

PROCEDURE 05 RAMS – APPENDIX PROJECT METHOD STATEMENT

	SPEN Kincardine XD130 tower foundations		FAL 230798	17.05.24
	SPEN		Kincardine tower Old Kincardine power station Kincardine FK10	

	Steven Brookes
	Gary Dunlop
	Steven Brookes
	Gary Dunlop [Redacted] Steven Brookes [Redacted]

This Method Statement should be reviewed when there is any deviation from the methods or procedures detailed herein, at specific review points detailed here, or at 3 monthly intervals – whichever is sooner:

Click or tap here to enter text.

			Reviewed by Client's Rep	Date of Review	Signed as Approved	

Contents

1.1 Brief Description of Project 3

1.2 Prestart 3

1.3 Key H&S Hazards and Controls (identified in the risk assessments section of the CPP) 5

1.4 Access Arrangements 7

1.5 Site Logistics (Ideally should include a site logistics plan/sketch) 7

1.6 Stability of Structures and Temporary Works 9

1.7 The Works Methodology & Sequence (for larger projects consider separate task method statements) 9

1.8 Protection of Assets, surrounding area, building, etc 12

1.9 Work Equipment (PUWER, LOLER) 12

1.10 Materials and CoSHH including presence of lead and asbestos. 12

1.11 Emergency Arrangements..... 12

1.12 Covid Arrangements 13

1.13 Environmental Protection and Nuisance 13

1.14 Waste 13

1.15 Records and Documentation 15

PROCEDURE 05 RAMS – APPENDIX PROJECT METHOD STATEMENT

■ Brief Description of Project

- Set up of site compound and access enabling to work areas, and water supply.
- Erect scaffold at foundation access jetty and two number dolphins at XD130 tower (Subcontractor Access Solutions)
- Power wash substrates soffits piles etc at foundation access jetty and two number dolphins using 4000 psi power washer.
- Carry out condition survey/agree and mark up extent of concrete repairs.
- Saw cut perimeter edges of repairs.
- Provide protection and attendance to CRL hydrodemolition contractor AMMLEE.
- AMMLEE to breakout identified areas of concrete.
- Trim edges and breakout.
- Installation of patch guard anodes
- Grit blast reinforcement to SA 2.5 standard (if necessary, replace) apply reinforcement protector.
- Reinstate concrete using dry spray method (Renderoc DS) and finish to original profile.
- Replace handrails on foundation access jetty.

1.1 Prestart

Construction Programme: key dates, sequencing, coordination and cooperation	The project is due to start 10.06.24 for 15 weeks for phase 1. Phase 2 dates TBC Weekly progress meetings Daily briefings
--	--

Arrangements for: Induction, RAMs briefings, daily briefings, toolbox talks	On arrival to site all CRL and subcontractor operatives will receive CRL site induction. RAMS briefing will be carried out at this time. Daily briefings and weekly TBT.s will be carried out by CRL supervisor/ engineer
--	---

Permit Requirements <i>tick as appropriate</i>	Enter	Electric	Load/ unload	Work	Dig	Hot Work	Other
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Click or tap here to enter text. <input type="checkbox"/>

Confined space entry only for Gallery works- other permits covered by D & B

PROCEDURE 05 RAMS – APPENDIX PROJECT METHOD STATEMENT

Training <i>tick as appropriate</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Appointed Person	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Lifting	<input checked="" type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other Click or tap here to enter text.	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other Click or tap here to enter text.	<input type="checkbox"/>

1 Helmet	yes
2 Gloves	Yes, task specific as per RAMS
3 Boots	Yes, Lace up steel toe cap
4 Hi-Vis	yes
5 Eye Protection	Task specific as per RAMS
6 Life Jackets	Yes, when overside working

Contracts Manager	Gary Dunlop
Site Manager	Steven Brookes
Foreman	TBC

PROCEDURE 05 RAMS – APPENDIX PROJECT METHOD STATEMENT

1.2 Key H&S Hazards and Controls (identified in the risk assessments section of the CPP)

THIS IS THE KEY INFORMATION THAT NEEDS TO BE COMMUNICATED VIA THE RAMS BRIEFING

Hazard	Task Analysis
HAV	<p>Minimal HAVS exposure due to UHP water jetting techniques being utilised for concrete removal.</p> <p>Assessment of likely exposure to be completed for drilling, saw cutting and trimming up edges.</p> <p>Assessment to be available for information and displayed in site welfare.</p> <p>Operatives to be briefed on specific exposure levels for each tool being used by means of TBT.</p>
Manual Handling	<p>Utilise mechanical lifting wherever applicable, use telehandler or pallet truck to move materials around wherever possible. Do not overfill rubble bags. Assess any item to be lifted. Do not attempt to lift something you think may be too heavy.</p>
Silica Dust	<p>Implement LEV or dust suppression when saw cutting edges of repair areas. Operatives to be face fit tested for RPE COSHH assessment available within RAMS pack and explained to ops by means of TBT.</p>
Lifting operations	<p>All lifting equipment to be certified and checked prior to use, only trained competent persons to carry out the lift. Banksman to be in attendance.</p> <p>Lift plan to be briefed by TBT.</p>
Pigeon Guano	N/A
Asbestos	N/A
Working from height	<p>Scaffold to be erected, checked, and maintained by trained competent personnel only. Ensure scaffold is tagged & fit for use prior to gaining access. Do not alter scaffold if not trained to do so. Do not overload scaffold. Ensure all toe boards etc are in place. Do not leave plant or equipment unattended on scaffolding.</p>
Hydrodemolition/UHP Water jetting	<p>WJA certified operatives to operate machinery. Exclusion zone minimum 10m metres to be maintained, protect surrounding areas from flying debris using debris netting / monoflex. Maintain water containment and treatment prior to discharge. CRL specialist sub-contractor Ammlee to provide separate RAMS.</p>

PROCEDURE 05 RAMS – APPENDIX PROJECT METHOD STATEMENT

Hazard	Task Analysis
Grit blasting	<p>Consider dustless blasting techniques if applicable. Set up exclusion zone around work area.</p> <p>Top man to be in attendance during grit blasting operation to ensure exclusion zone is maintained.</p> <p>COSHH assessment for Respirable Silica Dust to be briefed to operatives by means of TBT.</p> <p>Operatives to be briefed on exposure levels.</p> <p>Do not exceed exposure levels.</p> <p>Ensure COSHH control measures are implemented.</p> <p>Ensure appropriate RPE (minimum air fed respirator) available.</p>
Noise	<p>Hearing protection zone to be maintained around work area during Hydrodemolition and grit blasting works. Noise from hydrodem and grit blasting likely to exceed 95+db. Carry out noise assessment and check that chosen protection reduces daily exposure to an acceptable level.</p> <p>Provide and maintain supply of appropriate PPE (Ear defenders/plugs)</p>
Environmental	<p>When working over water contamination is a concern especially with regards to adverse effects on marine environment.</p> <p>All fuel and chemical storage to be bunded and securely locked.</p> <p>Have spill kits available and ensure operatives know how to use them.</p> <p>Noise is unavoidable but is unlikely to affect neighbours.</p> <p>Dust will be controlled and limited.</p> <p>Waste to be removed daily and uplifted by site waste disposal contractor for off-site disposal or recycle.</p> <p>Fire extinguishers to be readily available.</p> <p>Plant nappies to be available for mobile plant.</p> <p>Arisings from hydrodem activities to be controlled as above.</p>

PROCEDURE 05 RAMS – APPENDIX PROJECT METHOD STATEMENT

Hazard	Task Analysis
Additional environmental considerations	<p>Works taking place within a Site of special Scientific interest (SSSI), Special protect area (SPA) and Wetland of international Importance (Ramsar). Consideration must be taken to avoid the disturbance of nesting birds, habitat damage and others resting places.</p> <p>To avoid potential impacts resulting from pollution of the watercourse, saltmarsh and GWDTE`s pollution prevention measures, in accordance with SEPA guidelines will be adhered to throughout the duration of the works.</p>
Click or tap here to enter text.	

1.3 Access Arrangements

<p>Vehicular and pedestrian routes and segregation</p> <p>Access to the works</p>	<p>Vehicle and pedestrian routes are clearly marked throughout the site and will be strictly adhered to. Work site segregation and exclusion zones will be set up and maintained by CRL during the works</p> <p>Access to the works will be set up and maintained by CRL.</p>
---	---

1.4 Site Logistics (Ideally should include a site logistics plan/sketch)

<p>Site plan, materials & waste storage, welfare, housekeeping, deliveries, client interface, services, coordination with client and contractors</p>	<p>SPEN will supply offices and welfare.</p> <p>Waste will be deposited into skips in the site compound at regular intervals as not to allow hazard to build up.</p> <p>CO-ordinaton to minimise third party interfaces to be maintained.</p>
---	---

PROCEDURE 05 RAMS – APPENDIX PROJECT METHOD STATEMENT

Insert logistics plan/sketch here- See D & B Plan

1.5 Stability of Structures and Temporary Works

Temporary works will include elements such as exclusion zones, bunds, Monarflex sheeting, and debris netting installed as protection from water jetting and grit blasting activities.

Scaffold by CRL sub-contractor (access solutions)

CRL will maintain their own temporary works register and will be included within SPEN temp works register.

CRL TWC, G Dunlop

CRL TWS Steven Brookes

1.6 The Works Methodology & Sequence (for larger projects consider separate task method statements)

Mobilise to site Phase 1

This mobilisation will include the following – establishing accommodation, offices, welfare etc and access to work areas & enabling works.

Attending inductions & RAMS briefings.

Once established on site Access solutions to erect access scaffolding to foundation jetty approach and 2 number dolphins.

Once a safe working area is established, with appropriate exclusion zones, Ammlee to mobilise to site.

Carry out condition survey and agree extent and sequencing of repair works with Client's Engineer. Repairs sizes and locations to be recorded on drawings as works proceed.

Saw cut repair perimeters to 10mm depth taking care not to cut strands or reinforcement.

CRL to erect Monarflex sheeting/debris netting protection around work areas, run hoses from potable water supply, install debris capture and spent water containment bund at work area.

Set up filtration and pH adjust unit.

Consider and take cognisance of tide tables/shipping movements and plan works daily/weekly on this basis.

Connect potable water supply to hydrodem pump on pier. Erect warning signs and barriers to prevent access.

Carry out hydrodemolition as per AMMLEE RAMS to required depth – i.e. 20mm min behind reinforcement to Dolphins and Jetty deck soffit and crosshead/pile locations (unless otherwise directed by clients engineer)

As work proceeds CRL operatives will regularly during hydrodem operation changeover take access and remove concrete debris into 0.5-ton bags to ensure there is not a build-up of material which could lead to platform overload. Spent water to be captured and pumped through a pH adjust and filtration unit before being released into the watercourse. Debris will be removed from the platform and placed in skip for disposal by approved waste carrier.

Once hydrodemolition operation is complete, damaged edges of repairs will be sawcut using 5” angle grinder with diamond tipped blades and trimmed using medium duty electric breaker – Makita 4013 or similar. In addition, any concrete ‘shadows’ left behind reinforcement will be removed. Operatives to be aware of HAVS exposure levels for each tool being used. (See HAVS assessment of likely exposure)

Reinforcement will be thoroughly cleaned using grit blast method using natural media and will be coated with Fosroc Nitoprime Zincrich protective coating immediately. Where necessary additional replacement bars will be installed as instructed by the engineer or as per tables detailed in project specification.

Patch Guard anodes are then to be installed around repair areas; 25 mm holes are to be drilled at 400 mm spacing around outside edge of repair Ducrete GP mortar will be applied into the drill hole then the anode fixed into place. The anode will then be connected to the rebar using cable ties.

Install temporary formwork required to allow spray concrete reinstatement to be carried out to appropriate profiles.

Hit and miss techniques to be agreed and implemented for large area repairs to soffit, beams, and piles.

Set up spray operation. This will require connection to potable water main again, and air supply to spray pump. Communication system between pump operator and nozzleman to be established. Substrate to be pre-soaked to saturation using water only from the spray pump. (No need to use substrate primer with dry spray materials.) Pump operator feeds 25kg bags into pump hopper. (It is important that the bags are located to allow good ergonomics for loading into pump hopper). Fosroc Renderoc DS to be used for spray concrete application.

Nozzleman will communicate with pump operator throughout the operation to adjust the air pressure, water flow rate etc.

Nozzleman will fill areas behind rebar etc to profile and will stop periodically to assist finisher to screed to required profile.

This will include striking off and float finishing to provide a dense sealed surface.

Apply curing agent.

On completion of the jetty approach works and dolphin works scaffold is to be dismantled and CRL will demobilise from site until phase 2 works are to commence.

Phase 2 works to be covered under separate MS

1.7 Protection of Assets, surrounding area, building, etc

Works taking place underneath the Foundation jetty approach and dolphins so protective sheeting (mona flex or debris netting) will be draped from the pier side to encapsulate/segregate CRL works from third parties and adjacent plant and equipment. This protection will be lifted at the end of each shift in case of inclement weather out with site hours.

Banksman to be attendance for telehandler movements, grit blasting and hydrodem activities.

1.8 Work Equipment (PUWER, LOLER)

Hydrodemolition pump, hand lancing equipment plant nappy and spill kit,
10 kva generator to run site offices/welfare etc.
6 kva generators to provide power at work site.
12-ton digger and a dumper
400cfm compressor c/w plant nappy and spill kit, air lines & whip checks,
Spray pump c/w associated feed and delivery hoses,
Grit pot c/w delivery hoses and air fed RPE equipment to be set up locally to the repairs being carried out below the Foundation jetty approach deck and Dolphins.
Space to store bagged debris / up to 24 No 1 Ton pallets of dry spray material (Renderoc DS) and toolbox.
Medium duty breakers, circular saw, c/w dust extraction, 5" grinders c/w dust extraction, extension cables, pressure washer and hand tools.
Telehandler to load / unload scaffold, debris, and dry spray concrete pallets. Fuel bowser and fuel.

1.9 Materials and CoSHH including presence of lead and asbestos

Materials

Renderoc DS, Renderoc DSR, Nitoprime Zincrich,, various reinforcement Patch Guard anodes
Duo Crete GP mortar Timber for shutters

Coshh

Renderoc DS, Renderoc DSR, Nitoprime Zincrich, Diesel fuel, Silica dust, Stone grit Duo Crete GP
Patch guard anodes

1.10 Emergency Arrangements

PROCEDURE 05 RAMS – APPENDIX PROJECT METHOD STATEMENT

Coordination and cooperation with client's arrangements, fire plan, first aid, rescue from height, man-overboard, confined space, etc (see reference in CPP)

Site emergency procedures to be explained during site induction.
CRL will have at least 2 first aiders on site at any time.
Fire extinguishers & spill kits to be readily available at site compound and work areas.
Nearest A&E
Fourth Valley Royal Hospital
Stirling Road, Larbert
FK5 4WR

1.11 Covid / Other Special Health Arrangements

Click or tap here to enter text.

1.12 Environmental Protection and Nuisance

Plant nappies and spill kits to be available for mobile plant.
Wastewater from hydrodem operation to be filtered for solids and PH adjusted prior to disposal.
Discharge consent for spent water and Marine license by others.
Hearing protection zones and exclusions zones to be set up and maintained during CRL works.

1.13 Waste

PROCEDURE 05 RAMS – APPENDIX PROJECT METHOD STATEMENT

Control of waste

Waste will be tidied at regular intervals to ensure scaffold is not overloaded.

Waste will be deposited in site skips for transfer by approved waste disposal contractor.

All waste will be segregated as far as reasonably practicable prior to disposal in site skips.

The majority of CRL waste will be concrete rubble, reinforcement, paper bags and concrete overspray.

Wastewater from hydrodem will be treated as mentioned above.

