

INCIDENT ACTION PLAN



**HI-HVP-1800002096
PPL25B 1502**

August 16 0700 - August 20 1900, 2018

Keauhou Ranch Brush Fire



IAP



MAPS



"Adapt...Improvise...and Overcome"

INCIDENT OBJECTIVES	Incident Name Keauhou Ranch Brush Fire	Date 8/15/2018	Time 1800
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Operational Period
Thursday, August 16 0700 to Monday, August 20, 2018 1900

General Control Objectives for the Incident (include alternatives)

LEADERS INTENT:
The highest priority will be focused on minimizing risk to firefighters and the public by continually using the risk management process. It is the expectation that every person assigned in any type of leadership role provides the appropriate mitigation measures prior to engaging in any activity.

Coordinate actions with Volcano Emergency Incident Command Team to provide appropriate responder and public evacuation time frames.

INCIDENT OBJECTIVES:

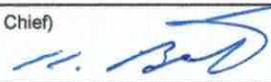
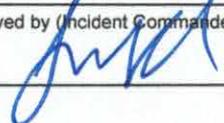
- **Adopt decisions and actions that thoughtfully consider firefighter and public safety especially with respect to communications, driving, aviation and volcanic activity.**
- **Maintain full integration under incident command ensuring stakeholder concerns are addressed for the incident.**
- **Coordinate closely with local resources in order to place a high priority on reducing the threat to Kipuka Ki, Kipuka Puulu, Kapapala Ranch, Keauhou Ranch, rare and protected plant and animal species, cultural resources and associated infrastructure.**
- **Where practical, minimize suppression impacts through the use of existing natural barriers and trails.**
- **Utilize resources to maximize efficiency and minimize cost expenditures.**

CONTROL OBJECTIVES:

- **Hold fire to existing perimeter.**

Weather Forecast for Period

Attachments (mark if attached)					
X	Organization List - ICS 203	X	Medical Plan - ICS 206	X	Safety Message
X	Div. Assignment Lists - ICS 204	X	Incident Map	X	Weather
X	Communications Plan - ICS 205	X	Traffic Plan	<input checked="" type="checkbox"/>	Human Recourses

Prepared by (Planning Section Chief) Ken Bates, PSC 2 	Approved by (Incident Commander) 
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ORGANIZATION ASSIGNMENT (ICS 203)

1. Incident Name Keauhou Ranch Brush Fire		2. Operational Period:	Date From: 8/16/2018 Time From: 0700	Date To: 8/20/2018 Time To: 1900
3. Incident Commander(s) and Command Staff:		7. Operations Section:		
IC	Justin Yoniles	Day Operations	Matt Desimone	
Safety Officer		Night Operations		
Public Info. Officer	Mike Theune	Planning Ops		
Liaison Officer		Branch		
Human Resources		Branch Director		
4. Agency/Organization Representatives:		Division/Group		
Hawaii Volcanoes National Park	Cindy Orlando	Division/Group		
Hawaii County Fire	Darren Rosario	Branch Director		
Kapapala Ranch	Lani Cran	Division/Group	A / B	Brent Webb
Keauhou Ranch	Keala Kanakaole	Division/Group	C / D	Brent Webb
5. Planning Section:		Division/Group		
Chief	Greg Funderburk			
Deputy				
Resources Unit		Branch		
Situation Unit		Branch Director		
Resource Advisor	Rhonda Loh / Summer Roper Sierra McDaniels	Division/Group		
Demobilization Unit		Division/Group		
GISS				
		Night		
		Division/Group	Night	Unstaffed
6. Logistics Section				
Chief				
Deputy		Air Operations Branch		
Technical Support Spec		Air Ops Branch Dir.		
Ordering / Food Unit		ASGS		
Supply Unit				
Facilities Unit		8. Finance/Administration Section:		
Ground Support Unit		Chief		
RCDM		Deputy		
Equipment Manager		Time Unit		
Communications Unit		Procurement Unit		
Medical Unit		Comp/Claims Unit		
		Cost Unit		
7. Prepared by: K. Bates, SoCal2		Position/Title: PSC2		Signature: 
ICS 203	IAP Page	Date/Time: 8/15/2018 2000		

WEATHER AND FIRE BEHAVIOR FORECAST

FORECAST NUMBER: 5	OPERATIONAL PERIOD: August 16 - 20, 2018
FIRE NAME: Keauhou Ranch Brush Fire	Thursday 0700 – Monday 1900
DATE ISSUED: 8/14/18 1700hrs	
UNIT: HI-HVP-1800002096	SIGNED: 
	Typed/printed: SITL, K. VanWig

INPUTS

Extended forecast is an estimate by NWS and are subject to change.

Thursday

Scattered showers, mainly after noon. Cloudy, with a high near 71. Calm wind becoming east southeast 5 to 7 mph. Chance of precipitation is 30%. New precipitation amounts of less than a tenth of an inch possible.

Thursday Night

Isolated showers before midnight. Cloudy, with a low around 51. Light east wind. Chance of precipitation is 20%.

Friday

Scattered showers after noon. Cloudy, with a high near 71. East wind 3 to 7 mph. Chance of precipitation is 40%. New precipitation amounts of less than a tenth of an inch possible.

Friday Night

Scattered showers. Cloudy, with a low around 51. Northeast wind around 6 mph. Chance of precipitation is 30%. New precipitation amounts of less than a tenth of an inch possible.

Saturday

Scattered showers, then showers likely and possibly a thunderstorm after noon. Cloudy, with a high near 71. East wind 6 to 8 mph. Chance of precipitation is 70%.

Saturday Night

Showers likely and possibly a thunderstorm. Cloudy, with a low around 51. North wind 3 to 7 mph. Chance of precipitation is 60%.

Sunday

Showers likely, mainly before noon. Cloudy, with a high near 71. Light and variable wind becoming northeast 5 to 10 mph in the morning. Chance of precipitation is 60%.

Sunday Night

Scattered showers before midnight. Mostly cloudy, with a low around 51. Northeast wind 8 to 10 mph. Chance of precipitation is 30%.

Monday

Scattered showers. Mostly sunny, with a high near 71. Northeast wind 8 to 13 mph. Chance of precipitation is 30%.

OUTPUTS

FIRE BEHAVIOR

GENERAL:

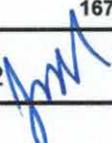
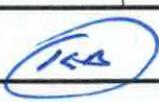
The fire's main influence is heavy fuels in Koa and Ohi'a forested area with non-native grass and brush understory. The fire has been dependent upon wind alignment. Fire still has potential to spread into light flashy fuels as they dry under the lower humidity. Winds could cause fire weakened trees to fall unexpectedly.

Fire Behavior for this period will be minimal. 100 and 1000 hour fuels are still holding heat, expect smoldering with visible smoke to increase as fuels dry throughout each day.

SAFETY

- Lighter fuels will become more receptive to fire spread throughout each day.
- Falling snag hazard.

INCIDENT RADIO COMMUNICATIONS PLAN		Incident Name		Date/Time Prepared		Operational Period Dates/Time			
		Keauhou Ranch Fire		08/15/18 1600		08/16/18-0700--08/20/18-1900			
Zn / Ch	Function	Channel Name/Trunked Talkgroup	Assignment	RX Freq	RX Tone/NAC	TX Freq	TX Tone/NAC	Mode A, D, M	Remarks
1	Dispatch	MLOA D	All Divisions	170.3625	131.8/1318	164.1625	131.8/1318	D	Volcano Dispatch Digital
2	Dispatch	MLOA A	All Divisions	170.3625	131.8/526	164.1625	131.8/526	A	Volcano Dispatch Analog
3	Tactical	TAC2-D	DIV A/B	168.5000	3966.0	168.5000	3966.0	D	
4	Tactical	TAC2-A	DIV A/B	168.5000	0.0	168.5000	0.0	A	
4	Air to Ground	NPS A2G	All Divisions	167.0750	0.0	167.0750	0.0	A	
6		Blank							
7		Blank							
8		Blank							
9		Blank							
10		Blank							
11		Blank							
12		Blank							
13		Blank							
14		Blank							
15		Blank							
16/20	Emergency only	GUARD	All Divisions	168.6250	0.0	168.6250	110.9	A	T1 - AIR GUARD - emerg. use only
Prepared By (Communications Unit Leader)		Chris Perry		Incident Location		Latitude, Longitude			
Deviation is assumed to be narrow band unless otherwise noted in the remarks. Mode refers to either "A" (analog), "D" (digital) or "M" (mixed mode). 1/14/14 v.5									

ASSIGNMENT LIST		1. Branch	2. Division/Group			
			DIV C / D			
3. Incident Name		4. Operational Period			Time: 0700 - 1900	
Keauhou Ranch Brush Fire		Date: 8/16/2018 - 8/20/2018				
5. Operations Personnel						
Operations Chief	Matt Desimone		Division/Group Supervisor	Brent Webb		
Branch Director			Air Op's Branch Director			
6. Resources Assigned This Period						
Strike Team/Task Force/ Resource Designator	Last Shift	Leader	No. Pers.	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time
ENG E602	local	OLA MEREIROS	2	N	ICP 0700	ICP 1900
WT2 TENDER E301	local	AL AVILES	2	N	ICP 0700	ICP 1900
7. Work Assignments						
Mop up as appropriate with firefighter safety considerations taken into account.						
SNAG Mauna Loa Rd as appropriate for access and firefighter safety.						
Monitor command channels for IA responsibilities as directed by Operations.						
Coordinate with READS.						
8. Special Instructions						
GPS old powerline insulators found for READS.						
Function	Frequency - RX	Frequency - TX	Tone	Channel	Comments	
Command	170.3625	164.1625	131.8/1318	MLOA D	Volcano Dispatch	
Command	170.3625	164.1625	131.8/526	MLOA A		
Tactical	168.2000	168.2000	0.0	NIFC T2		
Air to Ground	167.0750	167.0750	0.0	Air Tac		
Prepared by (RESL) Josh Clark, SoCal2 		Approved by (PSC) Ken Bates, SoCal2 		Date	Time	
				8/15/2018	2000 hrs	

INCIDENT RADIO COMMUNICATIONS PLAN		Incident Name		Date/Time Prepared		Operational Period Date/Time			
Keauhou Ranch Fire		08/15/18 1600		08/16/18-0700--08/20/18-1900					
Zn / Ch	Function	Channel Name/Trunked Talkgroup	Assignment	RX Freq	RX Tone/NAC	TX Freq	TX Tone/NAC	Mode A, D, M	Remarks
1	Dispatch	MLOA D	All Divisions	170.3625	131.8/1318	164.1625	131.8/1318	D	Volcano Dispatch Digital
2	Dispatch	MLOA A	All Divisions	170.3625	131.8/526	164.1625	131.8/526	A	Volcano Dispatch Analog
3	Tactical	TAC2-D	DIV A/B	168.5000	3966.0	168.5000	3966.0	D	
4	Tactical	TAC2-A	DIV A/B	168.5000	0.0	168.5000	0.0	A	
4	Air to Ground	NPS A2G	All Divisions	167.0750	0.0	167.0750	0.0	A	
6		Blank							
7		Blank							
8		Blank							
9		Blank							
10		Blank							
11		Blank							
12		Blank							
13		Blank							
14		Blank							
15		Blank							
16/20	Emergency only	GUARD	All Divisions	168.6250	0.0	168.6250	110.9	A	T1 - AIR GUARD - emerg. use only
Prepared By (Communications Unit Leader)		Chris Perry		Incident Location		Latitude, Longitude			

Deviations is assumed to be narrow band unless otherwise noted in the remarks. Mode refers to either "A" (analog), "D" (digital) or "M" (mixed mode). 1/14/14 v.5

Keauhou Ranch Brush Fire – Safety Message

INCIDENT #HI-HVP-1800002096	DATE: 0700 8/16/2018 To 8/20/2018 1900
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Hazard Trees

Situational Awareness: Survey your work area for hazard trees (green or black) early in the shift.

Flag, Avoid and Notify: Flag any identified hazard trees and notify your supervisor and any other potentially impacted fire personnel.

Post Lookouts to help secure high risk areas.

Be alert for changing conditions: Wind increases the hazard. Be aware of local diurnal wind patterns. Avoid working under burned trees if winds increase appreciably.

Make a plan: Make your plan to reposition to a more secure area if wind conditions dictate **PRIOR** to the need arising. Don't wait until the last minute to execute the plan.

Hydration

- Working in the higher elevations increases the need to hydrate.
- You should be drinking water all day long. Start the day with a drink of water. Don't allow yourself to become thirsty.
- Take extra water, and don't hesitate to ask for more water.
- Monitor your co-workers mental status on real hot days.
- Leave the energy drinks on the store shelves- it won't do you any good!

See Something Say Something, Communicate Safety!

- **Take Charge** of assigned resources.
- **Motivate** firefighters with a "can do safely" attitude.
- **Demonstrate Initiative** by taking action in the absence of orders.
- **Communicate** by giving specific instructions and asking for feedback!
- **Supervise** at the scene of the action.

(From "Operational Leadership" page v of the IRPG)

Prepared by: Paul Leusch SOF2(t)

Safety zones and escape routes... know where they are *before* you need them!!



3. SAFETY ZONES AND ESCAPE ROUTES NOT IDENTIFIED

EVACUATION PROCEDURE

⚠ UNSAFE CONDITIONS ⚠

- In the event that conditions change resulting in an unsafe situation for park/incident staff, on-site Operations and Safety personnel will determine the need for, and extent of evacuations. This could include SO₂ and particulate (PM2.5) at “red” levels or higher, continuous serious earthquakes, shifting of the winds causing significant ash fall, etc.
 - **Notification:**
 - Dispatch/Communications radio announcement
 - Send Word Now messaging
 - **What to do:** Without delay, evacuate the affected area using the closest available route. Evacuate eastbound or westbound depending on instructions given in notification, your location, and accessible routes.
 - **Primary Route**
 - Crater Rim Drive out the entrance station, to Hwy 11
 - **Secondary Routes**
 - Emergency Access Gates to Hwy 11 from
 - Mauna Loa Rd / Crater Rim Dr.
 - Back of KMC / Pi'i Mauna Rd.
 - Escape Rd / Hwy 11
 - **Rally at:**
 - *Kea'au* : Robert C. Shipman Park (Volcano Rd. Kea'au, HI. 96749)
 - *Panalu'u*: Black Sand Beach (96-876 Government Rd. Panalu'u, HI. 96778)



*** CATAclySMIC ERUPTION ***

- In the event of a cataclysmic eruption, resulting in a full evacuation of HAVO:
 - **Notification:**
 - Dispatch radio announcement
 - Send Word Now messaging
 - **What to do:** IMMEDIATELY evacuate the area using the closest available route. Evacuate eastbound or westbound depending on your location and accessible routes.
 - **Primary Route**
 - Crater Rim Drive out the entrance station, to Hwy 11
 - **Secondary Routes**
 - Emergency Access Gates to Hwy 11 from
 - Mauna Loa Rd / Crater Rim Dr.
 - Back of KMC / Pi'i Mauna Rd.
 - Escape Rd / Hwy 11
 - **Rally at:**
 - *Kea'au* : Robert C. Shipman Park (Volcano Rd. Kea'au, HI. 96749)
 - *Panalu'u*: Black Sand Beach (96-876 Government Rd. Panalu'u, HI. 96778)

The Operations Section Chief will work with Division Group Supervisors to ensure all personnel listed on the divisions ICS-204 form are accounted for.

EVACUATION

Medical Plan

1. Incident Name: Keauhou Ranch Brush Fire	2. Operational Period: 8/16/18 0700 – 8/20/18 1900
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3. Medical Aid Stations:			
Name	Location	Contact Number(s)/Frequency	Paramedic on Site?
HCFD Station #19A	Cooper Center, 19-4030 Wright Road, Volcano, HI 96785	808-967-7710 (Hours: 0900-1800)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

4. Transportation (indicate air or ground):			
Ambulance Service	Location	Contact Number(s)/Frequency	Level of Service
HCFD Station #19A	Cooper Center, 19-4030 Wright Road, Volcano, HI 96785	808-967-7710 (Hours: 0900-1800)	<input checked="" type="checkbox"/> ALS <input type="checkbox"/> BLS
HCFD Station #11A	Naalehu, 95-1163 Kaalaiki Rd. Naalehu, HI 96772	808-939-2508	<input checked="" type="checkbox"/> ALS <input type="checkbox"/> BLS
HCFD Station #10	Pahoa, 15-2605 Keaau-Pahoa Rd., Pahoa, HI 96778	808-965-2708	<input checked="" type="checkbox"/> ALS <input type="checkbox"/> BLS
HCFD Station #5	Keaau, 16-579 Old Volcano Rd., Keaau, HI 96749	808-966-5809	<input checked="" type="checkbox"/> ALS <input type="checkbox"/> BLS
			<input type="checkbox"/> ALS <input type="checkbox"/> BLS

5. Hospitals:							
Hospital Name	Address, Latitude & Longitude if Helipad	Contact Number(s)/Frequency	Travel Time		Trauma Center	Burn Center	Helipad
			Air	Ground			
Hilo Medical Center	1190 Wainuenue Avenue Hilo HI 96720	808-923-3000	20	45	<input checked="" type="checkbox"/> Yes Level: 3	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Queen's Medical Center	1301 Punchbowl St., Honolulu, HI 96813	808-691-1000			<input checked="" type="checkbox"/> Yes Level: 2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Straub Medical Center	888 S. King St., Honolulu, HI 96813	808-522-4060			<input checked="" type="checkbox"/> Yes Level: 3	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Urgent Care Keaau	16-612 Old Volcano Rd., Keaau, HI 96749	808-966-7942		35	<input type="checkbox"/> Yes Level: 0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Ka'u Hospital	1 Kamani St., Pahala, HI 96777	808-932-4200		35	<input type="checkbox"/> Yes Level: 0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

6. Special Medical Emergency Procedures:
Maintain emergency access routes in park to ensure timely response of Hawaii County Fire Department. If a medical emergency occurs, contact HAVO Dispatch via radio or by phone at 808-985-6170.
<input type="checkbox"/> Check box if aviation assets are utilized for rescue. If assets are used, coordinate with Air Operations.

7. Prepared by (Medical Unit Leader): Name: Gena Fowlkes SoCal2
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8. Approved by (Safety Officer): Name: Paul Leusch SoCal2
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ICS 206	Medical Plan	Date/Time: 8/15/2018 2000
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MEDICAL PLAN (ICS 206 WF)

Controlled Unclassified Information//Basic

Medical Incident Report

FOR A NON-EMERGENCY INCIDENT, WORK THROUGH CHAIN OF COMMAND TO REPORT AND TRANSPORT INJURED PERSONNEL AS NECESSARY.

FOR A MEDICAL EMERGENCY: IDENTIFY ON SCENE INCIDENT COMMANDER BY NAME AND POSITION AND ANNOUNCE "MEDICAL EMERGENCY" TO INITIATE RESPONSE FROM IMT COMMUNICATIONS/DISPATCH.

Use the following items to communicate situation to communications/dispatch.

1. CONTACT COMMUNICATIONS / DISPATCH (Verify correct frequency prior to starting report)

Ex: "Communications, Div. Alpha. Stand-by for Emergency Traffic."

2. INCIDENT STATUS: Provide incident summary (including number of patients) and command structure.

Ex: "Communications, I have a Red priority patient, unconscious, struck by a falling tree. Requesting air ambulance to Forest Road 1 at (Lat./Long.) This will be the Trout Meadow Medical, IC is TFLD Jones. EMT Smith is providing medical care."

Severity of Emergency / Transport Priority	<input type="checkbox"/> RED / PRIORITY 1 Life or limb threatening injury or illness. Evacuation need is IMMEDIATE <i>Ex: Unconscious, difficulty breathing, bleeding severely, 2° - 3° burns more than 4 palm sizes, heat stroke, disoriented.</i> <input type="checkbox"/> YELLOW / PRIORITY 2 Serious injury or illness. Evacuation may be DELAYED if necessary. <i>Ex: Significant trauma, unable to walk, 2° - 3° burns not more than 1-3 palm sizes.</i> <input type="checkbox"/> GREEN / PRIORITY 3 Minor Injury or illness. Non-Emergency transport <i>Ex: Sprains, strains, minor heat-related illness.</i>	
Nature of Injury or Illness & Mechanism of Injury		<i>Brief Summary of Injury or Illness (Ex: Unconscious, Struck by Falling Tree)</i>
Transport Request		<i>Air Ambulance / Short Haul/Hoist Ground Ambulance / Other</i>
Patient Location		<i>Descriptive Location & Lat. / Long. (WGS84)</i>
Incident Name		<i>Geographic Name + "Medical" (Ex: Trout Meadow Medical)</i>
On-Scene Incident Commander		<i>Name of on-scene IC of Incident within an Incident (Ex: TFLD Jones)</i>
Patient Care		<i>Name of Care Provider (Ex: EMT Smith)</i>

3. INITIAL PATIENT ASSESSMENT: Complete this section for each patient as applicable (start with the most severe patient)

Patient Assessment: See IRPG page 106

Treatment:

4. TRANSPORT PLAN:

Evacuation Location (if different): (Descriptive Location (drop point, intersection, etc.) or Lat. / Long.) Patient's ETA to Evacuation Location:

Helispot / Extraction Site Size and Hazards:

5. ADDITIONAL RESOURCES / EQUIPMENT NEEDS:

Example: Paramedic/EMT, Crews, Immobilization Devices, AED, Oxygen, Trauma Bag, IV/Fluid(s), Splints, Rope rescue, Wheeled litter, HAZMAT, Extrication

6. COMMUNICATIONS: Identify State Air/Ground EMS Frequencies and Hospital Contacts as applicable

Function	Channel Name/Number	Receive (RX)	Tone/NAC *	Transmit (TX)	Tone/NAC *
COMMAND					
AIR-TO-GRND					
TACTICAL					

7. CONTINGENCY: Considerations: If primary options fail, what actions can be implemented in conjunction with primary evacuation method? Be thinking ahead.

8. ADDITIONAL INFORMATION: Updates/Changes, etc.

REMEMBER: Confirm ETA's of resources ordered. Act according to your level of training. Be Alert. Keep Calm. Think Clearly. Act Decisively.

Suppression Repair

0700 08/16 to 1900 08/20/2018

Per resource advisor, remove snags that have the potential to impact the roadway and harm vehicles and persons. Stumps should be flush cut to within 3 inches of the ground. Slash can be left in place and at least 4 ft away from road shoulder. Removal is focused within a 30 ft corridor on each side of the Mauna Loa Road. Removal includes trees with 80% or greater char height on trunks. Trees that are less than 80% char height do not need to be removed unless they show clear evidence of failing.

Beyond the 30 ft corridor, trees that show clear signs of failing and the potential to impact the roadway should be removed.



Do not remove



Remove

Keauhou Ranch
Brush Fire
HI-HVP-1800002096

Transportation Map
August 13, 2018



Cataclysmic
Escape Route
Kilauea Summit
To Keaua
Shipman Park
via Hwy 11

Keauhou Access
Back of Pii Mauna Dr
Volcano Golf Course

ICP
In Park Entrance
First Left
Next Right

Cataclysmic
Escape Route
Kilauea Summit
to Pahoa Black
Sands Beach
via Hwy 11

Kapāpala Access
Mauna Loa Rd to
Powerline Rd

