Pre-Operations Report

Operation Name: Nelson Junction
County: Lane
Management Basin: Western Lane
Legal Description: Sec 11&14, T17S, R8W

Table 1. Operation Areas, Types and Acres

Area	Type of Operation	Gross Acres	Net Acres
I	Partial Cut	30	28
III	Partial Cut	42	39
Subtotal		72	67
II	Modified Clear Cut	5	5
IV	Modified Clear Cut	21	21
V	Modified Clear Cut	22	20
Subtotal		48	46
Total Units			**113**
	Leave Area	4	0
	R/W inside partial cuts	2	2
	R/W outside units	6	6

Net acres do not include in-unit stream buffers or existing roads within units.

I. PHYSICAL DESCRIPTION OF OPERATION AREA:

The sale area is 25 miles from the coast and 26 miles west of downtown Eugene. Elevation is approximately 600 feet. The climate is cooler and wetter than Eugene. Eocene age sedimentary geology underlies the area. The soils are Drain and Valino. Slopes are gentle to moderate.

II. CURRENT STAND CONDITION:

The entire area is stands originating after wildfires the first part of the 20th century. Most residual trees were destroyed by the fires or harvested years ago. The average age of the overstory timber is about 70 years. Timber type is primarily DF with bigleaf maple and alder scattered and in patches.

All of the area is UDS structure with heavy brush, much down wood, and some snags.

Much of Area I was lightly thinned sometime before ODF acquired the land in 1993.

Table 2. Stand Inventory Information (Net Acres)

Area	Prescription	Stand ID [1]	Species	Age	DBH	BA	TPA	SDI	Acres [2]
I	PC	221	DF	69	20	297	143	67	28
			Target		20 to 22	135 to 160	50 to 75	29 to 36	28
II	MCC	247	DF	67	18	176	97	41	5
III	PC	254	DF	69	19	193	97	44	15
III	PC	226	DF	65	19	205	101	46	24
			Target		20 to 22	135 to160	50 to 75	29 to 36	39
IV	MCC	220	DF	68	16	298	203	73	16
IV	MCC	216	DF	65	16	297	219	74	5
V	MCC	220	DF	68	16	298	203	73	15
V	MCC	216	DF	65	16	297	219	74	5

1 The source of stand inventory information is OSCUR grown forward with a growth model.
2 Net acres, unless otherwise noted, are based on orthophotos and does not include stream buffers or roads within partial cut units.
3 Target data for partial cuts is based on conifer trees over 8 inches DBH.

III. DESIRED STAND CONDITION:

The entire area has a Desired Future Condition of General.

Table 3. Stand Structure Information (Net Acres)

Area	Stand ID	Current	Post Harvest	Desired Future	Acres
I	221	UDS	UDS	GEN	28
II	247	UDS	REG	GEN	5
III	254	UDS	UDS	GEN	15
III	226	UDS	UDS	GEN	24
IV	220	UDS	REG	GEN	16
IV	216	UDS	REG	GEN	5
V	220	UDS	REG	GEN	15
V	216	UDS	REG	GEN	5
					116

Post Harvest: The stand is expected to develop into this condition in the five to ten years after this operation is completed.

IV. PROPOSED MANAGEMENT PRESCRIPTION:

Areas II, IV, & V: Modified clear cut. Three overstory conifer per acre will be left scattered within the units and a 4 acre leave unit will be left between Areas IV and V. 65 snags will be created within the units and 25 snags will be created in the 4 acre leave unit.

Areas I & III: Thin to an RD of about 29 to 36, counting only conifer trees over 8 inches and leaving the largest conifer and all the hardwood.

All Areas: Down Wood. Some down wood already exists in the units. Additional down wood will come from tops required to be left, broken pieces, missed logs, and the tops of created snags. No trees will be felled specifically to create additional down wood

V. ESTIMATED TIMBER AND REVENUE INFORMATION:

Table 4. Timber and Revenue

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
100%	%		X
Planned Quarter: 4			

	Conifer	Hardwood	Total
Net Volume (MBF)	2600	50	2650
Stumpage Value ($/MBF)	$350	$350	
Estimated Gross Value	$910,000	$17,500	$927,500
		Project Costs:	$136,000
		Estimated Net Value:	$791,500

VI. TRANSPORTATION PLANNING AND HARVESTING:

About 65% of the partial cut units can be tractor logged, but all of the clearcut units are cable.

2.6 miles of new construction will be required and 0.8 miles of road improvement (culverts and rocking). All construction will be low use roads. Spurs 9 and 10 and the improvement leading to Spur 10 will be rocked to allow winter logging to capture the high winter log prices and to encourage logging during periods of low fire danger. Spurs 6 and 7 are being constructed for a large hardwood sale planned for 2009. These spurs and the improvement leading to them will be

rocked. Rocking will not be required for the other spurs. They will be waterbarred and blocked after construction.

All road construction and improvement is on gentle to moderate ground.

The sale area will be open to the public. The sale requires R/W from BLM and private.

Table 5. Transportation Planning Summary (Miles).

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct	0	0	1.8	0.8
Improve	0	0.8	0	0
Maintain	0	2.1	1.8	0.8
Close/Block	0	0	0	0.8
Vacate	0	0	0	0

VII. AQUATIC RESOURCES AND WATER QUALITY:

The sale area contains small non-fish streams. Most are probably perennial. The stream channel between Areas I and IV completely disappears before it intersects with the Nelson Creek Road, and apparently no water flows across the road even in storms. But the stream is perennial a few hundred feet into the harvest unit. A potentially Type F stream runs between Areas IV and V.

Management activities within riparian areas of streams will focus on achieving properly functioning aquatic and riparian habitat conditions over time. Riparian Management Areas (RMAs) will be established immediately adjacent to streams for the purpose of protecting aquatic and riparian resources and maintaining the functions and ecological processes of the streams. The Management Standards for Aquatic and Riparian Areas found in the *NWO State Forests Management Plan* (pg. J-1 - J-16) will be the minimum standards followed within these RMAs.

VIII. T&E SPECIES CONSIDERATIONS:

T&E Birds: The sale is not within an active spotted owl circle and is not near a marbled murrelet management area.

A preliminary biological assessment has been completed by the Area biologist. This assessment concludes that the sale is currently consistent with ODF's policies for northern spotted owls and marbled murrelets.

T&E Plants: The sale area was checked against the Oregon Natural Heritage Program (OHNP) database of known listed plant locations. The sale area was also checked against district knowledge for any listed plant location. No listed plant records were identified within the sale area.

IX. SLOPE STABILITY AND GEOTECHNICAL ISSUES:

There are a few isolated high landslide hazard locations in Areas II, III, IV, and V. The risk to Nelson Creek and its tributaries is low for all areas. However, all areas in the timber sale appear to be on or adjacent to a large landslide landform. If signs of recent landslide activity are identified during timber sale layout, the geotechnical specialist will be consulted. In addition, if high landslide hazard locations are identified during timber sale layout, the geotechnical specialist will be consulted.

X. RECREATION RESOURCES:

Hunters, mushroom pickers, and backroad drivers occasionally use the existing roads. New roads will increase recreational opportunity.

XI. CULTURAL RESOURCES:

No cultural resources sites are known to exist in the area.

XII. SCENIC RESOURCES:

The area is not visible from public roads or homes.

XIII. OTHER RESOURCE CONSIDERATIONS:

None known.

XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:

This table summarizes the acres of Focused and Special Stewardship within the operations. The acres in each operational area in this table do not necessarily add up to its gross or net acres, because of overlapping classifications under the Land Management Classification System. For example, a particular acre can be classified as Focused Stewardship for Aquatic and Riparian, Recreation, and Scenic resources.

Table 6. Land Management Classification Summary

Area	LMCS Subclass	Focused Stewardship	Special Stewardship
II	Aquatic & Riparian	1.0	0
III	Aquatic & Riparian	0.5	0
IV	Aquatic & Riparian	0.5	0
V	Aquatic & Riparian	2.0	0