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IEC 60364-5-56 pdf free download.Low-voltage electrical installations – Part 5-56: Selection and erection of electrical equipment – Safety services. 560.5.4 A failure in the control or bus systems (control technology) of the non-safety services installation shall not adversely affect the proper function of safety services. This applies to control or bus systems of different safety services as well. 560.6 Electrical sources for safety services 560.6.1 The following electrical sources for safety services are recognized: — storage batteries; — primary cells; — generator sets independent of the normal supply; — a separate feeder of the supply network that is effectively independent of the normal feeder. 560.6.2 The electrical source for safety services shall be installed as feed equipment and in such a manner that it cannot be adversely affected by failure of the normal source. 560.6.3 The electrical source for safety services shall be installed in a suitable location and be accessible only to skilled or instructed persons (BA5 or BA4). Electrical sources for safety services should be segregated from other sources. Safety services and sources shall be designed and located so as to minimize hazards that could cause fire, flooding, freezing, vandalism and other adverse conditions and impact the availability of the electrical supply. NOTE See Annex G for guidance. 560.6.4 The location of the electrical source for safety services shall be properly and adequately ventilated so that exhaust gases, smoke or fumes from the safety source cannot penetrate areas occupied by persons. 560.6.5 Separate, independent feeders from a supply network shall serve as electrical sources for safety services unless assurance can be obtained that the two supplies are unlikely to fail simultaneously. 560.6.6 The electrical source for safety services shall have sufficient capability to supply its related safety services. 560.6.7 An electrical source for safety services may also be used for purposes other than safety services, provided that the use for safety services is not then compromised. A fault occurring in a circuit for services other than safety services shall not affect the protection of any circuit for safety services. 560.6.8 There are special requirements for safety services having sources capable of operation in parallel. The parallel operation of independent sources may require special devices, for example to prevent reverse power. NOTE The parallel operation of independent sources with the public supply can require the authorization of the supply undertaking. Fault protection and short circuit protection shall be provided when installation is supplied separately by either of the two sources or by both in parallel. Precautions shall be taken to limit current circulation in the connection between the neutral points of the sources, in particular the effect of triple harmonics. 560.6.10 There are requirements for a central power supply system. Batteries shall be of vented or valve-regulated type with reduced maintenance and shall be of heavy duty industrial design, for example cells complying with IEC 60623 or IEC 60896 (all parts). This does not preclude proven new technologies. The minimum design life of the batteries at 20 °C shall be 10 years. 560.6.11 Where an uninterruptible power supply (UPS) is used, it shall: a) be able to operate all protective devices located on the load side of the UPS, b) be able to start the safety services when it is operating in the emergency condition, c) comply with the requirements of 560.6.10, as applicable, d) comply with IEC 62040-1, IEC 62040-2 or IEC 62040-3, as applicable, and e) be able to be started independently of the availability of the upstream supply. 560.6.12 Where a safety generating set is used as an electrical source for safety services, a diesel engine driven generating set shall comply with ISO 8528-12. 560.6.13 The condition of the electrical source for safety services (ready for operation, under fault conditions, feeding from the electrical source for safety services) shall be monitored. 560.7 Electrical circuits of safety services 560.7.1 Circuits of safety services shall be independent of other circuits. An electrical fault or any modification in one system shall not affect the correct functioning of the other. This may necessitate separation by fire-resistant materials or different routes or enclosures. IEC 60364-5-56 pdf download. 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