



MN DNR Prescribed Burn Unit Plan

NA-01990-04

Burn Unit Name and ID:
Lake Bemidji State Park, 2002
Burn Window: April 1 to May 31

Lake Bemidji 2002

County Name	Lat/Long	Sec	Township	Range	Forty	Management Unit Name and Number	Administrator
Beltrami		14	147N	33W	E1/2	Unit North Middle Trails S2002-127-01	DNR Parks

Burn Unit Description

Fuel Model	ECS Type/Sub Type ¹	Size of Burn (acres) ¹	Fuel Loading (tons/acre) ¹
10	FDC23a2 Central Dry Pine Woodland, Bur Oak – Aspen Subtype	100	18 T/acre

Additional Burn Unit Descriptors:

Burn units are a mix of jack, red, white pine and aspen, bur oak. Topography is gently rolling to flat. Understory contains big blue stem and other prairie species. There are jackpots of down dry jackpine. This is a heavily used park with adjacent housing developments. CSAH 20 is a busy 55 mph road.

Objectives

1. Reduce 100 hour fuels by >40%. Reduce jackpot fuels by 70%
2. Reduce woody shrub aerial stems (primarily hazel by 70-90%)
3. Expose patches of mineral soil by reducing duff. Roughly 20% of total ground space to be exposed.
4. Keep pine loss(all age) less than 5%

Long term objectives: Historic burn frequency was 5-40 years Almendinger & Hanson, Eco Land Classification N MN Drift and Lake Plain 1998) As jack pine falls out of stand, site preparation and fuel reduction by fire and mechanical means, followed by natural regeneration or planting to keep pine component in stand.

Burn Complexity: Use NWCG Complexity Rating Guide (NFES 2474) to Determine Burn Complexity (keep on file)	Low	Moderate	High X
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Burn Prescription Window

Wind Direction		Outputs Prescription Parameters				Guidance Prescription Parameters					
		Spread Rate		Flame Length		Wind Speed		Temp.	Relative Humidity	1 Hr Fuel Moisture	1000 Hr Fuel Moisture or Drought Code
		Head	Backin g	Head	Backing	20'	Mid flame				
Any	Maximum Prescription	FM 10 4.5 ch/hr		5'-8'		Max 18	Max 3.4	Max 80	Min 20%	8-15%	>20%
	Minimum Prescription	FM 10 3 ch/hr				Min 5	Min 2	Min 50	Max 70%	20%	NA



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Additional Considerations

Consideration	Mitigation
Cultural site(s):unknown	No digging into ground
Natural Heritage Elements:	
Adjacent Land Concerns:Yes	Notify adjacent landowners. Local roads are heavily used. Post smoke over road signs, traffic control as needed. Monitor smoke over golf course.
Peat Soils or Wet Soils:Yes	Flag wet areas to avoid driving and creating ruts.
Other:Park Users	Trails restricted during burn; signs will be posted informing the public of burn in process (by park office).

Emergency Telephone Numbers

Burn Activity Contacts

Forestry Bemidji	218-755-2890	Chris Weir-Koetter (cell)	218-766-xxxx
Fire Dept Captain Rich Sathers	911 or 751-8001	Cindy Lueth (cell)	218-766-xxxx
Sheriff	911 or 218-751-9111	Park Office	218-755-3843
Medical	911		
Region Parks	218-755-4070		

Personnel Needs

Burn Boss Level (Note: tied to the burn complexity level):

RxB1

Number Needed	Position	Names(Optional)
1	MRxB1	
1	MRXI2	
4	FFT2 (Ignition Group)	
	Additional Holding Resources – see assignment plan	

Equipment Needs

Number needed	Equipment Type	Source
1	Ignition Gator/Polaris – with 8 torches and fuel Radios, compasses	

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Operations Plans

Pre-burn Site Preparation Plan: 1. Check, Mow burn breaks on units not totally bounded by roads/trails, as needed. (, park)

- 2.
3. Pre-flag wet spots on the lines, sign one way traffic on steep sloped trail
4. Notify adjacent private landowners before burn day (Park).

Ignition/Firing Plan: (Include provisions for a test fire, firing pattern, firing device, preferred wind direction, hazards/special considerations):
Ignition Plan, Lake Bemidji State Park, S 2002-127-01 North Middle Trails Unit

Rx Fuel Models: Primary, 10; Secondary, 9

Rx parameters: RH 17%+
T 50-80
Wind 5-15mph, any direction

Rx Objectives:

1. reduce aerial shrub stem by 75%
2. expose patches of mineral soil seed beds under pine stands (>20%)
3. pine loss <5%
4. reduce jackpot fuels

Ignition Objectives, based on Rx Objectives:

1. fire hot enough for 75% brush stem reduction
2. fire complete enough for 20%+ exposed mineral soil
3. protect pines to keep mortality < 5%
4. minimize smoke in golf course/highway

Lighting Method: Ground - drip torches

Ignition Plan:

1. provide for crew safety 1st by...
 - a) radio communication between firing boss and ignitors at all times
 - b) all ignitors know where escape routes & safety zones are throughout the course of the fire
 - c) all ignition is only by direction of firing boss. No unauthorized torches!
 - d) Watch for falling snags, jackpot & flashy fuel flare-ups, especially when working in interior
 - e) Rotate ignitors frequently to prevent heatstress/fatigue due to stripping across heavy brush
 - f) Firing boss will lead crew through interior where direction of lighting is difficult to determine due to heavy brush
2. firing boss personally check burn unit perimeter for potential problem areas, large jackpots/blowdowns etc
3. anchor ignition in burn unit (usually corner) opposite current prevailing wind direction while considering predicted wind direction from spot weather that day
4. burn out line ahead of interior lighting
5. once adequate black exists to hold line, begin stripping across in teams of lighters spaced 20-40' apart, depending on wind, RH, T and fire behavior.



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6.
 - a) *when stripping*, light all jackpots to reduce intensity. In areas of downed timber, hold up firing while large jackpots burnout to minimize potential for crowning in pines.
 - b) ignitors should have visual contact with ignitor next to you
 - c) stripping pattern: don't lay fire blowing or running at ignitor next to you
 - d) stripping across is done as a team: return trip won't start until all ignitors are accounted for. Firing boss coordinates "nose count" with one line boss on each side of fire in heavy fuels like this where topography, blowdown, brush prevent easy or movement.
7. to protect pines, keep intensity as low as possible (many strips) and pretreat all catfaces close to holding crews. When possible, ring and burn out any catfaced pines.
8. if spots, escapes or crowning, cease ignition until burn boss signals the go ahead. If holding crews have trouble holding, slow ignition, thicken blacklines & take smaller strips as needed.
9. minimize smoke into golf course by quickly firing out west line close to golf course
10. after holding crews pre-treat signs, structures etc, burn out around them before running head fire through the area.

Holding Plan: (Staging area, holding lines, resources and positions):

Staging: Group camp. Park Shop Area has water refill. Lines: In general, each line will have 3 water units which can be a 2 Type 6 engines or an engine and gator/Ranger or Backup engines/gators will be staged close to the burn unit. On each line, Water Unit 1 will lay wet line while Water Unit 2 monitors and holds after ignition. On larger units use gator to run line to monitor for spots etc. Resources may be adjusted in response to actual fire behavior. There will be 300 gal water tender staged near the burn unit.

Patrol/Mop-up Plan: (Mopup instructions, safety concerns, weather, contingency, rehab, patrol instructions):

Mop up any smoldering wood within 20' of line. More specific instructions will be given the day of the fire, in response to 1000 hour fuel moisture and current and projected wind conditions.

Contingency Plans

(Include secondary control lines, termination of ignition procedures, list of contingency resources and approximate response times, trigger points, backup plan for equipment failure etc.):

1. Secondary control lines for all units are closest trails/roads.
2. If fire crosses the line, ignition ceases, holding forces take action at direction of the burn boss to anchor, flank and pinch escape while containing existing burn unit. If fire is not contained by that action, holding forces will fall back to secondary lines and burn out under the direction of the burn boss. Contingency resources may be drawn from: other park staff (15 min), Bemidji Fire Dept (30 min) Bemidji Forestry (.5 hour).
3. If spot fires continue over the line, prescribed fire will stop and full mop-up will commence.
5. Rotate out failed equipment and fix in field, time permitting.

Smoke Management Plan – REQUIRED BY MNPCA¹

Smoke Dispersion Category (should be fair or better to burn)¹:

Good

Distance and Direction from Smoke Sensitive Area(s)¹:

½ mile to north of burn, ¼ mile to west of burn

Smoke Management Plan (Describe how you intend to mitigate the effects of smoke on roads, firefighters, neighbors and other sensitive receptors. Include safety considerations)¹:

-Avoid smoking out roads. -Rotate firefighters out of smoke regularly to minimize their exposure. Use adequate breaks and wetline to minimize smoke exposure. Burn under good dispersal conditions. Smoke duration on woodland units estimated at 24 hours – 72 hours.

¹ Required for MN Pollution Control Agency reporting requirements

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Lake Bemidji 2002**Safety Plan**

1. Ensure safety of park visitors, employees by identifying burn areas and posting information signs at park entrance.
2. Ensure safety of adjacent roadway traffic by minimizing smoke over roads and provide adequate warning on adjacent roadways.
- 3.

Identify safety zones, escape routes, communications plan: Safety zones and escape routes will change as the burns progress and from unit to unit. This will be monitored and communicated clearly to the firefighters in pre-burn briefings and during the burns. In general, mowed breaks and roads provide good escape routes. Black areas are safety zones. Lights on for all engines, gators. Use a second firefighter to direct all engines when backing up during a fire. Monitor and communicate extreme fire behavior (whirlwinds, fire devils) as well as significant wind shifts. Radio communication will be announced at the briefing (either park's repeater channel, Forestry Tac 1, or both.). At a minimum, Burn Boss, Line bosses, Ig spec will have air-to-ground, Fire Mutual Aid etc on their radios.

Medical Plan

(In addition to notification of 9-1-1 dispatcher, identify nearest ground and air ambulance service, availability of paramedics, location of nearest hospital, phone number of Minnesota Poison Control Center and list what first aid supplies are available at the burn site and what person or equipment they are assigned to):

Closest ambulance is Bemidji (20 min). Closest hospital is Bemidji (5 miles). First Aid kit is on Engine 1. Cell phones for emergency use are located with Chris Weir-Koetter, Cindy Lueth.. Cindy Lueth is trained advanced First Aid/CPR and Outdoor Emergency Care.

List of Attachments

Project Map	X	Fire Behavior Calculations (optional) (On file)	X		
Permission to Burn on non-DNR Land (on File)	X	Road Control Plan (optional)			
Risk/Safety Assessment (optional) (On file)	x	Organization Chart (optional) Shift Plan, done day of fire	X		

Signatures

Prepared by: Cindy Lueth	Title: RxB2	Date: 4/10/02
Reviewed by ² :	Title:	Date:
Reviewed by ³ :	Title:	Date:
Approved by ³ : Chris Weir-Koetter	Title: Region Res Spec, Sr	Date: 4/10/02

² All burn plans must be reviewed and signed by a qualified Burn Boss 1 or 2 as specified by Commissioner's Operational Order 47

³ As per Division policy



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Burn Unit Name and ID:

Go/No Go Checklist

ALL burn prescription elements met.	ALL personnel have the required PPE with them.
ALL smoke management specifications met.	ALL pre-burn considerations (line preparation) identified in the plan addressed.
ALL current and projected fire weather forecasts have been obtained and are favorable.	ALL the required notifications been made. (landowners, media, cooperators, sheriff etc)
ALL planned operations personnel and equipment on-site, available and operational.	ALL permits and approvals been obtained. (open burning permit, Non-DNR land permission)
APPROPRIATE contingency resources have been confirmed and are available	ALL on-site holding forces adequate for containment under the expected conditions.
ALL personnel briefed on the burn objectives, their assignment, safety hazards, escape routes and contingency plan.	Burn Boss believes the burn can be carried out according to the Prescribed Burn Unit Plan and will meet the planned objectives.

Prescribed Burn Unit Report

Weather

	Time	Wind Direction	Wind Speed	Temperature	Relative Humidity	Comment
Forecasted Fire Weather						
Spot weather forecast						
Observed weather						

Observed Fire Behavior

Time	Spread Rate	Flame Lengths	Scorch Height

Acres Burned by Cover Type

Fuel Model	Completed Acres	ECS Type Sub Type	Completed Acres

Post Burn Observations

Recommendations

Burn Boss Signature

Name:	Title:	Date:
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INCIDENT OBJECTIVES	1. Incident Name		2. Date Prepared		3. Time Prepared	
	Middle Trails Prescribed Fire		3/6/02		AM	
4. Operational Period						
Day Shift						
5. General Control Objectives for the Incident (include alternatives)						
<ol style="list-style-type: none"> 1. Keep burn crew safety the highest priority by practicing LECS and being aware of the eighteen watch out situations. 2. Implement all operations in a safe, efficient, and cost effective manner. 3. Ensure safety of Park visitors and local residents by providing appropriate information prior to the actual burn with information available burn, minimizing smoke, managing traffic on Park roadways and trails, and coordination with the interpretive program. 4. Ensure safety of the traveling public by minimizing smoke and providing adequate warning on adjacent road ways from ignition through extinguishment. 5. Keep all fire within the prescribed perimeter. 6. Minimize fire damage to large supercanopy pine trees. Keep tree loss of all red, white pine (all ages) to < 5 percent. 7. Minimize mechanical damage to standing vegetation and soil surfaces. Have no damage except in an emergency situation, if any restoration is required it is to be done immediately post-burn. 8. Protect identified resources within the burn perimeter (Example: sign posts). 9. Reduce fuel loads and ladder fuels. Reduce 60% of ladder fuels. 10. Resource objectives - reduce hazel and shrub aerial stems by 70 - 90 %. Reduce 1 hour fuels by 90% and reduce 10 hour fuels by 70-90%. Reduce 100 hour fuels by 30%. 						
6. Weather Forecast for Period						
Attached						
7. General Safety Message						
<ol style="list-style-type: none"> 1. Keep burn crew safety as the highest priority by practicing LCES and being aware of the 18 watch out situations and the 10 FIRE ORDERS. Excellent communication between ignition crew member will be necessary so that the upwind igniters do not get ahead of the downwind crews. 2. Rotate ignition and holding crew members out of the smoke as often as possible to reduce the long term effects of smoke. 3. Escape routes change as the burning operation progresses. Crew leaders need to create and update the escape routes regularly as the fire progresses and communicate with adjacent crews operations and all assigned crew. 4. Maintain awareness of burning operations, air operations and traffic on roadways. 5. Keep headlights on for safety while travelling and keep the speed down to 5 mph. 6. There will be two way traffic on the trails so identify the locations of turnaround and turnouts for meeting vehicles to prevent blocking these escape routes. 7. Park vehicles in direction of egress. 						
8. Attachments (mark if attached)						
X	Organization List - ICS 203	X	Medical Plan - ICS 206	X	Ignition Plan	
X	Division Assignment Lists - ICS 204	X	Incident Map			
	Communications Plan - ICS 205	X	Traffic Plan			
9. Prepared by (Planning Section Chief)				10. Approved by (Incident Commander)		
Chris Weir-Koetter 3/6/02						

DIVISION ASSIGNMENT LIST				1. Branch		2. Division/Group	
						Ignition Group/ Units C,D,E	
3. Incident Name				4. Operational Period			
Middle Trails Burn				Date:		Time:	
5. Operations Personnel							
Operations Chief				Division/Group Supervisor		Cindy Lueth	
Branch Director				Air Attack Supervisor No.			
6. Resources Assigned this Period							
Strike Team/Task Force/ Resource Designator		Leader		Number Persons	Trans Need ed	Drop Off PT./Time	Pick Up PT./Time
Gator with 6 drip torches				3			
7. Control Operations							
<p>Ignition will be with drip torches and back burn and hold or strip fire. Rotate ignition crew with holding crew to reduce fatigue. Control fire behavior (torching) and intensity by controlling width of strip fire or timing. Monitor crew for fatigue. Watch out for falling snags.</p>							
8. Special Instructions							
9. Division/Group Communication Summary							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command	151.475	King	tac 1	Logistics		King	
		NIFC				NIFC	
Tactical Div/Group		King		Air to Ground	151.340	King	
		NIFC				NIFC	
Prepared by (Resource Unit Ldr.)		Approved by (Planning Sect. Ch.)			Date	Time	

DIVISION ASSIGNMENT LIST		1. Branch		2. Division/Group			
				Contingency Plan			
3. Incident Name		4. Operational Period					
Middle Trails Burn		Date:		Time:			
5. Operations Personnel							
Operations Chief		Division/Group Supervisor					
Branch Director		Air Attack Supervisor No.					
6. Resources Assigned this Period							
Strike Team/Task Force/ Resource Designator	Leader	Number Persons	Trans Need ed	Drop Off PT./Time	Pick Up PT./Time		
JD 450							
Type 4 Engine							
7. Control Operations							
If there is a need to implement the contingency plan all ignition is to cease and half of the holding forces are committed to initial attack.							
8. Special Instructions							
Call Bemidji Forestry Area. If necessary call Bemidji Fire department. Helicopter and SEAT available from Tanker Base. JD450 is on scene, operator to be designated from the holding crew..							
9. Division/Group Communication Summary							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command	151.475	King	tac 1	Logistics		King	
		NIFC				NIFC	
Tactical Div/Group		King		Air to Ground		King	
		NIFC				NIFC	
Prepared by (Resource Unit Ldr.)		Approved by (Planning Sect. Ch.)		Date	Time		

MEDICAL PLAN	1. Incident Name	3. Time Prepared	4. Operational Period
	Middle Trails prescribed burn		day

5. Incident Medical Aid Station

Medical Aid Stations	Location	Paramedics	
		Yes	No
Meritcare Clinic	1233 34th Street NW Bemidji, MN	x	
Call Urgentcare line (non-life threatening) th threatening)	759-5400		

6. Transportation

A. Ambulance Services

Name	Address	Phone	Paramedics	
			Yes	No
Bemidji Ambulance	512 Kay Ave SW Bemidji, MN	911	x	

B. Incident Ambulances

Name	Location	Paramedics	
		Yes	No

7. Hospitals

Name	Address	Travel Time		Phone	Helipad		Burn Center	
		Air	Grnd		Yes	No	Yes	No
North Country Regional	1100 38th St NW		6	759-5595	x			x

8. Medical Emergency Procedures

Call Urgent Care if the injury is Non-life threatening follow their instructions, seek medical assistance at the local clinic.

Life Threatening, Call 911 and request an ambulance, transport to North Country Regional Hospital Emergency Room.

9. Prepared by (Medical Unit Leader)	10. Reviewed by (Safety Officer)

DIVISION ASSIGNMENT LIST		1. Branch		2. Division/Group			
				Group 1/Unit A and B			
3. Incident Name		4. Operational Period					
Middle Trails Burn 2002		Date:		Time:			
5. Operations Personnel							
Operations Chief		Division/Group Supervisor					
Branch Director		Air Attack Supervisor No.					
6. Resources Assigned this Period							
Strike Team/Task Force/ Resource Designator	Leader	Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time		
type 6 engine		2	no	dining hall			
type 6 engine		2	no	dining hall			
type 6 engine		2	no	dining hall			
3 person crew		3	no	dining hall			
7. Control Operations							
<p>Ignite and hold from fireline. Some strip firing may be needed. A southerly wind or light wind is preferred to keep the smoke on the road to a minimum. If there is smoke on the road the flaggers in the traffic plan will be necessary.</p> <p>The county road to the south and the trail to the north will provide good breaks to ignite this unit from. The east side may need fuel reduction and the creation of a wetline prior to the ignition to this unit.</p> <p>The wind direction will determine the final ignition plan.</p> <p>Mop up using wet water only (no digging) 30' in from wetline along east side.</p>							
8. Special Instructions							
<p>East side, no burn area (young pine). Construct the wetline (using foam) on the edge of the woodline to take advantage of the fuel type change. Using the engines to pack the grass fuels to the ground on the edge of the wetline will also help reduce the probability of spotting or burn through of the wetline. As this unit is completed and the crew moves on, one person should be stationed at the wetline to ensure early notification should the wetline be compromised.</p> <p>Continue patrolling the perimeter to watch for spotfires and catfaced trees that could burn through creating a safety concern, or falling and closing the trails. Keep an eye out for non fire people getting into the burn unit.</p> <p>Pretreat trees along CSAH 20 to reduce scorching. Spray around base of tree and upward on base of trunk.</p>							
9. Division/Group Communication Summary							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command	151.475	King	Tac 1	Logistics		King	
		NIFC				NIFC	
Tactical Div/Group	151.475	King	Tac 1	Air to Ground	151.340	King	channel 2
		NIFC				NIFC	
Prepared by (Resource Unit Ldr.)		Approved by (Planning Sect. Ch.)		Date	Time		
Chris Weir-Koetter				03/07/02			

DIVISION ASSIGNMENT LIST		1. Branch		2. Division/Group			
				Group 2/Unit C			
3. Incident Name		4. Operational Period					
Middle Trails Burn		Date:		Time:			
5. Operations Personnel							
Operations Chief		Division/Group Supervisor					
Branch Director		Air Attack Supervisor No.					
6. Resources Assigned this Period							
Strike Team/Task Force/ Resource Designator	Leader	Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time		
Type 6 engine		2	no	dining hall			
Type 6 engine		2	no	dining hall			
Type 6 engine		2	no	dining hall			
Type 6 engine		2	no	dining hall			
3 person crew		3	no	dining hall			
3 person crew		3	no	dining hall			
7. Control Operations							
The south edge is along a pine plantation that will require the construction of a wet (foam) line between the two trails. Ignite and hold line from trails. Mpoup 30' into burn along south line (pine plantation) water only, no digging.							
8. Special Instructions							
9. Division/Group Communication Summary							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command	151.475	King	Tac 1	Logistics		King	
		NIFC				NIFC	
Tactical Div/Group	151.475	King	Tac 1	Air to Ground	151.340	King	channel 2
		NIFC				NIFC	
Prepared by (Resource Unit Ldr.)		Approved by (Planning Sect. Ch.)		Date		Time	
Chris Weir-Koetter				3/08/02			

DIVISION ASSIGNMENT LIST		1. Branch		2. Division/Group			
				Group 2/Unit D			
3. Incident Name		4. Operational Period					
Middle Trails Burn		Date:		Time:			
5. Operations Personnel							
Operations Chief		Division/Group Supervisor					
Branch Director		Air Attack Supervisor No.					
6. Resources Assigned this Period							
Strike Team/Task Force/ Resource Designator	Leader	Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time		
Type 6 engine		2	no	dining hall			
Type 6 engine		2	no	dining hall			
Type 6 engine		2	no	dining hall			
Type 6 engine		2	no	dining hall			
MCC crew		3	no	dining hall			
MCC crew		3	no	dining hall			
7. Control Operations							
<p>Ignite and hold line under direction of ignition group leader. Wind direction and fire behavior will determine the ignition and holding pattern. Protect signs and benches and other improvements along the fire line and trails. Extinguish burning trees that could become hazards near the fireline. Identify hazard trees, remove as directed by resource advisor or IC.</p> <p>Patrol with engines on the lines to watch for spotfires and catfaced trees that could burn through creating a safety concern, or falling across the trails/fireline. Keep an eye out for non fire people getting into the burn unit.</p>							
8. Special Instructions							
9. Division/Group Communication Summary							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command	151.475	King	Tac 1	Logistics		King	
		NIFC				NIFC	
Tactical Div/Group	151.475	King	Tac 1	Air to Ground	151.340	King	channel 2
		NIFC				NIFC	
Prepared by (Resource Unit Ldr.)		Approved by (Planning Sect. Ch.)		Date	Time		
Chris Weir-Koetter				3/08/02y			

