

**HAM LAKE INCIDENT  
INCIDENT ACTION PLAN**

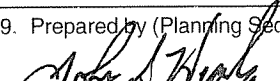
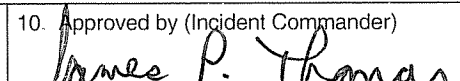


**MAY 14, 2007**

**DAY OPERATIONAL PERIOD  
BROYLES GREAT BASIN  
INCIDENT MANAGEMENT TEAM**

**NAD 83  
LAT/LONG DEGREES DECIMAL MINUTES**



<b>Incident Objectives</b>	1. Incident Name <p style="text-align: center;">HAM LAKE</p>	2. Date Prepared <p style="text-align: center;">05/13/07</p>	3. Time Prepared <p style="text-align: center;">0900</p>															
4. Operational Period <p style="text-align: center;">05/14/07   Monday   DAY Shift 0630 - 2000</p>																		
5. General Control Objectives for the incident (include alternatives) <ol style="list-style-type: none"> <li>1. Ensure the safety of all personnel both public and assigned through use of the Incident Safety Analysis (ICS 215A) process and by continually applying the Risk Management Process (IRPG page 1). Ensure appropriate fatigue management.</li> <li>2. The primary suppression objective is to protect structures and improvements on the upper Gunflint Trail.</li> <li>3. Minimize impacts on wilderness and historical resources by incorporating wilderness management objectives and appropriate resource concerns.</li> <li>4. Keep the public and cooperators well informed with daily updates, press releases, display boards and informational meetings.</li> <li>5. Implement cost effective strategies within the limits determined by the WFSA.</li> <li>6. Coordinate management actions and administrative reporting with Ontario Type 1 Incident Management Team.</li> </ol>																		
6. Weather Forecast for Period  <p>Refer to the Fire Weather Forecast.</p>																		
7. General Safety Message  <p>Refer to the Safety Message.</p>																		
8. Attachments (mark if attached) <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td><input checked="" type="checkbox"/> Organization List - ICS 203</td> <td><input checked="" type="checkbox"/> Incident Map</td> <td><input checked="" type="checkbox"/> Motorized Use Tracking</td> </tr> <tr> <td><input checked="" type="checkbox"/> Div. Assignment Lists - ICS 204</td> <td><input checked="" type="checkbox"/> Safety Message</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/> Communications Plan - ICS205</td> <td><input checked="" type="checkbox"/> Traffic Plan</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/> Medical Plan - ICS 206</td> <td><input checked="" type="checkbox"/> Fire Behavior</td> <td><input checked="" type="checkbox"/> Aviation Emergency Evacuation</td> </tr> <tr> <td><input checked="" type="checkbox"/> Air Operations Summary - ICS 220</td> <td><input checked="" type="checkbox"/> Human Resource Message</td> <td><input type="checkbox"/></td> </tr> </table>				<input checked="" type="checkbox"/> Organization List - ICS 203	<input checked="" type="checkbox"/> Incident Map	<input checked="" type="checkbox"/> Motorized Use Tracking	<input checked="" type="checkbox"/> Div. Assignment Lists - ICS 204	<input checked="" type="checkbox"/> Safety Message	<input type="checkbox"/>	<input checked="" type="checkbox"/> Communications Plan - ICS205	<input checked="" type="checkbox"/> Traffic Plan	<input type="checkbox"/>	<input checked="" type="checkbox"/> Medical Plan - ICS 206	<input checked="" type="checkbox"/> Fire Behavior	<input checked="" type="checkbox"/> Aviation Emergency Evacuation	<input checked="" type="checkbox"/> Air Operations Summary - ICS 220	<input checked="" type="checkbox"/> Human Resource Message	<input type="checkbox"/>
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<input checked="" type="checkbox"/> Medical Plan - ICS 206	<input checked="" type="checkbox"/> Fire Behavior	<input checked="" type="checkbox"/> Aviation Emergency Evacuation																
<input checked="" type="checkbox"/> Air Operations Summary - ICS 220	<input checked="" type="checkbox"/> Human Resource Message	<input type="checkbox"/>																
9. Prepared by (Planning Section Chief) 		10. Approved by (Incident Commander) 																

<b>ORGANIZATION ASSIGNMENT LIST</b>		<b>9. Operations Section</b>	
1. Incident Name <b>HAM LAKE</b>		Operations Section Chief	DAN BUCKLEY; STEVE RADDATZ
2. Date Prepared 05/13/07		Operations Section Chief	ROD COLLINS; DAN DALLAS(T)
3. Time Prepared 1655		<b>a. Branch I - Division/Groups</b>	
4. Operational Period 05/14/07 Monday DAY Shift 0630 - 2000		Division/Group <b>A</b>	
Position	Name	Division/Group <b>B</b>	M. WINKELMAN; R. HEAVIRLAND (t)
<b>5. Incident Commander and Staff</b>		Division/Group <b>C</b>	MIKE FRALICKS
Incident Commander / Deputy	PAUL BROYLES / JIM THOMAS	Division/Group <b>D</b>	LOUIS HARTJES
Canadian Incident Commander	DAVE MANOL	Division/Group <b>E</b>	T. ROACH; J. BENNETT (T)
Safety Officer	TONY BEITIA; JIM GRANT	Division/Group <b>W</b>	DAVE VINING; CHRIS VERO (T)
Information Officer	BILL PAXTON	Division/Group <b>Z</b>	T. DEMASTERS; C. HALL (T)
Liaison Officer	GUY PENCE	<b>b. Branch I - Division/Groups (contiued)</b>	
<b>6. Agency Representative</b>		Division/Group <b>STRUCTURE GRP 1</b>	TOM LYNCH
Agency	Name	Division/Group <b>STRUCTURE GRP 2</b>	CHRISTIAN RAMIREZ
USFS Agency Administrator	JIM SANDERS	Division/Group <b>PUBLIC SAFETY</b>	TOM KAFFINE
Agency Adm Rep / Trainee	JOHN WYTANIS / CARLEEN YOCUM	Division/Group <b>STAGING</b>	
Minnesota DNR	PAUL PETERSON	Division/Group <b>LIMA PEAK</b>	
Cook County Sheriff	MARK FALK	Division/Group <b>X / Y</b>	
Candian Liaison	RANDY CRAMPTON	Division/Group	
<b>7. Planning Section</b>		<b>c. Branch III - Division/Groups</b>	
Chief	CLARK NOBLE; JOHN HEALY	Branch Director	
Deputy		Deputy	
Resources Unit	ROSS CATRON	Division/Group	
Situation Unit	RICK THOLEN	Division/Group	
Documentation Unit		Division/Group	
Demobilization Unit	MADONNA LENGERICH	Division/Group	
Fire Behavior Analyst	TOM REID; TYLER DOGGETT(T)	Division/Group	
Human Resource Specialist	PAUL BRYANT, ANDREA PAYNE(T)	<b>d. Air Operations Branch</b>	
Training Specialist	DON WASHCO	Air Operations Branch Director	JEFF GARDETTO
GIS Specialist	MATT BETENSON; CORY BLACK	Helibase Manager	MICHAEL EILERS; CHRIS HAVENER
Computer Specialist	A. SAMPSON; L. LEEZER; A. PARK	Air Attack Supervisor	LARRY ZAJANC
Resource Advisor	TIM ENGRAV; SARA ERICKSON	Air Support Supervisor	STEVE BUDD-JACK
		Helicopter Coordinator	
		Air Tanker Coordinator	
<b>8. Logistics Section</b>		<b>10. Finance Section</b>	
Chief	MEGAN TIMONEY	Chief	CAROL BASS
Deputy	DUANE CIHLAR	Deputy	
Supply Unit	TIM KENNEDY; ROBERT HARPER	Time Unit	CHRISTINA FINLEY
Facilities Unit	ROSS BLUESTONE; LEE HUGHES	Procurement Unit	HENRY GAUSE
Ground Support Unit	BUTCH SMITH; GENE REED	Compensation/Claims Unit	DARLA SMITH
Communications Unit	MATT NILSEN	Cost Unit	CYNTHIA HIGBEE
Medical Unit	HARRY WHEELER	Prepared by (Resource Unit Leader)	
Security Unit	VAL NORMAN	D. Ross Catron	
Food Unit	ROY MILLER; DENNIS BROGGER		

*Fire Weather Forecast*

FORECAST NO: 7

NAME OF FIRE: HAM LAKE FIRE

PREDICTION FOR: Day Shift  
SHIFT DATE: May 14, Monday

UNIT: Superior National Forest  
SIGNED: Byron Paulson  
Incident Meteorologist  
David Morford  
IMET Trainee

TIME AND DATE  
FORECAST ISSUED: 2030 CDT 13 MAY, 2007

WEATHER DISCUSSION:

....A COLD FRONT AND LOW PRESSURE WILL MOVE THROUGH THE AREA TODAY...

Low pressure over the Dakotas will move east across the area today and push a cold front through the incident during the late afternoon. This system will bring a chance of showers and thunderstorms, shifting winds, and higher humidities. Much cooler air will enter the region Monday night and linger into Wednesday..

TODAY:

WEATHER: Mostly Cloudy. A chance of showers and thunderstorms.

TEMPERATURES: High 64 to 68.

HUMIDITY: Minimum 40 to 45%.

WINDS: All winds are 20 foot winds: Southeast 10 to 15 mph, in the morning, becoming southwest 10 to 15 mph early in the afternoon, then northwest 10 to 15 mph late. Some gusts to 20 mph through the day..

HAINES INDEX: 4 which low.

WINDS FOR AIROPS : 2000 feet above ground: Southwest winds 20 mph, west to northwest late.

TONIGHT:

WEATHER: Becoming partly cloudy. A chance of a shower.

TEMPERATURES: Low in the mid 40s.

HUMIDITY: Max above 85% by morning.

WINDS: Northwest 10 to 15 mph with gusts to 20 mph early.

TUESDAY:

Partly sunny. Chance of a light shower. High in the mid to upper 50s. Minimum humidity 30 to 35%. Northwest wind 10 to 15 mph with higher gusts.

TUESDAY NIGHT:

Partly cloudy and cooler. Low 35 to 40. Wind northwest 5 to 10 mph. Humidity above 75%.

EXTENDED FORECAST: WEDNESDAY AND THURSDAY:


Wednesday... Partly sunny. High 55 to 59.  
Thursday... Partly Sunny. High 65 to 70.

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<u>Weather Yesterday</u>	<u>Max temp</u>	<u>Min RH</u>
Seagull ICP RAWS	67	25%
Superior1 RAWS (near Div B)	64	26%
Loon Lake Helispot (H3)	62	25%

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## FIRE BEHAVIOR FORECAST

FORECAST NUMBER: 13	TYPE OF FIRE: WILDFIRE
FIRE NAME: Ham Lake Fire	OPERATIONAL PERIOD: May 14 – Day Operations
DATE ISSUED: May 13, 2007	TIME ISSUED: 2100
UNIT: Superior NF	SIGNED: T. Doggett – FBAN (trainee) 
WEATHER SUMMARY: See fire weather forecast.	

### FIRE BEHAVIOR

**GENERAL:**

**WATCH FOR GUSTY & VARIABLE WINDS ASSOCIATED WITH PASSING COLD FRONT  
OUTFLOW WINDS FROM THUNDERSTORMS CAN EXCEED 40 MPH**

Expect morning fire spread to the Northwest shifting to the Southeast by late afternoon with passing cold front winds. Winds can be gusty at times facilitating rapid rates of spread with single and group tree torching. Mid-range spotting up to .3 mile is possible. Re-burn potential exists for under burned fuels. Probability of ignition 30%. Drought conditions and consistent winds will reduce the effect of overnight precipitation on moderating fire behavior. Prediction based on less than .25 inch of rainfall. Forecast will overestimate fire behavior with larger amounts of rainfall.

**Expected rates of spread:** Head fire up to 20-40 chains/hr, Flanking fire 2-6 chains/hr & Backing fire .5-2 chain/hour.

**Expected flame lengths:** Head fire 6-10 feet, Flanking fire 2-3 feet & Backing fire 1-2 feet.

**Forecasted indices for today: ERC - 52 Extreme & BI - 54 Very High**

**SPECIFIC:****Divisions A, B, W & Z**

Morning through mid-day will provide the best opportunity for mop-up, direct line construction and holding operations. Variable winds with potential gusts throughout the day, especially in the afternoon, will pose the greatest threat to securing fireline. Snags continue to pose a threat in higher winds.

**Divisions C & D**

Most favorable conditions for direct line construction will exist throughout the morning into mid-day. Unburned and under burned areas will be exposed to different wind directions throughout the day increasing opportunity for active fire behavior. Snags continue to pose a threat as shallow root systems and duff continue to burn out.

**Division E**

Unburned perimeter and under burned fuels will continue to pose a threat especially in the afternoon with Northwest winds. Potential for spotting and short lived runs to the Southeast with associated afternoon winds. Any thunderstorm winds will adversely effect firing operations.

**Structure Groups 1 & 2, Divisions X & Y**

Conditions will be most favorable to continue mop-up and securing structures along the Gunflint Trail during the morning hours into mid-day. Afternoon Northwest winds will have the greatest effect on unburned interior and under burned fuels favoring single and group tree torching with associated mid-range spotting. Snags continue to pose a threat in higher winds.

**AIR OPERATIONS:**

Watch for erratic winds, downdrafts and lightning around thunderstorms. Smoke during morning inversions and during the burning period may obscure visibility.

### SAFETY

**Watch the smoke column as movement and dark color will be an early indicator of increased fire activity.**



<b>Division Assignment List</b>	1. Branch	2. Division/Group
		<b>B</b>

3. Incident Name HAM LAKE	4. Operational Period 05/14/07 Monday DAY Shift 0630 - 2000
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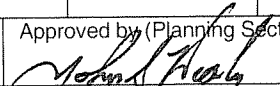
5. Operations Personnel			
Operations Chief	DAN BUCKLEY; STEVE RADDATZ	Division/Group Supervisor	MARK WINKELMAN; ROBERT HEAVIRLAND (T)
Operations Chief	ROD COLLINS; DAN DALLAS(T)	Air Tactical Group Super.	LARRY ZAJANC
Branch Director		Safety Officer	TONY BEITIA; JIM GRANT

6. Resources Assigned this Period					
Strike Team/Task Force/ Resource Designator	Leader	Num of Pers.	Trans. Y/N	Drop Off PT./Time	Pick Up PT./Time
HC1;MORMON LAKE IHC;C-14	MATT CAOUCETTE	20	N	BASE / 0630	BASE / 2000
HC2;MFC #1;C-2	RANDALL WEST	20	N	BASE / 0630	BASE / 2000
HC2;WIC #3;C-12	TIMOTHY JOHNSON	20	N	BASE / 0630	BASE / 2000
ENG4;RED ROCK #5;E-85	PETER STEPHENSON	3	N	BASE / 0630	BASE / 2000
ENG4;ENG 470 FIRE TRAX;E-91	KELLY MCHENRY	3	N	BASE / 0630	BASE / 2000
ENG4;ENG NAX-72 T6;E-90	MAX BORINO	2	N	BASE / 0630	BASE / 2000
ENG4;AURORA FD;E-33	KENT DICKINSON	3	N	BASE / 0630	BASE / 2000
ENG6;ENGINE 9504;E-92	THOMAS SAYLORS	3	N	BASE / 0630	BASE / 2000
ENG6;LAKELAND FD;E-36	JEREMY NISSILE	2	N	BASE / 0630	BASE / 2000
ENG6;LEECH LAKE #1;E-23	DUANE BEBEAU	3	N	BASE / 0630	BASE / 2000
ENG6;LEECH LAKE 2;E-19	TERRY OCONNOR	2	N	BASE / 0630	BASE / 2000
ENG6;ZIMMERMAN 4399;E-34	MIKE PELTIER	3	N	BASE / 0630	BASE / 2000
ENGU;NODWELL #3;E-29	DAVE ROKEH	2	N	BASE / 0630	BASE / 2000
ENGU;NODWELL #1;E-30	TODD BERGH	2	N		
DOZ1;BAUTCH CONSTRUCTION;E-50	STAN BAUTCH	1	N	BASE / 0630	BASE / 2000
DOZ3;BAUTCH CONSTRUCTION;E-51	STAN BAUTCH JR	1	N	BASE / 0630	BASE / 2000
DOZ2;RASMUSSEN;E-46	RASMUSSEN	1	N	BASE / 0630	BASE / 2000
continued on next page					

7. Control Operations  
Secure and hold line from Gunflint Lake south to Loon Lake, then south to Gunflint Trail. Coordinate structure protection with Structure Group 2. Mop up spot fire west of line.

8. Special Instructions  
Engage and disengage as appropriate in response to fire behavior. All personnel traveling on the water MUST have water safety training. Order canoe and boats by 1500 of the day prior to their need.

**Know what your fire is doing at all times!**

9. Division/Group Communications Summary							
Function	Frequency - RX	Frequency - TX	Tone	System	Channel	System	Channel
Command		REFER	TO	COMMO	PLAN		
Tactical Div/Group							
Logistics							
Air to Ground							
Prepared by (Resource Unit Leader) D. Ross Catron		Approved by (Planning Section Chief) 			Date Prepared 05/13/07	Time Prepared 1348	

**Final**





<b>Division Assignment List</b>	1. Branch	2. Division/Group <b>C</b>
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3. Incident Name <b>HAM LAKE</b>	4. Operational Period <b>05/14/07 Monday DAY Shift 0630 - 2000</b>
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5. Operations Personnel			
Operations Chief	DAN BUCKLEY; STEVE RADDATZ	Division/Group	MIKE FRALICKS
Operations Chief	ROD COLLINS; DAN DALLAS(T)	Air Tactical Group	LARRY ZAJANC
Branch Director		Safety Officer	TONY BEITIA; JIM GRANT

6. Resources Assigned this Period					
Strike Team/Task Force/ Resource Designator	Leader	Num of Pers.	Trans. Y/N	Drop Off PT./Time	Pick Up PT./Time
HC1;ROGUE RIVER HOTSHOTS;C-15	RANDALL LEHMAN	18	N	BASE / 0630	BASE / 2000
HC1;SIERRA HOTSHOTS IH;C-8	KENNETH JORDAN	22	N	BASE / 0630	BASE / 2000
HC2IA; INDIANA #1; C-7	NATE ORSBURN	18	N	BASE / 0630	BASE / 2000
ENG4;ENGINE BLM 241;E-143	BRIAN HUBBELL	5	N	BASE / 0630	BASE / 2000
DOZ3;TERRA FIRMA;E-43	PAUL JACOBSON	1	N	BASE / 0630	BASE / 2000
TFLD	JESSE LOPEZ	1	N	BASE / 0630	BASE / 2000
TFLD(T)	MIKE CROOK	1	N	BASE / 0630	BASE / 2000
SOF2	CHAD STEWART	1	N	BASE / 0630	BASE / 2000
DOZB	JEREMY HEDRICK	1	Y	BASE / 0630	BASE / 2000
EMTB	ZEKE SMITH	1	N	BASE / 0630	BASE / 2000

7. Control Operations  
 Contain fire with direct attack working south from Gunflint Trail south to DIV C/D break. Do not open Banadad Ski Trail with mechanized equipment. Priority for air support.

8. Special Instructions  
 Engage and disengage as appropriate in response to fire behavior. All personnel traveling on water MUST have water safety training. Order canoes and boats for tomorrow's shift by 1500 of the day prior to their need.

**Know what your fire is doing at all times!**

9. Division/Group Communications Summary							
Function	Frequency - RX	Frequency - TX	Tone	System	Channel	System	Channel
Command	<b>Refer to</b>	<b>Commo</b>	<b>Plan</b>				
Tactical							
Logistics							
Air to Ground							

Prepared by (Resource Unit Leader) D. Ross Catron	Approved by (Planning Section Chief) 	Date Prepared 05/13/07	Time Prepared 1354
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<b>Division Assignment List</b>	1. Branch	2. Division/Group <b>D</b>
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3. Incident Name <b>HAM LAKE</b>	4. Operational Period <b>05/14/07 Monday DAY Shift 0630 - 2000</b>
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**5. Operations Personnel**

Operations Chief	DAN BUCKLEY; STEVE RADDATZ	Division/Group Supervisor	LOUIS HARTJES
Operations Chief	ROD COLLINS; DAN DALLAS(T)	Air Attack Supervisor	LARRY ZAJANC
Branch Director		Safety Officer	TONY BEITIA; JIM GRANT

**6. Resources Assigned this Period**

Strike Team/Task Force/ Resource Designator	Leader	Num of Pers.	Trans Y/N	Drop Off PT./Time	Pick Up PT./Time
HC1;SILVER CITY HOTSHOTS;C-27	CATHLEEN LOWE	21	N	BASE / 0630	BASE / 2000
HC1;KINGS RIVER RHC;C-22	ISAAC NAYLOR	19	N	BASE / 0630	BASE / 2000
HC1;PLUMAS IHC;C-16	JACK SEVELSON	20	N	BASE / 0630	BASE / 2000
HC2;GRAYBACK #7B;C-24	GUY SPARKS	20	N	BASE / 0630	BASE / 2000
WILDLAND S/T #6 (includes engines E-198, E-199, E-200, E-201, and E-202)	AVERY THOMPSON	13	N	BASE / 0630	BASE / 2000
DOZ1;VERN HOFF;E-45	VERN HOFF	1	N	BASE / 0630	BASE / 2000
FALB	ROBERT MONROE	1	N	BASE / 0630	BASE / 2000
FALB	JASON COOPER	1	N	BASE / 0630	BASE / 2000
SOF2	ROBERT KARI	1	N	BASE / 0630	BASE / 2000
DOZB	KEVIN COX	1	N	BASE / 0630	BASE / 2000
DOZB	DAN CASTILLO(T)	1	N	BASE / 0630	BASE / 2000

**7. Control Operations**  
 Contain fire with direct attack working south from Gunflint Trail to DIV C/D break. Do not open Banadad Ski Trail with mechanized equipment. Priority for air support.

**8. Special Instructions**  
 Engage and disengage as appropriate in response to fire behavior. All personnel traveling on water MUST have water and boat training before going onto the water. Order canoes and boats by 1500 of the day prior to their need.

**Know what the fire is doing at all times!**

**9. Division/Group Communications Summary**

Function	Frequency - RX	Frequency - TX	Tone	System	Channel	System	Channel
Command		<b>REFER</b>	<b>TO</b>	<b>COMMO</b>	<b>PLAN</b>		
Tactical Div/Group							
Logistics							
Air to Ground							

Prepared by (Resource Unit Leader) D. Ross Catron	Approved by (Planning Section Chief)  <b>Final</b>	Date Prepared 05/13/07	Time Prepared 1406
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<b>Division Assignment List</b>	1 Branch	2. Division/Group <b>E</b>
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3. Incident Name <b>HAM LAKE</b>	4. Operational Period <b>05/14/07 Monday DAY Shift 0630 - 2000</b>
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5. **Operations Personnel**

Operations Chief	<b>DAN BUCKLEY; STEVE RADDATZ</b>	Division/Group Supervisor	<b>TOM ROACH; JEREMY BENNETT(T)</b>
Operations Chief	<b>ROD COLLINS; DAN DALLAS(T)</b>	Air Attack Supervisor	<b>LARRY ZAJANC</b>
Branch Director		Safety Officer	<b>TONY BEITIA; JIM GRANT</b>

6. **Resources Assigned this Period**

Strike Team/Task Force/ Resource Designator	Leader	Num of Pers.	Trans. Y/N	Drop Off PT./Time	Pick Up PT./Time
HC1;KLAMATH HOTSHOTS;C-20	JOHNNY CLEM	21	N	BASE / 0630	BASE / 2000
HC1;ELDORADO IHC;C-21	M BECKETT	22	N	BASE / 0630	BASE / 2000
HC2;MIDEWIN;C-1	JERRY M HOFFMAN	19	N	BASE / 0630	BASE / 2000
HC2;PLATTE CANYON;C-13	DAMON LAURION	19	N	BASE / 0630	BASE / 2000
ENG6;ENG 6307;E-21	JASON KERN	2	N	BASE / 0630	BASE / 2000
ENG6;ENG 2063;E-20	CRAIG CRENSHAW	5	N	BASE / 0630	BASE / 2000
ENG6;PK2 - BEMIDJI ENGINE;E-26	CHRISTINE WEIR KOETTER	2	N	BASE / 0630	BASE / 2000
ENG6;DLR 6141;E-56	DARRIN FRANCO		N	BASE / 0630	BASE / 2000
SOF2	STEVEN DAVIS	1	N	BASE / 0630	BASE / 2000
STCR	BOO HINTON	1	N	BASE / 0630	BASE / 2000
STCR	KEITH SMITH(T)	1	N	BASE / 0630	BASE / 2000
EMTB	JOHNNIE HYDE	1	N	BASE / 0630	BASE / 2000

7. Control Operations  
Construct indirect control line from the road at the east end of Mayhew Lake across Topper Lake to South Lake. Plumb the portage from South Lake to North Lake. Prep the line to burn from with favorable winds. Keep going direct as an option.

8. Special Instructions  
Engage and disengage as appropriate in response to fire behavior. All personnel traveling on water MUST have water and boat training before going on the water. Order canoes and boats by 1500 of the day prior to their need.  
**Know what your fire is doing at all times!**

9. **Division/Group Communications Summary**

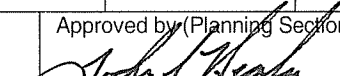
Function	Frequency - RX	Frequency - TX	Tone	System	Channel	System	Channel
Command		<b>REFER</b>	<b>TO</b>	<b>COMMO</b>	<b>PLAN</b>		
Tactical							
Logistics							
Air to Ground							

Prepared by (Resource Unit Leader) <b>D. Ross Catron</b>	Approved by (Planning Section Chief) <i>John S. Healy</i>	Date Prepared <b>05/13/07</b>	Time Prepared <b>1409</b>
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<b>Division Assignment List</b>		1. Branch		2. Division/Group <b>STRUCTURAL GROUP #1</b>			
3. Incident Name HAM LAKE		4. Operational Period 05/14/07 Monday DAY Shift 0630 - 2000					
5. Operations Personnel							
Operations Chief	DAN BUCKLEY; STEVE RADDATZ		Division/Group Supervisor	TOM LYNCH			
Operations Chief	ROD COLLINS; DAN DALLAS(T)		Air Tactical Group Super.	LARRY ZAJANC			
Branch Director			Safety Officer	TONY BEITIA; JIM GRANT			
6. Resources Assigned this Period							
Strike Team/Task Force/ Resource Designator	Leader	Num of Pers.	Trans. Y/N	Drop Off PT./Time	Pick Up PT./Time		
HC3;MNSUF #21;C-10	JEREMY RUX	4	N	BASE / 0630	BASE / 2000		
HC2;KBITC #1;C-17	DECOTA, GEORGE	20	N	BASE / 0630	BASE / 2000		
HC2IA;GRAYBACK;C-18	ROD GOSS	20	N	BASE / 0630	BASE / 2000		
HC2;MINGO #1;C-11	WENDELL CLINTON	20	N	BASE / 0630	BASE / 2000		
ENG6;EVERGREEN FD;E-35	KRISTIAN JANKOFSKY	2	N	BASE / 0630	BASE / 2000		
ENG4;PALO FD;E-32	JOE MICKNLICH	2	N	BASE / 0630	BASE / 2000		
ENG6;MNDNR- ZIMMERMAN;E-25	JOHN L WISECARVER	2	N	BASE / 0630	BASE / 2000		
ENG3;ENG 583 GVFD;E-906	DAN BAUMANN	2	N	BASE / 0630	BASE / 2000		
GRAND MARAIS PROPANE SUPPORT				BASE / 0630	BASE / 2000		
TFLD	LEE NELSON	1	N	BASE / 0630	BASE / 2000		
TFLD	RONALD BEAM (t)	1	N	BASE / 0630	BASE / 2000		
7. Control Operations							
Continue mop-up and securing fire edge around structures on the north end of Gunflint Trail. Mop up and secure structures in the area of Round Lake. Monitor and hold perimeter within DIV X/Y/Z.							
8. Special Instructions							
Engage and disengage as appropriate in response to fire behavior. All personnel traveling on water MUST have water safety training. Order canoe and boats by 1500 of the day prior to their need.							
<b>Know what your fires is doing at all times!</b>							
9. Division/Group Communications Summary							
Function	Frequency - RX	Frequency - TX	Tone	System	Channel	System	Channel
Command		<b>REFER</b>	<b>TO</b>	<b>COMMO</b>	<b>PLAN</b>		
Tactical Div/Group							
Logistics							
Air to Ground							
Prepared by (Resource Unit Leader) D. Ross Catron		Approved by (Planning Section Chief) 			Date Prepared 05/13/07	Time Prepared 1419	

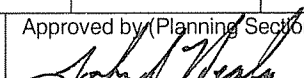


<b>Division Assignment List</b>		1. Branch		2. Division/Group <b>STRUCTURAL GROUP #2</b>	
3. Incident Name HAM LAKE		4. Operational Period 05/14/07 Monday DAY Shift 0630 - 2000			
5. Operations Personnel					
Operations Chief	DAN BUCKLEY; STEVE RADDATZ	Division/Group Supervisor	CHRISTIAN RAMIREZ		
Operations Chief	ROD COLLINS; DAN DALLAS(T)	Air Tactical Group Super.	LARRY ZAJANC		
Branch Director		Safety Officer	TONY BEITIA; JIM GRANT		
6. Resources Assigned this Period					
Strike Team/Task Force/ Resource Designator	Leader	Num of Pers.	Trans. Y/N	Drop Off PT./Time	Pick Up PT./Time
METRO TF#1 (TF#1 includes engines E-126, E-127, E-128, E-129 & E-130)	BRIAN PISERAK	19	N	BASE / 0630	2000/ BASE
METRO S/T #2 (S/T#2 includes engines E-166, E-167, E-168, E-169 & E-170)	ERNIE SCHMITT	18	N	BASE / 0630	2000/ BASE
METRO S/T #3 (S/T#3 includes engines E-173, E-174, E-176, E-178 & E-179)	STEVE TEETER	22	N	BASE / 0630	2000/ BASE
METRO S/T #4 (S/T#4 includes engines E-171, E-172, E-175, E-177 & E-180)	DON LANTZ	25	N	BASE / 0630	2000/ BASE
WILDLAND TF #5 (TF#5 includes engines E-58, E-86, E-87, E-88 & E-89)	S. WARNER / M. LAWLER(T)	16	N	BASE / 0630	2000/ BASE
ANIMAS ENGINE; E-141	ELOY MARTINEZ	2	N	BASE / 0630	2000/ BASE
STEN	MARK LAWLER (t)	1	N	BASE / 0630	2000/ BASE

7. Control Operations  
Provide structure protection from the 1347 Road west to Popular Fire Station. Coordinate with DIV B/C/D/E.

8. Special Instructions  
Engage and disengage as appropriate in response to fire behavior. All personnel traveling on water MUST have water safety training. Order canoe and boats by 1500 of the day prior to their need.

**Know what your fire is doing at all times!**

9. Division/Group Communications Summary							
Function	Frequency - RX	Frequency - TX	Tone	System	Channel	System	Channel
Command		<b>REFER</b>	<b>TO</b>	<b>COMMO</b>	<b>PLAN</b>		
Tactical Div/Group							
Logistics							
Air to Ground							
Prepared by (Resource Unit Leader) D. Ross Catron		Approved by (Planning Section Chief) 			Date Prepared 05/13/07	Time Prepared 1421	







# AIR OPERATIONS SUMMARY

220

1. Incident Name:

Ham Lake

2. OPERATIONAL PERIOD: Monday May 14, 2007

Start Time/Sunrise: 0535 End Time/Sunset: 2035

Date Prepared: 5/13/2007

Time Prepared: 2000 hrs

## 3. REMARKS (Safety Notes, Hazards, Air Operations Special Equipment, et.):

Request bucket/water support though Air Attack or Heavy Helibase @ CKC (218-387-3069).  
Backhaul from the line, all empty gas cans, cargo nets, trash.

### SAFETY CONSIDERATIONS \*\*

- Clear, concise directions for bucket drops.
- Ensure all personnel are clear of retardant/water and bucket drop zones.
- See and avoid raptors (Bald Eagle, Osprey) and protect raptor nests from fire.
- Do not depend exclusively on rotor wing aircraft, have a back up plan.

**For Line Orders/Requests go through Command ICP- provide: Ground contact name, Frequency., elevation, time for arrival.**

6.PERSONNEL	NAME	PHONE#	7. S. FREQUENCY	AM	FM	8. FIXED-WING - Avail / Type / Make-Model / FAA. N# / Base(s)
AOBD	Jeff Gardetto	651-895-4409	Air/Air Rotor	122.425		<i>AIRPLANKERS AVAILABLE</i> B.ASE
ASGS	Steve Budd Jack	970-749-6539	Air/Air	122.575		CL 215= T263, T266, Hibbing
ATGS	Jon Curd	208-631-1624	Air/Air			CL 215= T267 Ely
ATGS	Erick Hutchins		Air/Grd: primary	169.200		P-3 Orion T-21 Ely
ATGS	Ken Snump		Secondary	166.6875		P2V T-12 Ely
HEB1	Chris Havener	307-690-2710				C-206 (Floats) 98V Gumflint Lodge
HEB2(T)	Jason Hofman	01188163146				
Larch HB		1330 Satellite				
Heavy Helibase	Phone	218-387-3069	Deck	168.350		
	fax	218-387-3081	TOLC			
						<i>LEADPLANES'</i>
						<i>WILL ORDER AS NEEDED</i>
						<i>AIR TACTICAL</i>
						BASE
						Ely
						Ely

## 9. HELICOPTERS (Use Additional Sheets As Necessary)

FAA N#	TY	MAKE/MODEL	BASE	AVAIL	STAR	REMARKS	FAA#	TY	MAKE/MODEL	BASE	AVAIL	START	REMARKS
863H	3	Bell 206 L4	Larch HB	0800	0830								
351CH	3	AStar B3	Larch HB	0800	0830	Medevac							
HT 769	1	S-61	CKC	0800	0830	tank							
HT744	1	S-64	CKC	0800	0830	tank							
905CH	1	S-61	CKC	0800	0830	bucket							
HT 761	1	S-61	CKC	0800	0830	tank							

10. TASK / MISSION / ASSIGNMENT (Type / Function Includes: Air Tactical, Retardant, Recon, Personnel Transport, Water Dropping, S&R, etc)			
TYPE / FUNCTION	NAME OF PERSONNEL OR CARGO (if applicable) OR INSTRUCTIONS FOR TACTICAL AIRCRAFT	MISSION START	FLY FROM FLY TO
Air Tactical	Over the incident at 0900	0900	Ely Ham Fire
Recon with 863H & 351CH	As needed by Operations from Larch HB.	0900	Larch HB Ham Fire
Transport Personnel/Cargo	As needed and directed by Operations.		Larch HB As directed
Ignition	As needed (351 CH designated aircraft).		
Medevac	Fly to ICP Helipad based upon medical unit instructions.		
Prepared By Jeff Gardetto AOBD		5/13/07	TIME: 2000 hrs. Page 2 of 2



<b>INCIDENT RADIO COMMUNICATIONS PLAN</b>	1. Incident Name	2. Date/Time Prepared	3. Operational Period Date/Time
	<b>Ham Lake</b>	5/13/2007 1940	<b>5/14/2007 DAY</b>

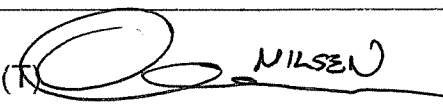
4. Basic Radio Channel Utilization

Radio Type/Cache	Channel	Function	Frequency/Tone	Assignment	Remarks
VHF	1	Tac 1	168.0500 Rx/Tx	Division D	
VHF	2	Tac 2	168.2000 Rx/Tx	All Structure Groups	Local VFD's may only have this channel in their radios
VHF	3	Tac3	168.6000 Rx/Tx	Division B	
VHF	4	Tac 4	164.1375 Rx/Tx	Division E	
VHF	5	Tac 5	166.7250 Rx/Tx	Division Z & W	
VHF	6	Command 6	168.7000 Rx 170.9750 Tx	COMMAND	NIFC "C-1"
VHF	7	Command 7	162.9625 Rx 171.7875 Tx	COMMAND	NIFC "C-7"
VHF	8	Command 8	166.6125 Rx 168.4000 Tx	COMMAND	NIFC "C-4"
VHF	9	SUF Gunflint Repeater	169.9250 Rx 170.5250 Tx 110.9 pl	Forest Net Back Up only	Back-Up
VHF	10	Cook County Sheriff	158.730 Rx D743 155.985 Tx D627	Emergency Contact	WIDEBAND
VHF	11	Tac 11	166.7750 Rx/Tx	Division C	
VHF	12	Air-to-Ground 1	169.2000 Rx/Tx	Primary	
VHF	13	Air-to-Ground 2	166.6875 Rx/Tx	Secondary	
VHF	14/16	Air Guard	168.6250 Rx/Tx 110.9 PL	FOR EMERGENCY USE ONLY	

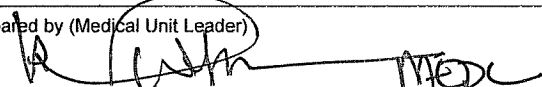
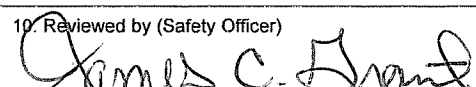
All frequencies are Analog – Narrowband except as noted

5. Prepared by (Communications Unit)

Matt Nilsen COML Kary Mavencamp COML (T)



Logistics Radios: Group 1 Channel 2

<b>MEDICAL PLAN</b>	1. Incident Name	2. Date Prepared	3. Time Prepared	4. Operational Period						
	Ham Lake Fire	5/13/2007	1830	5/14/07 0600-2200						
<b>5. Incident Medical Aid Station</b>										
Medical Aid Stations		Location			Paramedics Yes No					
Sea Gull Guard Station		11456 Gunflint Tr. Grand Marais, MN			XX					
Base Camp		Blackenberg Rd Grand Marais, MN					XX			
<b>6. Transportation</b>										
<b>A. Ambulance Services</b>										
Name		Address		Phone		Paramedics Yes No				
Gunflint VFD Ambulance		Gunflint Lodge Grand Marais, MN		218-387-3030						
Cook Co. Ambulance		Gunflint Tr & 5 <sup>th</sup> Grand Marais, MN		218-387-3030						
Luke One Air		Duluth, MN		800-824-5773		XX				
Life Flight		Duluth, MN		800-447-5540		XX				
<b>B. Incident Ambulances</b>										
Name		Location			Paramedics Yes No					
Helicopter		Larch Helibase 254-387-7322					XX			
Beaver Fixed Wing		ELY Sea Plane Base 218-365-7565					XX			
<b>7. Hospitals</b>										
Name	Address		Travel Time Air Ground		Phone		Helipad Yes No		Burn Center Yes No	
Cook Co. Hospital	515 W 5 <sup>th</sup> Grand Marais N 47.45.00 W 90.20.00		30min 1hr		218-387-3269		XX			
St. Mary's Hospital	407 E 3 <sup>rd</sup> Duluth, MN N 46.47.60 W 92.05.90		1hr 3hr		218-786-4357		XX			
St. Luke's Hospital	915 E 1 <sup>st</sup> Duluth, MN N 46.47.80 W 92.05.40		1hr 3hr		218-249-5616		XX			
Ely-Bloomenson Hospital	328 W Conan Ely, MN N 47.50.00 W 91.52.00		40min 3hr		218-365-3271		XX			
<b>8. Medical Emergency Procedures</b>										
<p>***Tending to personal hygiene will reduce illness in and out of camp.</p> <p>***All medical emergencies will be reported to the Divs. The DIVS will notify Ham Lake Communications on the Command Frequency. <b>Communications will clear ALL Radio Traffic</b>, and notify the MEDL. Report should include location, type, and number of injuries, medical, and transportation needs (please include nearest drop point/helispot). Any on-scene EMT's will stabilize the patient.</p> <p>***The term "<b>MEDIVAC</b>" is to be used for life threatening evacuations only.</p>										
Prepared by (Medical Unit Leader)					10. Reviewed by (Safety Officer)					
										



# AVIATION EMERGENCY EVACUATION PLAN

## Ham Lake Incident

### Life Flight

Air Rescue: phone # 1-800-447-5540

Air/Ground Frequency: 155.340 (State Air Rescue Freq., for use with Life Flight only)

Travel: 40 minute time for aircraft to arrive on scene

Life Flight: Deluth, MN *\*Night Vision Capable\**

### Helispot Location:

Ham Lake ICP	Zulu Spike	Gunflint Station 1
MEDL – Harry Wheeler	DIVS – Tony Demasters	DIVS -
Lat: N 48° 07' 10.7"	Lat: N 48° 14' 30.8"	Lat: N 48° 02' 36.8"
Long: W 090° 50' 24.4"	Long: W 090° 52' 09.5"	Long: W 090° 27' 15.0"
Elevation: 1509'	Elevaton: 1853'	Elevaton:

### **MEDICAL EMERGENCY = LIFE THREATENING INJURY OR ILLNESS**

- All **non-Medical emergencies** requiring medical transport only should be clearly stated
- **When requesting medical aid, state:**
  1. Name of On-Scene Incident Commander (DIVS, EMT, etc.)
  2. Location: Drop point, Helispot, road intersection, mile marker, dip site, grid location, lat. X Long., etc. Best reference possible.
  3. Type of injury/illness. Medical Unit Leader will need good set of vitals, A-B-C's for proper assessment.
  4. Number of patients. If helicopter transport required, state number of transport and approximate weight.
  5. Treatment being given.

### Helispot Night Marking Procedures:

**At ICP:** Flashing strobe beacon or Chem lights on corners. *Only used for Medical Emergency*

MEDL Harry Wheeler will be ground contact for night medivacs

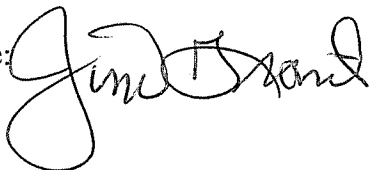
\*\* Keep all non-essential personnel clear of helispot.

**DO NOT use flashlights, headlamps, headlights, etc. to identify Emergency Pad location; and DO NOT shine any lights at the incoming Life Flight helicopter (pilot is wearing night vision goggles!!)**

\*\* All daylight hour non-emergency helicopter transports using incident aircraft will fly in / out of ICP Helibase

Air/Ground Frequency 169.200 (Channel 12, Ham Lake ICS-205)

Signature:



## HEALTH AND SAFETY MESSAGE

*SAFETY* starts with *YOU*

We are ALL accountable for SAFE behaviors

For Day Operations: May 14, 2007

INCIDENT: Ham Lake

DATE: May 13, 2007

TIME: 2000

### Major Hazards and Risks:

- **Hazard Trees:** In the fire area and in camp.
- **Driving & Traffic:** Gunflint Trail; and narrow, congested roads in fire area.
- **Fire Behavior:** Winds increasing and/or changing direction.

### Fire Order of the Day:

*Keep informed on fire weather conditions and forecasts.*

- Initiate all actions based on current and expected fire behavior.
- Do you have access to weather and fire behavior forecasts?
- It is critical for firefighters to maintain situational awareness of live and dead fuel moisture conditions as well as predicted and current weather conditions.
- As fire behavior changes, it is critical to act decisively to the changing situation.

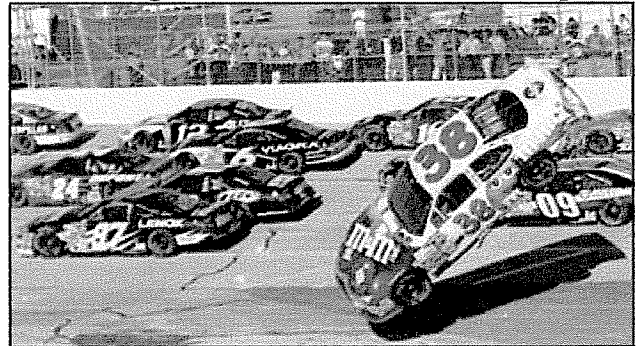


Get Briefings and Monitor the Weather  
Throughout the Shift!



### Driving & Traffic

- Excessive speeds continue on the Gunflint Trail Road. (Recommended not to exceed 35 mph)
- Congestion at ICP & Base Camp.



**‘Situational Awareness’**

***Thanks from your Safety Team!!***

Tony Beitia  
Chad Stewart  
Jim Grant  
Bob Kari

George Pozzuto  
Steve Davis  
Bob Shoemaker

**INCIDENT SAFETY ANALYSIS (215a)**

**Ham Lake**

DIV	HAZARDS	MITIGATIONS	
All	Hazard Trees	<ul style="list-style-type: none"> <li>• Follow “Hazard Tree Safety” guidelines, IRPG pages 80 &amp; 81</li> <li>• Look up, down around for hazard tree indicators</li> <li>• Only fell trees within your expertise, and training</li> </ul>	
All	Driving & Traffic	<ul style="list-style-type: none"> <li>• Use <b>spotters</b> when backing, and <b>honk horn</b> to alert personnel</li> <li>• Follow 3 second rule when driving on Cook County Road 12</li> <li>• Always use headlights, wear <b>seatbelts</b>, and use chock blocks</li> <li>• Increase following distances on dusty road surfaces</li> <li>• Use 4 way flashers or hazard lights in areas of heavy smoke</li> </ul>	
All	Severe Weather	<ul style="list-style-type: none"> <li>• Review “Thunderstorm Safety” guidelines on page 75, IRPG</li> <li>• Stop boating as soon as you see or hear a storm.</li> </ul>	
All	Extreme Fire Behavior	<ul style="list-style-type: none"> <li>• Refer to IRPG page 75 for watch out conditions</li> <li>• Establish “Trigger Points” to withdraw</li> <li>• Use “Risk Management” approach prior to suppression actions</li> </ul>	
	I.A. Direct Attack	<ul style="list-style-type: none"> <li>• Review Strategy for “Direct Attack” on IRPG, page 9</li> <li>• Practice “Tactical Watch outs”, IRPG page 5</li> <li>• Follow the “Briefing Checklist” on IRPG back page</li> </ul>	
All	Reburn	<ul style="list-style-type: none"> <li>• Post Lookouts , practice “Tactical Watch outs”, IRPG page 5</li> </ul>	
	Water Travel	<ul style="list-style-type: none"> <li>• Follow safety guidelines established in water safety training</li> <li>• Always wear Personal Flotation Devices (PFD)</li> <li>• Paddle near shoreline when white caps are present on water</li> </ul>	
All	Personal Hygiene	<ul style="list-style-type: none"> <li>• Wash your hands on a regular basis</li> <li>• Don’t share personal items such as razors, toothbrushes, etc.</li> <li>• Use preventative measures to limit exposure to illness</li> </ul>	
B, Z	Mop Up	<ul style="list-style-type: none"> <li>• Maintain 8’-10’ spacing</li> <li>• Wear appropriate PPE such as safety glasses, gloves, etc</li> <li>• Watch footing on wet terrain, avoid walking on slick surfaces</li> <li>• Park Engines with wheels off pavement on CC 12</li> <li>• Use 4 way flashers or overhead lights</li> </ul>	
Structure Group	Structure Protection	<ul style="list-style-type: none"> <li>• Always face vehicles away from danger</li> <li>• Review “Wildland Urban Interface” Watch outs, IRPG page 11</li> <li>• Use “Structure Assessment” checklist, IRPG pages 14 - 17</li> </ul>	
Structure Group	HAZMAT	<ul style="list-style-type: none"> <li>• Isolate and keep distance &gt; 100’ from LPG tanks</li> <li>• Watch out for fuel and gasoline tanks under decks</li> <li>• Review UXO Safety on page 31 in IRPG</li> </ul>	
All	Helicopter Operations  Fixed Wing Aircraft	<ul style="list-style-type: none"> <li>• Follow “Aviation Watch-Out Situations” on page 46, IRPG</li> <li>• Follow helicopter and fixed wing briefings</li> <li>• Don’t plan on air resources for medical transport or re-supply</li> <li>• Directing Bucket Drops, IRPG, page 61</li> </ul>	
Spike Camps	Wildlife	<ul style="list-style-type: none"> <li>• Keep camp &amp; sleeping area clean of debris, and food</li> <li>• Exercise caution for wildlife crossing roads at dawn &amp; dusk</li> </ul>	
INCIDENT NAME <b>Ham Lake</b>		DATE & TIME PREPARED 05/13/2007 1900	OPERATIONAL PERIOD 05/14/2007 Day

*Jim Brand*



**Today's discussion is from the  
Fireline Safety Category.**

**Scenarios:**  
Scenario 1

Six Minutes Home Page

## **COMMON DENOMINATORS OF FIRE BEHAVIOR ON TRAGEDY FIRES**

Five common denominators that contribute to accidents/incidents have been identified through studies of tragedy fires. It is important for firefighters to readily recognize the following common denominators so that future tragedies can be prevented:

- Most incidents happen on smaller fires or on isolated portions of larger fires.
- Most fires are innocent in appearance before unexpected shifts in wind direction and/or speed results in flare-ups or extreme fire behavior. In some cases, tragedies occur in the mop-up stage.
- Flare-ups generally occur in deceptively light fuels, such as grass and light brush.
- Fires run uphill surprisingly fast in chimneys, saddles, gullies, and on steep slopes.
- Some suppression tools, such as helicopters or air tankers, can adversely affect fire behavior. The blasts of air from low-flying helicopters and air tankers have been known to cause flare-ups.

### **References:**

Standards for Fire and Fire Aviation Operations, Interagency, [www.nifc.gov/references/index.html](http://www.nifc.gov/references/index.html)

A handwritten signature in black ink that reads 'Jim Brand'.

# Human Resource Message

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Paul Bryant and Andrea Payne

“Maybe in order to understand mankind, we have to look at the word itself: "Mankind". Basically, it's made up of two separate words - "mank" and "ind." What do these words mean? It's a mystery, and that's why so is mankind.”

–Jack handy

*Everyone knows what two words “man kind” is really comprised of, so continue to.....*

**BE KIND TO YOURSELF AND EACH OTHER!**

Trivia: What was the world's first National Park?  
Yellowstone (dedicated in 1872)

05/14/2007

TENTATIVE RELEASE

HAM LAKE MN-SUF-070072

OVERHEAD

O-3.8	0800	(TIME)	LARSON, ANGELIA J
O-3.19	0800	(FACL)	CAMERON, DENNIS W
O-16	0800	(HELM)	SPRING, MATTHEW T

05/15/2007

TENTATIVE RELEASE

HAM LAKE MN-SUF-070072

OVERHEAD

O-38	0800	(DOZB)	LEVASSEUR, STEVEN E
O-93.33	0800	(GIST)	BETENSON, MATT

CREWS

C-11	0800	(HC2)	MINGO #1
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EQUIPMENT

E-20	0630	(ENG6)	ENG 2063
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05/16/2007

TENTATIVE RELEASE

HAM LAKE MN-SUF-070072

OVERHEAD

O-174	0800	(DIVS)	ROACH, TOM
O-189	0800	(SOF2)	DAVIS, STEVEN

CREWS

C-3	0800	(HC2)	NORTHERN COLORADO
C-6	0800	(HC2)	NEF #1 (WMF)
C-7	0800	(HC2)	INDIANA IC #1

## **Ham Lake Fire-Heritage Resources Message**

The Superior National Forest has identified approximately 3,500 heritage sites within the Forest boundaries. These sites include Pre-contact Native American sites dating to 10,000 bp (years before present), as well as mining, homesteading, and logging sites dating from as early as 1880. The Superior National Forest is committed to minimizing, if not avoiding, impact to heritage resources during fire suppression and mop-up activities. As the fire progresses, resource advisors and line archaeologists will work with the ICT and ground crews to implement Minimum Impact Suppression Techniques (MIST), in areas with identified heritage concerns.

Portions of the Ham Lake Fire have burned into the historic “Voyaguers Highway”. This route was utilized between 1650-1870 as a major transportation route for French, British, and American fur traders and their Ojibwa counterparts. During this period, thousands of birch bark canoes, loaded with European trade goods, passed to the north and east of the current fire perimeter. Additionally, the road which borders the southern perimeter of Division A was one of the first railroad lines in Cook County, Minnesota. This railroad, known as the Port Arthur and Duluth line, serviced a failed iron ore mine within the Ham Lake fire boundary.

Due to the shallow nature of soils in the area, the fire is expected to expose previously unknown heritage resources. Crews are to be aware that the removal of artifacts from federal property is a violation of several laws, and that the removal of heritage resources from Superior National Forest lands will not be tolerated. If heritage resources are observed during suppression/mop-up activities, please record the location and get the information to a Ham Lake Fire resource advisor.

Thank you all for your hard work. Do not hesitate to convey information or concerns to us (Resource Advisors-Line Archaeologist) as we move towards controlling the Ham Lake Fire.

## **Superior National Forest Minimum Impact Management Tactics**

Everyone on the incident has a responsibility to implement tactics and strategies that will minimize long term impacts on the ground, both in and out of the BWCA Wilderness.

This includes Command and General Staff, the Operations Section in their planning strategies and all resources on the line and in camp.

Please remember to log all your motorized use (chainsaws, pumps, and motorboats) within the wilderness. Regulations require that we report these activities.

### **MIST Tactics in Spike Camps:**

- 1 While there may be pre-approved exceptions to BWCAW regulations for line activities, there are no exceptions “after hours in camp”.
- 2 Protection of water resources is paramount. Please use no soap in the lakes for bathing and dishes. All soaps should be used at least 150 feet from shore.
- 2 Transport all trash out of the wilderness as frequently as possible. If a plane or boat is coming in with supplies, utilize that same plane/boat for trash removal. We do not want a large back-haul effort at the end of the incident.
- 3 Hang / secure all food and trash on your site when you leave for the line during the day and at night.

### **MIST Tactics on the line:**

- 4 MIST tactics will be implemented on all suppression activities.
- 5 Because of damaged soils on this fire, please avoid the use of straight stream water delivery from pumps and hose lays.
- 6 Ensure that all pumps and fuel are in spill containment barriers along the waters edge.
- 7 If conducting snag operations on or near campsites and portage trails, avoid the tendency to cut up the snags in firewood length pieces.
- 8 Construct control and access lines only to the minimum width and depth necessary to control fire spread.
- 9 Efforts should be made to minimize the visual impact of fire lines along waterways and travel corridors by placing turns in the line or cutting the beginning of lines at an angle to the shoreline.

**For all of us, our actions are an opportunity to display and demonstrate responsible, professional land stewardship. Resource Advisors have copies of a complete MIMT Handbook if you would like extras.**

**We will have Wilderness Resource Advisors out on the Divisions and in your camps to advise and assist you on BWCA Wilderness considerations. Following their lead will help you succeed in your MIST efforts.**





