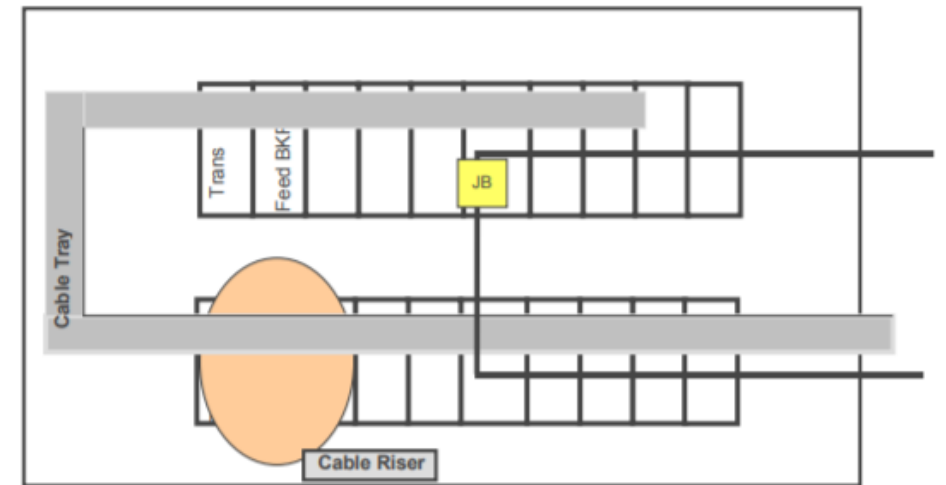


# Zone of Influence (ZOI)

- NUREG/CR-6850 Definition (generic): A volume surrounding an ignition source where all intervening combustibles and targets may be adversely affected by a fire initiated by the ignition source.
- NUREG/CR-6850 (HEAF-specific severity factors): “High-energy arcing faults are modeled assuming damage to a predefined zone of influence. The severity factor is 1.0 due to the assumption that the fire will propagate and/or damage equipment within the zone of influence.”



ZOI Illustration (NUREG/CR-6850 Appendix M, Figure M-1)

# Does AI HEAF Require a Change to Modeled ZOI?

## It is a safety concern warranting action

- OECD non-prototypic test but no ZOI measured

## It is not a safety concern

- Cables very robust
- ~100,000 of component operating years with AI widespread
- No op ex shows an increased ZOI
  - Harris HEAF with AI
    - Actual ZOI bounded by currently modeled ZOI
    - Cables within ZOI functional
  - Robinson within modeled ZOI
- Appendix R separation – change in ZOI would have to be very large