

Sacramento Fire Department

Shasta Burn

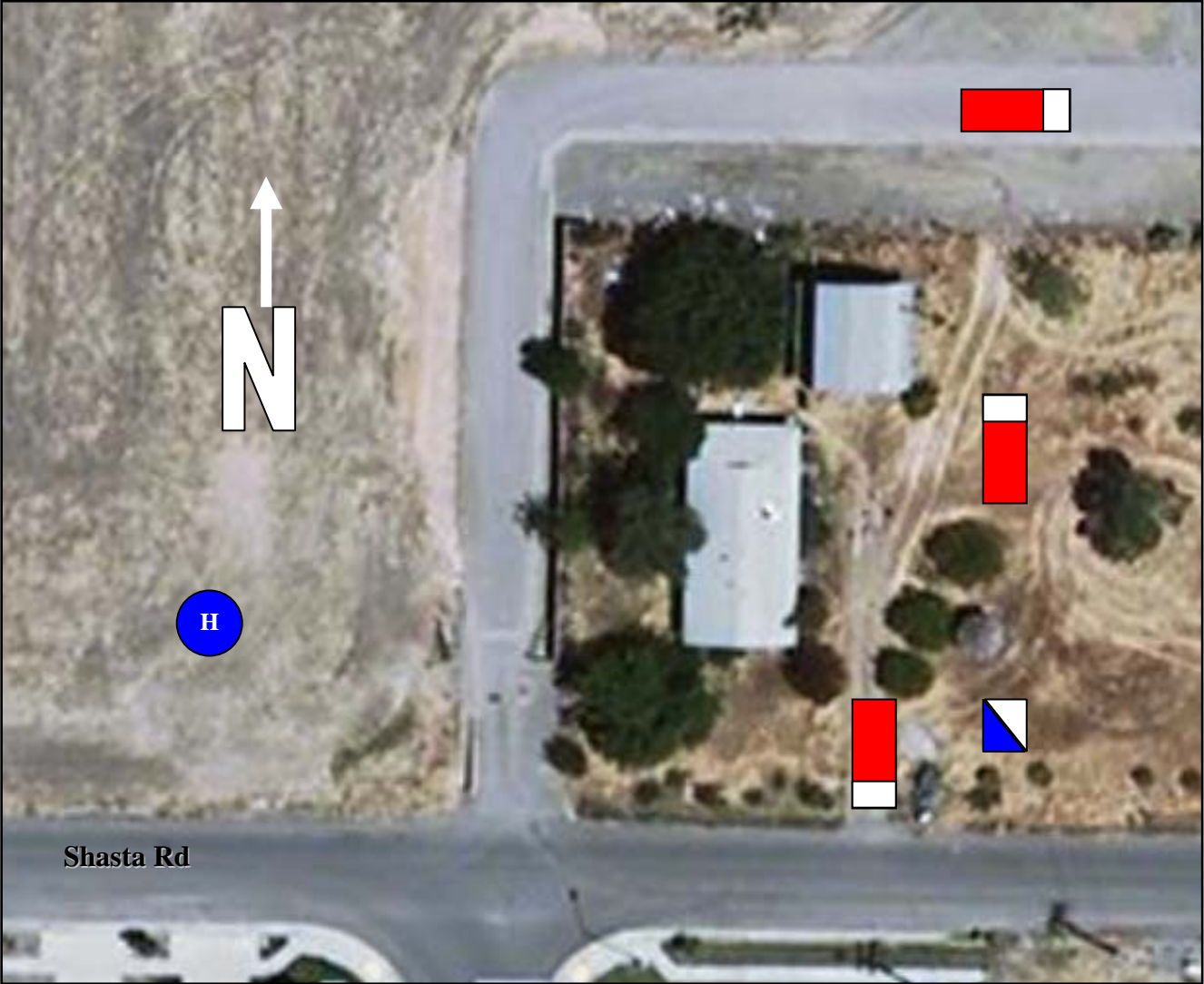


Incident Action Plan

February 4, 2008

INCIDENT OBJECTIVES ICS-202	1. INCIDENT NAME SHASTA	2. DATE PREPARED 1/31/08	3. TIME PREPARED 1600
4. OPERATIONAL PERIOD (DATE/TIME) 2/4/2008 0700-1600			
5. GENERAL CONTROL OBJECTIVES FOR THE INCIDENT (INCLUDE ALTERNATIVES) To... <ul style="list-style-type: none"> • provide a realistic and <u>safe live fire</u> training environment • Utilize fire control techniques to understand fire behavior in a controlled environment • Actively train suppression personnel in <u>safe live fire</u> structural firefighting, ventilation, exposure protection, and RIC deployment techniques. • impart knowledge on scene management • maintain an accountability system with occasional PARS • protect exposures, such as trees, out buildings and attic spaces 			
6. WEATHER FORECAST FOR OPERATIONAL PERIOD See Attached			
7. GENERAL/SAFETY MESSAGE Be sure the material is understood, ask questions- seek clarity Inspect your safety equipment prior to use MUST have a minimum of 1500 psi SCBA cylinder pressure prior to entering any IDLH Drink plenty of water and watch for tripping, sharp items and overhead hazards			
8. ATTACHMENTS (CHECK IF ATTACHED) <div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> ORGANIZATION LIST (ICS 203) <input checked="" type="checkbox"/> DIVISION ASSIGNMENT LISTS (ICS 204) <input checked="" type="checkbox"/> COMMUNICATIONS PLAN (ICS 205) <input checked="" type="checkbox"/> MEDICAL PLAN (ICS 206) <input checked="" type="checkbox"/> INCIDENT MAP </div> <div> <input checked="" type="checkbox"/> TRAFFIC PLAN <input type="checkbox"/> FIRE BEHAVIOR FORECAST <input checked="" type="checkbox"/> WEATHER FORECAST <input checked="" type="checkbox"/> OTHER -Training Plan </div> </div>			
9. PREPARED BY (PLANNING SECTION CHIEF) Tim Adams		10. APPROVED BY (INCIDENT COMMANDER) David Baldwin	

INCIDENT MAP	1. INCIDENT NAME	2. DATE PREPARED	3. TIME PREPARED	4. OPERATIONAL PERIOD
	SHASTA	1/31/08	1600	02/04/2008 0700- 1600



WEATHER/FORECAST 202-W	1. INCIDENT NAME	2. DATE PREPARED	3. TIME PREPARED	4. OPERATIONAL PERIOD
	SHASTA	2/1/08	1745	02/04/2008 0700- 1600

REDDING INTERAGENCY FIRE WEATHER CENTER

1745 PST Friday FEB 1, 2008

Spot Forecast for the Shasta Burn – Sacramento FD

Location near T7N R5E Sec 15 S aspect Fuel is a house (training burn)

Based on data from Sacramento Executive Airport

*** Forecast winds are for **20 ft.** ***

Discussion: Although there will be a wet weather system in the area over the weekend, there is likely to be a break between systems Monday into Tuesday. This will bring some somewhat drier and warmer conditions to the area along with some northerly afternoon winds.

Monday FEB 4: Variable cloudiness with quite a bit of sunshine expected after a 20% chance of some light early morning showers. Max temp 45-49, minimum RH above 45%. Wind N to NE 6-12 mph with gusts to around 20 mph.

Monday Night: Partly cloudy. Some chance of patchy fog in the area forming late. Min temp around 38, max RH 80% or higher. Wind becoming NE to SE 3-7 mph.

Tuesday FEB 5: Variable cloudiness with quite a bit of sunshine expected after the possibility of some morning fog. Cloudiness increasing again late in the afternoon. Max temp near 48, minimum RH above 40%. Wind NE to SE 2-5 mph in the morning, becoming S to SW 4-10 mph with gusts to around 15 mph in the afternoon.

Outlook for Wednesday through Friday: Another cool, wet weather system may bring some more light rain to the area late Tuesday into Wednesday, otherwise it will be partly to mostly cloudy. Min RH will remain rather high, 40% or higher, max temps mostly in the 50s. Afternoon winds will most likely be westerly to north, 3-9 mph with stronger gusts in the late afternoons.

ORGANIZATION ASSIGNMENT LIST ICS-203		1. INCIDENT NAME <div style="text-align: center; font-weight: bold;">SHASTA</div>	2. DATE PREPARED <div style="text-align: center;">1/31/2008</div>																																																														
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1. BRANCH I		2. DIVISION/GROUP Fire Attack		DIVISION ASSIGNMENT LIST ICS-204					
3. INCIDENT NAME SHASTA				4. OPERATIONAL PERIOD DATE: 02/04/2008 TIME: 0700–1600					
5. OPERATIONS PERSONNEL									
OPERATIONS SECTION CHIEF: DIVISION/GROUP SUPERVISOR : Tim Adams				BRANCH DIRECTOR: AIR TACTICAL GROUP SUPV.:					
6. RESOURCES ASSIGNED THIS PERIOD									
RESOURCE DESIGNATOR	LEADER	NUMBER PERSONS	TRANS. NEEDED	DROP OFF POINT/TIME	PICK UP POINT/TIME				
Team 1	Harrington	3 (Ldr +2)							
Team 2	Felkins	3 (Ldr +2)							
Team 3	Billiter	3 (Ldr +2)							
Team 4	Clark	3(Ldr +2)							
Team 5	Green	3 (Ldr +2)							
7. OPERATIONS To coordinate between the interior firing and the fire attack Make certain fire behavior observers are ready prior to any firing activities Make certain crew leaders have an accountability of their crew members, proper PPE and minimum SCBA psi Team Leader will rotate with their assigned groups. Make fire attack entries with 1 3/4" charged hoseline Use fire control techniques to extinguish contents fire Once fire is knocked down, <u>completely</u> extinguish, exit building and conduct PAR									
8. SPECIAL INSTRUCTIONS All groups check one another for safety prior to entry Bleed line prior to entry Stay low Any problems remove whole crew and conduct PAR									
9. DIVISION/GROUP COMMUNICATIONS SUMMARY									
FUNCTION		FREQUENCY	SYSTEM	CHAN.	FUNCTION		FREQUENCY	SYSTEM	CHAN.
COMMAND		B2	SRFECC	2	STATUS/ LOGISTICS	LOCAL			
COMMAND					STATUS/ LOGISTICS	REPEAT			
DIVISION/GROUP TACTICAL –		Dir 16	SRFECC	16	GROUND TO AIR				
PREPARED BY (Plans) Adams				APPROVED BY (Incident Commander) Baldwin			DATE	TIME	

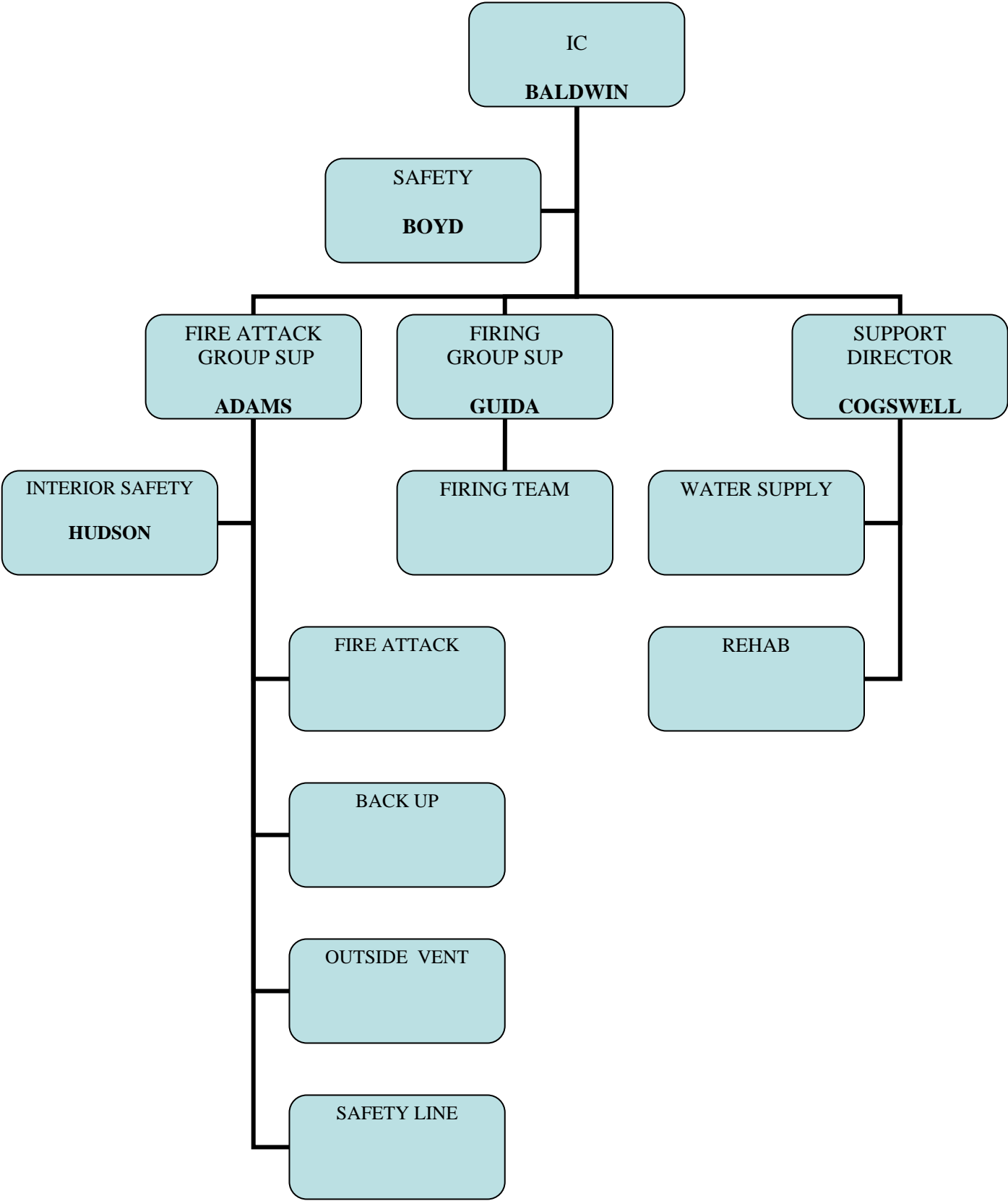
1. BRANCH I		2. DIVISION/GROUP Firing		DIVISION ASSIGNMENT LIST ICS-204					
3. INCIDENT NAME SHASTA				4. OPERATIONAL PERIOD DATE: 02/04/2008 TIME: 0700-1600					
5. OPERATIONS PERSONNEL									
OPERATIONS SECTION CHIEF: DIVISION/GROUP SUPERVISOR : Eric Guida				BRANCH DIRECTOR: AIR TACTICAL GROUP SUPV.:					
6. RESOURCES ASSIGNED THIS PERIOD									
RESOURCE DESIGNATOR	LEADER	NUMBER PERSONS	TRANS. NEEDED	TEAM MEMBERS					
Firing 1	Guida	3 (Ldr +2)		Early, Chapman					
Firing 2	Taylor	3 (Ldr +2)		Nuebauer, Peirner					
7. OPERATIONS									
<p>To coordinate the interior firing and the attack crew's readiness-communicate through Branch I (Interior)</p> <p>Establish the training fires within the desired room</p> <p>Keep training fires under control at all times while crews prepare, enter, extinguish and exit the building</p> <p>Inspect for unwanted fire - communicate with Attack Group Leader</p> <p>Ignite fires in single rooms for control burn</p> <p>Utilize straw, pallets & flares only</p> <p>Establish a rotation, 3 teams of 3.</p> <p>Set fire in designated room when directed by Operations.</p> <p>Allow the fire to build and then call for fire attack.</p> <p>Maintain awareness of fire room temperature.</p>									
8. SPECIAL INSTRUCTIONS									
<p>Fire setters will stage all needed supplies outside and to the rear of the structure</p> <p>Enter and exit building on opposite side of structure from fire attack</p>									
9. DIVISION/GROUP COMMUNICATIONS SUMMARY									
FUNCTION		FREQUENCY	SYSTEM	CHAN.	FUNCTION		FREQUENCY	SYSTEM	CHAN.
COMMAND		B2	SRFECC	2	STATUS/ LOGISTICS	LOCAL			
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DIVISION/GROUP TACTICAL		Dir 16	SRFECC	16	GROUND TO AIR				
10. PREPARED BY (Plans) Adams				12. APPROVED BY (Incident Commander) Baldwin			DATE	TIME	

1. BRANCH		2. DIVISION/GROUP Support		DIVISION ASSIGNMENT LIST ICS-204					
3. INCIDENT NAME SHASTA				4. OPERATIONAL PERIOD DATE: 02/04/2008 TIME: 0700-1600					
5. OPERATIONS PERSONNEL									
OPERATIONS SECTION CHIEF: DIVISION/GROUP SUPERVISOR : Cogswell				BRANCH DIRECTOR: AIR TACTICAL GROUP SUPV.:					
6. RESOURCES ASSIGNED THIS PERIOD									
RESOURCE DESIGNATOR	LEADER	NUMBER PERSONS	TRANS. NEEDED	DROP OFF POINT/TIME	PICK UP POINT/TIME				
Engine 16	Ott	1							
Engine 1	Campbell	1							
Tender xx	TBA	1							
Rehab	Team Leader								
7. OPERATIONS Maintain continuous water supply for hose lines. Supply Attack Lines Supply Back-up lines Supply Safety line Shuttle water if necessary Communicate water/supply situation to IC									
8. SPECIAL INSTRUCTIONS Keep apparatus water tanks full Refill at break; nearest hydrant is on Shasta Ave, 4 houses west of Keusman									
9. DIVISION/GROUP COMMUNICATIONS SUMMARY									
FUNCTION		FREQUENCY	SYSTEM	CHAN.	FUNCTION		FREQUENCY	SYSTEM	CHAN.
COMMAND		B2	SRFECC	2	STATUS/ LOGISTICS	LOCAL			
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DIVISION/GROUP TACTICAL		Dir 16	SRFECC	16	GROUND TO AIR				
10. PREPARED BY (Plans) Adams				11. APPROVED BY (Incident Commander) Baldwin			DATE	TIME	

INCIDENT RADIO COMMUNICATIONS ICS - 205			1. INCIDENT NAME SHASTA	2. PREPARED DATE: 1/31/08 TIME: 1600	3. OPERATIONAL PERIOD DATE: 02/04/2008 TIME: 0700-1600
SYSTEM/CACHE	CHANNEL	FUNCTION	FREQUENCY	ASSIGNMENT	REMARKS
SRFECC	B2	Command		Command	IC to Comm. Center
SRFECC	Dir 16	Fire Attack		Tactical Frequency	Use for operations during the training exercise
4. . PREPARED BY (COMMUNICATIONS UNIT)					

MEDICAL PLAN ICS-206	1. INCIDENT NAME	2. DATE PREPARED	3. TIME PREPARED	4. OPERATIONAL PERIOD					
	SHASTA	1/31/08	1600	02/04/2008 0700-1600					
5. INCIDENT MEDICAL AID STATIONS									
MEDICAL AID STATIONS	LOCATION	PARAMEDICS							
		YES	NO						
Engine 16	Driveway- Alpha/Delta Corner	X							
6. TRANSPORTATION									
A. AMBULANCE SERVICES									
NAME	ADDRESS	PHONE	PARAMEDICS						
			YES	NO					
Sacramento Fire Department	5770 Freeport Blvd	Radio	✓						
B. INCIDENT AMBULANCES									
NAME	LOCATION	PARAMEDICS							
		YES	NO						
NONE									
7. HOSPITALS									
NAME	ADDRESS	TRAVEL TIME		PHONE	HELIPAD		BURN CENTER		
		AIR	GRND		YES	NO	YES	NO	
Methodist	Bruceville Rd	N/A	5 min			X			X
UC Davis	2315 Stockton Blvd	3 Min	10 min		X			X	
8. MEDICAL EMERGENCY PROCEDURES									
All injuries regardless of nature and/or severity will be reported to the incident Safety Officer or IC. The incident will be documented by the Safety Officer. If treatment is warranted, the Incident Commander will be notified for coordination and documentation/notification.									
9. PREPARED BY (MEDICAL UNIT LEADER) Cogswell					10. REVIEWED BY (SAFETY OFFICER) Boyd				

ORGANIZATION ICS-207	1. INCIDENT NAME SHASTA	2. DATE PREPARED 1/31/08	3. TIME PREPARED 1600	4. OPERATIONAL PERIOD 02/04/2008 0700- 1600
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SAFETY PLAN ICS-208	1. INCIDENT NAME SHASTA	2. DATE PREPARED 1/31/08	3. TIME PREPARED 1600	4. OPERATIONAL PERIOD 02/04/2008 0700- 1600
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THE INCIDENT COMMANDER AND OR/SAFETY OFFICER WILL ENSURE THE FOLLOWING:

1. **Pre-Burn Planning/Briefing Session:**

- Safety is the first priority.
- A briefing shall be conducted for all live fire participants before any burn evolutions begin.
- Report any and all injuries to the Safety Officer.
- All personnel must be in full PPE with SCBA.
- Firefighter accountability will be maintained for all personnel that enter the structure while an IDLH atmosphere is present. Accountability will be maintained with the “FATS” tag system.
- All personnel entering the structure shall have radio communications or remain in a group with radio communications.
- Any situation where a department member becomes lost, trapped or injured during the evolution will immediately broadcast “**MAYDAY-MAYDAY-MAYDAY**” on the radio followed by their circumstances and/or needs.
- “**EMERGENCY TRAFFIC**” will be transmitted at any time there is a situation that warrants immediate action or important information needs to be transmitted. (i.e. loss of pump pressure; intendment roof collapse, ect)
- An evacuation signal first broadcast by radio will be followed by air horn blasts as soon as practical. The evacuation signal for **ALL** personnel from the structure will be three air horn blasts repeated for 10 seconds. Additionally, a radio broadcast will be transmitted “**EVACUATE STRUCTURE**”. This order shall be repeated three times.
- If an evacuation is ordered, all personnel shall report to accountability immediately for PAR
- Prior to demolition of the structure, the safety officer will establish a collapse zone and exclude entry to all personnel. Prior to demolition of the structure, a final firefighter count will be conducted of all participants to ensure all personnel are accounted for.
- Assignments and responsibilities shall be clearly explained to all personnel
- All personnel shall become familiar with the building including all means of access and egress.

SAFETY PLAN ICS-208	1. INCIDENT NAME SHASTA	2. DATE PREPARED 1/31/08	3. TIME PREPARED 1600	4. OPERATIONAL PERIOD 02/04/2008 0700- 1600
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2. Building Inspection:

- All burn rooms shall have pre-determined ventilation holes and ventilation plan. Ensure all doors and windows can be opened from inside the building.
- Ceiling and/ or wall coverings made of extraordinarily flammable materials removed
- Drywall where necessary to help prevent extension
- Coordinate with Vent. Group for any necessary pre-cut holes and locations of all potential burns
- Ensure adequate egress routes and mark all exits
- Ceiling/ wall holes patched so as to prevent extension
- All exits shall be clearly marked with high contrast paint at floor level
- Carpet and padding removed, interior floor free of holes, sharp objects.
- All rooms shall be numbered in order of burn sequence.
- Ensure all utilities are secured, water heater or other closed tanks removed
- Ensure all glass removed and plywood mounted in a fashion so as to allow for rapid ingress/ egress, ventilation and/or hose movement
- No unnecessary materials or equipment are to remain in the burn area
- Inspect all doors, windows, walls, ceilings, stairways, railings, floors, or other structural or non-structural building components for damage or unsafe conditions
- Ensure utilities are secure, gas shut-off, electrical, etc.
- Ensure all means of access and egress are in a safe and operational condition

SAFETY PLAN ICS-208	1. INCIDENT NAME SHASTA	2. DATE PREPARED 1/31/08	3. TIME PREPARED 1600	4. OPERATIONAL PERIOD 02/04/2008 0700- 1600
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3. Fuel Materials:

- Flammable or combustible liquids **SHALL NOT** be used in structural live fire training evolutions.
- Only class A materials shall be used to create the desired fire volume and characteristics. Pressure treated wood, rubble, plastic materials or debris found in or around the structure shall not be used as fuel for live fire training evolutions

4. Safety Officer:

- Reports directly to the IC
- A Safety officer shall be appointed for all live fire training.
- The safety officer is responsible for the prevention of unsafe and elimination of unsafe conditions.
- The safety officer shall have the authority to intervene in any aspect of the operations to prevent accidents, unsafe acts or conditions from occurring.
- The safety officer shall provide for the safety of all personnel on scene. All unauthorized personnel shall be from entering the safety zone the live burn area (yellow barrier tape applied around the live burn area.)

5. Burn Prep:

- All burn materials will be in compliance with NFPA 1403.
- Piles will only be built large enough to create realistic conditions in a controlled environment. Unnecessarily large piles are prohibited
- All rooms with combustible floors will have burn piles constructed upon a drywall base to limit the extension through the floor.
- Maintain clear exit routes around burn piles
- Ensure a minimum of four attack lines are available, utilizing separate pumping units, each line capable of flowing a minimum of 150 gpm.
- Student attack lines shall be on a separate source than the safety line, also capable of flowing at least 150 gpm. Clearly identify nozzles for easy location of appropriate gates/ valves.

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6. Position Responsibilities:

IC:

- Oversees fireground operations.
- Has ultimate authority to stop operations at any time.
- Sets training objectives
- Approves IAP
- Scene safety.
- Coordination of fires
- Monitor activities to ensure safety
- Ensure building integrity prior to each fire
- Brief Instructors on responsibilities
- Communicate rotation of companies with assigned instructors
- Monitoring PARS

EMS:

- Reports directly to Support Branch Director
- Oversee medical treatment and transportation of injured firefighters.
- Provides the appropriate documentation for the treatment of injured firefighters.

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Fire Attack Group Supervisor:

- Reports directly to IC..
- The Attack Group Supervisor shall perform the duties of interior safety during all live fire training to monitor the fire and extinguish if necessary.
- The Attack Group Supervisor shall have full authority regardless of chain of command to evacuate the structure if the structure or fire conditions become unsafe.
- The Attack Group Supervisor is responsible for safety of all personnel in the structure and accountability of the interior division.
- Following each drill, a PAR shall be conducted to ensure all personnel are accounted for.
- One charged line shall be in place to protect the inside division and a path of egress at all times.
- Ignition of all fires must be initiated by verbal order from Operations Section Chief and confirmed by all other groups.
- All fires shall be limited to one or sometimes two fire rooms. The attack group and firing group shall time the lighting of burns and attack of fire to minimize the time that the fire is burning.
- The attack group and the ignition group shall limit the extension of the fire to the rooms of origin and the attic directly above the fire rooms.

Fire Attack Team Leader:

- Reports directly to Fire Attack Group Supervisor.
- Accountability for assigned firefighters.
- Proper PPE for recruits and on air when fire is set, *ready to enter when called by Firing Team Leader.*
- Hoseline ready with proper pattern and pressure.
- Aggressive attack on fire on direction from Firing Team Leader.
- Radio PAR to Operations on entering and exiting structure.

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Safety Line Team Leader:

- Reports directly to Attack Group Supervisor.
- Fires shall not be allowed to extend beyond rooms of origin. If this occurs, the burn will be treated as a working structure fire and the following steps are initiated:
 - Extinguish fire immediately.
 - Order ventilation
 - Notify the Division Supervisor of the situation and course of action.
 - Evacuate students *if necessary*.
- Safety line becomes attack line in an emergency situation.

Back-up Team Leader:

- Reports directly to Fire Attack Group Supervisor
- Maintains accountability for assigned firefighters
- Proper PPE for recruits with face pieces and gloves on, ready to go on air and enter when called by Operations
-
- Hoseline ready with proper pattern and pressure
- Radio PAR to Operations on entering and exiting structure

RIC Team Leader:

- Reports directly to Fire Attack Group Supervisor
- RIC Team Leader shall maintain accountability for all incident personnel within the structure.
- RIC Team Leader shall immediately report any missing/trapped personnel to the RIC team and a Mayday will be transmitted over the radio.
- The RIC Team will take the necessary actions to perform or assist with the Mayday.

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Outside Ventilation Team Leader (OVT):

- Reports directly to Fire Attack Group Supervisor.
- The OVT Leader shall perform the role of safety and responsible for the safety of all OVT personnel.
- The OVT Leader shall have the full authority, regardless of chain of command to ventilate the structure if needed.
- The structure shall be laddered with a minimum of two ladders.
- All rooms shall have a pre-determined ventilation plan coordinated with the Fire Attack Group Supervisor.
- The OVT Leader shall coordinate in advance with the Firing Team Leader and Attack Team Leader the location and order of all vent holes necessary in each room. These holes shall be marked and numbered to correspond with room numbers and burn sequence.
- The OVT Leader shall assess the condition of structure and extension of fire at all times.
- All attic fires shall have a pre-cut ventilation hole cut and covered with plywood for immediate vertical ventilation.

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Firing Group Supervisor:

- Reports directly to IC
- Coordinate fire sets with Fire Attack Group Supervisor.
- Follow fire set plan.
- Request permission from IC to light fires.
- Supervises Firing Team Leaders.

Firing Team Leader:

- Reports directly to Firing Group Supervisor.
- Coordinate fire sets with Firing Supervisor.
- Follow fire set plan.
- Request permission from Firing Group Supervisor to light fires.
- Supervise fire setting team.
- Following the ignition of a fire, the Firing Team Leader shall inform Operations and other companies and broadcast “Fire in the Hole”
- Call for Fire Attack to enter the structure.
- Transmits on the radio “**ATTACK-ATTACK-ATTACK**” when the conditions are ready for the fire attack team/

Firing Team:

- Reports directly to Firing Team Leader.
- Full PPE.
- Work in pairs.
- Set fires in rooms in proper sequence per fire set plan.

Exit safely out of the room before Fire Attack enters the structure

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Water Supply Team Leader:

- Reports directly to Support Director.
- Water Supply Team Leader is responsible for providing a continuous and reliable water supply for all operations.
- Water Supply Team Leader shall have the full authority, regardless of chain of command to evacuate structure if water supply fails or if water level reaches critical levels.
- Water Supply Team Leader shall order fire extinguished if primary water supply falls below 25%
- Water Supply Team Leader shall order fire extinguished and students evacuated if primary or secondary pumping engines fail.
- Water Supply Group shall provide six attack lines utilizing a redundant system of pumping, with each attack line supplied by two engines.

Rehab Team Leader:

- Reports directly to Support Director.
- Accountability for assigned firefighters
- Coordinates with EMS officer for medical care issues.
- Achieve training objectives: Proper cooling and hydration techniques
- PPE accountability and readiness
- Refill air bottles

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Emergency Procedures:

Should a situation arise where immediate evacuation becomes necessary, the following shall occur:

- Evacuate interior students and position safety line to protect egress.
- Have all personnel evacuated conduct a PAR.
- For missing/trapped firefighter, notify the RIC and Operations immediately.
- Once the students have been safely evacuated the instructors will move to the following positions:

Safety line become attack 1
 Attack and back up become attack 2
 Ignition Officer and RIC become RIC
 Ventilation stays ventilation

- All other tactical operations will be instructed by the Operations Chief
- Extinguish fire immediately *if possible*.
- Order vertical ventilation if needed for fire control purposes.
- Order horizontal ventilation of all openings.
- Notify the Accountability Officer of the situation and the number of personnel inside taking action.
- Once all students are out and accounted for, all Interior Division personnel evacuate the structure if necessary.