5.3 Design and construction risk control

- Capture hazards during design reviews, procurement, sequencing and constructability meetings; identify how design choices eliminate hazards.
- Use the hierarchy of controls before relying on PPE and brief residual risks to each exposed trade.
- Require task-specific RAMS, permits and engineering approvals before high-risk activities begin.

HOLD / VERIFICATION: The named supervisor records the control check and resolves deficiencies before the affected operation is released.

5.4 Worker and subcontractor engagement

- Provide induction for all entrants and role-specific competence checks for operators and permit issuers.
- Hold shift briefings with current workface risks, interface changes, emergency routes and corrective actions.
- Use multilingual briefings and a confidential reporting channel where needed; document closeout feedback to the workforce.

HOLD / VERIFICATION: The named supervisor records the control check and resolves deficiencies before the affected operation is released.

5.5 Inspection, event learning and review

- Schedule risk-based inspections by trade and location, including critical control sampling and corrective-action verification.
- Investigate incidents and high-potential near misses using a fact-finding method focused on system improvements rather than assumptions.
- Review metrics, emerging changes, subcontractor performance and closure evidence at defined project milestones.

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HOLD / VERIFICATION: The named supervisor records the control check and resolves deficiencies before the affected operation is released.

5.6 Handover and demobilization

- Close temporary hazards, clear routes, dispose of wastes appropriately and transfer residual risks and equipment documentation.
- Retain approved registers, lessons learned and evidence of outstanding actions handed to the responsible party.

HOLD / VERIFICATION: The named supervisor records the control check and resolves deficiencies before the affected operation is released.

6. Assurance and review schedule

CHECK / EVIDENCE	WHEN / BY WHOM	ESCALATION / RECORD
RAMS / permit workface verification	Before starting; supervisor	Signed workface briefing / release
Critical temporary works and high-risk controls	As required by design; competent verifier	Hold-point certificate / permit
Worker competence and induction coverage	Mobilization and changing crew; HSE + supervisor	Current authorization matrix
Site HSE and environmental inspection	Daily observations and planned audit; assigned owners	Finding log with closure evidence
Management system performance review	At planned reporting cycle; project manager	Minutes, trends, resource decisions

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4. Hazard and critical-control register

The following controls illustrate important risk pathways. Validate severity, likelihood, exposure, change controls and acceptance criteria against the project risk assessment before use.

EXPOSURE / FAILURE MODE	PREVENTIVE BARRIERS / INDEPENDENT CHECK
Delayed emergency call-out	Publish verified local dispatch numbers and precise access instructions at every occupied point; rehearse the call tree.
Re-entry into smoke / unstable areas	Enforce exclusion zone and no re-entry until competent authority releases the area.
Improvised high-angle / confined-space rescue	Use trained rescue specialists, preplanned equipment and dedicated rescue procedures; do not enter hazardous spaces without control.
Unreliable personnel accountability	Link daily visitor and contractor registers to assembly-point headcounts; establish an unresolved-person escalation protocol.
Blocked egress or refuge	Maintain emergency lighting, doors, access ways, signage and two suitable escape options where required by the site strategy.
Responder exposure to chemicals / electricity	Share SDS, isolations and site utility diagrams with emergency responders; approach only from safe distances.

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5. Practical implementation procedures

5.1 Pre-incident [illegible]

- Survey workfaces, occupied facilities, temporary accommodation and access restrictions, including the highest and lowest working levels.
- Identify rescue feasibility for shafts, elevated platforms and confined spaces; confirm specialist arrangements before the activity is authorized.
- Locate assembly points and alternative refuges outside credible fire, falling-object, traffic and release zones.

HOLD / VERIFICATION: The named supervisor records the control check and resolves deficiencies before the affected operation is released.

5.2 Alarm and notification

- Train personnel to announce location, nature of event, injuries, residual hazards and safe access points through the approved emergency channel.
- Maintain a verified list of external emergency numbers; include local-language support where needed.
- Do not presume local numbers; site management shall verify each before plan approval.

HOLD / VERIFICATION: The named supervisor records the control check and resolves deficiencies before the affected operation is released.

5.3 Immediate life safety actions

- Stop activity, isolate equipment only if this is safe and authorized, leave belongings and evacuate by the designated route.
- Warn adjacent workgroups without exposing yourself; close doors where instructed by the fire strategy and do not use lifts during fire unless authorized as a designed evacuation lift.
- Ensure workers reach the designated assembly point and remain available for headcount.

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5.3 Control circulation and reversing

- Apply a site-specific, risk-assessed speed and one-way pattern where feasible; do not invent a universal speed limit.
- Eliminate reversing by arranging pull-through bays when practical; keep spotter signals and stop criteria consistent and rehearsed.
- Stop movement when communication is lost, a pedestrian crosses the route, or an exclusion zone cannot be maintained.

HOLD / VERIFICATION: The named supervisor records the control check and resolves deficiencies before the affected operation is released.

5.4 Protect pedestrian movement

- Separate walkways from plant with suitable robust barriers and install crossing controls at unavoidable intersections.
- Maintain accessible routes and emergency access for visitors and persons with reduced mobility.
- Inspect for temporary storage, cables, debris and parking that obstruct safe routes.

HOLD / VERIFICATION: The named supervisor records the control check and resolves deficiencies before the affected operation is released.

5.5 Delivery, unloading and departure

- Book cranes and forklifts only with approved lifting/offloading arrangements and ground-capacity confirmation.
- Set exclusion zones before unloading and ensure secured load restraint is removed only at a stable, controlled stage.
- Check departure vehicle condition, gate visibility, wheel contamination and obligations for public-road management.

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HOLD / VERIFICATION: The named supervisor records the control check and resolves deficiencies before the affected operation is released.

5.6 Change traffic arrangement safely

- Authorize temporary closures, diversions and traffic marshaling with approved maps before implementation.
- Communicate changed routes to all crews and suppliers; revise signs and inspect at the start of each relevant shift.
- Reopen routes only after barricades, lighting, surfaces and traffic control devices have been verified.

HOLD / VERIFICATION: The named supervisor records the control check and resolves deficiencies before the affected operation is released.

6. Assurance and review schedule

CHECK / EVIDENCE	WHEN / BY WHOM	ESCALATION / RECORD
Traffic layout / route capacity approval	Before route use or major revision; manager	Approved drawing and change log
Gate, barriers and pedestrian path	Daily and after event; site supervisor	Traffic route inspection
Operator / vehicle checks	At entry / planned cycle; gate and owner	Authorization and inspection record
Reversing / unloading controls	Before each high-risk move; spotter and driver	Pre-move brief and release
Traffic incident / near miss trend review	Weekly or project reporting cycle	Action tracker and adjustment plan

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5.3 Prepare the workplace

Implement erosion, dust, noise, run-off, chemical and waste controls before relevant operations start.

Verification / hold point: The designated supervisor shall confirm the step is complete, record any exceptions, and ensure the next phase does not proceed with an unresolved critical safety condition.

5.4 Implement controls

Train subcontractors on environmental conditions, complaint response and incident notification requirements.

Verification / hold point: The designated supervisor shall confirm the step is complete, record any exceptions, and ensure the next phase does not proceed with an unresolved critical safety condition.

5.5 Supervise and verify

Monitor sensitive conditions with appropriate inspections, sampling and specialist verification; retain monitoring results.

Verification / hold point: The designated supervisor shall confirm the step is complete, record any exceptions, and ensure the next phase does not proceed with an unresolved critical safety condition.

5.6 Review, close and improve

Respond to exceedances, implement corrective actions and update controls as construction phases change.

Verification / hold point: The designated supervisor shall confirm the step is complete, record any exceptions, and ensure the next phase does not proceed with an unresolved critical safety condition.

6. Permit, training and interface requirements

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- Permits and controls: Identify activity-specific permits, isolations, hot work, confined space, excavation and client/authority notifications in the live work pack. Use "Not applicable" only with a documented justification.
- Competence: Verify training, role authorizations, licenses where required, supervision coverage, language comprehension and specialist qualifications. Maintain a project-specific matrix.
- Simultaneous operations: Coordinate adjacent crews, restricted areas, public interfaces, temporary works, changing services and shift handovers with a named workfront owner.
- Briefing and changes: Communicate the current plan and MSRA at pre-task briefings; suspend and re-brief after changes in method, equipment, location, workforce or environment.

7. Routine verification and inspection programme

- 1. Environmental permit register current. Record status, area, inspector, time, evidence and action ID if nonconforming.
- 2. Drainage and sensitive receptor map available. Record status, area, inspector, time, evidence and action ID if nonconforming.
- 3. Dust and noise controls inspected. Record status, area, inspector, time, evidence and action ID if nonconforming.
- 4. Environmental complaints logged and resolved. Record status, area, inspector, time, evidence and action ID if nonconforming.
- 5. Environmental subcontractor responsibilities assigned. Record status, area, inspector, time, evidence and action ID if nonconforming.

Verification frequency	Minimum evidence
Prior to first use / mobilization	Approved plan, competent authorization, site-specific controls and initial workfront acceptance.
Before each active work shift	Supervisor pre-start/permit checks and readiness of critical controls; adjust to local legal requirements.
At change or abnormal event	Reassessment, permit revalidation, specialist review and affected worker rebriefing.
Periodic management review	Trend report, corrective-action status and documented effectiveness decision.

8. Stop-work triggers and emergency response

All persons have authority to stop work when there is a reasonable belief of serious or imminent risk. The affected work area must be secured, supervision notified and the conditions reassessed before authorized restart.

- STOP WORK: Unpermitted discharge.

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