



LEGISLATION UPDATE

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EXPLANATORY NOTES TO ASSIST IN INTERPRETING COAL MINE HEALTH AND SAFETY REGULATION 2006

Provision of electrical and mechanical safeguards with appropriate safety integrity

Clause 13 **Additional components of health and safety management system** (1)

...

(e) ***an electrical engineering management plan*** covering the life cycle of electrical plant and installations, and electrical engineering practices, at the coal operation, that is developed, implemented and periodically reviewed through consultation with a qualified electrical engineer, to control risks as follows:

...

- (iv) to prevent unintended operation of plant,
- (v) to provide electrical safeguards for electrical and non-electrical hazards, with a probability of failure appropriate to the degree of risk posed by the hazard,

(f) ***a mechanical engineering management plan*** covering the life cycle of mechanical plant and installations, and mechanical engineering practices, at the coal operation, that is developed, implemented and periodically reviewed through consultation with a qualified mechanical engineer, to control risks as follows:

...

- (iii) to provide safeguards to prevent the release of uncontrolled mechanical energy and to prevent unintended operation of mechanical plant,

...

- (viii) to provide safeguards for mechanical plant and installations, with a probability of failure appropriate to the degree of risk posed by any mechanical plant or installation,

Clarifying points:

The intent of these provisions is that:

- electrical and mechanical control systems are designed in accordance with established functional safety and machinery safeguarding concepts. Refer: AS 61508, AS 62061 and AS 4024
- electrical and mechanical safeguards are to have the appropriate safety integrity as defined in AS 61508, or category as defined in AS 4024.

References:

AS 61508 Functional safety of electrical/electronic/programmable electronic safety-related systems

AS 62061 Safety of machinery - Functional safety of safety-related electrical, electronic and programmable electronic control systems

AS 4024 Safety of Machinery

Guidance Notes, presentations and other support documentation is available on the NSW DPI website at:

www.dpi.nsw.gov.au/minerals/safety/legislation/commencement

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