



Fire Protection Training

Procedures Handbook 4300

FIREFIGHTER SAFETY

TOPIC: USING A BULLDOZER DURING FIRE SHELTER DEPLOYMENT

TIME FRAME: :20

LEVEL OF INSTRUCTION: I

BEHAVIORAL OBJECTIVE:

Condition: A written quiz

Behavior: The student will describe the procedures to follow when working with a bulldozer during fire shelter deployment.

Standard: With a minimum of 80% accuracy

MATERIALS NEEDED:

- Writing board with markers/erasers

REFERENCES:

- Pamphlet; “The New Generation Fire Shelter”, NWCG, 2003, NFES 2710
- DVD, Fire Shelter Video and Publication Library, USDA Forest Service 0851-2D10-MTDC, 2008
- CAL FIRE, Fix n Fax #116

PREPARATION: Bulldozers often work side by side with other fire line construction resources. Hopefully, an operator will never become trapped by fire, but in the event this happens, a bulldozer can assist during a fire shelter deployment.



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PRESENTATION	APPLICATION
<p>I. GROUP PREPARATION</p> <p>(If with other bulldozers, fire equipment or other fireline personnel)</p> <ul style="list-style-type: none">A. Stay together<ul style="list-style-type: none">1. Maintain control of personnel at all timesB. Follow instructions of the bulldozer operator or the fireline supervisorC. Make notifications<ul style="list-style-type: none">1. Fireline supervisor, I.C., or E.C.C.2. Explain the situation3. Give an accurate description of your location and access instructions<ul style="list-style-type: none">a. Lat/Long and / or geographical description <p>NOTE: Possible answers: North end of Division Alpha, South side of Bald Peak, North 36 degrees 18.23 by West 119 degrees 16.33</p> <ul style="list-style-type: none">b. For ground/air support and/or rescue	<p>Instructor Note: Review "The Ten Standard Firefighting Orders," "The Eighteen Fire Situations That Shout Watch Out!" and "Avoiding Fire Entrapment"</p> <p>What are some examples of description location?</p>

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<p>4. Request necessary assistance</p> <p>D. Re-evaluate your situation</p> <ol style="list-style-type: none">1. Reach pre-designated safety zone2. Using pre-designated escape route(s)3. Weigh the risks of sheltering in place against the risks of leaving the area4. Have you considered all options? <p>II. SELF-PREPARATION</p> <p>A. Remain calm, think clearly, act decisively</p> <p>B. Discard flammables-fusees, gas cans, etc.</p> <p>III. SELECT DEPLOYMENT SITE</p> <p>A. If safety zone(s) and escape route(s) are compromised because of fire conditions, select or prepare a deployment site</p> <ol style="list-style-type: none">1. Considerations<ol style="list-style-type: none">a. Fire Spread<ol style="list-style-type: none">(1) Direction(2) Speedb. Wind<ol style="list-style-type: none">(1) Direction(2) Speed	<p>Retardant/water drops</p> <p>Possible helicopter rescue or transport of injured personnel</p>

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<ul style="list-style-type: none">(3) Affect on spottingc. Fuels<ul style="list-style-type: none">(1) Clear or open areas are best(2) Avoid areas with heavy fuel loadingd. Topography<ul style="list-style-type: none">(1) Seek<ul style="list-style-type: none">(a) Level areas(b) Areas just beyond a ridge line on the side opposite of the approaching fire(2) Avoid<ul style="list-style-type: none">(a) Chimneys, chutes(b) Canyons(c) Areas near a ridge line on the fire side(d) Inside turns on roadse. Barriers<ul style="list-style-type: none">(1) Natural<ul style="list-style-type: none">(a) Slides(b) Rock outcroppings(c) Streams, ponds, lakes(d) Old burns(e) Grazed areas	



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<ul style="list-style-type: none">(2) Constructed<ul style="list-style-type: none">(a) Roads(b) Parking lots(c) Orchards, vineyards(d) Swimming pools(e) Fuel breaksB. Deployment site preparation<ul style="list-style-type: none">1. Burn out area if possible2. Construct to mineral soil, if time allows3. Use the bulldozer to dig a trench and pile dirt toward approaching fire front4. Dirt mound can act as a radiant heat shield <p>IV. BULLDOZER PREPARATION PRIOR TO FIRE SHELTER DEPLOYMENT</p> <ul style="list-style-type: none">A. Bulldozers<ul style="list-style-type: none">1. Park in trench with blade atop berm, facing the oncoming fire2. Set throttle at high idle<ul style="list-style-type: none">a. Check for others in the area before moving3. Set brakes4. Turn on all lights5. Activate strobe and audible alarm<ul style="list-style-type: none">a. Activate strobe	

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<ul style="list-style-type: none">(1) Makes the dozer more visible in heavy smoke conditionsb. Activate audible alarm<ul style="list-style-type: none">(1) Alert ground resources to situation6. Exit the bulldozer<ul style="list-style-type: none">a. Deploy the fire shelter in the most survivable area per CAL FIRE policy <p>NOTE: 4306.16, New Generation Fire Shelter</p> <ul style="list-style-type: none">b. Remain in fire shelter until fire has passedc. Other fire personnel may seek refuge with you <p>V. AFTER DANGER HAS PASSED</p> <ul style="list-style-type: none">A. Provide first aid/burn treatment as necessaryB. Make notifications of your status/needsC. Gather all personnel together<ul style="list-style-type: none">1. Provide reassurance and supportD. Evacuate if appropriate	

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SUMMARY:

Whatever your fireline assignment, you may be working in an area near bulldozers. In the event your position is overrun by fire, the bulldozer can be used in creating a deployment site.

EVALUATION:

A written quiz.

ASSIGNMENT:

To be determined by instructor(s).