Level:	CS ENERGY
Title:	JOB SAFETY AND ENVIRONMENTAL ANALYSIS (JSEA)
Form No:	S1878
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JOB SAFETY AND ENVIRONMENTAL ANALYSIS (JSEA)

	Callide Power Station		**Kogan Creek Power Station**		**BESS *(Chinchilla)***		**BESS *(Greenbank)***		**Brisbane Office**

JOB OVERVIEW

Department	Area / Location	Job	Date

Equipment Name / No.	Isolation Required?	YES	NO	PTW No.	No. of times this JSEA has been used:		
	Is any isolation required before commencing the job? *If yes, apply for PTW and follow PTW process*				1	2	3

HAZARDS – *Insert* **X** *for relevant hazards that will be encountered during the job*

SIF Hazards – Refer to SIF Guides to review applicable critical controls			**Task Hazards** – Refer to H&S Handbook for applicable controls				**Environment Hazards**
Confined Spaces Access, atmosphere, LEL, engulfment, identified	Cranes & Lifting Equipment / slings, suspended loads, ground conditions	Dropped Objects Work at heights, gridmesh, gaps, tools, suspended equipment	Dust / Flying Particles PF, fly ash, dust, gravel, soil, abrasive blasting, SMF	Pressure / Projectiles Pneumatic tools, pumps, stored liquid, steam pipes, gas/air lines	Manual Handling Tasks Push, pull, lifting, repetitive motion, twisting, resources	Remote / Isolated Work Working near water, offsite, bores, dams, pipelines, creeks, ROM, diving	Spills / Emissions Chemicals, air, solvents noise land, odours, water, hydrocarbons, ash, dust
Electrical Power tools, leads, switchboards, switching, testing, arc flash	Energised Plant (PTW) Mechanical, chemical, electrical, isolation, access	Hazardous Chemicals Solvents, acids, thinners, grease, oil, glue, paints, alkalines, fuels, lead	Noise & Vibration Plant, tools, equipment, vehicles, compressed air, vibration, hammering	Entanglement / Guarding Rotating machinery, lathes, conveyors, motors, temporary removal	Thermal / Hot Surfaces Heat, hot work, welding, cold, refrigeration, plant, weather, dehydration, boiler	Biological Snakes, spiders, insects, animals, bacteria, fungus, stagnant water, legionella	Waste Regulated waste, contaminated waste, poor clean up, poor
Work at Heights Edge protection, access, harness system, building scaffold, manbox, EWP, ladders, scissor lift	Hot Work Fire, explosion, grinding, welding, flammable gas / material, sparks	Vehicle Interaction Moving equipment / machinery, traffic, pedestrians, loss of control	Ultraviolet & Radiation Gauges, NDT, UV sunlight, fatigue, radiant heat, welding flash, dehydration	Digging / Excavation Underground services, building penetration, gas electrical, IT, Asbestos, water, sewerage	People Factors Fitness for duty, health, knowledge, experience, skills, licenses, awareness	Work Area Factors Housekeeping, uneven ground, pinch points, sharp edges, slips / trips, rain, lightning, structural integrity	Land Management Disturbance of land / vegetation, sediment, erosion, unauthorised land access, weed transmission, interaction with wildlife / livestock, bacteria, algae

PLANNING FOR THE JOB

List tools / materials / plans / plant drawings	Training and Competency – List persons involved	List PPE required
•	•	•
•	•	•
•	•	•
•	•	•
•	•	•
•	•	•

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SEQUENCE / HAZARDS / CONTROLS

No.	Sequence of Basic Jobs *Consider each stage of the work, including preparation and clean-up.*	Potential Hazards *Identify the hazards that may cause harm to workers, plant or environment. Where applicable, transfer from above prompts.*	Control Measures *Describe the controls that will reduce or minimise risk of injury or damage plant / environment.*	Responsible *Nominate those responsible for the task and/or controls*	Have the risks been controlled? YES	 NO *
1.	•	•	•			
2.	•	•	•			
3.	•	•	•			
4.	•	•	•			
5.	•	•	•			
6.	•	•	•			

**** REMEMBER – If control measures do not reduce of effectively manage the hazards DO NOT proceed and consult with your Supervisor for review and approval***

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RISK ASSESSMENT – Refer to CS Energy Risk Matrix (B/D/13/17881)

Inherent Risk – Using the risk matrix, assess the task as a whole and consider maximum reasonable consequence with controls not in place.

Residual Risk – Then assess the task with controls in place as detailed in Part 2 of this booklet.

					Likelihood	Consequence
Inherent risk rating of the task without controls in place?	L	M	S	H		
Residual risk rating of the task with controls in place?	L	M	S	H		

ASSESS THE CONDITIONS / FINAL CHECK	YES	NO	N/A
Have you checked the area above, below and around you?			
Are the correct work party and resources ready to complete the task?			
Do you have the correct licenses and authorisations?			
Are the relevant rescue plans in place (e.g. confined space, work at heights, etc.)? – Refer to S1889, S1972			
Where is the nearest emergency phone?			
Where is the nearest eye wash shower/station?			
Have barricades, signs and exclusion zones been erected?			
Do you have the specified PPE available for use?			
Are the controls specified in place and effective?			
Has the work party reviewed the JSEA (and PTW if required)?			
Are you/team confident that the task can be performed safely?			

If you have 'No' to any questions DO NOT proceed with the job

APPROVAL

Low	Moderate	Significant	High
☐ Work Party	☐ Supervisor	☐ Plant Manager	☐ GM

Name	Signature	Date

WORKER'S SIGN OFF

Attach associated plans, PRA's and documentation that supports the job