations:** Adequate escape route and safety zone.



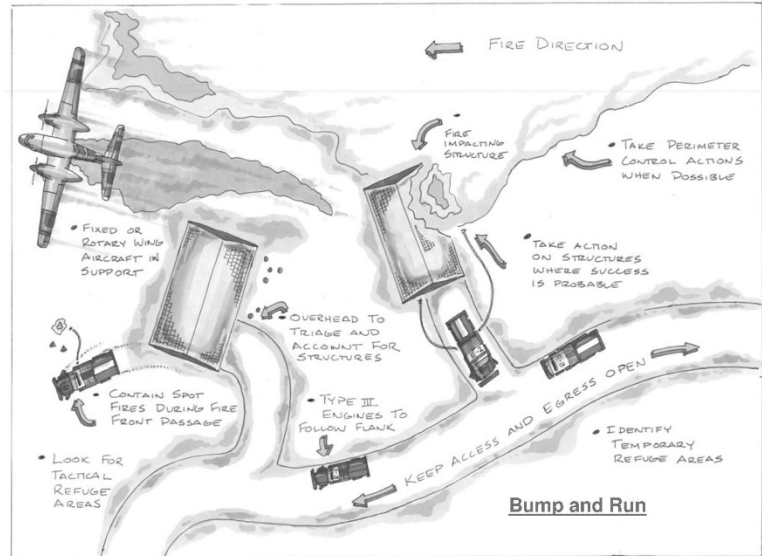
### 2. ANCHOR & HOLD

- **Purpose:** Defend exposures, stop structure to structure ignitions, reduce ember production and extinguish structure fires.
- **Indicators:** Primary mechanism of fire spread is STRUCTURE to STRUCTURE in common neighborhoods or commercial areas.
- **Actions:** Tactical utilization of control lines and large water streams from fixed water supplies.
- **Considerations:** Only utilized when water supplies are abundant. Utilization of gels and class "A" foams to assist in mop-up and prevent secondary ignitions.



### 3. BUMP & RUN

- **Purpose:** Often used when inadequate resources are available to conduct perimeter control or other structure defense tactics.
- **Indicators:** Defensive tactic when fire front impact is imminent. Offensive tactic when resources are attempting to steer the fire to an established end point where other resources have prepared control lines. Structure prep is minimal due to compressed time constraints.
- **Actions:** Resources move ahead of the fire front to extinguish spot fires, hot spots and defend structures. Resources remain mobile, able to maneuver quickly, leapfrogging from one structure to another.
- **Considerations:** Situational awareness and utilization of PACE Planning. May involve direct attack with fireline and firing operations. FFs must move if structures become involved and quick knockdown cannot be achieved. Utilization of additional resources behind “bump and run” for perimeter control and tactical patrol.



### 4. TACTICAL PATROL

- **Purpose:** Tactic used before or after fire front that relies on mobility of assigned resources to continually monitor assigned areas
- **Indicators:** Before or after fire front in which the fire may pose a risk to structures from fire brands or smoldering combustibles in void spaces, roofs, in rain gutters and stored material near buildings. Also, in areas away from the fire in which there is predicted to be significant ember showers and there is an accumulation of receptive fuels.
- **Actions:** Patrol area where the fire has passed but there is still a risk to structures from fire brands
- **Considerations:** Patrol areas downwind of potential ember showers. This tactic should also be considered to extinguish hot spots (mop up) or secondary structure ignitions, and address safety issues such as power lines, hazard trees and other hazards.



## SPRINKLERS

When ordering a sprinkler kit, also order a pump kit.

### Advantages

- Useful where resources cannot stay to defend the structure due to:
  1. Egress - narrow one lane roads; no easy turn around
  2. Erratic or extreme fire behavior
  3. Resource shortage- not enough engines to assign one engine to every structure
- Creates a micro climate around protected resource

### Disadvantages

- Cannot replace firefighters on the ground
- Takes time to install
- Lag time from order to arrival
- Equipment intensive

## SPRINKLER KIT CONTENTS

### TOOLS

- 1 EA Instructions
- 1 EA Carton, 16" x 14" x 12"
- 1 EA Packsack, Waterproof, w/ Straps
- 1 EA Bag, Cotton, Lunch or Tool, 10" x 24"
- 1 EA Saw, Pruning, 10"
- 1 EA Wrench, Adjustable, 10"
- 1 EA Wrench, Spanner, 11"
- 1 EA Hammer, Claw
- 1 LB Nails, Duplex, Double Head, 16d, 3"
- 12 EA Pin, Panel, Hold down, 8"
- 8 EA Stake w/Clamp, Sprinkler, Metal, 18" x 1" x 1"
- 2 EA Block, Wood 2" x 4" x 6"
- 2 EA Cord, Nylon, 1/8" x 100 ft
- 12 Tie Wraps, One Way, 15" - 17"

### WATER HANDLING

- 4 EA Pressure regulator, RV 40 -50
- 5 LG Hose, Garden, Synthetic, 3/4" NH x 50 ft
- 5 EA Gasket, Garden Hose, 3/4"
- 1 EA Nozzle, Garden Hose, 3/4" NH, Adjustable, Brass
- 1 EA Nozzle, Plastic, 60 GPM, 1 1/2"
- 4 EA Sprinkler Assembly, 1/2", Sprinkler Heads w/ Couplings
- 4 EA Tee, Hoseline, 1 1/2" x 1 1/2" x 1" w/ Cap
- 2 EA Valve, Wye, Gated, Brass, 3/4"
- 4 EA Valve, Shut Off, Ball, Brass, 3/4" NH
- 1 EA Reducer, 1 1/2" NH-F to 1" NPSH-M
- 4 EA Reducer, 1" NPSH-F to 3/4" NH-M

## **GUIDELINES FOR SPRINKLER SET UP**

- Where possible place the sprinkler high to simulate rain. Structures are designed to resist rain.
- All combustible material that is adjacent to the building or under decks must be wet.
- Easily ignited surface material on the building must be made wet and all parts of a wood roof
- Avoid direct hitting of windows and doors or any location that would allow water to enter the building
- Test the set up to be sure all sprinklers are working properly and all targeted parts are getting wet.
- The sprinklers do not need to be operated for a long period before the fire arrives (approx. 1 hr), but should be working for the entire fire front passage
- Protect the hose lines by burying them or keeping them under sprinkler protection
- Pump sites should be sprinkler protected if they are on vegetation or other fuel.

## **OSFM STANDARD FLAGGING**

- Red & white striped with "hazard" printing: general hazard
- Yellow & black striped with "bees" printing: bees
- Orange & black skull & crossbones with "killer tree" printing: hazard trees
- Blue with "water" printing: water supply
- Hot pink with "escape route" printing: escape route
- Light purple with "triaged" printing: triaged structures
  - Write date, time, & TF identifier on flagging
- White with "occupied" printing: occupied residences in evacuation areas
  - Write date, time, & TF identifier on flagging

## **Helicopter and Tanker carrying capacities**

### **Tankers**

Super Tanker 747	19,000 gallons
VLAT DC-10	12,000 gallons
C-130	3,000 to 3,500 gallons

Scooper	1,000 gallons
Super Scooper	1,600 gallons

### **Helicopters**

#### **Type 1**

Chinook	2,400 bucket, 2,800 internal gallon tank
Skycrane	2,650 gallons
Sikorsky S-61 (Croman)	1,000 to 1,200 gallons
Blackhawk	700 to 1,000 gallons
K-Max	700 to 1,000 gallons

#### **Type 2**

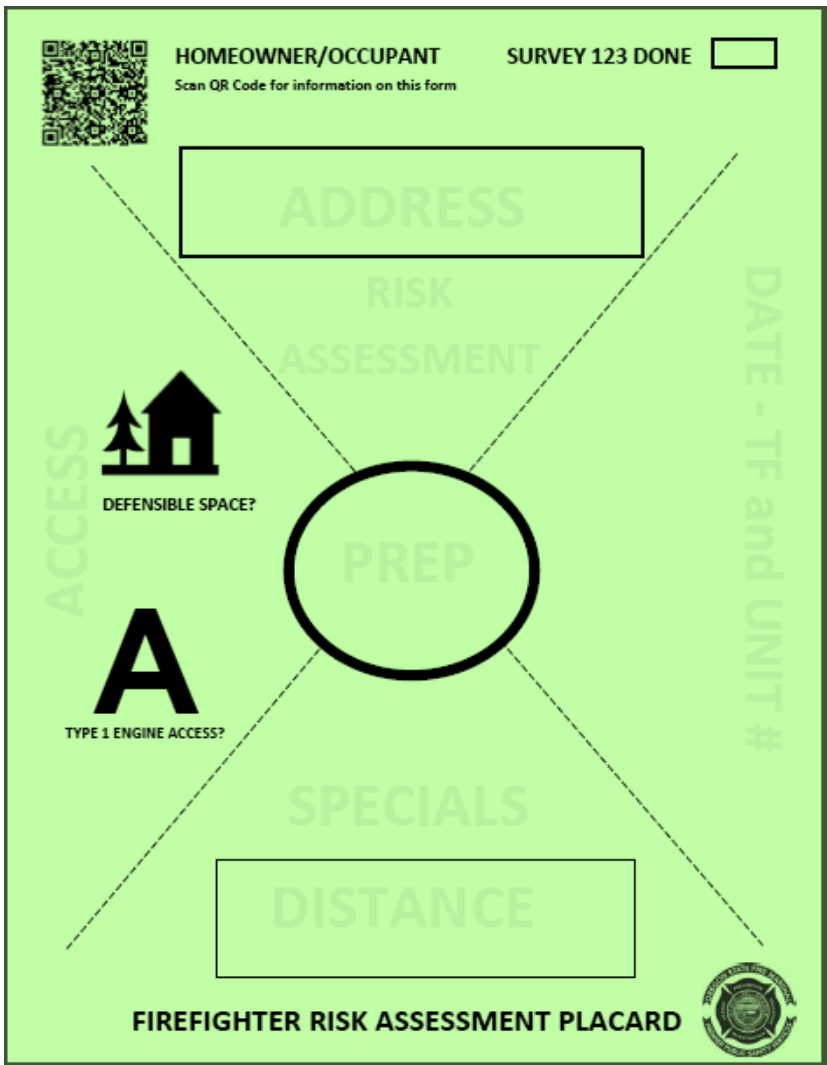
Huey	300 to 360 gallons
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Approximate gallons per load. All influenced by elevation and weather.

## FIREFIGHTER RISK ASSESSMENT PLACARDS

OSFM uses green placards to give firefighters real-time information and a snapshot view of what preparations have been completed or need to be done to a home or property. This information is intended to keep you safe in the event you have to come back to protect the properties identified. Placarding is a tool for the IMT to implement at their discretion, making the decision in concert with local stakeholders and agency administrators.

You may be approached by an occupant or property owner who has questions or concerns regarding the green placards. To help you answer their questions, you may refer them to the QR Code on the front of the placard or provide them with a copy of the one-pager included in your placarding kit called, "What does this green placard mean." Be sure to communicate any concerning interactions with your Division Group Supervisor so the IMT can address them appropriately.



The placard is a green rectangular form with a black border. At the top left is a QR code. To its right, the text reads "HOMEOWNER/OCCUPANT" and "SURVEY 123 DONE" followed by an empty rectangular box. Below the QR code is the instruction "Scan QR Code for information on this form". The center of the placard features a large circle with the word "PREP" inside. Four dashed lines radiate from the center to the corners, forming an 'X' shape. Along these lines are the following labels: "ADDRESS" at the top, "RISK ASSESSMENT" in the middle, "SPECIALS" at the bottom, and "DISTANCE" at the very bottom. On the left side, there is an icon of a house and a tree, with the text "DEFENSIBLE SPACE?" below it. Below that is a large letter "A" with "TYPE 1 ENGINE ACCESS?" underneath. On the right side, the text "DATE - TF and UNIT #" is written vertically. At the bottom center, it says "FIREFIGHTER RISK ASSESSMENT PLACARD" and at the bottom right is the official seal of the State of Florida Fire Marshal.

## **FORMS – USE AND PURPOSE**

TF/ST Leaders are encouraged to have copies of the following forms on hand when they assemble at the Point of Departure (POD).

### **Task Force/Strike Team Resource Form (Pg 21)**

This form is submitted to the AOC for approval prior to mobilization to an incident. This form will provide information about the incident and TF identifier. All apparatus and personnel must be included on this form and it should align with the Manifests provided during check-in.

### **Resource Manifest Form (Pg 22)**

The Manifest provides the information required by OSFM to reimburse local departments for their participation in mobilizations. Each mobilized unit (engines, command, and support) must have their own Manifest. All personnel names and departments must be included on this form. Incomplete or inaccurate forms may result in the delay or denial of reimbursement.

The Engine Boss of each responding unit should start their Manifest at the time of mobilization. Manifest completion is ultimately the responsibility of the TF/ST Leader. Upon arrival, the RESL will collect and verify your Manifests. Upon demobilization, the RESL will use the form to demobilize the unit and provide a hard-card copy for each apparatus. Your Fire Defense Board Chief or the OSFM can supply you with these forms.

### **Apparatus Form (Pg 23)**

This form is part of the check-in process and is submitted to the RESL upon arrival. This form is used by both Safety and Operations.

### **ICS-214/Unit Log (Pg 24)**

This form is to be completed by each unit daily and submitted to DIVS. Detail actions, accidents, agreements, contact with homeowners, lost equipment, injuries, and other pertinent information.

### **Incident Demobilization Inspection Form (Pg 25)**

Each apparatus must have a demobilization inspection conducted by the AO. This process can be facilitated by the IMT's Safety Officer.

### **Engine Company or Crew Performance Rating (Pg 26)**

Each Task Force/Strike Team will be evaluated by their DIVS.

TF/ST Leaders are expected to conduct evaluations on each apparatus under their direction. These evaluations are to be reviewed, signed, and provided to the IMT prior to demobilization. OSFM forwards copies of all evaluations to the Fire Defense Board Chief.

### **Task Force After Action Review Form (Pg 27)**

Each TF/ST Leader is expected to facilitate an After Action Review using the provided form, which is provided to the RESL during the demobilization process. This process should take approximately 20 minutes and the intention is to identify successes and challenges, both operationally and logistically.

# TASK FORCE/STRIKE TEAM RESOURCE FORM

Do not depart until approved by the AOC

<b>AOC to complete top section &amp; send to Fire Defense Board Chief</b>					
Incident Name:					
Staging Location:			Requested Arrival at Staging (date & time):		
Order #:			Task Force / Strike Team Identifier:		
Other Information (closed roads, fuel availability, etc.):					
County Sending Resources:					
<b>FDBC to complete the bottom portion &amp; send it back to AOC <a href="mailto:osfmaoc@osp.oregon.gov">osfmaoc@osp.oregon.gov</a></b>					
Fire Defense Board Chief:			Cell Phone:		
Task Force / Strike Team Leader:			Cell Phone:	Agency	
Optional Assistant / Trainee TFL: (circle one)			Cell Phone:	Agency:	
Kind/Type	Apparatus #	Agency	Apparatus Officer or Engine Boss	Cell Phone	# of Personnel
List Command Vehicle information below. If applicable list Support Vehicle information below					
CMD					
SPT					
List additional agencies responding:					
<b>***By submitting this form, I affirm that assigned personnel do NOT have present symptoms of illness using the Wildland Fire COVID-19 Screening Tool***</b>					
Name:			Date:		

# RESOURCE MANIFEST

AOC: 503-373-0001

Task Force/Resource Name:		IMT Assignment (IMT members only):	
Order #		Incident Name	
APP / VEH #	Resource Kind / Type	Apparatus Home Agency	
Last Name, First	Position	Home Agency	
Resource left POD (Contact AOC):		Resource arrived home (Contact AOC):	
Date / Time		Date / Time	
----- IMT Use Only -----			
Check-in	RESL Initials	Demob	RESL Initials
Date / Time		Date / Time	

Each apparatus should have one completed Manifest.

Task Force/Resource Name: Name of Task Force

IMT Assignment: Leave blank – for IMT members only

Order #: Order number issued by AOC

Incident Name: Name of the incident

APP / VEH #: Apparatus or vehicle number

Resource Kind/Type: Apparatus kind and type (i.e. E6 for Type 6 engine )

Apparatus Home Agency: Agency owning the apparatus/vehicle

Enter the names of individuals on apparatus.

- Enter position for each individual (i.e. ENG, AO, FF).

- Enter home agency for each individual on apparatus.

Enter date and time Task Force leaves the POD for the incident.

Upon arrival back at home station, enter date and time.

**Task Force/Strike Team Apparatus Form- (One per apparatus, submit to RESL)**

<b>Conflagration Name</b>									
<b>Department Name</b>					<b>Apparatus #</b>			<b>County</b>	
<b>Defense Board Chief</b>					<b>24 hr Contact Number</b>				
<b>Apparatus Type</b>						<b>Year</b>		<b>Mileage:</b>	
	I	II	III	IV	V	VI	Fuel Type:	Diesel:	Gas
Eng	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4X4 Chassis:	Yes	No
WT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				Pump & Roll:	Yes	No
Other							Plumbed Foam	Yes	No
							C.A.F.S.	Yes	No
Pump Capacity (GPM):						Foam Quantity			
Water Tank size:						Class A:		Class B:	
<b>Amount of Hose (in feet)</b>									
3/4"			1.75"			LDH			
1"			2.5"			Hard Suction			
1.5"			3"			Size			
<b>Communication Capabilities</b>									
Cell Phone #									
Frequency Capabilities									
State Fire Net		Yes		<input type="checkbox"/>		No		<input type="checkbox"/>	
Mobile radio		800Mhz				VHF			
Portable radio (number of each)		800Mhz				VHF			
Is Portable radio field programmable?		Yes		<input type="checkbox"/>		No		<input type="checkbox"/>	
Is Mobile radio field programmable?		Yes		<input type="checkbox"/>		No		<input type="checkbox"/>	
<b>Equipment</b>	<b>Yes</b>	<b>No</b>	<b>Comments</b>						
Generator	<input type="checkbox"/>	<input type="checkbox"/>							
Extrication Tools	<input type="checkbox"/>	<input type="checkbox"/>							
Chain Saw	<input type="checkbox"/>	<input type="checkbox"/>							
Brush/Hand Tools	<input type="checkbox"/>	<input type="checkbox"/>							
Floto Pump	<input type="checkbox"/>	<input type="checkbox"/>							
Food / Water	<input type="checkbox"/>	<input type="checkbox"/>							
AED / Defibrillator	<input type="checkbox"/>	<input type="checkbox"/>							
ALS Equip/Personnel	<input type="checkbox"/>	<input type="checkbox"/>							
First Aid Kit	<input type="checkbox"/>	<input type="checkbox"/>							
SCBA (quantity)	<input type="checkbox"/>	<input type="checkbox"/>							
Other (Describe)									





# Incident Demobilization Vehicle Safety Inspection

**Vehicle Operator is to complete items & submit to Resource Unit Leader (RESL)**

Incident Name		Order No.
Veh Lic #	Agency	
Type (Eng., Bus, Sedan)	Odometer Reading	Veh. ID #

Inspection Items	*	Pass	Fail	Comments
1. Gauges and lights	*	<input type="checkbox"/>	<input type="checkbox"/>	
2. Seat belts	*	<input type="checkbox"/>	<input type="checkbox"/>	
3. Glass and mirrors	*	<input type="checkbox"/>	<input type="checkbox"/>	
4. Wipers and horn	*	<input type="checkbox"/>	<input type="checkbox"/>	
5. Engine Compartment	*	<input type="checkbox"/>	<input type="checkbox"/>	
6. Fuel system	*	<input type="checkbox"/>	<input type="checkbox"/>	
7. Steering	*	<input type="checkbox"/>	<input type="checkbox"/>	
8. Brakes	*	<input type="checkbox"/>	<input type="checkbox"/>	
9. Drive line U-joints. Check play		<input type="checkbox"/>	<input type="checkbox"/>	
10. Springs and shocks	*	<input type="checkbox"/>	<input type="checkbox"/>	
11. Exhaust system	*	<input type="checkbox"/>	<input type="checkbox"/>	
12. Frame	*	<input type="checkbox"/>	<input type="checkbox"/>	
13. Tire and wheels	*	<input type="checkbox"/>	<input type="checkbox"/>	
14. Coupling devices		<input type="checkbox"/>	<input type="checkbox"/>	
15. Emergency exit (Buses)		<input type="checkbox"/>	<input type="checkbox"/>	
16. Pump Operation		<input type="checkbox"/>	<input type="checkbox"/>	
17. Damage on incident		<input type="checkbox"/>	<input type="checkbox"/>	
18. Other		<input type="checkbox"/>	<input type="checkbox"/>	

**\* Safety Item - Do not Release Until Repaired**

Additional Comments

HOLD FOR REPAIRS		RELEASE	
Date	Time	Date	Time
Inspector Name (Print)		Operator Name (Print)	
Inspector Signature		Operator Signature	

**If losses or damages are noted, report to the Safety Officer and Finance Section Chief.**

**OREGON STATE FIRE MARSHAL  
TASK FORCE / STRIKE TEAM  
PERFORMANCE EVALUATION**

**INSTRUCTIONS:** The immediate supervisor, Division Supervisor or Operations Chief shall complete this form for each task force / strike team. This evaluation shall be reviewed with the TF/ST Leader, who will acknowledge such by signing at the bottom of the form. The supervisor shall deliver this form to the planning section before leaving the incident. A copy of this report will be sent to the TF/ST Leader's home department and Fire Defense Board.

**\*\*\*THESE RATINGS ARE TO BE USED ONLY FOR DETERMINING TASK FORCE / STRIKE TEAM PERFORMANCE\*\*\***

<b>1.</b> Task Force / Strike Team County and Department Number	<b>5.</b> Fire Name
<b>2.</b> Task Force / Strike Team Leader and Department	<b>6.</b> Location of Fire (complete address or nearest town)
<b>3.</b> Assistant Task Force / Strike Team Leader and Department	<b>7.</b> Date of Assignment From: _____ To: _____
<b>4.</b> Departments Represented (List all departments in Task Force / Strike Team)	<b>8.</b> Number of Shifts / Hours Worked

**SFM Task Force / Strike Team Performance Evaluation**

<p><b>Rating Factors</b> Place an "X" in the box that best describes the performance of the task force / strike team. <b>* Deficiencies and areas for improvement must be explained in remarks</b></p>	Excellent	Above Average	Satisfactory	Needs Improvement	Unacceptable	Not Observed	<p><b>Positive performance / general comments</b> (attach additional sheets as needed)</p>
	<p><b>9. Task Force / Strike Team Performance</b></p>						

Physical Condition / Able to Perform						
Meets Training Qualifications / Standards						
Meets Engine and Equipment Standards						
Proper PPE for <b>ALL</b> Members						
Follows Directions and Works as a Team						
Use of Safe Practices						
Fireline Conduct						
Off Line Conduct						
Other (specify)						

**\* Deficiencies and areas for improvement**  
(attach additional sheets as needed)

**10. Supervisory Performance**

Task Force / Strike Team Leader						
Assistant Task Force / Strike Team Leader						
Engine Bosses						

<b>11.</b> Names of Outstanding Workers or Crews (include comments)	<b>12.</b> Performance of the Task Force / Strike Team as a whole (indicate areas of excellence and areas that need improvement)
---	--

**By signing below, the Task Force / Strike Team Leader acknowledges reviewing the contents / comments on this form.**

<b>13.</b> Task Force / Strike Team Leader (signature)	<b>14.</b> Task Force / Strike Team Leader (print name)	<b>15.</b> Date
<b>16.</b> Evaluated By (signature)	<b>17.</b> Evaluated By (print name)	<b>18.</b> ICS Position Pg. 24
		<b>19.</b> Date



# Task Force After Action Review (AAR)

## Instructions & Examples

### 1. What was planned? (Spend about 25% of total time on this question and the next)

#### Review the intent of the mission:

Key task assignments; desired “end state” (what does “Right” look like?).

*Example: TF1 was assigned structure triage, prep and protection on Deer Creek road with approximately 40 primary Structures and 20 secondary structures. The TF was to locate safety zones and escape routes. Then gather other important information including evacuation status, water supply and other intelligence. After that information was gathered the TF was to map and locate all structures, triage the structures and prep them as time allowed. When and if assignment was complete the TF would be in patrol mode and respond to request as needed.*

### 2. What actually happened?

#### Establish the facts

Pool multiple perspectives to build a shared picture of what happened.

*Example: TF1 responded to Deer Creek Road and established and located safety zones and escape routes. TF1 only triaged 21 primary structures and 9 secondary structures in the operational period. The TF met with homeowners that we made contact with that took time and some locked gates hindered our triage work. Little to no prep work was done because the TF spent time communicating with homeowners and some homeowners did not want any fuel mitigation done near the home.*

### 3. Why did it happen? (Spend about 25% of total time on this question)

#### Analysis of cause and effect

Focus on WHAT, not WHO; draw out explanations of what occurred.

*Example: Homeowners not all evacuated, some evacuated residents closed and locked gates when leaving. No maps were available prior to our arrival so locating structures took longer. Once the structures were located and mapped triage can happen faster.*

### 4. What are we going to do next time? (Spend about 50% of total time on this question)

#### Correct Weaknesses

Focus on items you can fix, rather than external forces outside of your control.

#### Sustain/Maintain Strengths

Identify areas where groups are performing well and should sustain. This will help repeat success and create a balanced approach to the AAR.

*Example: Communicate with homeowners to leave gates open when evacuating. Get maps from local fire district if overhead team maps are not available yet. (The local fire district almost always has paper maps to make copies) Possibly assign a local fire district rep to the TF for the first couple hours for local knowledge and Info.*

<b>INCIDENT RADIO COMMUNICATIONS PLAN</b>	<b>1. Incident Name</b>	<b>2. Date/ Time Prepared</b>	<b>3. Operational Period Date/Time</b>
	<b>OSFM Standard Comm Plan</b>	<b>April 13th, 2015 Version 1.0</b>	<b>On Arrival, 1st. Op. Period</b>

**4. Basic Radio Channel Utilization**  
Mode: W=Wideband Analog, N=Narrowband Analog, D=Digital, M=Mixed

Channel	Radio Type / Cache	Frequency	Tone	Mode	Assignment	F30G Screen Reads...
1	Icom F30G/ BK / OSFM	RX: 154.2800	None	N	State Fire Net - Options: Simplex OPS, VCALL w/inbound TFs, w/X band RPT in field. (VFIRE21) <b>Primary Mayday Channel</b>	Fire NET
		TX: 154.2800	None			
2	Icom F30G / BK / OSFM	RX: 167.2500	NONE	N	In camp (LE 6 Direct)	CAMP
		TX: 167.2500	156.7			
3	Icom F30G / BK / OSFM	RX: 168.1125	None	N	Used as base or camp Chat channel & for LOGS (LE 8 Direct)	LOGS
		TX: 168.1125	156.7			
4	Icom F30G / BK / OSFM	RX: 153.8975	None	N	OSFM OPS Channel A Simplex.	OPS A-Dir
		TX: 153.8975	156.7			
5	Icom F30G / BK / OSFM	RX: 153.8975	None	N	OSFM OPS A In-Band Repeater pair Channel #2 with UHF link back to base.	OPS A-Rpt
		TX: 158.9475	136.5			
6	Icom F30G / BK / OSFM	RX: 155.1675	None	N	OSFM OPS Channel B Simplex.	OPS B-Dir
		TX: 155.1675	156.7			
7	Icom F30G / BK / OSFM	RX: 155.1675	None	N	OSFM OPS B In-Band Repeater pair Channel #1 with UHF link back to base.	OPS B-Rpt
		TX: 150.8050	136.5			
8	Icom F30G / BK / OSFM	RX: 151.1375	None	N	OSFM OPS Channel C Simplex. (VTAC 11)	OPS C-Dir
		TX: 151.1375	156.7			
9	Icom F30G / BK / OSFM	RX: 151.1375	None	N	OSFM OPS Channel C In-band Repeater (VTAC 36) - available through ODOT. Not used on all incidents.	OPS C-Rpt
		TX: 159.4725	136.5			
10	Icom F30G / BK / OSFM	RX: 154.4525	None	N	OSFM OPS Channel D Simplex (VTAC 12)	OPS D-Dir
		TX: 154.4525	156.7			
11	Icom F30G / BK / OSFM	RX: 154.4525	None	N	OSFM OPS Channel D In-band Repeater (VTAC 37) - available through ODOT. Not used on all incidents.	OPS D-Rpt
		TX: 158.7375	136.5			
12	Icom F30G / BK / OSFM	RX:		N	This channel is for local FD's to put a frequency that they use locally and can use as a TF talk around.	BLANK
		TX:				
13	Icom F30G / BK / OSFM	RX: 155.4750	None	N	OPEN – Use for LE/LEO or evacuation	LEO-OPEN
		TX: 155.4750	156.7			
14	Icom F30G / BK / OSFM	RX: 151.3400	None	N	ODF REDNET - Can <u>NOT</u> be used in absence of ODF team	ODF RED
		TX: 151.3400	156.7			
15	Icom F30G / BK / OSFM	RX: 151.3100	None	N	ODF WHITENET- ODF + Air to Ground. Can <u>NOT</u> be used in absence of ODF team	ODFW-A/G
		TX: 151.3100	156.7			
16	Icom F30G / BK / OSFM	RX: 168.6250	None	N	AIR GUARD/EMERGENCY – Emergent Communications with Incident Aircraft	AirGuard
		TX: 168.6250	110.9			

5. Prepared by (Communications Unit Leader)  
UHF LINKS AND XBAND      453.0250 XBAND1      458.0250 XBAND2      458.9750 XBAND3  
OSFM REPEATER FREQUENCIES      OPS-A    TX 153.8975 (136.5) RX 158.9475 (136.5)    OPS-B    TX - 155.1675 (136.5)    RX - 150.8050 (136.5)

# WILDLAND FIRE COVID-19 SCREENING TOOL

Today or in the past 24 hours, have you had any of the following symptoms<sup>1</sup>?

Symptom
Cough more than expected?
Shortness of breath or difficulty breathing?
Fever? Chills?
Muscle pain, outside your normal for firefighting?
Sore throat?
New loss of taste or smell?
Fatigue, outside your normal for firefighting?
Headache, outside your normal for firefighting?
Congestion or runny nose, outside your normal for firefighting?
Nausea or vomiting
Diarrhea
<i>* Take temperature with no-touch thermometer, if available *</i>

## Instructions for Screening

Item	What to Do
If resource has a cough that is more than expected, shortness of breath or difficulty breathing, or any other symptoms listed.	DO NOT MOBILIZE
At Entries: Consider adequate number of personnel needed for screening. Although medical personnel are ideal, screeners do not have to be medically trained. If resource has cough, shortness of breath or difficulty breathing, or any other listed symptoms including fever (over 100.4) at entry.	DO NOT ANNOUNCE Ask individual to step aside and follow the steps below.

Steps to follow
Escort symptomatic individual to isolation area.
Isolation support personnel should begin documentation.
Have symptomatic individual contact Supervisor for further direction.
Notify public health officials.
Have individual transported as appropriate.
Protect and secure any collected Personal Identifiable Information (PII) or Personal Health Information (PHI).

<sup>1</sup> Symptoms of Coronavirus  
<https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html>

## Apparatus Cleaning - Daily

From "How to Reduce the Risk of the Coronavirus in Your Vehicle"

### Have the Right Tools

It is possible to disinfect and kill the virus on external surfaces. There are several ways to prepare your vehicle to be especially clean and safe during the outbreak. Experts recommend using disposable gloves while cleaning or dedicating reusable gloves for COVID-19 disinfection purposes only.

Most common EPA-registered household disinfectants will work. Be sure to read the labels to make sure the cleaner is safe to use on the different surfaces in your vehicle. We recommend keeping a tube of disinfectant wipes in the vehicle as an easy and effective preventive measure.

The CDC has recommendations for homemade bleach and alcohol solutions given that many brand-name disinfectants have been in short supply.

### Focus on Common Vehicle Touchpoints

You'll want to clean the places you come into contact with the most. Besides the obvious places such as a door handle, key fob or steering wheel, the most important part of the interior to keep clean is the dashboard.

Other places to clean include the inside door buttons, seat belts, gear shifters and touchscreens. How often should you do this? While your individual circumstances with your vehicle will vary, the CDC recommends cleaning and disinfecting touched surfaces daily.

The outside of the apparatus is less susceptible to carrying the virus, said Gerba. That's because the sun and outside weather can shorten its life span. However, it is still a good idea to clean door handles and other exterior touch points. Gas pump handles and keypads at gas stations are also locations to be wary of.

Use disposable paper towels and approved cleaning solution, or wipes for cleaning if possible. Wipes – not sprays – are recommended to avoid aerosolizing the virus on contact.

### CDC Disinfecting Guidelines

Clean the area or item with soap and water or another detergent if it is dirty. Then, use a household disinfectant.

#### **Recommended use of EPA-registered household disinfectant.**

**Follow the instructions on the label** to ensure safe and effective use of the product.

Many products recommend:

- Keeping surface wet for a period of time (see product label)
- Precautions such as wearing gloves and making sure you have good ventilation during use of the product.

**Diluted household bleach solutions may also be used** if appropriate for the surface.

- Check the label to see if your bleach is intended for disinfection, and ensure the product is not past its expiration date. Some bleaches, such as those designed for safe use on colored clothing or for whitening may not be suitable for disinfection.
- Unexpired household bleach will be effective against coronaviruses when properly diluted.

**Follow manufacturer's instructions** for application and proper ventilation. Never mix household bleach with ammonia or any other cleanser.

**Leave solution** on the surface for **at least 1 minute**.

**To make a bleach solution**, mix:

- 5 tablespoons (1/3rd cup) bleach per gallon of water
- OR
- 4 teaspoons bleach per quart of water

**Alcohol solutions with at least 70% alcohol may also be used.**

EPA-registered household disinfectants:

<https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2>