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**IDAPA 07
TITLE 08
CHAPTER 17**

**07.08.17 – IDAHO MINIMUM SAFETY STANDARDS AND PRACTICES FOR LOGGING –
CABLE-ASSISTED LOGGING SYSTEMS**

000. LEGAL AUTHORITY.

Pursuant to the provisions of Section 67-2601A, Idaho Code, the Division of Building Safety has the authority to promulgate and adopt rules for affecting the purposes therein. (3-28-18)

001. TITLE AND SCOPE.

These rules shall be cited as IDAPA 07.08.17, “Idaho Minimum Safety Standards and Practices for Logging – Cable-Assisted Logging Systems,” and shall be applicable to the logging industry in the state of Idaho. (3-28-18)

002. WRITTEN INTERPRETATIONS.

There are no written statements which pertain to the interpretation of these rules. (3-28-18)

003. ADMINISTRATIVE APPEALS.

The procedure for appeals in logging safety matters is prescribed by IDAPA 07.08.16, “Idaho Minimum Safety Standards and Practices for Logging – Recommended Safety Program,” and Title 67, Chapter 52, Idaho Code. (3-28-18)

004. INCORPORATION BY REFERENCE.

There are no documents that have been incorporated by reference into these rules. (3-28-18)

005. OFFICE – OFFICE HOURS – MAILING ADDRESS AND STREET ADDRESS.

The principal place of business of the Division of Building Safety, Logging Safety Program, is at the Division office located at 1090 E. Watertower Street, Suite 150, Meridian, Idaho 83642. The Logging Safety Program may also be contacted at 1250 Ironwood Drive, Suite 220, Coeur d’Alene, Idaho 83814, and at 2055 Garrett Way, Suite 4, Pocatello, Idaho 83201. All locations are open from 8:00 a.m. to 5:00 p.m., except Saturday, Sunday and legal holidays. The telephone number of the office is (208) 334-3950. The facsimile number of the office is 1-877-810-2840. The Department website is <http://dbs.idaho.gov>. (3-28-18)

006. PUBLIC RECORDS ACT COMPLIANCE.

The rules contained herein have been promulgated according to the provisions of Title 67, Chapter 52, Idaho Code, and are public records. (3-28-18)

007. – 008. (RESERVED)

009. DEFINITIONS.

For additional definitions to those contained herein, this chapter may refer to IDAPA 07.08.01, “Idaho Minimum Safety Standards and Practices for Logging -- General Provisions,” Section 007, and IDAPA 07.08.15 “Idaho Minimum Safety Standards and Practices for Logging – Commonly Used Logging Terms.” (3-28-18)

01. Cable-Assisted Logging Systems. Logging systems, including but not limited to, winch-assisted, cable-assisted, tethered and traction-assisted systems, that enable ground-based timber harvesting machines including but not limited to feller bunchers, harvesters, loaders and shovels to be operated on slopes. (3-28-18)

02. Competent Person. An individual who is capable of identifying existing and predictable hazards in the work site surroundings or working conditions which are unsanitary, hazardous or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate such. (3-28-18)

03. Qualified Person. An individual who, by possession of a recognized degree, certificate or professional standing, or who by extensive knowledge, training and experience, has successfully demonstrated the ability to solve or resolve problems relating to the subject matter, the work or the project. (3-28-18)

010. MACHINE SAFETY REQUIREMENTS.

01. Harvesting Machines. Harvesting machines for cable-assisted logging operations shall comply with each of the following: (3-28-18)

- a.** Meet the protective structure requirements set forth in IDAPA 07.08.10.010; (3-28-18)
- b.** Be equipped with a certified roll-over protective structure (ROPS); and (3-28-18)
- c.** Be equipped with at least a four (4)-point restraint system approved by the machine's manufacturer or a qualified person. (3-28-18)

02. System Approval. The cable-assisted logging system shall be designed and constructed for cable-assisted logging applications by the original equipment manufacturer, or approved for cable-assisted logging applications in writing by the original equipment manufacturer or a registered professional engineer. (3-28-18)

03. Operation of System. The cable-assisted logging system shall be operated, inspected and maintained in accordance with the manufacturer's recommendations, specifications and limitations, or if no manufacturer's recommendations exist, then by the recommendations of a registered professional engineer. Cable-assisted logging systems not in safe operating condition shall be removed from service until repaired by a qualified person. (3-28-18)

011. TETHERED LINE SAFETY REQUIREMENTS.

01. Inspection of Tethered Lines. Tether lines shall be new wire rope and have a rated breaking load according to the cable-assisted logging system manufacturer's recommendations and specifications. At a minimum, a competent person shall inspect the entire length of each tether line and drum connection prior to the startup of each cable-assisted logging operation, and thereafter on a monthly basis. A competent person shall also inspect the first fifty (50) feet of each tether line daily prior to use. These inspections shall be documented in writing. Tether lines must not be spliced and shall be replaced if there is evidence of chafing, sawing, crushing, kinking, crystallization, bird-caging, significant corrosion, heat damage, other damage that has weakened the tether line, or if the tether line reaches two thousand (2,000) hours of use. (3-28-18)

02. Line Tension. The tether line tension and machine travel shall be synchronized to ensure tether line tension is continuously provided and does not exceed thirty-three percent (33%) of the rope's rated breaking load. The operator shall have an immediate and self-reliant or automated method to identify tether line tension, winch rotation and speed, amount of line on and off the drum, and anchor movement. (3-28-18)

03. Tether Line Components. All tether line assembly components shall be rated with a greater safe working load than the wire rope. Tether line attachment points and hitches shall be engineered and certified to maintain a safety factor equal to or greater than the recommendations and specifications of the cable-assisted logging system manufacturer. Inspections of tether line assembly components (except drum connection as specified in Subsection 011.01 of these rules), hitches, winches, machines, and anchors shall be performed daily by a competent person prior to use. (3-28-18)

012. OPERATION AND SAFETY REQUIREMENTS.

01. General. Cable-assisted logging systems shall be operated, inspected and maintained in accordance with the manufacturer's recommendations and specifications. Inspections shall be documented in writing. (3-28-18)

02. Planning. All cable-assisted logging operations shall be planned by the operator and a competent person who has the knowledge, training or experience to identify existing and predictable hazards in the work site surroundings or working conditions, which could be hazardous to employees, and has been authorized by the employer or employer representative to eliminate the hazard or take corrective action therefrom. Items to consider during site-specific planning must include, but are not limited to, the following: (3-28-18)

- a.** Experience of the operator; (3-28-18)

- b. Limitations of the equipment; (3-28-18)
 - c. Soil and terrain conditions; (3-28-18)
 - d. Environmental conditions; (3-28-18)
 - e. Poor visibility and lighting conditions; (3-28-18)
 - f. Weather conditions; (3-28-18)
 - g. Direction of travel; (3-28-18)
 - h. Requirements for turning the machine on slopes; (3-28-18)
 - i. Load sizes; (3-28-18)
 - j. Method and adequacy of anchorage; and (3-28-18)
 - k. Any other condition that may adversely affect operations. (3-28-18)
- 03. Operator Qualifications.** Cable-assisted logging operators shall have documented training or adequate experience to safely operate the equipment on slopes. (3-28-18)
- 04. Operating Plans.** A cable-assisted logging system operator shall have a written operating plan on site detailing the following: (3-28-18)
- a. Tether line replacement criteria; (3-28-18)
 - b. Cable size, type and breaking strength, and method of assurance that tensions do not exceed one-third (1/3) of breaking strength to maintain a 3:1 safety factor or greater; (3-28-18)
 - c. Inspection and maintenance to be performed on tether lines, end connectors, machines and winches; (3-28-18)
 - d. How the operator will use tension limiting controls to maintain desired tension; (3-28-18)
 - e. How the winch cable tension and machine travel are synchronized; (3-28-18)
 - f. How the operator will monitor machine slope, anchor movement, winch tension, amount of line on and off drum, and winch function; (3-28-18)
 - g. How the tether line attachment points to the harvesting machine are engineered to withstand potential loads; (3-28-18)
 - h. All harvesting machine modifications that allow it to operate on steep slopes, including operator harness or restraint system; (3-28-18)
 - i. How pre-operations planning and daily assessments will identify hazards for soil and terrain conditions; (3-28-18)
 - j. How the operator will determine if soil and terrain conditions are unsafe during operations; (3-28-18)
 - k. How operators will report new hazards identified during operations; (3-28-18)
 - l. Operating guidance given to the operator; and (3-28-18)

m. How emergencies are handled by the system, including line failure, machine failure, winch failure, anchor failure, winch machine movement or anchor movement, and whether there is an emergency stop for the operator or at the anchor. (3-28-18)

05. Unsafe Conditions. The employer shall establish and use procedures for operators to report unsafe conditions to a supervisor or qualified person. Such conditions must be corrected prior to resuming cable-assisted logging operations. Procedures shall also include steps to take in the event of equipment breakdown and for upset conditions. (3-28-18)

06. Warning Signs. Effective signage shall be affixed to all remotely operated equipment warning employees and others that lines and machines may start, stop, or move without warning. All employees working in close proximity of cable-assisted logging operations must receive training that enables them to recognize the potential hazards involved and to maintain safe distances. (3-28-18)

013. -- 999. (RESERVED)

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