

Business/Operati ng unit:										Occupational Health and Safety Baseline risk assessment template										Need Review Date (every 2 years):		Template Identifier:	240-7004602		
ARNOT POWER STATION										Department:		Production - Coal Management										Name:		Revision number:	Revision date:
Date:										Prepared by:		Authorised by:										Designation:		Revision number:	Revision date:
2025/11/04																								5	30-Apr-25
Refer to Occupational Health and Safety Risk assessment procedure 32-520																									
List activity	Activity type (Routine/Non-routine)	Hazard #	Hazard identification	Risk #	Associated risk	Risk type	Consequence of the risk	Exposed group/people	Risk Owner	Exposure pattern	What are the possible consequences?	Existing Controls	Consequence	Likelihood	Risk Priority Index	Additional controls or Tasks aimed at improving Existing Controls	Monitoring Mechanisms	Control Owner	Legal and Other Requirements	Target Date	Current Status	Refer to Risk Management (RMR) reference number			
List specific activities to be performed tasks, consider the equipment to be used, the personnel involved to be task	1. Routine activities and situations arise through repetitive work activities and normal operations and normal situations are occasional or expected	#	Anything with potential to cause harm. Note: A hazard can pose more than one risk	#	A chance of injury, ill health or damage could occur as a result of uncontrolled hazard	Safety or health	What cases the risk to come into effect?	Who is exposed to the hazard i.e. visitors, members of the public, etc.	Who is accountable for making sure the controls and monitor the risk i.e. it does implemented, regularly reviewed to effectiveness	The frequency and duration the personnel are exposed to the hazard e.g. Daily for 2 hrs	Consider the worst case controls will not occur	Include: Identification of hazards (e.g. mechanical, electrical, chemical, biological, physical, psychosocial, ergonomic, etc.) and their potential consequences (e.g. injury, illness, damage, etc.) and the likelihood of the risk occurring (e.g. frequency, duration, etc.)				RCE Risk Control Framework	How we know if we are successfully reducing the risk of the hazard occurring, and the controls implemented to reduce the immediate impact of the risk occurring. This may include: i.e. monitoring, inspection, supervision where necessary, etc.	Person allocated the responsibility for ensuring the agreed controls (if applicable)	Where relevant, list the relevant legislation and/or standards requirements that apply to the control	Once a data has been reported, the control is changed (if applicable)	In Progress	When applicable, list RMR system reference number for location of related actions. Replicate in case the hazard or situation is changed or project as a control			
R	1	1	Slip, Trip and Fall	1	Injuries	Safety	Loose grating and uneven surfaces	Employees	Manager	Daily, 2-8 hours	Ankle Sprain / Broken Limbs	Three point contact, vigilance while walking	4	B	II	Mostly effective	Plant walkdown, inspections,Toolbox Talks and Identify Defects	JOB OBSERVATION / SMAT / STOP	Supervisor and Site Manager	OHSAct / PRR and Plant maintenance system	Ongoing	In Progress	CSY-BRA-01		
R	2	2	Falling Objects	2	Body Injuries	Safety	Improper use of hand tools / Defective Tools	Employees	Manager	Daily, 2-8 hours	Body injuries /fracture	Inspect tools before use, wear PPE, do not use handmailed tools, planned maintenance inspections for tools	5	A	II	Mostly effective	TOOLBOX TALKS / Risk Assessment and good Communication	JOB OBSERVATION / SMAT / STOP	Supervisor and Site Manager	OHS Act / PRR	Ongoing	In Progress	CSY-BRA-02		
R	3	3	Working near operating conveyors	3	Entanglement, crushing, amputation	Safety	Working on live conveyors or inadequate isolation	Employees	Manager	Daily, 2-8 hours	Crushing or amputation injuries	Crushing or amputation injuries	4	C	II	Mostly effective	Enhanced guarding, refresher training	SHEQ Officer	Supervisor and Site Manager	OHS Act / PRR / GMR	Ongoing	In Progress	CSY-BRA-03		
R	4	4	Mechanical maintenance on conveyors, feeders	4	Pinch points, dropped objects, energy release	Safety	Poor isolation, defective tools, untrained personnel	Employees	Manager	Daily, 2-8 hours	Fractures, bruises, severe injuries	Proper isolation, PPE, toolbox talks	4	C	II	Mostly effective	PM compliance audits, supervisor inspections	Toolbox talks, plant walkdown	Supervisor and Site Manager	OHS Act / PRR	Ongoing	In Progress	CSY-BRA-04		
R	5	5	Electrical work on MCCs, panels, motors	5	Shock, arc flash, electrocution	Safety	Faulty insulation, inadequate isolation, poor testing	Employees	Manager	Daily, 2-8 hours	Electrocution, burns, fatalities	Electrocution, burns, fatalities	4	C	II	Mostly effective	Arc flash analysis, signage updates	Electrical audits, supervisor inspections	Supervisor and Site Manager	OHS Act / Electrical Regulations	Ongoing	In Progress	CSY-BRA-05		
R	6	6	Welding and cutting (Boilermaker tasks)	6	Burns, fire, fumes, explosion	Safety	Hot work near combustible material	Employees	Manager	Daily, 2-8 hours	Fire outbreak, severe burns, explosion of fumes	Fire outbreak, severe burns, explosion of fumes	4	C	II	Mostly effective	Hot work screens	PTW system	Supervisor and Site Manager	OHS Act / Hot Work Permit	Ongoing	In Progress	CSY-BRA-06		
R	7	7	Rigging and lifting operations	7	Load drop, injury, structural failure	Safety	Improper lifting gear, lack of supervision	Employees	Manager	Daily, 2-8 hours	Crushing, fractures, fatalities	Lifting plans, supervision, competent riggers	4	C	II	Mostly effective	New rigging certification and register audit	Rigging register review	Supervisor and Site Manager	OHS Act / Construction Regulations	Ongoing	In Progress	CSY-BRA-07		
R	8	8	Working at heights	8	Falls, dropped tools	Safety	No fall protection or defective scaffolding	Employees	Manager	Daily, 2-8 hours	Fatality, multiple injuries	Harnesses, scaffolding inspection, fall protection	4	C	II	Mostly effective	Work at height refresher and inspection log	Height work inspections	SHEQ Officer	OHS Act / Fall Protection Regulations	Ongoing	In Progress	CSY-BRA-08		
R	9	9	Control & Instrumentation maintenance	9	Electric shock, incorrect calibration, loss of interlocks	Safety	Failure to isolate circuits, poor calibration practices	Employees	Manager	Daily, 2-8 hours	System malfunction, incorrect readings	Testing and isolation procedures, supervision	3	B	II	Fully effective	Review C&I procedures and calibration logs	Calibration log reviews	Supervisor and Site Manager	OHS Act / Electrical Codes	Ongoing	In Progress	CSY-BRA-09		
R	10	10	Coal dust and spontaneous combustion in storage	10	Fire, smoke inhalation, explosion	Safety	Poor temperature monitoring and sealing management	Employees	Manager	Daily, 2-8 hours	Fire, explosion, damage to structure	Temperature monitoring, water sprays, Coal Smouldering grade	4	C	II	Mostly effective	Blathme management	Coal Smouldering jobs	Supervisor and Site Manager	OHS Act / Fire Management	Ongoing	In Progress	CSY-BRA-10		
R	11	11	Poor Light	11	Poor Vision	Safety	Inadequate lighting and defective lights	Employees	Manager	Daily, 2-8 hours	Eye fatigue / temporary vision impairment	Lighting surveys, repair defective lighting, temporary lighting where required	3	A	IV	Fully effective	Risk Assessment and Inspections / Defects to be attended	JOB OBSERVATION / SMAT / STOP	Supervisor and Site Manager	OHSAct / Plant maintenance and Environmental Regulations	Ongoing	In Progress	CSY-BRA-11		
R	12	12	Dusty condition	12	Lung irritation	Safety	Inhalation of Dust	Employees	Manager	Daily, 2-8 hours	Silicosis (long-term) / respiratory disease	Dust suppression, scheduled PM for dust controls	4	B	II	Fully effective	TOOLBOX TALKS / Risk Assessment and Dust Awareness	OBSERVATION	Supervisor and Site Manager	OHSAct / HCS Regulations	Ongoing	In Progress	CSY-BRA-12		
R	13	13	Gases	13	Difficult breathing	Safety	Inhalation of Gases	Employees	Manager	Daily, 2-8 hours	Unconsciousness / respiratory failure	Gas testing, ventilation, gas monitors, permit-to-work for confined-space isolation	5	B	IV	Mostly effective	Risk Assessment (PTW /Procedure)/Monitor Gases	Supervision / HCS Survey	PP	OHSAct / PRR /HCS Regulations	Ongoing	In Progress	CSY-BRA-13		
R	14	14	Hot Water	14	Burns	Safety	Improper Isolation/ Damage Valves	Employees	Manager	Daily, 2-8 hours	Third-degree burns	Pressure/temperature isolation procedures, valve maintenance, work permits	5	B	II	Mostly effective	Supervision / Observation /Procedure	Supervision /Adhere to procedure/Inspection to be done according PM	Supervisor and Site Manager	OHSAct / PRR	Ongoing	In Progress	CSY-BRA-14		
R	15	15	Loose Gratings	15	Injuries	Safety	Poor Housekeeping /Worn out /Improper clearing	Employees	Manager	Daily, 2-8 hours	Injuries	Report and repair defective gratings, adhere to PM schedules, good housekeeping	4	B	II	Mostly effective	Adhere to PM/OC Observations	Maintenance System/Project progress	Supervisor and Site Manager	OHSAct	Ongoing	In Progress	CSY-BRA-15		
R	16	16	Noise exposure from operating plant	16	Hearing loss, fatigue	Safety	Prolonged exposure to high noise levels	Employees	Manager	Daily, 2-8 hours	Hearing strain, fatigue	Hearing protection, signage, noise surveys	3	B	II	Fully effective	Noise exposure monitoring and training refresh	Noise survey results	SHEQ Officer	OHS Act / NPL Regulations	Ongoing	In Progress	CSY-BRA-16		
R	17	17	Manual handling of heavy components	17	Muscle strain, back injury	Safety	Improper lifting posture, manual handling heavy loads	Employees	Manager	Daily, 2-8 hours	Hearing strain, back injury	Mechanical aids, lifting training, ergonomics awareness	3	B	II	Fully effective	Ergonomic assessment and lifting aid	Observation results	Supervisor and Site Manager	OHS Act / Ergonomics Regulations	Ongoing	In Progress	CSY-BRA-17		
R	18	18	Slip, trip, and fall (wet coal, uneven surface)	18	Bruises, fractures	Safety	Wet coal, poor housekeeping, poor lighting	Employees	Manager	Daily, 2-8 hours	Slip, falls, minor or severe injuries	Housekeeping, drainage maintenance, PPE	3	B	II	Fully effective	Improve drainage and lighting	Inspection reports, safety logging	Supervisor and Site Manager	OHS Act / General Safety Regulations	Ongoing	In Progress	CSY-BRA-18		
R	19	19	Failure of quality control	19	Equipment failure, rework, plant downtime	Safety	No verification or inspection of maintenance work	Employees	Manager	Daily, 2-8 hours	Plant failure, rework cost	QC checks, verification by client engineer	3	B	II	Fully effective	QC audit schedule and verification checklist	Audit reports	QC Officer	OHS Act / QA/QC Standards	Ongoing	In Progress	CSY-BRA-19		
R	20	20	Fire from electrical or welding work near coal dust	20	Fire, explosion, injury	Safety	Hot work or sparks near dusty or coal-dust areas	Employees	Manager	Daily, 2-8 hours	Burns, fire, explosion	Dust suppression, fire prevention training	4	C	II	Mostly effective	Fire risk assessment review	Fire drills	SHEQ Officer	OHS Act / Fire Regulations	Ongoing	In Progress	CSY-BRA-20		
R	21	21	Environmental contamination (coal spillage, oil leaks)	21	Pollution, fines, cleanup costs	Safety	Spillage, poor containment or maintenance of equipment	Employees	Manager	Daily, 2-8 hours	Environmental contamination, fines	Containment systems, bunding, spill kits	3	B	II	Fully effective	Environmental audit and cleanup SOP	Environmental inspections	SHEQ Officer	NEMA / OHS Act / Environmental Regulations	Ongoing	In Progress	CSY-BRA-21		
R	22	22	Sharp edges	22	Hand Injuries	Safety	Improper filing caused by using Cutting/Welding/drilling	Employees	Manager	Daily, 2-8 hours	Hand injuries / lacerations	Risk assessment, working instructions, STAR principles, guarding where applicable	3	B	II	Mostly effective	TOOLBOX TALKS/Supervisor/Inspections	JOB OBSERVATION / SMAT / STOP	Supervisor and Site Manager	OHSAct / Procedure	Ongoing	In Progress	CSY-BRA-22		
R	23	23	Vibrations	23	Stress	Safety	Plant Defects	Employees	Manager	Daily, 2-8 hours	Dizziness, loss of balance	Attend defects, carry out PM and repairs, vibration monitoring	4	B	II	Mostly effective	Inspections / PM/CMOR	Vibration Monitoring	Supervisor and Site Manager	OHS Act / 1993/Environment Regulations	Ongoing	In Progress	CSY-BRA-23		
R	24	24	Hit by mobile equipment	24	Injuries	Safety	Poor Signal and Moving Machinery	Employees	Manager	Daily, 2-8 hours	Body injuries / fractures	Traffic management plan, segregation of mobile equipment, barkman/signaller	4	A	IV	Mostly effective	TOOLBOX TALKS/Follow Plant Rules	JOB OBSERVATION / SMAT / STOP	Supervisor and Site Manager	OHS Act / 1993/General Safety/Condition of employment	Ongoing	In Progress	CSY-BRA-24		
R	25	25	Collide with Structure	25	Multiple injuries	Safety	Loss of concentration	Employees	Manager	Daily, 2-8 hours	Multiple injuries	Fatigue management, rest breaks, signage, supervision	4	A	IV	Mostly effective	Management of Fatigue/Rest Period	JOB OBSERVATION / SMAT / STOP	Supervisor and Site Manager	OHSAct/Basic Condition of Service	Ongoing	In Progress	CSY-BRA-25		
R	26	26	Sleeping while driving	26	Accidents	Safety	Not getting enough rest period	Employees	Manager	Daily, 2-8 hours	Fatality / road accident injuries	Driver rostering, adequate rest periods, driver fitness assessments	5	A	II	Mostly effective	Adhere to the procedures	Monitor	Supervisor and Site Manager	OHSAct/Basic Condition of Service	Ongoing	In Progress	CSY-BRA-26		
R	27	27	Fatigue	27	Falling while on duty	Safety	Not getting enough rest period	Employees	Manager	Daily, 2-8 hours	Injuries due to fatigue	Shift planning, rest breaks, fatigue management procedures	4	A	IV	Mostly effective	Adhere to the procedures	OBSERVATION	Supervisor and Site Manager	OHSAct/Basic Condition of Service	Ongoing	In Progress	CSY-BRA-27		
R	28	28	Computer	28	Poor Vision	Safety	Spend Long hours on the Computer	Employees	Manager	Daily, 2-8 hours	Eye strain / reduced visual acuity	PMS to be attended on Lighting Survey/ Blinds to be closed	3	A	IV	Mostly effective	PMS to be attended on Lighting Survey/ Blinds to be closed	Inspection	SHE REP Manager	OHSAct / Environmental Regulations	Ongoing	In Progress	CSY-BRA-28		
R	29	29	Paper Cuts	29	Hand Injuries	Safety	Printing and making copies	Employees	Manager	Daily, 2-8 hours	Minor hand injuries	STAR principle and safe handling, gloves where appropriate	2	B	IV	Mostly effective	TOOLBOX TALK	SMAT/STOP	Supervisor and Site Manager	OHSAct	Ongoing	In Progress	CSY-BRA-29		
R	30	30	Health risk, Covid-19	30	Covid-19	Safety	Exposure to positive or infected employees	Employees	Manager	Daily, 2-8 hours	Hospitalisation / severe illness among staff	Screening, isolation, social distancing, masks, hygiene and vaccination among staff	2	C	IV	Mostly effective	Safety meetings and adherence to Covid-19 precautionary recommendations	SMAT/STOP	Supervisor and Site Manager	OHSAct	Ongoing	In Progress	CSY-BRA-30		