



Site: Eraring Power Station	24/2/06
Location: Boiler	SWMS: 123-01
Work Title: Furnace Internal Work	
Prepared By: P.McWilliam	Revision: 7
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Description of Work covered by this SWMS:

All work carried out inside the boiler, including the furnace area, ash hopper area and boiler rear pass to the airheater inlet ducts. This work mainly involves survey, testing and repair of boiler pressure parts, and weld repairs inside the ash hopper. Work in the furnace is generally carried out from swinging stages (boats).

Qualifications and Training of Staff:

Qualification	Who needs to be trained?
Scaffolding Ticket (SB, SI, SA) or equivalent	At least one member
Trades Certificate (Electrician, Fitter, Boilermaker)	At least one member
Power Station Safety Rules	Supervisor
OHS Green Card	All members
Eraring Site Specific Induction	All members
PPI Work Activity Induction	All members
Confined Space Awareness	All members
Use of Radios	Some members
Use of Suspended Scaffolds (Boats)	All members (furnace internals)

Relevant Codes of Practice and Standards:

Noise Management and Protection of Hearing at work
Risk Assessment
Safety Line systems
AS2865:1995 Safe Working in a Confined Space
AS4576 :1995 Guidelines for Scaffolding
AS1279:1999 Acoustics – Hearing Protectors
AS1716:1994 Respiratory Protective Devices

SAFE WORK METHOD STATEMENT

Special Equipment/Material

This equipment must all be inspected and the condition recorded on the appropriate register before use	PPI supplied (Yes/No)	Client Supplied ¹ (Yes/No)	Register
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Electrical Tools, leads, lights	Yes	No	S002
Rigging Equipment	Yes	No	S014
Hydraulic Equipment (porta-power etc)	No	No	N/A
Scaffolding (register is required if scaffold in place more than 1 month)	Yes	Yes	S020
Hazardous Substances (list):	No	No	S004

¹ Note – PPI must either have evidence that client-supplied equipment has been inspected by the client, or include client-supplied equipment on our register

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This table sets out hazards, assessed risk and risk control measures for each hazardous activity required for the work. For each Special Hazard, The “assessed risk” is to be evaluated using the attached Hazard Assessment Chart.

STAGE	DESCRIPTION OF JOB	POTENTIAL HAZARD	RISK CONTROL MEASURES	COMMENT
1	Preliminary Steps – these are the minimum required before any job commences.			
		Employees unaware of working environment	Site Safety Induction completed for all employees	
		Equipment not isolated	Permit to Work on equipment to be obtained from Client prior to commencing work.	
		Possible impact on other persons on site	Inform Client that work is to commence. Barricade work area if appropriate	
		Confined Spaces	If entry into a confined space is required, ensure that control measures advised by client are carried out.	

2	General Hazards. The hazards listed here are common to most jobs on power station sites, and preventative measures must be observed at all times.			
	Work at Heights	Falls, falling objects	Use harness above 1.8m fall. Keep one hand free when using stairs. Use scaffold where required. Ensure areas below are barricaded and marked with warning signs.	
	Lifting with cranes and hoists	Falling objects, overloading	Ensure crane operator and rigging staff are competent and certificated. Ensure crane and slings are suitable for use.	
	Manual Handling	Strains, especially back injuries	Use correct material handling practices. Use chain blocks to lower & raise heavy items, use correct rigging practices.	
	Hot Work	Fire, Burns, Explosion, Asphyxiation, Foreign bodies in eye.	Gas bottles (oxy/acetylene/argon) are not to be taken inside the boiler confined space; they are to be stored outside and hoses run in. Use fire resistant blanket when cutting or welding near combustible materials. Have a fire extinguisher readily available for all hot work. Special precautions are required for hot work in confined spaces. Use correct P.P.E. when working near hot equipment. Wear safety goggles when cutting or grinding.	
	Welding	Welding Flash	Minimise risk to personnel in the general area by restricting access and/or erecting welding screens to block line of sight to weld location. Ensure an effective communication method is used between the welder and personnel in immediate work area (with line of sight to the weld) so that the chance of accidental exposure is minimised.	

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	Noise	Hearing Damage	Wear suitable hearing protection.	
	Dust	Ingestion of Dust, dust in eyes	Use suitable dust mask when cleaning or in dusty areas.	
	Hazardous Materials	Burns, poisoning	Ensure MSDS are available for any hazardous materials used, and persons using the material are familiar with hazards and control measure specified.	Examples: Paint Solvents Flammables Acids Gases
	Portable Power Tools	Electrocution	All electric tools are to have a current inspection tag. Keep leads clear of walkways and traffic areas. Earth leakage boxes are required for all portable tools. NOTE: If you are working in a confined space, the earth leakage box must be outside the confined space.	
	Thermal Insulation	Ingestion of fibres	<ul style="list-style-type: none"> • Appropriate PPE is to be worn when working with calcium silicate or SMF. • Insulation waste is to be bagged immediately and removed from work area daily. • There is no known asbestos material that will be encountered on this job. If any material is suspected to be asbestos, notify supervisor immediately, and relocate to a different work area. PPI is not licensed to remove or handle asbestos, so a subcontractor will be engaged for identification, testing and removal if required. 	
	Compressed Air	Bodily injury from impact of compressed air. Injury from unrestrained air hoses.	Never blow down yourself or another person with compressed air to remove dust etc. Ensure air line couplings are fitted with safety pins to prevent injury from out-of-control air hoses De-pressurise air hoses prior to disconnecting air lines.	

3	Special Hazards. The hazards listed below apply to this task, and require special attention.				
STAGE	DESCRIPTION OF JOB	POTENTIAL HAZARD	ASSESSED RISK	RISK CONTROL MEASURES	COMMENT
	Any work in the furnace area	Injury from falling objects	Extreme	Don't work below anyone else. Refer procedure SWP 123-01 and ensure that all precautions are to be observed at all times by all person using the furnace/superheater area.	

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3	Special Hazards. The hazards listed below apply to this task, and require special attention.				
STAGE	DESCRIPTION OF JOB	POTENTIAL HAZARD	ASSESSED RISK	RISK CONTROL MEASURES	COMMENT
	Work on furnace nose	Falls	Very High	Work on the furnace nose is not permitted until a full width boat has been installed at the furnace nose as a safety device.	
	Confined Space Work	Removal of injured persons from the confined space	Moderate	The procedure for rescuing persons from the confined space is set out in rescue plans RP001 (HRA area) and RP002 (Furnace Boats). Read the rescue plans and become familiar with them.	

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How likely is it to hurt someone? ^{OR} How frequent is exposure?		Result of the Injury or Exposure				
		Multiple Fatalities	Fatality	Severe Injury	Medical Treatment	First Aid
Almost Certain	Continuous	Not Applicable	Not Applicable	Not Applicable	Extreme	Very High
Quite Possible	Frequent	Not Applicable	Not Applicable	Extreme	Very High	High
Unusual	Occasional	Not Applicable	Extreme	Very High	High	Substantial
Remotely Possible	Infrequent	Extreme	Very High	High	Substantial	Moderate
Very Unlikely	Rare	Very High	High	Substantial	Moderate	Low
Practically Impossible	Very Rare	High	Substantial	Moderate	Low	Very Low