

STORED ENERGY

DON'T LET THE PRESSURE GET TO YOU!

ENERGY SOURCES ARE ALWAYS PRESENT AND EVERY ASPECT OF OUR DAILY LIVES REQUIRES THE USE OF ENERGY IN ONE FORM OR ANOTHER. STORED ENERGY IS "PENT UP" ENERGY THAT CAN BE RELEASED SUDDENLY.

HERE ARE SOME EXAMPLES OF COMMON FORMS OF STORED ENERGY:



GRAVITY



ELECTRICAL



MOTION



PRESSURE



MECHANICAL



TEMPERATURE



BC Forest Safety

Safety is **good** business



STORED ENERGY: DON'T LET THE PRESSURE GET TO YOU!



COMMON TYPES OF STORED ENERGY

- Gravity – Enables objects or people to trip and fall
- Motion – The movement of vehicles, vessels, water, wind or even people
- Mechanical – Rotating equipment (chipper heads), drive belts, conveyers, motors or compressed springs
- Electrical – Including power lines, transformers, static charges, capacitors, wiring, photo eyes and batteries
- Pressure – Piping, compressed cylinders (accelerators), hydraulic equipment, tanks, hoses, etc.
- Temperature – Hot or cold surfaces, steam, friction and weather

HOW CAN YOU IDENTIFY HAZARDS AND PREVENT INJURIES ASSOCIATED WITH STORED OR PENT-UP ENERGY?

- When performing a pre-work Field Level Hazard Assessment (FLHA) - consider stored energy
- Always use Lockout and verify a zero energy state prior to commencing work
- Determine if there are multiple energy sources present on the same piece of equipment (common energy sources associated with sawmill machinery include electrical, pressure, kinetic, heat and gravity)
- Have all energy sources been adequately de-energized? Common misses include gear/reduction units, hydraulic lines, chipper heads (kinetic energy) and pneumatic lines
- Carefully bleed-off stored energy in cylinders, pipelines and receivers (Are the shut-off valves self-bleeding?)
- Look out for alternate supply feeds, bypassed interlocks, photo-eyes (controlled by separate electrical sources) or valves that may not be properly closed
- When applying force (push or pull), be prepared for an unexpected slip or release of stored energy
- Keep clear of suspended loads, open gates, etc. and always consider the force of gravity
- Always use the right tools for the job and ensure those tools are in good working condition
- Recognize that Personal Protective Equipment is your last line of defense

HAVE YOU IDENTIFIED ALL POTENTIAL TYPES OF STORED ENERGY IN YOUR WORK AREA?

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