

SAFETY IN DESIGN - DESIGN PHASE REVIEW RECORD

Project:

Project Stage: Tender/ Construction

Review # + Date:

Doc. Reference: ALL (All current drawings and specifications are applicable)

Participants:

Distribution: ALL (As above)

Project Phase: DESIGN | Construction | Occupation | Maintenance | End Use

HAZARD: A hazard is something with the potential to cause harm.

RISK: A risk is the likelihood of harm occurrence from exposure to a hazard.

SAFE DESIGN: The integration of measures to eliminate, or if this is not reasonably practicable, minimise risks to health and safety throughout the life of the structure being designed. Safety in design risk management involves the identification of reasonable foreseeable hazards associated with the design and lifecycle of a structure, the assessment of the risks arising from such hazards if necessary, and the review of control measures.



RISK IDENTIFICATION			RISK EVALUATION	RISK TREATMENT		RISK REVIEW & MONITOR		
Reference No.	Item/ Element/ Activity/ Hazard - Description	Identified Hazard - Description	Identified Risk - Rating	Identified Risk - Treatment Measure/ Action Required	Identified Risk - Action Taken (If different to proposed treatment)	Responsibility/ Action By	Status	Document Reference/ Notes / Comments
DESIGN PHASE								
HAZARD IDENTIFICATION + ANALYSIS								
1	SITING OF STRUCTURE							
1.1	Proximity to adjacent property							
1.2	Proximity to adjacent roads							
1.3	Surrounding Land Use							
1.4	Clearances required for construction equipment							
1.5	Clearances required for construction techniques							
1.6	Demolition of existing assets							
1.7	Proximity to underground services							
1.8	Proximity to overhead services							
1.9	Exposure to traffic hazards							
1.10	Exposure to other hazards							
1.11	Site conditions							
1.12	Public safety							
1.13	Use of adjacent streets							
1.14	Landscape features							
2	HIGH CONSEQUENCE HAZARDS							
2.1	Storage of dangerous goods, including medical gases							
2.2	Handling of dangerous goods							
2.3	Work with high energy hazards (eg. Pressure)							
2.4	Work with health hazards (eg. Biological Materials)							
3	SYSTEMS OF WORK (Involving the interaction of persons with the structure)							
3.1	Maintenance activities that pose risk							
3.2	Cleaning activities that pose risk							
3.3	Rapid construction techniques (eg. Prefabrication)							
3.4	Materials to be used in construction							
3.5	Staging and coordination with other works							
3.6	Inadequate public pedestrian separation							
3.7	Inadequate vehicular separation							
3.8	Restricted access for building maintenance							
3.9	Restricted access for plant maintenance							
3.10	Hazardous manual tasks							
3.11	Working at height							
3.12	Slip and trip hazards							
3.13	Hazardous materials and substances							
3.14	Inadequate access/ confined spaces							
3.15	Exposure to occupational violence							
3.16	Cladding sizing + handling.							
4	ENVIRONMENTAL CONDITIONS							
4.1	Flood Event - 1 in 100 year							
4.2	Rain Event - 1 in 500 year							
4.3	Bush Fire							
4.4	Earthquake							
4.5	Cyclones/ Storms							
4.6	Lightning Strikes							
4.7	Biological Hazards							
4.8	Medical Gas Hazards							
4.9	Inadequate Lighting							
4.10	Noise Hazards							
4.11	Confined Spaces							
4.12	Climbing Risks							
4.13	Vibration Hazards							
4.14	Inadequate welfare facilities (to meet workplace needs)							
5	INCIDENT MITIGATION (The possibility of the structure to exacerbate the consequences after an incident)							
5.1	Inadequate egress							
5.2	Inadequate siting of assembly areas							
5.3	Inadequate emergency services access							
6	PROJECT SPECIFIC ITEMS							
6.1	Features of the design essential for safe construction, operation, use, maintenance and end use.							
6.2	Temporary works							
6.3	Features that cause access problems							
6.4	Abnormal access methods							
6.5	Sunshade projections.							
6.6	Auto-sliding doors.							

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6.7	Roof ballast.							