

# **CS ENERGY PROCEDURE**

# SCAFFOLDING CS-OHS-70

Responsible Officer: Health and Safety Coordinator

Responsible Manager: Head of Health, Safety and Environment Responsible Executive: Executive General Manager Plant Operations

# **DOCUMENT HISTORY**

Key Changes	Prepared By	Checked By	Approved By	Date
Original Release	J Usher B Welsby W Sauer	B Pike D Clarke	S Faulkner	03/05/2017
Added requirement to secure toe boards – IMD 8937	D Clarke	B Pike	S Faulkner	27/02/2018
Added requirement for Handover inspection certificate as per Statutory Notice	S Hogan	A Cashin	N Moran	24/10/2019
Added requirements to align with Scaffolding CoP 2021 including design and inspection; access and egress; and step height requirements.	T Hoare	A Cashin	N Moran	20/08/2021
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## 1 PURPOSE

The purpose of the CS Energy Scaffolding Procedure is to gain access to a variety of elevated plant that will require access to conduct inspections and maintenance as required by the work scope.

All scaffolding work undertaken on all CS Energy sites shall comply with:

- Australian/New Zealand Standards AS/NZS 4576: 1995 "Guidelines for scaffolding"
- Australian/New Zealand Standards AS/NZS 1576 series
- Queensland Scaffolding Code of Practice 2021

## 2 SCOPE

This procedure applies to all CS Energy sites where personnel work with scaffolding; this procedure also establishes a minimum standard for scaffolding.

## 3 RESPONSIBILITIES AND ACCOUNTABILITIES

#### 3.1 Plant Manager / Maintenance Manager

- Ensure all scaffolding is erected in accordance with AS1576 as a minimum standard.
- A Scaffold register, including a Scaffold tag System, are implemented.
- Scoping and planning of scaffolds for scheduling purposes.
- After periods of inclement weather such as, heavy rains or high winds, erected scaffolds exposed must be inspected by a competent licensed person before use.

## 3.2 Supervisors

- Ensure scaffolding is safe for use and appropriate for its intended purpose.
- Ensure fall protection has been designed into the erection and dismantling process (e.g. risks are eliminated through safe design)
- The storage of all scaffold and associated equipment shall be stored in a safe manner before, during and after construction.

# 3.3 Scaffolder

#### Must: -

- Ensure scaffolding is erected and dismantled in accordance within the relevant Australian Standards AS1576.1and Queensland Scaffolding Code of Practice.
- Access to the area where the scaffold is being erected shall be barricaded and warning signs
  or do not enter signs for a potential drop zone posted as per CS Energy Barrier/Barricade
  procedure CS-OHS-36.
- A re-inspection schedule shall be established and documented on Scaffold tag and register (within 30 days of erection).
- Ensure all requirements for safe erection, use and dismantling of scaffolding are complied with.
- Where practicable scaffolds shall be erected one lift at a time ensuring each level is fully decked and a guard rail fitted as per AS 4576 1995 Sections 9.4, 9.5, and 9.6.

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- Any working platform 2 meters or more shall be fitted guardrails and toe boards on all open sides and ends. The guardrail shall be between 900mm and 1100mm in height and the mid rail halfway between the deck and the top rail.
- Toe boards installed on scaffolds must be secured in place (e.g. with toe board clips) to prevent uplift and dislodgement.
- Where fixed edge protection is omitted to facilitate access, a self-closing gate should be installed, or other suitable method used that gives the equal edge protection.
- Prior to starting work complete or review:
- JSEA with the group party involved; and
- Form S2214 Scaffold Plan
- Hold a current and valid scaffolding licence<sup>1</sup>.
- Restrict access to unfinished sections of scaffold to prevent inadvertent access to at-risk areas (i.e. if a number of planks in one bay were omitted to facilitate access for a sling this bay shall be fundamentally blocked off).

#### 3.4 **Scaffold User**

- Prior to use check the Scaffold tag is correctly completed endorsing the scaffold is safe for
- Carry out a visual inspection i.e. ladder is tied; scaffold has not been struck by vehicles etc.
- Use scaffolding for its purpose intended (i.e. understand weight restrictions for the scaffold, maintain three points of contact while on ladders, uni-mesh protection on handrails to prevent objects from falling, etc.).
- Check the inspection period (inspection intervals every 30 days). In the event that the scaffold requires inspection the competent person who built the scaffold or the scaffolder's Supervisor must be informed to arrange for the required inspection, prior to access being authorised.

#### 4 SCAFFOLDING GENERAL REQUIREMENTS

The following general requirements shall be implemented to minimise the risks associated with scaffolding:

- Only trained and licensed personnel to erect and dismantle scaffolds
- Scaffold equipment must be used and maintained to a standard
- Scaffold must only be used as intended
- Scaff Tags must be used for all scaffolds, displayed in the appropriate manner and used by all personnel accessing a scaffold
- Inspections of scaffolds must be completed at specified intervals outlined on the Scaffold Register at a frequency of no more than 30 days
- Scaffold Plans manage the risk of erecting and dismantling scaffold.

<sup>&</sup>lt;sup>1</sup> Only trained and competent personnel are allowed to erect or dismantle scaffolds and scaffolders in training may assist a competent scaffolder with the erection or dismantling of scaffolding

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#### 5 SCAFFOLD IDENTIFICATION

All scaffolds will be monitored using the scaffold tag system, a scaffold tag holder will be attached to the structure next to the access point where a completed scaffold tag will indicate the status of the scaffold along with a register that will be maintained by the scaffolding supervisor and inspections are conducted at a frequency of 30 Days or less.

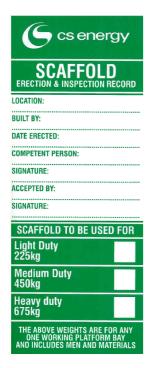
These scaffolds will be erected from a suitable structural base and all scaffolds will be built to one of the three duty weight carrying capacity being;

**Light Duty** 225kg, or Medium Duty 450kg, or **Heavy Duty** 675kg

When the scaffold is incomplete the Scaffold tag holder will be showing the International prohibition symbol and the script "Do Not Use Scaffold".

The Scaffold Register is a logbook record of all scaffolds at each of CS Energy plants. It displays the unique scaffold number, location, and date of construction, inspection times and the name of the erector along with a copy of the scaffold plan; a scaffold register will be located within the maintenance teams and the overhaul teams.

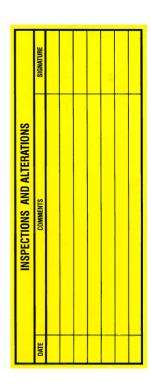
Example of a scaffold tag system



Green portion depicting scaffold safe to use within weight restrictions



Scaffold Tag Holder depicting that the scaffold is unsafe for use



Inspection and alteration traceability



#### 6 ERECTION METHOD

Prior to any scaffold being erected on a CS Energy site the JSEA must capture these points detailed below.

#### 6.1 Hazards and Control Measures

- Falling from heights
- Falling objects
- Atmospheric conditions
- Heat
- Manual Handling
- Access & Egress
- Lighting
- Scaffold Failure
- Noise
- Plant

#### 6.1.1 Falling from Heights

At all times during the erection or the dismantling of scaffolding, scaffolders must not be at risk of falling from a height greater than 2.0 metres, <u>or a lesser height</u> where a risk assessment identifies a potential of falling onto hazards that could cause injury e.g. onto sharp equipment below.

Listed are three example methods of safe work at heights that could be used to control the heights risks<sup>2</sup>:

- 1. Use of a safe work method that keeps the scaffolder inside handrails and standing on no less than two planks and a full deck 2 metres below.
- 2. Use of a fall arrest safety harness and fall arrest / restraint device anchored to an anchor point above shoulder height that has an ultimate breaking strength of >15 kN.
- **3.** Use of a catch net suspended no less than three (3) metres below the work platform and anchored by an approved method.

## 6.1.2 Falling Objects

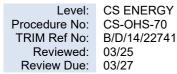
Personnel are to ensure that scaffolding is passed in a manner that will maintain control of that item. Overhead protection is to be erected at all times and only restrict access to those who are building the scaffold. If one person is to leave the chain for any reason, then he/she is to alert both the person above as well the person below. If in area where visual contact cannot be maintained with the equipment being passed, then ensure person/s do not enter into this area.

Lift levels for each person in a chain is not to **exceed 2m** to manage potential falling objects and handballing injuries. When lifting or transporting, scaffold must be double wrapped to prevent scaffold components from falling.

## 6.1.2.1 Gaps

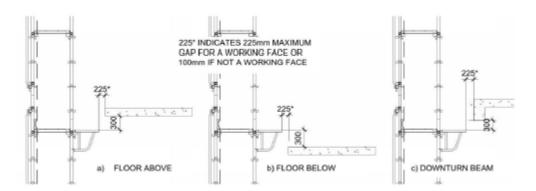
Where possible you should implement a control to close gaps when working above or alongside them. Specially consideration should be given to eliminating gaps over common access and egress points.

<sup>&</sup>lt;sup>2</sup> Refer to the CS-PTW-HAZ-02 Working at Heights for further information on suitable controls for this hazard.





A maximum distance of 100 mm - 225 mm from the scaffold working deck to the building structure horizontally, a 300 mm gap vertically from the top of a floor level and a 300 mm gap from the underside of a soffit level is allowable.



#### 6.1.3 Barricade

All areas where a risk assessment has recognised a potential risk of injury to pedestrian or damage site vehicles/plant, a suitable barrier/barricade must be erected in accordance to CS Energy Barrier/Barricade procedure – <u>CS-OHS-36</u>

#### 6.1.4 Atmospheric Conditions

CS-PTW-HAZ-03 Confined space procedure to be followed at all times.

#### 6.1.5 Heat

Prior to working in heat affected areas conduct an assessment as detailed in CS Energy procedure for working in heat – CS-OHS-24

When scaffolding is to commence personnel are to ensure that they drink sufficient water; supervisors are to monitor this hazard and when required organise rest periods or rotation of personnel.

#### 6.1.6 Manual Handling

Supervisors are to monitor work requirements based on risk and rotate or rest personnel. Placement of scaffolding equipment is to be distributed so that handling is at a minimum. Use mechanical aides where possible and this includes the use of pallet jacks, cranes and winches.

Lifting techniques are to be discussed as part of the JSEA process

#### 6.1.7 Access and Egress

Keep access clear to leave a route for passing scaffolding equipment and in an emergency, personnel can be accessed by ERT.

An external perimeter scaffold with a top working platform more than 8 m high and a length of more than 60 lineal metres, should be provided with at least two means of access and egress, one of which should be suitable for emergency stretcher access.

#### 6.1.7.1 Step Heights

The step heights and goings in a scaffold stair system should be consistent within a straight run of steps between landings. Where there is a change in direction between landings, any difference in step height from the scaffold stair to an access or egress point should be minimised so that it is no more than 300 mm.



#### 6.1.8 Lighting

Ensure adequate lighting is installed and adequate power supply is available to ensure lighting is maintained inside confined spaces. Emergency lighting should also be installed progressively. Install an information tag at the power source to prevent loss of power whilst the space is occupied.

#### **Scaffold Failure** 6.1.9

Ensure engineered scaffolds are built (including all ties and bracing) as per the approved drawing. No alterations are to take place unless authorised by an engineer and supervisor. All supervisors and personnel to use scaffolding are to ensure that the scaffold is not over loaded.

All equipment should be visually inspected, and any faults or defects found shall be removed and reported as well as tagged out in a quarantined area

Suspended (Swing Stage) scaffold components may have cracks in components that are not easily visible and may increase the risk of scaffold failure. Non-destructive testing for cracks in these high stress areas of Suspended Scaffolding components should be done every three years.

#### 6.1.10 **Noise**

Impact noise is a hazard and ear protection may be required to be worn if the noise levels are in excess. Mandatory hearing protection zones are to be complied with.

#### 6.1.11 **Plant**

Specific areas of plant have their own specific hazards during operations, unit run down and run ups.

PLANT	HAZARD	CONTROL
Boiler	Thermal expansion	Scaffolds should not be installed within areas that are affected by thermal expansion unless:  The scaffold can move freely to accommodate movement  Where a penetration exists there is sufficient room between planks/scaffolding components for movement  The scaffold is rendered out of service with the access barricaded and tag removed.  Once the heated component has cooled sufficiently the scaffold can be checked and tagged accordingly If this cannot be achieved a scaffolder/crew should be on standby until the heated component has cooled sufficiently
Actuators	Mechanical – moving parts	<ul> <li>Keep clear of actuators and other moving parts</li> <li>Do not pass a scaffold component between arms that may interfere with the natural movement of the plant</li> </ul>
Generator	Hydrogen	Working within Hazardous areas guidelines
	EMF	Do not encapsulate PIB ducts (Phase Isolation Bar) this will create a circuit from inductance
Ducting	Thin steel – eroded	Inspect all loading points and tie points inside ductwork for erosion
Various heat affected areas	Fire	Keep all combustible materials from touching or being in close proximity to hot surfaces for example ply against steam valve components.
Cranes	Kinetic energy – impact	Where there is a risk of striking a Person or Scaffolding or loads falling suitable controls must be put in place as per Cranes and Lifting procedure – <u>CS-OHS-79</u> , including but not limited to barricading; exclusion zones; use of spotters; and use of taglines.



#### 6.2 Ladders

Scaffolds over 2.0 metres in height will have either an internal ladder system or be protected by a handrail access ladder system to prevent falls from the ladder.

All ladders shall be secured at a minimum of two locations e.g. at the top and at the base

If equipment required for the work cannot be placed in a shoulder bag a gin wheel or other suitable method shall be adopted to locate equipment safely on the scaffold platform.

#### 6.3 Scaffold Planks

- All planks are to be inspected for damage prior to use as per manufactures recommendations.
- Laminated planks are to be inspected for water damage (normally indicated by weight increase or delamination), and
- All planks less than 44 mm thick are restricted to a maximum span of 1.8 metres.
- Damaged planks must be marked and placed in quarantine.

## 6.4 Scaffolding Plan & Design

A plan showing the following must be developed by the scaffolder for each scaffold:

- basis of design
- foundations (including ground conditions, slope and loading restrictions)
- supporting structure
- access and egress
- tying
- bracing
- type of scaffold
- edge protection
- number of plank levels
- number of working levels

Unusual or complex scaffolds require an engineering design and approval.

Scaffold plans are to be kept on the permit or the work pack.

CS Energy's <u>Form S2214</u> Scaffold Plan, or otherwise approved plan equal to or better than, shall be used for each scaffold. A copy is to be maintained in the site scaffold register or project register.

The table in Attachment 2 indicates when an engineer should design verify and inspect various scaffolds

## 6.5 Handover Inspection Certificate

The person responsible for the erection of scaffold where there is a risk of falling 4 metres should provide the person conducting a business or undertaking (PCBU) or principal contractor with a handover certificate (Form S2294) (B/D/20/3049) once the scaffold has been checked that it is safe to use. The handover certificate should be kept on site until the scaffold has been dismantled.



#### 6.6 Prefabricated Scaffold

Prefabricated scaffolding is an integrated system of prefabricated components manufactured in such a way that the geometry of assembled scaffolds is pre-determined. This scaffold can be erected by a competent person<sup>3</sup> up to a maximum height of 4 metres



#### 7 DISMANTLING METHOD

A sequential method of dismantling shall be adopted –

- Remove any debris prior to beginning to dismantle the scaffold.
- Identify any components such as scaffold standards that have been modified during the work.
- Dismantle the scaffold from the top down and one complete elevation (lift / level) at a time whenever possible.
  - A platform of at least 450 mm wide, at the level the dismantling has reached, should be in place, where practicable.
  - A full set of planks must be directly under the worker at a vertical distance of no more than two metres
- Leave the handrails in place until the other components are dismantled to manage fall from height hazards.
- Remove the ties ensuring there is no more than two elevations (lifts / levels) of scaffold above the top row of ties.

All material is to be stacked in pallets for collection. Boards are to be stacked on timber, so they can be lifted by crane or forklift.

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<sup>&</sup>lt;sup>3</sup> The competent person shall receive information, instruction, training and supervision in the safe erection, dismantling, maintenance and alteration of the prefabricated scaffolding.



#### 8 **DEFINITIONS**

Term	Definition
Supervisor	A person who supervises and manages a business unit to complete work. (e.g. In relation to hot work, a Supervisor must ensure/assist an OIC in ensuring there are sufficient resources to complete the work (inc. fire watch)).
JSEA	A Job Safety Environment Analysis used to identify the safety and environmental hazards, their risk and controls required for a work activity. CS-OHS-11
Scaffold tag	Registered trademark for a scaffold management system.
PPE	Personnel Protective Equipment
Scaffold	A temporary structure, stage or platform specifically erected to support access or working platforms, persons, plant or other material.  Light duty; 225kg  Medium duty; 450kg  Heavy duty, 675kg as defined by AS1576.1.
Prefabricated scaffold	Prefabricated scaffolding is an integrated system of prefabricated components manufactured in such a way that the geometry of assembled scaffolds is predetermined.
Scaffolder	A person competent to erect, alter, repair and/or dismantle a scaffold.  Basic Scaffolder can —  Prefabricated scaffolds  Cantilevered hoist with a load limit not exceeding 500 kilograms (materials only)  Ropes  Gin wheels  Safety nets and static lines  Bracket scaffolds (tank and formwork) Intermediate Scaffolder -  Basic Scaffolding  Tube and coupler scaffolds including tube and coupler covered ways and gantries  Cantilever crane loading platforms  Cantilever and spurred scaffolds  Barrow ramps and sloping platforms  Scaffolding associated with perimeter safety screens and shutters  Mast climbers  Advanced Scaffolder —  Basic Scaffolding  Intermediate Scaffolder Prefabricated scaffolds  Hung scaffolds, including scaffolds hanging from tubes, wire ropes and chains  Suspended scaffolds
Scaffolding	Any component assembly used to be used in the construction of a scaffold.
Lift	Scaffold Level / Elevation
Hazardous Area	An area in which an explosive atmosphere is present or may be expected to be present, in quantities such as to require special precautions for:  • Any access or activity that presents an ignition source, or  • The construction, installation and use of electrical equipment
Unusual or complex scaffolds	A scaffold that requires engineering sign off (RPEQ) e.g. Special duty Scaffolds, where a combination of scaffold designs is required, where support components / structure analysis is required.  Examples include Furnace Scaffold, Nose Scaffold, Wivenhoe suction conduit scaffold.



#### 9 REFERENCES

Reference No	Reference Title	Author
Code of Practice	Queensland Scaffolding Code of Practice 2021	Worksafe Qld
AS/NZS 1576	Scaffolding Series	Standards Aust
AS/NZS 4576	Guidelines for scaffolding 1995	Standards Aust
B/D/15/22964	Form - S2214 - Scaffold Plan	CS Energy
B/D/12/11085	Procedure - CS-OHS-36 - Barricades and Signage	CS Energy
B/D/11/30949	Procedure - CS-OHS-24 - Working in Heat	CS Energy
B/D/11/19581	Procedure - PTW / H&S - CS-PTW-HAZ-02 - Working at Heights	CS Energy
B/D/11/39828	Procedure - PTW / H&S - CS-PTW-HAZ-03 - Working in Confined Spaces	CS Energy
B/D/12/1362	Procedure - H&S - CS-OHS-52 - Ladders	CS Energy
B/D/20/3049	Form - CSE - H&S - S2294 - Scaffold Handover Certificate	CS Energy

#### 10 RECORDS MANAGEMENT

In order to maintain continual improvement, suitability, safety and effectiveness of the organisation, registered documents will be reviewed on a two-yearly basis or at intervals specified by legislative or regulatory requirements. Review of controlled documents should occur where it has been identified that there are changes in technology, legislation, standards, regulation or where experience identifies the need for alteration to the content. Registered documents should also be reviewed following an incident, change management process, modification or where directed as part of a risk assessment process. A 'review' can simply mean that it has been identified, confirmed and appropriately recorded that no changes are required and that the existing process remains the same.

Government Owned Corporations must ensure that records are retained according to accountability, legal, administrative, financial, commercial and operational requirements and expectations. In compliance with records retention and disposal, all documentation created in relation to business must be retained in line with minimum retention periods as detailed in legal retention and disposal schedules.



#### 11 ATTACHMENTS

# 11.1 Attachment 1 – Scaffold Design Verification and Inspection Requirements Table

# (Excerpt from Scaffolding Code of Practice 2021, p. 15 & 16)

Type of scaffold	Design verification	Initial inspection
	(1), (3), (4)	(2)
Minor scaffold (less than 2 m TWP) or modular scaffold (less than 4 m TWP)	Supplier or	Competent
	competent	person
	person	
Modular scaffold 4 m to maximum height (5) (6)	Supplier or	Scaffolder
	competent	
Madden and Cald Avilla de della Naharra Aus	person	0
Modular scaffold (with cladding) above 4 m (5) (8)	Supplier or	Scaffolder
Maddle a offeld a tride of standard decreased as a selection of a constant	engineer	0#-1-
Modular scaffold outside of standard documented manufacturer's parameters (7)	Engineer	Scaffolder
Tube and coupler scaffold greater than 33 m TWP or outside of scope of AS/NZS 1576.6	Engineer	Scaffolder
Cantilevered steel beams, trusses or ladder beams (8)	Engineer	Scaffolder
Cantilevered or spurred scaffold (greater than 6 m high)	Engineer	Scaffolder
Bridging beams, truss or ladder beams (greater than 4.8m span or 6m of scaffold	Engineer	Scaffolder
above)		
Hung or drop scaffolds (8)	Engineer	Scaffolder
Independent free standing or guyed scaffold towers – greater than 4 m TWP	Engineer	Scaffolder
(including aluminium static or mobile tower more than 9 m TWP)		
Crane lifted scaffold (9)	Engineer	Scaffolder
		and Crane
		Dogger
Access birdcages (10) (with cladding or more than 20 m TWP)	Engineer	Scaffolder
Mobile scaffold – greater than 4 m TWP (excluding standard aluminium mobile scaffolds)	Engineer	Scaffolder
Stair tower – independent or attached (more than 20 m high)	Engineer	Scaffolder
Gantry or overhead protection structures	Engineer	Scaffolder
Loading bays (greater than 9 m TWP or 2T) (11)	Engineer	Engineer
Suspended scaffold (swing-stage and supports)	Engineer	Engineer
Perimeter demolition scaffold (more than 9 m high)	Engineer	Engineer
Public access structures (requiring Building Code of Australia compliance)	Engineer	
rubile access structures (requiring building Code of Australia compliance)	Engineer	Engineer

#### Notes:

- Design documents can be produced by a competent person provided they are based on tables, charts, brochures or information which has previously been verified for compliance with AS/NZS 1576 by a suitably qualified person such as a Registered Professional Engineer of Queensland (RPEQ) engineer experienced in the design of temporary works.
- Initial inspections prior to use for compliance with all design documents to be carried out by a suitably qualified scaffolder unless noted otherwise. Ongoing and 30-day inspections may also be completed by a suitably qualified scaffolder or experienced engineer.
- 3. Minor non-structural changes to scaffold such as smaller bay size substitution, hop up moves, stair location etc. do not require additional engineering verification.
- 4. Scaffolds that require an undocumented structural change should be referred to the designer or engineer for approval and/or inspection.



- Maximum height refers to a manufacturer's maximum approved height. Different systems will have different approved heights and loading configurations. These details should be included as part of the scaffold documentation.
- Scaffolds over 30 m with staggered tie patterns on adjacent legs may often require specific engineering design due to the large leg loads and buckling effects of unsupported standards.
- Complex scaffolds where standards are not continuous from top to bottom (typically some industrial type scaffolds and large civil works) should be certified by an engineer.
- Due to the complexity or critical nature of a scaffold, the designer may deem it necessary to have engineering inspections.
- 9. Inspections of crane lifted scaffold should be undertaken by both the scaffolder and the crane dogger to ensure all lifting points and methods are clearly communicated to all parties. The crane crew is not expected to inspect or verify the scaffold but only to be made aware of the designed lifting arrangements. Lifting points and slinging arrangements are to be designed by an engineer.
- 10. In accordance with AS/NZS 1576, some types of equipment that incorporate temporary working platforms may not be considered to be a scaffold. These types of equipment may include formwork support systems erected primarily for the support of concrete and should be designed and used in accordance with AS 3610 and the Formwork Code of Practice.
- 11. All loading/landing bays that exceed the duty rating of the scaffold need to be design verified by an engineer.