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5. Diodes shall not be used to separate vital circuits where their failure (opening or shorting) could cause an unsafe condition. Instead, separate relay contacts should be used in each circuit.
  6. External devices, such as resistors, diodes, or capacitors, shall not be used for making relays slow release where their failure could cause an unsafe condition. Slow release relays using a fail-safe mechanism, such as copper or aluminum slugs in the magnetic path, shall be used.
  7. Non-vital relay contacts should not be used in the middle of any vital circuits, as they may cause false energy to be applied at that location in the circuit. When used, they shall be placed at the energy end of the circuit so that bridging of contacts will only remove the non-vital break from the circuit.

Draft Not Yet Approved