

IS YOUR GYMNASIUM SAFE

Basketball Backstop Failures

• Most Overlooked Piece of Equipment in Regards to Safety

- Movable portion of a backstop system can weigh close to 1000 lbs, and is suspended 20 to 30 feet above the court floor
- Thousands of pounds of force on impact when systems fails
- Cause injury to people below, damage to backstop structure and facility

• What Causes Failures?

- Winch internal gear failure
- Loose Cable Clamps
- Loose Beam Clamps
- Cable wear causing pulley system to malfunction
- Beam clamp weld failure
- Loose Bolts
- Limit switches not functioning properly

• Preventing Failures

- Fully Automatic Safety Strap - acts as a backup in case the cable ever failed
- Routine Inspections and Equipment Preventative Maintenance:
 - Install safety strap or inspect existing safety strap belt for any signs of wear
 - Perform pull test on safety strap belt to test the units function
 - Inspect and tighten bolts where needed
 - Check all moving parts for signs of wear and replace as needed
 - Lubricate moving parts where required
 - Replace winch cable every two years or immediately if visible wear
 - Inspect and adjust limit switches