WSP
Log Load Securement Training

WSP
Log Load Enforcement Date

July 1, 2004

WAC 204.44 and CFR393.116

Review of existing policy

- WTA concerns
- FMCSA replies to industry
- FMSCA load Securement Rules in effect January 04,2004
- Moratorium on 393.116-WAC 204.44
- New policy in effect July 1, 2004

Vehicle Descriptions

◆ Framed Vehicle:

A vehicle with a skeletal structure with one or more bunks.

Flatbed Vehicle

Vehicle Descriptions

◆ Log trailer:

A vehicle which is designed to be drawn by another motor vehicle and attached to the towing motor vehicle by means of a "reach" or "pole", or by being "boomed" or otherwise secured to the towing motor vehicle.

Minimum Tie Down Requirements

- CFR 393.116(f)(1-4)
- One tiedown required at each end
- Two additional for Large Diameter Logs that rise above the bunks(48 inches)

- WAC 204.44.02001
- One to three wrappers required depending on number and length of logs
- Two wrappers required for top or outside log

Minimum Tie Down Requirements

◆ Each log that is not held in place by contact with other logs or stakes, bunks, or standards must be held in place by a tiedown.

Minimum Tie Down Requirements

Out of Service Criteria

◆ CVSA Out of Service Criteria States:

"Logs not secured per the specific securement requirements for this commodity type". (CFR 393.116)

Working Load Limit (WLL)

◆ Aggregate WLL of tiedowns securing a stack of logs must be no less than 1/6 the weight of the stack of logs.

◆ Example: The WLL of a load of logs weighing 48,000 pounds is 8,000 pounds.

Working Load Limit (WLL)

◆ Question: What is the WLL of a wrapper consisting of 3/8 wire rope?

◆ How many will be needed to secure a load of logs that weigh 48,000 pounds?

Placement of Wrappers

- CFR393.116(F)(2)

- Front and rear wrappers need to be at least 10 feet apart

- Logs not held in place by contact with other logs or the stakes, bunks or standards must be held in place by a tiedown

- WAC 204.44.020(d-f)
- Front and rear wrappers located within 6 feet of the stakes
- On short logs wrappers will be placed no less than 12" from end of log
- Logs on top or outside shall be secured with at least 2 wrappers

Placement of Wrappers

Loading Requirements
CFR 393.116(c)(1-4)

◆ Logs must be solidly packed

◆ Outer bottom logs must be in contact with and resting solidly against bunks, stakes/standards or bolsters

Loading Requirements
CFR 393.116(c)(1-4)

Loading Requirements
CFR 393.116(c)(1-4)

◆ Each outside log must touch at least 2 stakes/standards, bunks

◆ Center of highest log on each side or end must be below the top of each stake/standard or bunk

Loading Requirements
CFR 393.116(c)(1-4)

Loading Requirements
CFR 393.116(c)(1-4)

Loading requirements continued

◆ Upper logs that form the top of the load must be crowned and held in place by a tie down if not held in place by contact with other logs, stakes/standards or bunks

Loading requirements continued

◆ Crowning represents the natural shape of a group of logs held together and ensures logs on edges of crown are held in place by tiedowns

Loading Requirements Continued

- CVSA Out of Service Criteria States:

  "Logs not secured per the specific securement requirements for this commodity type". (CFR 393.116)

ShortWood and Tiedowns

◆ Definition:

All logs typically up to 16 feet long

ShortWood and Tiedowns

- CFR 393.116
- Each stack must be secured by at least 2 tiedowns that go over the logs
- One tiedown may be used on the stack if the stacks are blocked in the front and rear. By the load or front and rear end structure

- WAC 204.44.020
- A minimum of two wrappers required determined by the number and length of logs.

ShortWood and Tiedowns

Out of Service Criteria

◆ CVSA Out of Service Criteria States:

"Logs not secured per the specific securement requirements for this commodity type". (CFR 393.116)

◆ WAC violations by themselves are not Out of Service Violations

Recording Violations on UVDIR

- Violations of the CFR will be recorded utilizing the appropriate CFR and applying the CVSA Out of Service criteria.

Recording Violations on UVDIR

◆ Violations of the WAC will be recorded as Local Laws CFR 392.2 and they will only be placed out of service if violations of CFR Securement requirements exist

Questions????