Purpose : To list **SIF Pre-Cursor Categories (in bold)** and specific *SIF Pre-Cursors (in italics)*that may occur in operatons and contractor activities, based on Global HSE and local HSE Event data.

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| **Working from heights\*\***:   1. *Fall from ladder or scaffold (> 6ft.), scaffold collapse\*\** 2. *Fall from roof, canopy, platform or mezzanine\*\*(> 6 ft.)* 3. *Unexpected elevation change* 4. *Fall from JLG / manlift\*\** 5. *Fall from pipe arbor, tank, tanker/railcar\*\** | **Whole body contact with energized equipment/ materials**:   1. *Movement past barrier or guard (robots)* 2. *Improper use of Lockout/Tagout\*\** 3. *Contact with uncontrolled ejection of parts/ fluids/ materials* 4. *Failure to Lockout/Tagout\*\** |
| **Confined Space Entry**:   1. *Unexpected formation of hazardous atmosphere (i.e. potential for an IDLH/ inert atmosphere)\*\** 2. *Improper execution of CSE permit or procedure* 3. *Freeze Dryer confined space entry* 4. *Inadequate communication(s) between humans* 5. *Atmospheric monitor failure* 6. *Inert atmosphere (welding)* 7. *Improper Trenching work* \*\* | **Heavy Equipment & Forklift / Powered Industrial Truck operations\*\***:   1. *Contact with pedestrian* 2. *Dock drive-off* 3. *Forklift / PIT tip-over or speeding* 4. *Surface or grating failure* 5. *Carrying a wide load or failed lifting controls* 6. *BoomLift Entrapment/ Failure* 7. *Scissor Lift rollover/failure* |
| **Electrically Classified Area / High Voltage Electrical Work\*\*:**   1. *Servicing/Troubleshoot/Repair* 2. *New installation/Demolition* 3. *Worn / cut / welding cables* 4. *Water or moisture near electrical source* | **Fires and Explosions:**   1. *Failure of pressure vessel\*\** 2. *Combustable Dust explosion\*\** 3. *Event results in an evacuation* 4. *Improper Flammable Liquid Spill Cleanup/Storage* 5. *Improper High Pressure Steam work\*\** |
| **Falling Object Potential\*\*:**   1. *Mechanical failure - dropped load* 2. *Improper stacking* 3. *Failure of overhead structure* 4. *Items left on roof-tops (can be blown over)* | **Bulk toxic chemical handling\*\*:**   1. *Overexposure; acute > IDLH* 2. *Unexpected formation of hazardous levels* 3. *Emergency response to spill or release* 4. *Irresponsible placement of a container* 5. *Tie into wrong lines for breathing air* 6. *Oxygen Deficient Atmospheres \*\** |
| **(Other):** | **(Other):** |

***\* SIF Pre-Cursor: A high risk situation, in which management controls are either absent, ineffective, or are not complied with and if allowed to continue or repeat could reasonably result in a serious injury or fatality***

\*\*Denotes a SIF Pre-Cursor Category or SIF Pre-Cursor that is captured on the Contractor HSE Pre-Planning Checklist.