

URGENT: INDUSTRY SAFETY ALERT

"Independent laboratory testing via Intertek and certified structural PE stamps have verified that the kinetic gap and resulting multi-directional internal torso trauma inherent in traditional flexible horizontal lifelines (HLLs) are no longer technologically unavoidable. The **Safety Anchor Post System Trajectory Control™** establishes a new, empirical benchmark for true travel restraint, limiting Average Arresting Forces to 214 lbs.

Pursuant to established owner-liability doctrines (Ref: Unocal Framework), a failure to implement a known, certified, and economically feasible hazard-elimination system—while retaining control over site safety specifications—constitutes a failure to exercise reasonable care regarding a recognized latent hazard."

NOTICE OF RECOGNIZED HAZARD

Verification: Intertek Report Nos. 104693225CRT-001 and 106442885CRT-001.

The medical reality of a compliant 1,800 lbs arrest is devastating. When a harness transfers this force, it sets off a brutal sequence of **Visceral Migration and Fluid Hydraulics**:

- **Traumatic Visceral Migration & Diaphragmatic Herniation:** The heart, lungs, liver, and kidneys are thrown against the chest wall. Hydrostatic pressure spikes split the structural fibers of the respiratory diaphragm, driving internal organs upward into the chest cavity.
- **Regional Shear Boundaries:** *Traumatic Aortic Disruption* occurs as the heart pitches forward while the descending thoracic aorta remains fixed, causing tearing at the aortic isthmus. *Hepatic and Splenic De-gloving* follows as dense organs swing forward, ripping from their vascular beds.
- **Fluid Cavity Pressure Spikes & Spallation:** Constriction acts as a mechanical piston, causing vascular pressure spikes. As waves transition from dense solid organs to hollow gas-filled cavities (bowel/alveoli), *spallation* triggers microscopic implosions, ripping mesentery webbing.
- **Suspension Trauma:** Pooling of blood causes rapid orthostatic shock, turning a "compliant" arrest into a slow, silent death.