Steep Slope Logging – Risk Assessment and Site Pre-Work																	
Date								Licensee/Owner									
Cutting Permit							Contractor				,						
Block			Steep Slope (range							Location within Block							
Machine			Max Slop allowed	pe %			Operat	or					nate s to	-			
Machine			Max Slope % allowed				Operator							of do			
Appropriate Information Supplied by Owner (map, slope %							%, haz	ards)	Y	es							
Assessor Qualified to Conduct Steep Slope Assessment							t		Y	es							
Risk Assessment of Steep Slope						Site	Site Specific Procedures (Refer to Part 2 – Safe Work Practices for Steep Slope Operations)										
Note: Site specific procedures must be developed for each type of machine that is operating on the steep slope.																	
Slopes greater than 35% for wheeled machines						Yes	N/A										
Slopes greater than 40% for tracked machines						Yes	N/A										
Unstable Ground (slumps, Terrain Stability Field Assessment, talus)						Yes	N/A										
Ground Roughness (boulders, rock outcrops, hummocks, gulleys)						Yes	N/A										
Unsafe slopes below operating area						Yes	N/A										
Shallow Soil Depth over Bedrock						Yes	N/A										
Soil conditions (sandy or saturated organic soils, consider how logging may affect water flow and soils on site)					Yes	N/A											
Poor winter ground conditions (poor snow, minimal frost depth on site)					Yes	N/A											
Slash (amount, elevated, size)						Yes	N/A										 
Poor visibility (snow, fog, night shift)					Yes	N/A											
Harvest Plan Requirements (reserve areas, leave trees, planned skid trails)						Yes	N/A										
Oversized Trees (size, weight and species)						Yes	N/A										
High Stumps (what is the allowable stump height)						Yes	N/A										

Isolated Work (how close is machine assistance to overcome a difficulty)			N/A					
Other:		Yes	N/A					
S	teep Slope Pre-Work			Check that the following requirements are in place and communicated with all workers on site.				
Steep slopes and No mapped and map pro	Go areas are easily identified, vided to workers.	Yes	N/A					
Manual Tree Falling F	Required	Yes	N/A					
	minimized (consider shift of consecutive days on shift)	Yes	N/A					
Machine capabilities a (tree size and weight)	appropriate for timber type	Yes	N/A					
Confirm good working condition of machine(s) (hydraulics, tires/tracks, ROPS, guarding, seatbelts, escape hatches)			N/A					
Operator Competency (check experience and training)			N/A					
Operator State of Min plan – Avoid fatigue, r	d – alertness, understanding of ushing, complacency	Yes	N/A					
	ure slope %, stop operations if and contact supervisor	Yes	N/A					
Skid trail construction discussed)	(locations and specs	Yes	N/A					
Supervision and Man-	check frequency	Yes	N/A	Who: How Often:				
Emergency Response	Plan in place	Yes						
Reassessment Date and Update to Site Specific Procedures:								
Date:	Updates:							
	T							
Date:	Updates:							
Signatures:	-							
	Operators							
(	Qualified Assessor							
	Supervisor							

# Using the Steep Slope - Risk Assessment and Site Pre-Work Form

**Who** – As described by WorkSafeBC Regulation 26.16, the steep slope hazard assessment must be completed by a *qualified* person. WSBC OHS Regulation Part 1 provides the following definition of a qualified person: "being knowledgeable of the work, the hazards involved and the means to control the hazards, by reason of education, training, experience or a combination thereof".

Refer to the Steep Slope Logging Resource Package for more information on qualified assessors.

**Where** – As specified by WorkSafeBC OHS Regulation 26.16, on all slopes over 35% (wheeled equipment) or 40% (tracked equipment) where mechanical harvesting is planned and the manufacturer's maximum slope operating stability limit is not known.

**What** – Complete the Steep Slope Hazard Assessment, develop site-specific Steep Slope Procedures and conduct a Pre-Work Meeting to brief operators on those procedures.

**When** – Before harvesting operations commence.

#### How:

### Follow these steps:

- 1. Page 1 Complete the top part of the form to identify the area / unit under the assessment and plan.
- 2. Use a map that shows block boundaries, roads, steep slope sites, riparian areas, sensitive soils, etc. Consult other key information (e.g. preliminary steep slope assessment map, Terrain Stability Field Assessment map, etc.).
- 3. Field review (walk) the area planned for mechanical harvesting operations. Identify sites with slopes / characteristics that pose machine stability risks. If site conditions change during the operation, it may be necessary to re-evaluate and complete another assessment.
- 4. On the form, check off those conditions that pose a risk for machine stability. For each condition with a "Yes" checked, write the site specific procedures that will be followed to allow safe operations on that slope.
- 5. Consider State of Mind, Operator Competency and Duration of Exposure for operators that will conduct the work.
- 6. Consider other Site Features (e.g. convex slopes, bluffs, gullies, benches, escape routes) plus operational constraints (e.g. soil disturbance limits, retention strategy, danger trees, upslope terrain stability or avalanche risk). Identify each one; consider how they will affect operations.
- 7. If stability risks cannot be adequately controlled, designate and map area as "No Go". Develop an alternate harvest plan or amend boundaries to exclude (e.g. designate as WTP).
- 8. Conduct a pre-work meeting to communicate the hazards site specific procedures to all the workers and supervisors who will be involved in the steep slope operation.

#### Steep Slope Logging Legal Responsibilities

Before starting steep slope logging operations it is important to review the legal responsibilities for the owner, employer, prime contractor (if it is a multi-employer worksite), supervisor and operators. Review the list below to see if these requirements have been met.

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### **Owner Responsibilities**

- Provide all of the known information to the employer/prime contractor so they can eliminate or control steep slope hazards (e.g., maps with slopes and related information).
- Conduct and plan for steep slope operations and acceptable safe work procedures that are consistent with the Occupational Health and Safety Regulation.
- Ensure steep slope plans have been reviewed and acknowledged, and that a system is in place to ensure compliance.
- Identify conditions and activities that are associated with known or foreseeable risks to workers.
- Conduct and document advance planning for the work.

### **Prime Contractor Responsibilities**

- Establish and maintain a system to ensure compliance with the Act and OHSR, and coordinate health and safety at the workplace.
- Conduct and plan for steep slope operations that are consistent and compliant with the OHSR.
- Ensure acceptable safe work procedures are in place that meet guideline requirements.
- Identify conditions and activities that are associated with known or foreseeable risks to workers.
- Ensure advance planning has been conducted and documented for the work.

## **Employer Responsibilities**

- Ensure the health and safety of your workers as well as the other workers onsite.
- Adequately instruct, train, and supervise workers in steep slope operations.

#### **Supervisor Responsibilities**

- Actively supervise and monitor steep slope operations
- Not knowingly allow a worker to operate mobile equipment in a way that could create an undue hazard.

## **Operator Responsibilities**

- Follow acceptable safe work procedures.
- Report any hazards encountered to the supervisor.
- Stop work if the plan uncovers any high risk issues (e.g., the machine slips down the hill or equipment is being pulled with attachments).
- Operate the mobile equipment safely.

References: The Workers Compensation Act, Occupational Health and Safety Regulation and WorkSafeBC's Steep slope logging checklist.