

**HAM LAKE INCIDENT**  
**INCIDENT ACTION PLAN**



**MAY 16, 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;">05/15/07</p>	3. Time Prepared <p style="text-align: center;">2134</p>															
4. Operational Period <p style="text-align: center;">05/16/07    Wednesday    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%;"> <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"/> Team Welcome Letter</td> </tr> <tr> <td><input checked="" type="checkbox"/> Communications Plan - ICS205</td> <td><input type="checkbox"/> Traffic Plan</td> <td><input type="checkbox"/> Incident Replacement</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"/> Team Welcome Letter	<input checked="" type="checkbox"/> Communications Plan - ICS205	<input type="checkbox"/> Traffic Plan	<input type="checkbox"/> Incident Replacement	<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"/> 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)																

ORGANIZATION ASSIGNMENT LIST		9. Operations Section	
1. Incident Name <b>HAM LAKE</b>		Operations Section Chief	DAN BUCKLEY; STEVE RADDATZ
2. Date Prepared 05/15/07		Operations Section Chief	ROD COLLINS; DAN DALLAS(T)
3. Time Prepared 2134		<b>a. Branch I - Division/Groups</b>	
4. Operational Period 05/16/07 Wednesday DAY Shift 0630 - 2000		Division/Group A	unstaffed
Position		Division/Group B	M.WINKELMAN
Name		Division/Group C	MIKE FRALICKS; GENE PHILLIPS(T)
<b>5. Incident Commander and Staff</b>		Division/Group D	LOUIS HARTJES
Incident Commander / Deputy	PAUL BROYLES / JIM THOMAS	Division/Group E	CHRISTIAN RAMIREZ
Canadian Incident Commander	DAVE MANOL	Division/Group W	DAVE VINING; CHRIS VERO (T)
Safety Officer	TONY BEITIA; JIM GRANT	Division/Group Z	unstaffed
Information Officer	BILL PAXTON	<b>b. Branch I - Division/Groups (contiued)</b>	
Liaison Officer	GUY PENCE	Division/Group STRUCTURE GROUP	TOM LYNCH
<b>6. Agency Representative</b>		Division/Group PUBLIC SAFETY	TOM KAFFINE
Agency	Name	Division/Group STAGING	T. DEMASTERS; C. HALL(T)
USFS Agency Administrator	JIM SANDERS	Division/Group X / Y	unstaffed
Agency Adm. Rep / Trainee	JOHN WYTANIS / CARLEEN YOCUM	Division/Group CREWS IN CANADA	
Minnesota DNR	STEVE SIMMER	Division/Group	
Cook County Sheriff	MARK FALK	Division/Group	
Canadian Liaison	JEFF GAUDRY	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	<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	JON CURD
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; DAVE LANE(T)	Prepared by (Resource Unit Leader)	
Security Unit	VAL NORMAN	D. Ross Catron	
Food Unit	ROY MILLER; DENNIS BROGGER		

**Fire Weather Forecast**

**FORECAST NO: 9**

**NAME OF FIRE: HAM LAKE FIRE**

**PREDICTION FOR: Day Shift**  
**SHIFT DATE: May 16, Wednesday**

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

**TIME AND DATE**  
**FORECAST ISSUED: 2030 CDT 15 MAY, 2007**

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**WEATHER DISCUSSION:**

**...COOL AIR AND SCATTERED SHOWERS WILL REMAIN OVER THE AREA TODAY, WARMER AIR WILL ARRIVE FOR THURSDAY AND FRIDAY...**

A north flow of cool air will continue across the incident today. This morning, an upper level area of low pressure will trigger scattered showers. For Thursday and Friday, a southwest flow of warm and drier air will return.

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**TODAY:**

**WEATHER:** Mostly cloudy. A chance of showers.

**TEMPERATURES:** High 52 to 56.

**HUMIDITY:** Minimum 40 to 45%.

**WINDS:** All winds are 20 foot winds: North 10 mph.

**HAINES INDEX:** 4 which low.

**WINDS FOR AIROPS :** 2000 feet above ground: North winds 10 to 15 mph.

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**TONIGHT:**

**WEATHER:** Partly cloudy and cold.

**TEMPERATURES:** Low 30 to 35.

**HUMIDITY:** Max above 90% by morning.

**WINDS:** North 5 mph becoming near calm.

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**THURSDAY:**

Sunny. High near 70. Minimum humidity 20 to 25%. Southwest wind 10 to 15 mph with higher gusts in the afternoon.

**THURSDAY NIGHT:**

Mainly clear. Low 45 to 50. Southwest wind 5 to 10 mph. Humidity 70 to 80%.

**EXTENDED FORECAST: FRIDAY AND SATURDAY:**

**Friday...** Chance of showers or thunderstorms, especially in the afternoon. High 68 to 73.

**Saturday...** Chance of showers. High 55 to 60.

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**Weather Yesterday**

Seagull ICP RAWS  
Superior1 RAWS (near Div B)  
Loon Lake Helispot (H3)

**Max temp**

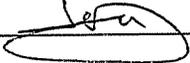
49  
47  
XX

**Min RH**

69%  
72%  
XX%

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# FIRE BEHAVIOR FORECAST

FORECAST NUMBER: 19	TYPE OF FIRE: WILDFIRE
FIRE NAME: Ham Lake Fire	OPERATIONAL PERIOD: May 16 – Day Operations
DATE ISSUED: May 15, 2007	TIME ISSUED: 2100
UNIT: Superior NF	SIGNED: T. Doggett – FBAN (trainee) 
WEATHER SUMMARY: See fire weather forecast.	

## FIRE BEHAVIOR

### GENERAL:

Any fire spread will be in a Southeasterly direction. Short-range spotting up to .2 mile is possible with single tree torching. Re-burn potential exists for under burned fuels and as needle drop begins from scorched conifers. Probability of ignition 20%. Majority of fire behavior will be in the smoldering and creeping category. Occasional flare ups are possible due to prolonged drought condition of fuels. Spread rates and flame rates reflect alignment of fuel, slope & winds.

**Expected rates of spread:** Head fire up to 6-8 chains/hr, Flanking fire 1-2 chains/hr & Backing fire .5 chain/hour.

**Expected flame lengths:** Head fire 4-5 feet, Flanking fire 1-2 feet & Backing fire 1 foot.

**Forecasted indices for today: ERC - 45 High & BI - 44 High**

### SPECIFIC:

#### Divisions C, D, E & W

Good conditions should exist throughout the day for direct line construction, holding and mop-up operations. However, afternoon winds from the Northwest will spread any uncontained fire in a Southeasterly direction. Potential still exists for single tree torching. Interior smoldering and creeping fire behavior is expected. Otherwise, favorable conditions should exist throughout the day for direct line construction, holding and mop-up operations throughout these divisions.

#### Division B, X, Y

Conditions should be favorable throughout the day for direct line construction, mop-up and containment efforts throughout these divisions. Afternoon winds pose the greatest threat to unburned fuels in alignment with Northwest winds. Smoldering and creeping fire behavior will be observed.

#### Structure Group 1

Areas of unburned fuel and under burned fuels along the North side of Gunflint Trail pose the greatest threat for short duration flare-ups. Snags will continue to be a safety concern in higher wind conditions. Otherwise, conditions will remain favorable for holding, mop-up and containment efforts. Interior smoldering and creeping fire behavior is expected.

### AIR OPERATIONS:

Fire behavior should not be an issue with air operations. Smoke production should be low and dispersion good.

## SAFETY

**Just because you don't see smoke doesn't mean there isn't any fire. Maintain your situational awareness.**



<b>Division Assignment List</b>		1. Branch		2. Division/Group <b>B</b>			
3. Incident Name HAM LAKE		4. Operational Period 05/16/07 Wednesday DAY Shift 0630 - 2000					
5. Operations Personnel							
Operations Chief	DAN BUCKLEY; STEVE RADDATZ		Division/Group Supervisor	MARK WINKELMAN			
Operations Chief	ROD COLLINS; DAN DALLAS(T)		Air Tactical Group Super.	JON CURD			
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		
HC2;GRAYBACK #7B;C-24	GUY SPARKS	20	N	BASE / 0630	BASE / 2000		
ENG4;ENG NAX-72 T6;E-90	BORINO, MAX	2	N	BASE / 0630	BASE / 2000		
ENG4;ENGINE BLM 241;E-143	BRIAN HUBBELL	5	N	BASE / 0630	BASE / 2000		
WILDLIFE S/T #6 (includes engines E-198, E-199, E-200, E-201 &E-202)	AVERY THOMPSON	13	N	BASE / 0630	BASE / 2000		
STEN	JESSE KURPIUS	1	N	BASE / 0630	BASE / 2000		
STCR	J. HINTON	1	N	BASE / 0630	BASE / 2000		
EMTB	MICAH BELL	1	N	BASE / 0630	BASE / 2000		
FALB	SIDNEY BAILEY	1	N	BASE / 0630	BASE / 2000		
FALB	PALANI LUGER	1	N	BASE / 0630	BASE / 2000		
7. Control Operations Patrol and mop up 300' around WUI and 100' in from fireline. Mop up 100' in on all green islands that are within 300' of fireline. Pull all hose and pumps where appropriate. Roll hose and request backhaul. Engines and Wildland S/T #6 respond to any DIV with structure threats.							
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. Record all wilderness incursions. Fuel tender now located at 1347 Staging (Magnetic Lake Rd).  <b>Know what your fire is doing at all times!</b>							
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 05/14/07	Time Prepared 2134	







<b>Division Assignment List</b>		1. Branch		2. Division/Group <b>W</b>			
3. Incident Name HAM LAKE		4. Operational Period 05/16/07 Wednesday DAY Shift 0630 - 2000					
5. Operations Personnel							
Operations Chief	DAN BUCKLEY; STEVE RADDATZ		Division/Group Suprv	DAVE VINING; CHRIS VERO(T)			
Operations Chief	ROD COLLINS; DAN DALLAS(t)		Air Tactical Grp Suprv	JON CURD			
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;LONE PEAK HOTSHOTS;C-4	MATT ARMANTROUT	19	N	BASE / 0630	BASE / 2000		
HC1;DIAMOND MOUNTAIN IHC;C-9	STEVE R SHAW	21	N	BASE / 0630	BASE / 2000		
HC2;MFC #1;C-2	RANDALL J WEST	20	N	BASE / 0630	BASE / 2000		
HC2;WIC #3;C-12	TIMOTHY JOHNSON	20	N	BASE / 0630	BASE / 2000		
STCR	BOO HINTON	1	N	BASE / 0630	BASE / 2000		
STCR	KEITH SMITH(T)	1	N	BASE / 0630	BASE / 2000		
SOF2	ROBERT SHOEMAKER	1	N	BASE / 0630	BASE / 2000		
EMTB	ISABELLE IBABAO	1	N	BASE / 0630	BASE / 2000		
7. Control Operations							
Prevent fire spread on Three Mile Island by constructing line, patrolling and mopping up. Continue to protect island structures...patrol and suppress fire as needed. Coordinate with Canadians for value (structure) protection in the Red Sucker Bay area by mitigating fire intensities on Horseshoe Island. Patrol and mop up within 300' feet of any structures, 100' from the fireline. Mop up 100' in on all green islands within 300' of fireline. Pull all hose and pumps where appropriate. Roll hose and request backhaul.							
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 for tomorrow's shift by 1500 the day prior to the need! Record all wilderness intrusions. Fuel tender now located at 1347 staging (Magnetic Rock Rd.). <b>Arrowhead Power Company will be continuing to restore power from Sea Gull north on Gunflint Rd.</b>							
<b>Know what your fire is doing at all times!</b>							
9. Division/Group Communications Summary							
Function	Frequency - RX	Frequency - TX	Tone	System	Channel	System	Channel
Command	Refer to	Commo	Plan				
Tactical							
Logistics							
Air to Ground							
Prepared by (Resource Unit Leader) D. Ross Catron		Approved by (Planning Section Chief)		Date Prepared 05/14/07		Time Prepared 2134	





<b>Division Assignment List</b>		1. Branch		2. Division/Group <b>STRUCTURAL GROUP</b>			
3. Incident Name HAM LAKE		4. Operational Period 05/16/07 Wednesday 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.	JON CURD			
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		
HC2IA;GRAYBACK;C-18	ROD GOSS	20	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		
TFLD	LEE NELSON	1	N	BASE / 0630	BASE / 2000		
TFLD	RONALD BEAM (t)	1	N	BASE / 0630	BASE / 2000		
FALB	JASON LLEWELLYN	1	N	BASE / 0630	BASE / 2000		
7. Control Operations							
Respond to any DIV requiring assistance for structure protection. Continue to mop up around structures as needed. Patrol and mop up within 300' feet of any structures, 100' from the fireline. Mop up 100' in on all green islands within 300' of fireline. Pull all hose and pumps where appropriate. Roll hose and request backhaul.							
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. Record all wilderness incursions. Fuel tender now located at 1347 staging (Magnetic Rock Rd.). Arrowhead Power Company will be continuing to restore power from Sea Gull north on Gunflint Rd. <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 05/14/07	Time Prepared 2134	





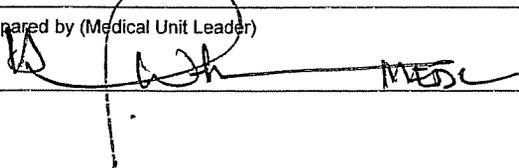
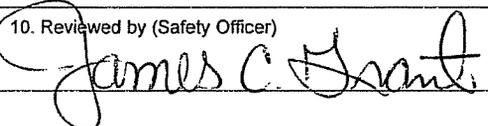




10. TASK / MISSION / ASSIGNMENT (Type / Function Includes: Air Tactical, Retardant, Recon, Personnel Transport, Water Dropping, S&R, etc)			
TYPE / FUNCTION	NAME OF PERSONNEL OR CARGO (if applicable) OR INSTRUCTIONS FOR TACTICAL AIRCRAFT	MISSION START	FLY FROM FLY TO
Air Tactical	Over the incident at 0900	0900	Ely Ham Fire
Recon with 863H & 351CH	As needed by Operations from Larch HB.	0900	Larch HB Ham Fire
Transport Personnel/Cargo	Sling radio repeater equipment.	0900	Larch HB Lima Peak
Ignition	As needed (351CH designated aircraft).		
Medevac	Fly to ICP Helipad based upon medical unit instructions. Incident Medevac aircraft 863H		
Prepared By Jeff Gardetto AOBD		5/15/07	TIME: 2000 hrs. Page 2 of 2

*Jeff Gardetto*

INCIDENT RADIO COMMUNICATIONS PLAN		1. Incident Name <b>Ham Lake</b>	2. Date/Time Prepared 5/15/2007 1945	3. Operational Period Date/Time <b>5/15/2007 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	
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) <i>Kary Mavencamp</i>					
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	5/15/2007	1830	5/16/07 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		XX					
Cook Co. Ambulance	Gunflint Tr & 5 <sup>th</sup> Grand Marais, MN		218-387-3030		XX					
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 863H	Larch Helibase 307-690-2710011881631461330 Satellite			XX						
Beaver Fixed Wing	ELY Sea Plane Base 218-365-7565			XX						
863H										
<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		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		XX	
St. Luke's Hospital	915 E 1 <sup>st</sup> Duluth, MN N 46.47.80 W 52.05.40		1hr 3hr		218-249-5616		XX		XX	
Ely-Bloomenson Hospital	328 W Conan Ely, MN N 47.50.00 W 91.52.00		40min 3hr		218-365-3271		XX		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 "MEDIVAC" 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: 60 minute time for aircraft to arrive on scene

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

### Helispot Location:

Ham Lake ICP	Boise Spike	Gunflint Station 1	Sierra Spike
MEDL – Harry Wheeler	Supt: Matt Ziegler		Supt: Kenny Jordan
Lat: N 48° 07' 10.7"	Lat: N 48° 01' 57.9"	Lat: N 48° 02' 36.8"	Lat: N 48° 01' 97.0"
Long: W 090° 50' 24.4"	Long: W 090° 37' 32.6"	Long: W 090° 27' 15.0"	Long: W 090° 37' 44.4"
Elevation: 1509'	Elevation:	Elevation: 1897'	Elevation:

### **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 Helispot**

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 16, 2007

INCIDENT: **Ham Lake**

DATE: May 15, 2007

TIME: 2100

## Major Hazards and Risks:

- **DRIVING:** Slow down when driving on Cook County 12
- **HAZARD TREES:** Look up.....Look down.....Look around!!!
- **FOOT TRAVEL:** Be aware of slippery rocks, loose soil, and wet vegetation!!!

Fire Order of the Day: *Fight fire aggressively, having provided for SAFETY first*

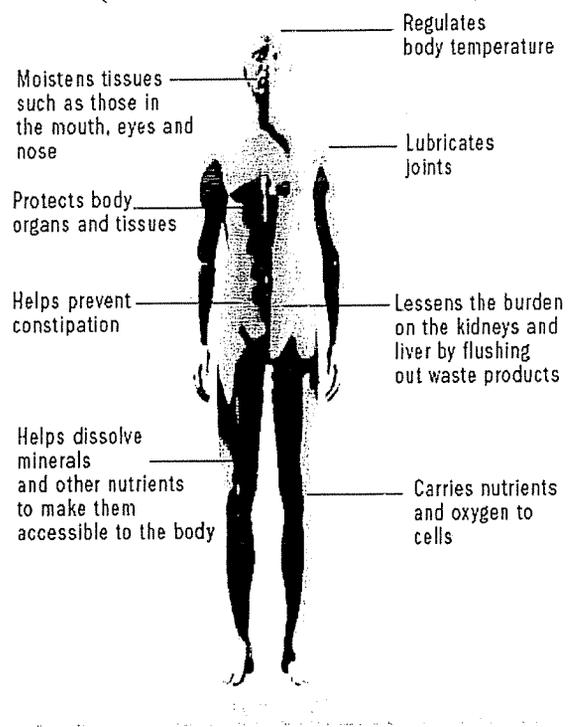
- Keep your subordinates informed.....how do you plan for the **weather** and **fire behavior** today????
- Make sound and timely decisions.....don't wait until your tent blows away, or your gear is soaked
- Ensure tasks are understood, supervised, and accomplished.....what can I do.....who can I help
- Use subordinates in accordance with their capabilities.....help them be successful

## WHAT WERE TALKING ABOUT IS COMPETENT & CONFIDENT LEADERSHIP

### WATCHOUT SITUATION (FOOTING)

- Portages
- Cross Country Foot Travel
- Downed Woody Materials
- Wet Muddy Hard Surfaces

### HYDRATION (THINGS WASTER DOES)



**Remember:** Dehydration can occur in cool weather as well as in hot!

**KEEP YOURSELF SAFE AND HEALTHY**

**Thanks from your Safety Team!!**

Tony Beitia  
Chad Stewart  
Jim Grant

George Pozzuto  
Bob Kari  
Bob Shoemaker

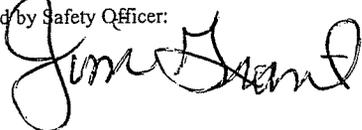
*Jim Grant*

**INCIDENT SAFETY ANALYSIS (215a)**

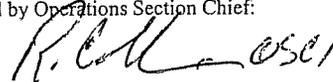
**Ham Lake**

<b>DIV</b>	<b>HAZARDS</b>	<b>MITIGATIONS</b>
<b>All</b>	<b>Driving &amp; Traffic</b>	<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 <b>headlights</b>, wear <b>seatbelts</b>, and use <b>chock blocks</b></li> <li>• Park in designated areas only</li> <li>• Car Pool to meals, meetings, and fireline when possible</li> </ul>
<b>All</b>	<b>Hazard Trees</b>	<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>
	<b>Water Travel</b>	<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> <li>• Secure loads and follow weight restrictions on watercraft</li> <li>• Use good lifting practices when portaging with canoes</li> <li>• Watch for submerged trees when landing in black</li> </ul>
<b>All</b>	<b>Foot Travel</b>	<ul style="list-style-type: none"> <li>• Watch footing on wet terrain, if possible avoid walking on slick surfaces</li> <li>• Carry tools on downhill side</li> <li>• Use guards on sharp edges of tools – if guards are not available, use duct tape</li> </ul>
<b>All</b>	<b>Cool Weather</b>	<ul style="list-style-type: none"> <li>• Carry extra clothing to prevent hypothermia following shift</li> <li>• Carry, and drink regular compliment of water each day</li> <li>• Dry out sleeping bags, tents, clothing, boots, etc.</li> </ul>
<b>B, C, D, E, W, SP</b>	<b>Mop Up</b>	<ul style="list-style-type: none"> <li>• Maintain 8’-10’ spacing</li> <li>• Wear appropriate PPE such as safety glasses, gloves, etc</li> <li>• Use 4 way flashers or overhead lights on primary access roads</li> <li>• Don’t work above another person</li> </ul>
<b>All</b>	<b>Personal Hygiene</b>	<ul style="list-style-type: none"> <li>• Wash your hands on a regular basis &amp; before each meal</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>All</b>	<b>Helicopter Operations Fixed Wing Aircraft</b>	<ul style="list-style-type: none"> <li>• Follow “Aviation Watch-Out Situations” on page 46, IRPG</li> <li>• Follow helicopter and fixed wing briefing instructions</li> <li>• Don’t plan on air resources for medical transport or re-supply</li> <li>• Directing Bucket Drops, IRPG, page 61</li> </ul>
<b>Structure Group</b>	<b>Structure Protection HAZMAT</b>	<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> <li>• Watch out for fuel and gasoline tanks under decks</li> </ul>
<b>All</b>	<b>Wildlife</b>	<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>
<b>INCIDENT NAME Ham Lake</b>		<b>DATE &amp; TIME PREPARED 05/15/2007 1800</b>
		<b>OPERATIONAL PERIOD 05/16/2007 Day</b>

Prepared by Safety Officer:



Reviewed by Operations Section Chief:





## Today's discussion is from the First Aid / Health Category.

Six Minutes Home Page

### HYDRATION

Studies conducted on wildland firefighters indicate that fire suppression activities generate about 7.5 kilocalories of heat each minute worked, or 450 kilocalories for each hour. Additional heat (about 180 kilocalories per hour) comes from the environment and the fire. The total heat load amounts to 580 kilocalories per hour (400 + 180 = 580). Complete evaporation of 1 liter of sweat removes 580 kilocalories of heat. In order to maintain a healthy body temperature, the firefighter needs to evaporate about 1 liter (slightly more than 1 quart) of sweat during each hour of work.

- Maintaining body fluids is essential for sweating. You must hydrate before, during, and after work.
- Before work you should take extra fluids to prepare for the heat. Drink 1 or 2 cups of water, juice, or a sport drink before work. Avoid excess caffeine; it hastens fluid loss in the urine.
- While working drink at least 1 quart of fluid per hour. Drink as much as you can during the lunch break. Water is your greatest need during work in the heat.
- Providing a portion of fluid replacement with a carbohydrate/electrolyte sport beverage will help you retain fluids and maintain energy and electrolyte levels.
- After work it is important to continue drinking to replace fluid losses. Thirst always underestimates fluid needs, so you should drink more than you think you need.
- Rehydration is enhanced when fluids contain sodium and potassium, or when foods with these electrolytes are consumed along with the fluid.
- Unacclimatized workers lose more salt in the heat so they need to pay particular attention to salt replacement. Don't overdo salt intake; too much salt impairs temperature regulation. Excessive salt can cause stomach distress, fatigue, and other problems.
- Make potassium-rich foods like bananas and citrus fruits a regular part of your diet, and drink lots of lemonade, orange juice, or tomato juice.
- Limit the amount of caffeine drinks such as coffee and colas because caffeine increases fluid loss. Avoid alcoholic drinks. They also cause dehydration.
- You can assess your hydration by observing the volume, color, and concentration of your urine. Low volumes of dark, concentrated urine, or painful urination indicate a serious need for rehydration. Other signs of dehydration include a rapid heart rate, weakness, excessive fatigue, and dizziness.
- Rapid loss of several pounds of body weight is a certain sign of dehydration. Rehydrate before returning to work; continuing to work in a dehydrated state can lead to serious consequences, including heat stroke, muscle breakdown, and kidney failure.

#### References:

Standards for Fire and Fire Aviation Operations, Interagency, [www.nifc.gov/references/index.html](http://www.nifc.gov/references/index.html)  
Fitness and Work Capacity--Second Edition



# Human Resources

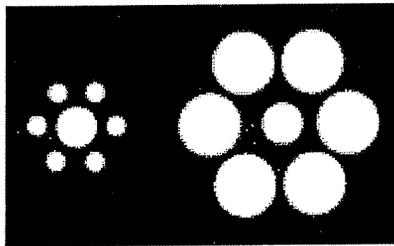
## When is a Joke – Not a Joke?

1. When it embarrasses someone,
2. When it is negative humor,
3. When it is a put-down because of sex, race, color, National Origin, age, religion, mental or physical handicap.

Humor and fun are an essential part of teamwork and stress relief, but not when it is at the expense of others.

**Take a very close look at this image!**

**Is the left center circle bigger?**



Remember, people often see things differently, so what's funny to you, may not be funny to them! (Answer: the circles are the same)

Trivia: Which of the Great Lakes is the only one that doesn't extend into Canada?

Lake Michigan

**Human Resource Specialist: Paul Bryant**

05/16/2007

TENTATIVE RELEASE

HAM LAKE MN-SUF-070072

**OVERHEAD**

O-3.11	0800	(EMTB)	SMITH, GRAY Z
O-145	0700	(PIO2)	SCHAEPP-ANDERSON, JEAN M
O-164	0800	(STEN)	WARNER, SCOTT
O-223	0800	(STEN)	SCHMITT, ERNIE
O-235	0600	(IRIN)	POWER, BRIAN
O-72	0600	(SEC1)	HANSON, LARRY
O-111	0600	(IMET)	MORFORD, DAVE
O-132	0600	(EQTR)	GREEN, VALIREE S
O-174	0800	(DIVS)	ROACH, TOM
O-163	0800	(STEN)	PISAREK, BRIAN
O-189	0600	(SOF2)	DAVIS, STEVEN
O-166	0600	(DIVS)	HANN, HOWARD

**CREWS**

C-3	0600	(HC2)	NORTHERN COLORADO
C-6	0600	(HC2)	NEF #1 (WMF)
C-7	0800	(HC2)	INDIANA IC #1
C-17	0600	(HC2)	KBITC #1
C-19	0700	(HC2)	FORT PECK #1

05/16/2007

TENTATIVE RELEASE

HAM LAKE MN-SUF-070072

**EQUIPMENT**

E-166	0800	(ENG1)	GRAND LAKE FD T1
E-167	0800	(ENG2)	CANOSIA ENGT2
E-168	0830	(ENG2)	LAKWOOD ENG T2
E-169	0830	(ENG2)	SOLWAY T2
E-170	0830	(ENG2)	ANOKA ENG T2
E-23	1130	(ENG6)	LEECH LAKE #1
E-24	0700	(ENG6)	MNBNR - 6191
E-19	1130	(ENG6)	LEECH LAKE 2
E-26	1030	(ENG6)	PK2 - BEMIDJI ENGINE
E-35	1100	(ENG6)	EVERGREEN FD
E-43	0600	(DOZ3)	TERRA FIRMA DEVELOPMENT
E-56	1000	(ENG6)	DLR 6141
E-51	0600	(DOZ3)	BAUTCH CONSTRUCTION
E-40	1400	(BUS)	VOYAGER BUS COMPANY
E-42	1400		VOYAGER BUS COMPANY
E-44	1030	(WAT1)	BAUTCH WATER TENDER
E-31	1200	(ENG4)	RED ROCK #6
E-58	0900	(ENG6)	ENGINE6393 - T6 - MNDNR - CAMB
E-76	0600	(TRTL)	TERRA FERMA TRANSPORT
E-87	0930	(ENG6)	ENG-6182 FWS
E-86	0900	(ENG4)	ENG-4231 FWS
E-88	0930	(ENG6)	ENGINE-T6-B-1
E-89	1000	(ENG6)	ENGINE-T6-B-15
E-126	0700	(ENG1)	ENGINE T1-ESKO FD

05/16/2007

TENTATIVE RELEASE

HAM LAKE MN-SUF-070072

E-127	0700	(ENG2)	SBM FD
E-128	0730	(ENG6)	ENGINE T6-ELK RIVER
E-130	0730	(ENG6)	ENGINE T6-LINWOOD FD
E-129	0730	(ENG6)	ANOKA FD
E-93	1230	(ENG6)	ENG 6541 PORT LOUISA
E-94	1230	(ENG6)	ENG 42 HOOSIERS
E-92	1100	(ENG6)	ENGINE 9504-T6

05/17/2007

TENTATIVE RELEASE

HAM LAKE MN-SUF-070072

OVERHEAD

O-19	1200	(PIO2)	VAN EVERY, MARK
O-146	0600	(PIO2)	DAUGHERTY, DARYL
O-199	0800	(EMTB)	WILLIAMS, DANIEL

CREWS

C-2	0000	(HC2)	MFC #1
C-18	0700	(HC2)	GRAYBACK T2 IA
C-9	0630	(HC1)	DIAMOND MOUNTAIN IHC
C-12	0630	(HC2)	WIC #3
C-13	0700	(HC2)	PLATTE CANYON





