Developed Rules Regarding
High-Energy Controls

1. When a Direct Control is not feasible, there must be at least two Alternative Controls, and they must represent different categories *(Physical Obstacle, Direct Monitoring, and Visual Reminder).*

2. Alternative Controls must specifically target the HE (intentionally and not incidentally).

3. For any Alternative Controls, all creating/exposed workers must have the following that are directly related to the HE hazard and corresponding alternative controls:

- Verified specialty training (i.e., does not include general orientation)
- Safe Work Plan
- Quality Pre-Job Brief

4. The following are not part of Alternative Controls:

- Experience
- Rules
- Situational Awareness of the person at risk (i.e., a spotter is not covered by this rule)

5. Spotters: To be part of an Alternative Controls, spotters must be individuals whose sole duty during the period of exposure to an existing or potential HE hazard is the continuous monitoring of all interaction with the HE Hazard. Spotters must also have continuous communication with all workers involved in the creation of and/or exposure to the HE hazard (i.e., both the machine driver and adjacent worker on foot). Spotters may not be exposed to energy hazards equal to or greater than 1500 joules without either their own Direct or Alternative Controls measures in place.

6. Flaggers: Flaggers must provide dedicated attention to the management of a specific high-energy hazard.

7. Communication: To be part of an Alternative Control, communication must be clear, unambiguous (i.e., in a shared preferred language), uninterrupted, specific to the HE hazards and via a clear and dedicated device/channel. This level of communication must include all workers involved in the creation of and/or direct exposure* to the HE hazard (e.g., crane operator and all workers receiving the suspended load). *within 6ft.

8. Signage: Signs must adhere to the following criteria

- Signage must communicate information about something unusual, hidden, or unexpected, providing critical details regarding a Hazardous Energy (HE) hazard that is not visibly apparent (e.g., electricity).
- Signage must include writing, symbols, or visuals that ensure complete understanding , taking into account preferred language and literacy of all exposed employees.

Notes:

- Alternative Controls are relevant only when they are in place during the work.
- Alternative Controls are primarily designed to mitigate human errors rather than solely reducing energy levels.
- Many Alternative Controls require supporting processes such as jSAs, Pre-job briefs or permits.