



JN Bentley Ltd QES Information (Quality, Environmental & Safety)

Requirements for Suppliers

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Rev	Date	Description of addition (A), Deletion (D) or Substitution (S)	Approved by
Α	17/06/2009	Initial drafting	D M Bentley
В	23/09/2009	Amended following review and comments. Section 2.0 – change details clarified. Section 5.1.5 – examples of nationally recognised training schemes added. Revised wording in paragraph. Section 6.3 – Plant specific examples of nationally recognised training schemes added. Section 6.36 - added to refer to OSS111 Avoidance of Overhead and Underground Services. OSS111 abridged version added to appendix A. Appendix C added - Supplier Guidance on suggested minimum requirements for RA/MS.	D M Bentley
с	01/02/2010	OSS108 abridged version added to appendix A OSS109 abridged version added to appendix A New format Golden Rules added	D M Bentley
D	05/03/2010	Appendix D added containing templates for PUWER & LOLER Weekly Inspection Register and CoSHH Assessment	D M Bentley
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J	December 2014	Amendments to 4.26, 4.28 and Appendix A (OSS103)	R Magagnin
к	October 2015	Additional appendix added	D M Bentley
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1.0 Introduction

This booklet is issued to companies (hereafter "suppliers") supplying any of the following to J N Bentley Ltd (JNB):

- Services
- Personnel
- Materials
- Plant or equipment
- Goods

It outlines the JNB safety and other rules and procedures which the supplier is required to follow when undertaking work on behalf of JNB.

The booklet is produced primarily for use of the supplier's management and supervisory staff who are required to ensure that the rules and procedures are brought to the notice of all the supplier's employees.

If there is any doubt or misunderstanding about the contents of the booklet, the supplier should consult the appropriate representative of JNB for clarification. Where the supplier requires special consideration, precautions, or more detailed guidance on safety procedures, this should be discussed this with JNB's representative (usually project Quantity Surveyor or site supervisor) prior to works commencing.

JNB retains the right to stop any supplier operation or activity, including any use or preparation for use of plant/equipment, etc if it is considered that there is an uncontrolled hazard to the safety and health of any person or to the environment. JNB will not accept any responsibility for any costs incurred as a result of such action

The supplier and supplier's employees are required to comply with any written or verbal instructions given by a company representative or QES Advisor in respect of health, safety, and environmental practices

The responsibility for ensuring that suppliers' employees understand and comply with the relevant safety procedures rests with the supplier.

2.0 Policy

2.1 Supplier – Duties & Responsibilities

Suppliers shall ensure:

- that their employees and appointed suppliers are fulfilling their duties and responsibilities;
- that their appointed Designers are undertaking their Legal quality, environmental, health and safety duties and that their specifications are in line with current codes of practice, including The Equality Act 2010 and Security requirements;
- their appointed Designers comply with the supplier's own procedures or with JNB BIMS procedures for Control of Design, Temporary Works and Document Control as applicable ;
- that controls detailed in the initial Suppliers Works Information are provided to the site superviser for incorporation into the Contract Management Plan;
- that when appointed by JNB as Principal Contractor, no construction work starts without a Construction Phase Health and Safety Plan being in place which has been checked, agreed and signed off in line with client requirements;
- that during any Design Changes, their designers are carrying out their duties and providing updated design risk assessments when there are significant changes to the hazards and risks either for the construction phase or for future maintenance;
- that they promote sustainability by ensuring their designers consider:
 - designing out materials and substances that are hazardous or environmentally harmful;
 - products and components that are manufactured with less environmental omissions;
 - materials that are obtained from registered, sustainable sources;
 - minimising waste creation by i) reusing, ii) recycling existing products and materials
 - products and materials that assist in reduction of energy usage
- organise, co-ordinate and manage frequent project progress meetings with their respective supplier (designers, material suppliers etc) and, when necessary, with the JNB appointed site superviser;
- attendance at other organised meetings and workshops as required by JNB;
- a regular report on actions and status is provided to the JNB site superviser as required; and
- any necessary actions to be implemented are communicated to the key parties, to prevent risk and ensure QES compliance

2.2 Anti – Bribery Policy

Suppliers shall comply with the Bribery Act 2010 and adhere to JN Bentley Ltd's Anti Bribery Policy which includes the following:

Offering Bribes

JNB **<u>expressly prohibits</u>** the promising or giving of any financial or other advantage to another person where it is intended that this will bring about the improper performance by another person of a relevant function or activity, or that this will reward improper performance.

JNB <u>expressly prohibits</u> the promising or giving of any financial or other advantage to another person where it is believed that the acceptance of this itself constitutes the improper performance of a relevant function or activity.

Accepting Bribes

JNB <u>expressly prohibits</u> the requesting, agreeing to receive, or receiving of any financial or other advantage with the intention that a relevant function should be performed improperly as a result of it or as a reward for performing the relevant function improperly.

The improper performance of a relevant function in anticipation of receiving financial or other advantage is also **<u>expressly prohibited</u>**.

Bribing a Public Official

JNB **<u>expressly prohibits</u>** the bribing of a UK or foreign public official in order to obtain or retain business or an advantage in the conduct of business.

Hospitality and Business Gifts

JNB prohibits the giving or receiving of hospitality/business gifts and similar where the intention is to receive or confer an advantage in return. The following should be followed in relation to all hospitality/business gifts:

Business gifts should not be given without the permission of a Director/Operations Manager. When selecting approved business gifts caution should be taken to ensure they are appropriate i.e. not too large, personal in nature or one of a series of gifts

All hospitality must be proportionate. Guidance should be sought from a Director/Operations Manager on what is considered proportionate; this advice will relate to the level of expenditure that is appropriate, that the hospitality is in keeping with JNB image and consideration has been given to who is attending

Business gifts or hospitality should not be accepted by any employee without authorisation from a Director/Operations Manager

Cash gifts are expressly prohibited

A full copy of the JN Bentley Ltd.'s Anti-Bribery Policy is available on request.

3.0 Contractual obligations for suppliers carrying out role of contractor in as defined in the CDM regulations

- 3.1 **Before** commencing work on site, the supplier is required to:
 - Sign and return JNB Supplier QES Undertaking
 - Provide design risk assessments where design forms part of the sub-contract works;
 - Advise JNB in writing if you intend to engage or appoint any other contractor;
 - Ensure that you and your employees have been made fully aware of any hazards associated with the work, and that the appropriate safety procedures and equipment will be used.
 - Ensure that personnel are suitably trained & competent to carry out their work.
 - Supply the site superviser with your risk assessments and method statements (in good time and at least three days prior to start of the work activity), detailing:
 - how the work will be carried out safely ;
 - how to ensure the work meets the specification and relevant OSS;
 - the inspection and testing planned to ensure the completed work meets the requirements;
 - any Environmental aspects and associated controls required

Guidance on the content of risk assessments and method statements can be found in appendix C of this document.

All Suppliers will ensure that persons employed to carry out the task have seen and understood the risk assessments and method statements and records of this (signatures) are passed on to the **JNB** site superviser.

- 3.1.1 **COSHH:** the supplier must provide the site superviser with a list of all hazardous substances and provide specification/assessment sheets and storage requirements (eg gas cylinder cages) for all such materials to be used on site and brief all persons using the substance/s on the hazards and specific controls.
- 3.1.2 Suppliers must ensure that employees have the necessary medical clearance where specifically required by the client or operation (e.g. National Water Hygiene Card for work on clean water storage / treatment sites; SHEA Gas training etc) as detailed in the Client specific documentation or contract specific Contract Management Plan (construction phase health & safety plan equivalent).
- 3.1.3 Where necessary (eg when transferring from waste water related activities to clean water working etc) suppliers must ensure that personnel, plant, equipment, tools and vehicles are disinfected (or changed) before arriving on site to prevent cross contamination.
- 3.1.4 Where applicable suppliers must provide a Site Waste Management Plan (SWMP) for predicted waste and update with actual waste information as the project progresses(template SWMP can be found on www.netregs-swmp.co.uk/ SWMP data sheet.)
- 3.1.5 The supplier is to provide evidence of competency for all personnel working on their sites. These competencies should be from a nationally recognised assessment scheme/training programme such as CSCS, CPCS, ECS, CISRS, and IPAF etc.
- 3.1.6 Supplier employees must attend a Site Induction* (see clause 4.1 for minimum standard for Induction Training)

* (this will normally be provided by the JNB Site superviser. However, in some cases, the supplier may be required to provide an induction. The inductions must be to the JNB standard. Records of inductions by means of signatures of persons inducted must be passed on to the JNB Site superviser. Details of standard induction inclusions can be seen in section 4.1.

3.2 WHILST CARRYING OUT THE SUB-CONTRACT WORKS, suppliers must:

- 3.2.1 Comply with the requirements of the Health & Safety at Work Act 1974, and all other Acts, Regulations, and Codes of Practice, as they apply to your operations.
- 3.2.2 Comply with all common law obligations to your employees and others who may be affected by your operations, including the general public.
- 3.2.3 Comply with the requirements of this document, and employ only safe working systems during the execution of your work.
- 3.2.4 Take charge of any safety equipment issued to you, ensure its correct use, and return it in working order.
- 3.2.5 Supply personal protective equipment and clothing to your employees as the work requires. As a minimum the following shall be worn:

SAFETY HELMETS, GLOVES*, HIGH VISIBILITY CLOTHING AND SAFETY FOOTWEAR (INCLUDING STEEL OR COMPOSITE TOE AND MID-SOLE PROTECTION) SHALL BE WORN AT ALL TIMES. ADDITIONAL PERSONAL PROTECTIVE EQUIPMENT SHALL BE WORN IN LINE WITH CLIENT SPECIFIC, REGULATORY OR RISK ASSESSMENT REQUIREMENTS.

*Gloves must be suitable to protect against the expected hazard and may only be removed for specific tasks that are rendered either impracticable or more hazardous by their use, and ONLY following risk assessment with the express authorisation of the JN Bentley site superviser or designated deputy.

All PPE must be in good condition, in date (where applicable) and worn correctly (eg boots and high vis fastened, hats correctly orientated etc)

- 3.2.6 Only permit suitably licensed or certificated personnel to drive vehicles or operate plant.
- 3.2.7 Comply with JNB Ltd's quality procedures and instructions as laid down in the specification and/or bill of quantities.
- 3.2.8 Ensure all site workers attend the daily pre-work briefing.
- 3.2.9 Ensure that, where workers feel that they are faced with serious and imminent danger they shall stop work immediately and report to the Site superviser. The Site superviser will reassess the task and will apply control measures to reduce the risk to the lowest level possible. Examples include, discovery of asbestos, structural instability, uncharted services etc.
- 3.2.10 Not use semi-automatic quick hitches on, nor supply them to, JNB sites.
- 3.2.11 Follow the requirements relating to workplace tools and equipment included in 4.26.
- 3.2.12 Co-operate with any arrangements on site intended to enable effective co-operation and consultation between all suppliers and workers on site.
- 3.2.13 Immediately report any health safety environmental or damage incidents to the site superviser or nominated representative, and ensure supplier employees/suppliers do so also. Incident reporting must be encouraged so proactive measures can be implemented to prevent incidents.
- 3.2.14 Ensure that all new personnel on site are fully trained, competent, receive a site induction in accordance with the requirements of clause 4.1 and are briefed on task specific risk assessments prior to starting work

- 3.2.15 Conform to JNB's rules (including 10 Golden Rules, Appendix B) together with any other client or local rules.
- 3.2.16 Comply with the following site regulations relating to all vehicles:
 - No commercial vehicle or plant may reverse on site without supervision
 - Vehicles will enter and leave from site at designated points only
 - Seat belts must be worn where fitted
- 3.2.17 Ensure that all personnel report to the site superviser daily before any work commences
- 3.2.18 Provide copies of Environmental documentation (i.e. copies of Waste Management/Exemption Licenses, Waste Carriers Licenses, Waste Transfer Notes, hazardous waste Consignment Notes) where required to the site superviser.
- 3.2.19 Ensure that all waste created as a result of your activity is disposed of in accordance with the Waste (England and Wales) Regulations 2011 or Waste (Scotland) Regulations 2012 as applicable..
- 3.2.20 Ensure that, where applicable the SWMP is updated at least every three months (*ideally monthly*) as the project progresses

3.3 **ON COMPLETION OF WORK SUPPLIERS ARE REQUIRED TO:**

- Submit as built drawings for all work carried out
- Supply operating instructions and maintenance requirements, as applicable, for all items incorporated into the works
- Supply records of all tests and inspections made
- Supply letter of conformity that all work conforms to the specification and/or Bill of Quantities
- Where required provide a Site Waste Management Plan for actual waste created during the project

Note: Item 3.3 is required to complete the Health and Safety File as required by the Construction (Design and Management) Regulations 2015. Failure to provide this information in a timely manner could result in final payment being delayed.

4.0 Operational Requirements

4.1 Minimum standard for Induction Training

- Welcome and introduction
- Contract description and site layout (include car parking, access routes, vehicles, pedestrians, and security procedures)
- Contract major risks/precautions
- Key appointments/designations and JNB role
- Contract overview health and safety plan / objectives / targets
- A summary of legal responsibilities of employer, employee and self-employed
- Golden Rules and general site rules
- Environmental rules
- Incident reporting and first aid arrangements
- Fire and emergency evacuation arrangements/identification of fire extinguishers
- Welfare facilities
- Site communication arrangements for reporting safe/unsafe acts/conditions / receiving safety information
- Any other issues relating to the significant hazards/control measures of recipients e.g. risk assessment detail, safety method statement arrangements, toolbox talks, health issues etc
- Environmental aspects and impacts
- Disclosure of any medication or medical condition that may affect worker safety, or that of others affected by his or her actions

The Supplier must ensure that adequate arrangements are in place to ensure that all persons undergo induction training before commencing work on the project.

4.2 First Aiders

All contractors shall ensure that they provide adequate first aid cover when working on JNB sites to satisfy the requirements of The Health and Safety (First-Aid) Regulations 1981 Approved Code of Practice and Guidance (HSE Publication L74).

The first aider must have a valid certificate of competence in either first aid at work (FAW) or emergency first aid at work (EFAW)

4.3 Competent Persons

Suppliers must ensure that only persons certificated under the following nationally recognised mobile plant training schemes operate mobile plant on any J N Bentley site: CPCS, Lantra, ITTSAR, AITT, NPORS, RTITB IPAF or NPTC.

Mobile plant shall include, but is not limited to: Tower cranes, track mounted cranes, wheeled cranes, crawler cranes, draglines, piling rigs, dumpers, dump-trucks, forklifts, rough terrain forklifts, telescopic handlers, excavators, hoists, mobile elevating work platforms, loading shovels, bulldozers, tractors, graders, scrapers, compactors/rollers (ride-on), pavers, concrete pumps, lorry loaders, trenchers, crushers/screeners, skip loaders, HIABs, trenchers, and quad bikes.

Suppliers must also provide nationally recognised certificates of competency for scaffolders (including persons erecting system or tower scaffolds), demolition operatives, Appointed Persons and signallers/slingers etc.

4.4 **Tool Box Talks Training**

JNB shall, at regular intervals, issue Toolbox Talks that are relevant to ongoing site activities. Suppliers shall ensure that these talks are delivered to their employees in order to maintain good QES awareness throughout the project.

4.5 Mandatory and Advisory Signage

All safety Signs and markings erected by the supplier to warn of any risk of danger, mandatory requirements, prohibitions, or safe conditions, must conform to the requirements of **The Health** and Safety (Safety Signs & Signals) Regulations 1996.

4.6 **Operational Safety Standards (OSS)**

JNB, as part of its ongoing commitment to improve QES performance and to ensure the safety of everyone involved on our projects, has developed a series of Operational Safety Standards.

Operational Safety Standards concisely set out key safety processes, conditions and behaviours expected for a series of tasks. Adherence to the standards will help to ensure worker safety on JNB sites.. Copies of Operational Safety Standards are appended to this document.

We have produced a pocket sized A6 booklet of the key requirements of the operational standards to assist site supervisors, If you require a copy for your foreman / lead hands for work on a JNB site please request a copy from our site supervisor

Compliance with these standards is a mandatory requirement for everyone involved in a JNB Project unless an equivalent, auditable standard is presented to and approved by the JNB site superviser prior to works commencing.

4.7 Work in Confined Spaces

Requirements are detailed in OSS 108 Safe Working in Confined Spaces in Appendix A.

4.8 **Cartridge Operated Fixing Tools**

Suppliers who intend using cartridge operated fixing tools must produce a Risk Assessment and Method Statement for using such equipment.

The RA/MS shall detail:

- Authorised users including details of training
- Storage arrangements for machines and cartridges
- Control measures for issue and return of equipment
- Limitations on the type of work undertaken
- Safety precautions required during use
- Use of appropriate PPE.

Authorised persons must be properly trained in the safe use of the equipment. No persons under the age of 18 shall be permitted to use cartridge operated tools.

Miss-fires, penetration through the fixing material or all other incidents/near misses must be reported to JNB Ltd.

Additional general requirements are detailed Operational Safety Standard OSS 106 Safe Use of Plant & Equipment(PUWER) in Appendix A

4.9 **Overhead, Mobile, Crawler & Tower Cranes**

Requirements are detailed in OSS 102 Lifting Operations Using Cranes and Excavators in Appendix A.

4.10 Lifting Accessories & Manually Operated Lifting Equipment

Requirements are detailed in OSS 102 Lifting Operations Using Cranes and Excavators and OSS

4.11 **Demolition/Dismantling**

Suppliers employed to undertake demolition/dismantling work, must:

- Prior to commencing obtain authorisation from a representative of JNB Ltd.
- Plan the activity in such a manner as to prevent danger or, where not practicable to prevent it, to reduce danger to as low a level as is reasonably practicable.
- Prepare a detailed Risk Assessment/Method Statement and a written record of the process of demolition or dismantling before work begins. Ref: Construction (Design and Management) Regulations 2015. (CDM)
- Ensure the methodology with associated risk controls are communicated to those undertaking the activity
- Ensure the activity is supervised to ensure the methodology and risk/hazard controls are implemented and are suitable and sufficient.

Particular attention should be given to ensuring that:

- 'Live' services in the area have been isolated and made safe
- Suitable and sufficient warning notices and barriers have been erected
- Unintended collapse is eliminated by installing adequate temporary support, shoring etc
- Emission of dust/fume is adequately controlled
- Safe access and working positions are provided for all personnel involved in the work
- The danger of injury to other personnel or damage to plant or equipment is minimised

4.12 Electricity

Requirements are detailed in OSS 103 Working on or Connecting to live electrical systems and OSS 106 Safe Use of Plant and Equipment (PUWER) Appendix A

4.13 Excavations & Openings

Requirements are detailed in OSS 101 Excavations/Breaking ground in Appendix A

4.14 Fire Prevention

Requirements are detailed in OSS 116 Fire Safety Appendix A

4.15 Welfare Facilities

Supplier shall provide all necessary first aid facilities as required by the **Health and Safety (First Aid) Regulations 1981.**

Welfare facilities that comply with the requirements of Schedule 2 of the **Construction (Design and Management) Regulations 2015** will generally be provided on site by JNB and made available for use by The Supplier.

Where JNB's facilities are shared by the supplier, the supplier must assist with keeping these facilities clean and tidy. If it is felt that supplier personnel are not respecting the facilities provided, JNB reserves the right to withdraw use of facilities and will require the supplier to provide its own welfare facilities at the supplier's expense.

If JNB are not providing welfare facilities for the use of the supplier, JNB will advise the supplier within the terms of the order. In this case, the supplier must make his own provisions and ensure that suitable facilities are available on site for the duration of thesupplier's works.

4.16 Forklift Trucks

Requirements are detailed in OSS 106 Safe Use of Plant and Equipment in Appendix A.

4.17 Scaffolding

Requirements are detailed in OSS 104 Management of Scaffold in Appendix A.

4.18 Working at Heights

Requirements are detailed in OSS 109 Safe Use of Working at Height Equipment and OSS 104 Management of Scaffold in Appendix A.

4.19 Housekeeping & Removal of Materials

The supplier is responsible for ensuring high standards of housekeeping during all work activities and must keep their work areas tidy and not allow rubbish or scrap to accumulate. If a storage area is required, an approach should be made to JNB so that any request can be considered and, where appropriate, an area allocated for this purpose.

Waste of a hazardous nature must be disposed of in accordance with statutory requirements and is the responsibility of the supplier.

Flammable rubbish must be disposed of properly at the end of each shift, or more regularly if necessary.

Spillage control procedures are to be developed as necessary and the need to maintain a safe and tidy work area is to be included in all site inductions. Consideration to Source, Pathway, Receptor information shall be given to prevent spilled matrials reaching any watercourse or drainage on site

The spillage of diesel or other such substance and the subsequent clean up methodology shall be notified to the JNB site superviser as soon as possible. In the event of any substance entering a watercourse or drain the Environment Agency and/or the local Water Company shall be informed. Any contact with these agencies shall only be made by JNB Ltd authorised representatives.

4.20 Machinery Guarding

Requirements are detailed in OSS 106 Safe use of Plant and Equipment in Appendix A.

4.21 Noise and Vibration

Noise - Excessive noise is recognised as a major factor in work induced hearing loss. Suppliers are required to ensure that where noise exposure has the potential to reach levels detailed in the Control of Noise at Work Regulations (2005) suitable and sufficient measures are in place to prevent harm to all persons likely to be affected .

Hearing protection zones must be clearly identified and suppliers must ensure that their employees are provided with, and use, suitable hearing protection when working in these zones.

Where suppliers bring plant or machinery on to JNB's premises they must ensure that noise levels produced are <u>as low as is reasonably practicable</u> and that all requirements of the **Control of Noise at Work Regulations 2005** are met.

Suppliers must advise JNB if they anticipate excessive noise levels from their operations so that all reasonably practicable precautions can be taken to protect persons who may be affected. Necessary action to implement all aspects of The Control of Noise at Work Regulations 2005 must be made.

Vibration - Suppliers must ensure that any handheld plant or equipment used on a JNB site is supplied with accurate information relating to the vibration outputs of the equipment. When completing RA/MS for work involving such equipment they shall ensure that assessments are made and recorded to ensure that workers are not exposed to levels of vibration likely to cause harm and that the duration such activities are monitored for compliance

Suppliers are to ensure compliance with the requirements laid out in the **Control of Vibration at Work Regulations 2005.**

Suppliers are to ensure that any mobile plant used on JN Bentley sites has accurate manufacturer supplied information relating to vibration outputs that ensures the daily Exposure Limit Value (ELV) of 1.15m/s2 is not exceeded. When completing RA/MS for work involving mobile plant the supplier shall ensure that assessments are made and recorded to ensure that workers are not exposed to levels of vibration likely to cause harm including reference to control measures such as but not restricted to:

- Ensure seat is adjusted to suit the driver.
- Only use haul roads that are maintained in good order
- Review, and reduce where possible, the length of time machines need to be operated
- Ensure drivers spend time out of the machine at break times etc
- Ensure the vehicles are maintained in good order and serviced regularly
- Ensure tyres, where applicable, are not worn and are at the correct pressure

4.22 Permits to Work

Requirements are detailed in OSS 004 Preparation and Issue of Permits to Work in Appendix A.

4.23 Personnel Carriers

When the carriage of personnel by crane or other access equipment i.e. cherry-pickers is required, the personnel carrier must be suitably tested and have a current test certificate/ certificate of conformity. All lifting accessories must have current certification which shall be immediately available. Further requirements for the use of Mobile Elevating Work Platforms (MEWPs) etc are included in OSS 109 Safe Use of Working at Height Equipment and for man-riding operations are included in OSS102 Lifting Operations using Cranes and Excavators.

All cranes or other access equipment used for carrying personnel <u>must be</u> provided with a dead man's handle facility to ensure that the brake is applied when the control lever is released. Crane hooks must be fitted with safety catches or equivalent.

At <u>no time</u> should the crane or other access equipment be allowed to be used in a free fall situation. Cranes must have power lowering capabilities for carrying personnel.

Limit devices <u>must be</u> fitted to the cranes or other access equipment to ensure that the carrier cannot be raised above the over hoist limit of the equipment.

Excavators must not be used for man-riding operations

4.24 Safety Harnesses

When working at height where it is not practicable to provide a standard working platform and where additional collective control measures are not practicable, safety harnesses <u>must be</u> worn. When working on open steel or erecting/dismantling scaffolding above the first lift, a securely attached harness <u>must be</u> worn where uncontrolled fall from height hazards exist.

Safety harnesses must be worn by operatives working from boom lift type MEWPS.

Safety harnesses must meet the appropriate British Standard and be properly maintained and regularly inspected in line with the requirements of 367.

4.25 Transport

Suppliers <u>must not</u> bring vehicles on to company premises unless they are roadworthy and conform to current legal requirements. Vehicles required for travel on public access roads must comply with the standards detailed under the Road Traffic Act 1991.

Loads <u>shall</u> be within the safe weight limit for the vehicle and should not project beyond the vehicle body in such a manner as to present a hazard to other vehicles, pedestrians, or adjacent structures.

Personnel <u>must not</u> get on or off any vehicle whilst it is in motion.

When reversing on site all vehicles must operate an audible warning device and be under the control of a banksman.

4.26 Supplier Plant & Equipment

Suppliers will ensure that all plant and equipment used on JNB's premises or work sites are safe to use and maintained to an acceptable standard.

All necessary test and examination certificates must be available for inspection at all times and shall be retained in line with statutory requirements.

All mobile plant, as defined in OSS 106, shall have daily pre-use inspections in line with manufacturers' instructions, records of which shall be given to the JNB site manager on a weekly basis.

Suppliers shall carry out pre-use checks on all equipment

In addition, for equipment such as chainsaws, cut off saws, road saws, rip saws, reciprocating saws, Hilti guns, grabs, ladders and any other item of workplace equipment likely to cause major injury or worse shall be inspected weekly. Records of weekly inspection shall be given to the JNB site manager on a weekly basis.

Suppliers may provide their own records of daily and weekly inspection, if the JNB site manager deems they are suitable/equivalent to the JNB inspection templates included in Appendix D. If the supplier's records of inspections are not deemed equivalent the supplier shall provide records using the JNB format.

The use of 9-inch (and larger) grinders on JNB sites is prohibited without express authorisation, in writing, by either a JNB Director or a JNB Operations Manager, prior to the task commencing.

Further requirements relating to PUWER are detailed in OSS 106 Safe Use of Plant and Equipment (PUWER) (see Appendix A)

4.27 Use of Gas & Oxygen Equipment

Where suppliers bring their own equipment onto JNB's premises, such equipment <u>must</u> comply with relevant statutory requirements and/or British Standards.

The equipment used by suppliers <u>must</u> be properly maintained and be available for inspection by JNB before work commences, and at reasonable intervals during the work. Suppliers must comply with OSS106 and manufacturer's instructions and relevant training. All hose connections must be permanently attached i.e. ferrules. Jubilee clips are not acceptable means of securing hoses.

Storage

- Gas cylinders should not be stored for excessive periods of time. Only purchase sufficient quantities of gas to cover short-term needs
- Rotate stocks of gas cylinders to ensure first in is first used
- Store gas cylinders in a dry, safe place on a flat surface in the open air. If this is not reasonably
 practicable, store in an adequately ventilated building or part of a building specifically reserved for
 this purpose
- Gas cylinders containing flammable gas should not be stored in part of a building used for other purposes
- Protect gas cylinders from external heat sources that may adversely affect their mechanical integrity
- Gas cylinders should be stored away from sources of ignition and other flammable materials
- Avoid storing gas cylinders so that they stand or lie in water
- Ensure the valve is kept shut on empty cylinders to prevent contaminants getting in
- Store gas cylinders securely when they are not in use. They should be properly restrained, unless designed to be freestanding
- Gas cylinders must be clearly marked to show what they contain and the hazards associated with their contents
- Store cylinders where they are not vulnerable to hazards caused by impact, eg from vehicles such as fork-lift trucks, plant etc

Gas cylinders can also be stored on gas bottle trolleys specifically designed for that purpose, usually secured by a chain. These trollies (complete with gas bottles, shall be returned to the gas storage area when not in use.

Before constructing a temporary gas compound or using an existing gas storage area, suppliers must obtain authorisation from JNB.

Oxygen and fuel gas cylinders shall be kept separate Cylinders must never be stored, nor used, in a horizontal position

All gas cylinders must be handled with care and they <u>must not</u> be misused or abused. They <u>must</u> <u>be</u> properly shut off when not in use.

Great care must be taken to ensure that gas equipment, including hoses, is not allowed to cause obstruction of roadways, walkways, manholes, ladders, or other means of access where they can cause tripping hazards or be damaged. Hoses not in use should be coiled up and put in a safe place to minimise damage or harm.

Where any operation involves the use of gas or oxygen equipment in a confined space, a Permit to Work procedure must be in place. All requirements of The **Confined Spaces Regulations 1997** and OSS 108 shall be followed.

During meal breaks and at stopping times, hoses and equipment must be removed from confined spaces. Oxygen or gas cylinders must not be taken into confined spaces for use or storage.

At the end of each working day a safe procedure for turning off and disconnecting gas and oxygen supplies must be followed.

4.28 **Control of Substances Hazardous to Health**

Requirements are detailed in OSS 113 Managing & Using Hazardous Substances. Where close fitting respiratory protective equipment (RPE) is required evidence of current and mask specific face fit testing must be provided.

4.29 Asbestos

Where any work involves the handling of asbestos, suppliers must conform to the requirements of the **Control of Asbestos at Work Regulations 2012** and the relevant Code of Practice – L143. Asbestos removal will only be undertaken by suppliers licensed for the purpose as required by the **Regulations.** Suppliers must provide, on request, copies of licence for work with asbestos insulation or asbestos coating issued by the Health and Safety Executive and any conditions attached to that license.

Before any asbestos is removed, suppliers must ensure that appropriate sampling and analysis of asbestos fibres is carried out by a suitably qualified analyst's report, sub-suppliers must then make an assessment of asbestos exposure and agree a safe system of work with JNB's site representative before works commence.

4.30 Drugs & Alcohol Policy

JNB regards health and safety as a core business value. As such, the effective management of drug and alcohol abuse is an integral part of these values.

Any worker who is reasonably suspected of being under the influence of drugs or alcohol must leave site immediately and will be suspended from working on our sites until they can prove they are fit for work again.

As part of JNB Ltd's Drugs and Alcohol Policy (copy available on request) there is potential that random testing will be carried out on any persons on our sites. If a site is selected where your employees are working they *will* be required to undergo the test in accordance with our policy and results will be provided to you.

Any worker who tests positive will be requested to leave site immediately and will not be allowed to work on a JNB site until further testing has been completed. JNB reserves the right to permanently exclude persons who either test positive for drugs or alcohol or refuse to submit to drug & alcohol testing when required, from JNB sites.

Any worker who refuses to have a test taken will be suspended from work immediately and must leave site.

Drug and alcohol tests will be carried by an independent body by urine samples or as a breath test using an Alcometer (etc) as applicable.

4.31 Avoidance of Overhead and Underground Services

Requirements are detailed in OSS 111 Avoidance of Services.

4.32 Water

Water for suppliers, unless otherwise stated, will be provided free of charge at the nearest available stand pipe. Suppliers must make suitable arrangements for the onward conveyance of such water.

4.33 Temporary Works

Guidance on supplier responsibilities with respect to temporary works is provided in Appendix E

5.0 Operational Controls

5.0 Manual Handling

Lifting shall be mechanised so far as is reasonably practicable. The supplier shall undertake manual handling assessments and provide appropriate training. Materials and consumables shall be packaged / decanted etc. to facilitate ease of handling.

Where significant manual handling operations have been identified the site supervisor shall ensure that a suitable and sufficient assessment of risk is carried out prior to the operation being undertaken.

Manual handling assessments take into consideration the task, the load, the individual, the environment, and any other factors, which may affect safe lifting and carrying (for example the use of personal protective equipment).

Assessments must be reviewed when there is a significant change in:

- The activity or process
- The working environment
- The number of personnel available and/or the physical ability of personnel to manually handle loads
- The nature of the load(s) to be handled

Reassessment may also be required where near miss/incident/absence statistics show that the original control measures are/were not sufficiently effective.

The supplier will ensure that operations reduce the risks from manual handling so far as is reasonably practicable. The general hierarchy of control measures to achieve this includes:

- Elimination of the need for lifting, (e.g. delivery company to off load/deliver to place of use/storage, use of fork lift/crane to move the load, etc
- Provision of automated or mechanical aids such as trolleys, chutes, and purpose designed lifters
- Changing the layout of the job to reduce the distances loads are carried
- Reducing the number of times, a job has to be done
- Manual handling technique training provided to employees carrying out manual handling activities, with suitable PPE used.

5.1 Hot Work

A permit to work system (as detailed in OSS 004 Preparation and Issue of Permits to Work) must be adopted where hot work generating heat, sparks or flame have the potential to cause a fire. The precautions to be taken and reflected in the permit shall include:

- Before starting work, ensure the surrounding area is cleared of all moveable combustible materials
- Where work takes place by a wall or partition check the other side for combustible materials
- Protect combustible materials that cannot be removed
- Have suitable extinguishers at hand
- Check work area during work and at least one hour after work has finished
- Restrict hot working times so that all hot work is finished by a safe period before the end of the day
- The wearing of Flame Retardant clothing by all persons undertaking or in the immediate vicinity of hot works operations.

5.2 Emergency Procedures

A clear and unambiguous emergency plan shall be developed and communicated to all persons on site regardless of the nature and duration of the work they are undertaking. The emergency plan shall include in addition to relevant points above:

- The location of the assembly points
- The appointed fire marshal
- The means for ensuring roll calls are carried out
- The means of communicating with emergency services and liaising with them on site
- The means of communication and co-operation between the supplier and other building occupants in the event of an emergency

Written emergency procedures must be displayed in prominent locations and brought to the attention of all persons working on or visiting that site.

6.0 Checking and Corrective Action

6.1 **QES Site Inspection and Monitoring**

JNB regularly completes inspections of all projects to ensure continued improvement in performance. The Supplier shall co-operate fully with the visits and shall rectify any issues raised in a timely manner as required by the site superviser

6.2 Reporting of Health and Safety Incidents (injuries and near misses), instances of occupational ill health, dangerous occurrences (Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 2013 RIDDOR) and damage only incidents

All incidents whether Health Safety Environmental or Damage related must be reported to the Site superviser directly or by an equivalent means at the earliest available opportunity. Information and lessons learned from incident investigations must be communicated to the JNB project team and shared with the operatives involved.



J N Bentley Ltd

Operational Safety Standards (OSS) Requirements for Suppliers

(Requirements for Suppliers Rev L - Appendix A)

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Operational Safety Standard 001 Compliance with Site and Golden Rules

Revision:	D	Date of Last Review:	01.10.2017	In Force From:	01.03.2008	Page:	1 of 1			
0	Ger	neral				-	_			
0.1		Any deviation from this standard must be approved in writing on the company standard Permit to								
	Dev	viate form (BIMS 02-04.) nmencing. A copy of the	14) by an Operat	ions Manager or Dir	ector prior to the	activity or				
0.2	This	s standard must be read	in conjunction v	vith any relevant clie	ent-specific require	ements.				
1.0	Pro	Processes and Records								
1.1	Any	one working on site sha	II be reminded o	f Site Rules and Gol	lden Rules as part	t of site inc	duction.			
1.2		Site Rules and Golden Rules shall be displayed in all mess facilities (or inside vans for transient working).								
1.3	Site	e Rules shall be extende	d to incorporate	additional project o	r client specific re	quirement	ts.			
1.4	rec	/ JN Bentley employee w orded as an unsafe act. incident.								
1.5	reg	Site Rules and Golden Rules shall be communicated to all subcontractor(s) and supplier(s) on a regular basis (at least annually) and compliance with these rules is a condition of any orders placed. Site/client-specific requirements will be communicated on a project by project basis as appropriate.								
1.6		Any subcontractor breaking the Golden Rules should expect to be challenged. Where there is no good reason or a poor attitude is displayed, individuals shall be asked to leave site.								
1.7	site	ner supplier(s) (including e. Other supplier(s) brea od reason or a poor attit	king the Golden	Rules should expect	to be challenged.	Where th				
2.0	Cor	nditions								
2.1	Site	es shall be planned with	consideration of	the requirements of	f both Site Rules	and Golde	n Rules.			
					CHARLES AND AND A	-				

2.1	Sites shall be planned with consideration of the requirements of both Site Rules and Golden Rules.
2.2	Site conditions must not hinder the implementation of either Site Rules or Golden Rules.
2.3	Where it is expected that foreign workers will be employed on projects, translated versions of the Site Rules and Golden Rules shall be provided.

3.0	Behaviours
3.1	Everyone must comply with the Site Rules and Golden Rules at all times.
3.2	Workers shall challenge co-workers where they are not complying immediately and record a near miss.
3.3	Individuals shall accept challenge relating to Site Rules and Golden Rules.



Preparation, Communication and Use of Risk Assessments and Method Statements (RA/MS)

Revision:	C	Date of Last Review:	01.10.2017	In Force From:	01.04.2008	Page:	1 of 2
			_				
0	Ger	teral					
0.1	Dev	deviation from this stand iate form (BIMS 02-04.1 imencing. A copy of the s	4) by an Operat	ions Manager or D	irector prior to th	e activity or	
0.2	This	standard must be read	in conjunction w	vith any relevant c	lient-specific requ	irements.	
1.0	Pro	cesses and Records					
1.1		ore a project commence uded in the Contract Ma			e considered and	scheduled	with a list
1.2		list of activities shall be any event at 4 weekly inte			es, where significa	ant change:	s occur and
1.3	cur	For the activities included in the list above, risk assessments (RA) must be prepared using the current company Risk Assessment/Method Statement Template (BIMS 02-04.3), held in the document library.					
1.4	Where the risk assessment identifies the need for a method statement (MS) this must be prepared using the company Risk Assessment/Method Statement Template (BIMS 02-04.3 - the latest version shall be stored in the document library), or by approved supplier as applicable.						
1.5		sonnel shall only prepare ability. Where the activity				heir experie	nce and
1.6		must identify initial and r est level practicable.	esidual risk leve	els with the aim of	f reducing the resi	dual risk le	vel to the
1.7	act to t ope not loca	must consider in detail, I ivities. When developing he Management Risk Ass erations (It should be not exhaustive. Any project-s ation(s) of where the wor rks commencing).	risk assessmen sessments whic ed that the risks specific risks mo	ts and method sta h identify generic i identified within ust be identified b	tements (RA/MS) risks common to the Management y (at the very leas), the autho the compar Risk Asses t), visiting t	r shall refe ny's sments are he
1.8		MS must be prepared ta potential conflicts with a					
1.9	ske	ntrol measures must forn tches as appropriate in s trol measures must be c	equence and in	detail. Where a M	IS is not required		
1.10		MS must be prepared for nd, client or supplier, as a		ation with other in	terested parties, e	e.g. Forema	n, Lead
1.11	RA	MS must be prepared in	GOOD TIME, an	d at least 3 days	before the work a	ctivity com	mences



Preparation, Communication and Use of Risk Assessments and Method Statements (RA/MS)

Revision:	C	Date of Last Review:	01.10.2017	In Force From:	01.04.2008	Page:	2 of 2
1.12	be	shall be discussed with communicated before w cussion/communication	ork commences			d the final v	ersion sha
1.13		/MS from third parties m mmences.	ust be reviewed	and accepted by	the Site Supervise	or before the	e task
1.14	For	view of the third party RA rm (BIMS 02-04.7) or the plicable (BIMS 02-04.8).					
1.15	act	'live' RA/MS shall be revi tivity / task. Changes sha ord of the review shall be	II be discussed	and communicatio			
1.16	Wh	ere required, communica	ation will consid	er workers for who	m English is not t	their first la	nguage.
1.17	pla will	/MS associated with mal nt/vehicles on site shall I be carried by the suppli- juested.	be managed by	the JN Bentley Pla	nt Department. A	A copy of the	e RA/MS

2.0	Conditions
2.1	All current RA/MS must be displayed in the welfare unit or work area so they are available to the Operatives carrying out the task.

3.0	Behaviours
3.1	A Site Supervisor shall not allow Operative(s) to undertake activities unless the required control measures have been effectively communicated and implemented.
3.2	Operative(s) shall not undertake activities unless control measures, including MS have been communicated to them.
3.3	Operative(s) shall challenge control measures including the content of the MS where they are unsure or can suggest a safer way of undertaking an activity/task.
3.4	Operative(s) shall follow control measures listed in risk assessments.
3.5	When undertaking an activity, if anything occurs that might affect working methods (e.g. changes in weather, ground conditions, light, adjacent activities, uncharted services etc.), Operative(s) shall stop work and notify the Site Supervisor.



Incident Reporting and Investigation

Revision:	C	Date of Last Review:	01.10.2017	In Force From:	01.08.2008	Page:	1 of 4		
0	General								
0.1	Any deviation from this Standard must be approved in writing on the company standard Permit to Deviate form (BIMS 02-04.14) by an Operations Manager or Director prior to the activity or process commencing. A copy of the signed form shall be sent to QES.								
0.2	This standard should be read in conjunction with BIMS 03-01 Occupational Health, Safety & Environmental Incident Reporting and Investigation and its appendices and associated forms, BIMS 03-03 Alerts, client-specific incident reporting and investigation procedures.								

1.0	Processes and Records
11	Fatal/Likely Fatal Injury - Major Incident Investigation: Refer to Appendix C BIMS 03-01
	Treat the casualty if safe to do so.
	Initiate emergency response plan, contacting appropriate emergency responders.
	Suspend site activity.
	Assess parties involved for alcohol/drug related impairment (contact HR as appropriate).
	Secure the area of the incident and prevent third party access.
	Inform Operations Manager/Operations Director, Engineering Director and QES Manager by phone
	Operations Director to inform Board and initiate N.O.K. contact.
	Initiate a record of timings of events and contacts made and received.
	The Operations Director (or delegate) will contact the client and inform them of the incident.
	Record names of all witnesses and persons otherwise involved.
	Segregate witnesses.
	Any press or third party contact to be referred to Operations Director/Engineering Director.
	Operations Director to appoint Investigation Team.
	Operations Director (or delegate) ONLY may authorise site restart.
	QES Manager/Engineering Director will notify the HSE.
	Director led incident investigation commences - same day (see BIMS 03-01 Appendix A).
	Within 7 days: initial investigation findings reviewed.
	Within 14 days: Action plan established.
	Within 28 days: Action plan reviewed and signed off by Health & Safety Steering Group.
	Within 6 months: All actions implemented and compliance review undertaken.



Operational Safety Standard 003 Incident Reporting and Investigation

Revision:	C	Date of Last Review:	01.10.2017	In Force From:	01.08.2008	Page:	2 of 4		
14	RIDDOR/Likely RIDDOR Incident - Full Investigation: Refer to Appendix A BIMS 03-01								
	Treat the casualty if safe to do so.								
-	Initiate emergency response plan, contacting emergency responders as appropriate.								
	Suspend activity in affected area.								
	Assess parties involved for alcohol/drug related impairment (contact HR as appropriate).								
-	Secure the area of the incident and prevent third party access.								
	Site Supervisor to inform Contracts Manager/Operations Manager and QES Manager by phone.								
	Operations Manager to inform Operations Director.								
	Initiate a record of timings of events and contacts made and received.								
	The Operations Manager (or delegate) will contact the client and inform them of the incident.								
	Record names of all witnesses and persons otherwise involved.								
	Operations Manager to appoint Investigation Team.								
	QES Manager (or delegate) will inform the HSE.								
	Operations Manager led incident investigation commences - within 24hr of the incident.								
	Operations Manager or (delegate) to complete the Incident Report and Investigation Form (BIMS 03- 01.1).								
	Operations Manager to issue completed Incident Report and Investigation Form to Health & Safety Steering Group and QES Manager within 14 days of the incident.								
	Operations/Engineering Director to sign off incident report and investigation form within 28 days.								
	Operations Manager to ensure timely close out of actions.								
	Medical Treatment/Lost Time Injury/Serious Near Miss - Root Cause Investigation: Relat to Appandix & BIMS 03-01								
_	Tre	at the casualty if safe to	do so.						
	Fac	ilitate additional treatm	ent as required	i.					
	Ass	ess parties involved for	alcohol/drug r	elated impairment	(contact HR as ap	propriate).			
	Pho	tograph area of inciden	t before restart	ting work.	100				
	Site	Supervisor to inform C	ontract Manage	er and QES Advisor	1				
1	Cor	tracts Manager to atter	d site and take	e statements from	relevant parties.				
	Ele	ctronic incident report to	be generated	same day.					
		owing consultation with erations Manager or Dire					he		



Operational Safety Standard 003 Incident Reporting and Investigation

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-	0.	atenate Manadasta bald		lucia ta dataraniza	immediate (unde	duind and w			
	Contracts Manager to hold root cause analysis to determine immediate/underlying and root cause								
_	Contracts Manager to report findings of root cause analysis to QES within 7 days of the incident.								
_	Incident report to be finalised and closed out by Contracts Manager within 28 days.								
	Contracts Manager to ensure timely close out of actions.								
1.4	First Aid Injury - Standard Investigation: Refer to Appendix & BIMS 03-01								
	Treat the casualty.								
	Site Supervisor to complete the electronic incident report form by the end of the following day.								
b	Site Supervisor to close out the report with action taken to prevent re-occurrence within 28 days.								
	Contracts Manager to report findings of root cause analysis to QES within 7 days of the incident.								
	Inc	ident report to be finalis	ed and closed	out by Contracts M	anager within 28	days.			
	Contracts Manager to ensure timely close out of actions.								

2.0	Records and Conditions
2.1	RIDDOR reportable incidents – An electronic incident report shall be generated with containing basic information. In addition, all associated documents will be stored in dedicated folder access to which will be restricted to the QES Manager, Operations Managers and Directors.
2.2	Non-reportable incidents - an electronic incident report shall be generated containing information relevant to the level of investigation required.
2.3	Incident records shall comply with the Data Protection Act to ensure confidentiality of information.
2.4	As a minimum incident reports shall contain: Date, time and place of the incident. Name and role of injured person (as applicable). Details of the injury/illness* and what first aid was given (as applicable). What happened to the person immediately afterwards. The name of the First Aider. The action(s) taken to prevent re-occurrence. * In addition, for reportable disease the following information is required: Date of diagnosis of the disease. Name or nature of the disease. Date on which the disease was reported to the enforcing authority. The method by which the disease was reported.
2.5	Site Supervisors will have the following immediately available to facilitate incident response: Means of providing first aid. A camera or means to take photographs. Witness statement proformas. An emergency/injury response plan. Access to BIMS 03-01 and associated forms.



Incident Reporting and Investigation

Revision:	C	Date of Last Review:	01.10.2017	In Force From:	01.08.2008	Page:	4 of 4
3.0	Behaviours						
3.1	All persons shall report incidents immediately.						
3.2	All persons shall co-operate with incident investigations.						
3.3	Site Supervisors shall discuss incidents and learnings with their teams with a focus on causes and actions to prevent re-occurrence.						

OSS 003: Incident Reporting and Investigation



Preparation and Issue of Permits to Work

Revision:	C	Date of Last Review:	01.10.2017	In Force From:	01.06.2009	Page:	1 of 2		
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			the state of the state	1.0		1.1.7			
0.1	Any deviation from this standard must be approved in writing on the company standard Permit to Deviate form (BIMS 02-04.14) by an Operations Manager or Director prior to the activity or process commencing. A copy of the signed form shall be sent to QES and retained on site.								
0.2	Thi	s standard must be read	in conjunction v	vith any relevant c	lient-specific requi	rements.			
0.3	A Permit to Work is a document that is used as a control measure for certain hazardous activities. The Permit to Work document provides a checklist to ensure that controls are in place before the activity commences (Permits to Work do not replace risk assessments or method statements).								
1.0	Pr	ocesses and Records							
1.1	ha	 Permits to Work shall be used as a control measure where activities involve the following types of hazardous task: Confined space entry. Excavations (refer to OSS 101 Excavations/Breaking Ground). Hot work (gas welding/cutting, electric arc welding, brazing, gas soldering, flat roofing using tar boilers etc.). Work on live electrical installations. Work within 6m of HV overhead services. NB: Permits to Work may be used as a control measure for other activities (e.g. work on fragile roofs). 							
1.2	Pe	rmits to Work may also b	e required from	third parties (e.g.	statutory undertak	ers) or clien	ts.		
1.3	The requirement for Permits to Work shall be identified at the Contract Review, set out in the Contract Management Plan and reviewed regularly. Permits shall be listed in relevant risk assessments and method statements as a control measure.								
1.4	Permits to Work shall be prepared using the company standard templates (the latest versions of which shall be stored in the document library) unless an alternative format is specified by the client. Electrical permits will be in the current format specified in BIMS 02-16.								
1.5		The requirement for Permits to Work shall be briefed to Operative(s) during the site induction and as part of the daily briefing.							
1.6	eit Su pe	Permits to work shall be issued by the Site Manager, Foreman or other delegated person who holds either the 5 day Site Management Safety Training Scheme (SMSTS) certificate or the 2 day Site Supervisor Safety Training Scheme (SSSTS) certificate. Permit to Work issuers shall be named on the permit register, however, electrical permits can only be issued by those authorised under BIMS 02- 16.							
1.7		or to commencement of a ccepted by the issuer and	1	H					
1.8	The	e Permit to Work issuer a	nd recipient sha	all not be the same	e person.				
1.9	Permits to Work for confined space entry and hot work shall remain open for the duration of the activity, but no longer than a working shift, and shall clearly state start and completion times.								

OSS 004: Preparation and Issue of Permits to Work



Operational Safety Standard 004 Preparation and Issue of Permits to Work

Revision:	C	Date of Last Review:	01,10,2017	In Force From:	01.06.2009	Page:	2 of 2
1.10	du	th the exception of electr ration may be issued for start of works and shall b	an extended per	riod, but shall be re	eviewed at the star		
1.11	On completion of an activity requiring a Permit to Work, the permit shall be cleared/cancelled by the recipient and issuer.						
1.12	Where the supervisor for an activity requiring a Permit to Work changes, the original permit shall be cleared/cancelled and a new permit shall be issued to the new supervisor.						

2,0	Conditions
2.1	The original permit must be issued to the supervisor of the task (the person overseeing the works at the work face) and remain in the control of the supervisor at the works' location for the duration of the works.
2.2	A copy of the permit is to be retained by the permit issuer for their own record keeping.
2.3	A second copy of all Permits to Work shall be kept in the site safety file.
2.4	Upon completion of the works, the closed original permit shall be handed back to the Site Manager by the Supervisor for filing in the site file.
2.5	All changes and amendments are to be made only on the original permit and no work shall be undertaken on the provision of a copy of a permit.

3.0	Behaviours
3.1	Where a Permit to Work System has been identified as required for a work activity, the Site Supervisor(s) shall not allow Operative(s) to undertake the activity unless a permit is in place and suitably understood by those undertaking the task.
3.2	Where a Permit to Work system is in use for a work activity, Operative(s) shall not carry out the activity until they have received, read and understood a permit signed by the authoriser and until all of the control measures listed on the permit, are in place.
3.3	Operative(s) shall challenge control measures included within the Permit to Work where they are unsure or can suggest a safer way of undertaking a work activity.
3.4	When undertaking an activity, Operative(s) shall stop work and notify the Site Manager or Supervisor or Electrical AP if anything occurs that may affect working methods or controls identified within the Permit to Work.

OSS 004: Preparation and Issue of Permits to Work



Operational Safety Standard 100 Site Establishment and

Maintenance

Revision:	D	Date of Last Review:	01.10.2017	In Force From:	01.09.2012	Page:	1 of 4		
0	Go	neral		_			_		
0.1	Any deviation from this standard must be approved in writing on the company standard Permit to Deviate form (BIMS 02-04.14) by an Operations Manager or Director prior to the activity or process commencing. A copy of the signed form shall be sent to QES and retained on site.								
0.2	This	s standard must be read i	n conjunction with	h any relevant client-	specific requirem	ents.			
1.0	Processes and Records								
1.1	Site set up requirements shall be established at the QES Review based on the nature of the proposed scheme and expected personnel. Consideration shall be given to the number of cabins required. Where reasonably practicable additional land should be sought to avoid the need to double-stack cabins. Should double-stacking be used then the loadings for the cabins and stairs shall be detailed in the temporary works schedule. Cabin suppliers shall prepare a lift plan which must be accepted by the Site Supervisor a minimum of 3 days prior to delivery.								
1.2	A risk assessment and method statement shall be developed for the site set up and maintenance which shall be briefed to all persons involved in the task. It shall be reviewed and where necessary updated and re-briefed for site maintenance purposes.								
1.3	Prior to project commencement a suitable plan must be produced depicting the site set up and welfare arrangements in relation to the proposed scheme, which shall be included in the Contract Management Plan (CMP).								
1.4	Vis	itors to sites shall be mad	le aware of the sit	te set up arrangemer	nts at the visitor's	inductio	n.		
1.5	Sig	ning in registers shall be	maintained to rec	ord visitors attending	g site.				
1.6	Re	cords shall be retained fo	r the duration of t	he project.			-		
1.7	The	e end of working day chec	k sheet shall be c	ompleted.					
1.8	Ar	ota system for maintenan	ce and cleaning o	f site welfare facilitie	s shall be establis	shed.	-		

nage.	
 table signage shall be erected to provide the following: Warning to members of the public. Display the Site Rules and Golden Rules. Pedestrian and traffic routes. Designated storage areas. Muster points, i.e. phone, fire assembly. CDM boundaries. F10. 	
	 Warning to members of the public. Display the Site Rules and Golden Rules. Pedestrian and traffic routes. Designated storage areas. Muster points, i.e. phone, fire assembly. CDM boundaries.

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		 'No Smoking' signage. List of 'Be Heard' representation and contact details. Communication of site hazards, e.g. excavations. Emergency information, i.e. address details and names of first aiders. 								
2.2	Pos	Posters shall be displayed in cabins in accordance with the JN Bentley Site Set Up Pack.								
2.3	Sig	nage shall be relevant and	d maintained in a	legible, clean and or	derly condition.					
-	Site Security									
2.4	The site boundary and compound areas shall be suitably fenced and secured. Fencing shall be erected and maintained in an orderly manner.									
2.5	Site is to be secured to avoid accidental/nefarious access by non-JN Bentley personnel; during the day, people are to close the gate behind them and on busier sites consideration given to the need for a gate person. Additional overnight security such as CCTV and guards to be considered in CMP in line with out of hours policy.									
	Weifare Sanitary Conveniences including Washing Facilities									
2.6	Suitable and sufficient sanitary conveniences shall be provided or made available at readily accessible places.									
2.7	Sanitary conveniences shall be maintained in a clean and orderly condition.									
2.8	Where practicable, male and female conveniences shall be provided separately. Shared facilities must be all lockable cubicles only (no urinals).									
2.9	Loc	kable showers with chang	ging facilities shal	l be provided if requi	red by risk assess	ment.				
2.10	Washing facilities shall be provided the vicinity of any changing/drying rooms.									
2.11	Washing facilities shall include:									
	 A supply of clean hot and cold, or warm water (which shall be running water so far as is reasonably practicable). Where water is hot enough to cause injury warning signage should be displayed. Soap or other suitable means of cleaning. Means to protect, cleanse and restore skin, including sun protection as required. Paper towels or other suitable means of drying. A bin for the disposal of waste paper towels. 									
2.12	Roo	oms containing washing fa		a second s	and lit.					
2.13	Wa	shing facilities and the ro	oms containing th	em shall be kept in a	clean and order	y conditi	on.			
	We	lfare - Drinking Water	1							
2.14	An adequate supply of drinking water (and cups etc.) shall be provided.									

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	-									
2.15		Water supplies in the welfare cabins/toilets shall be marked either with a 'Drinking Water' or 'Non Drinking Water' sign as applicable. Waste water from cabins shall be collected and suitably disposed of.								
-	We	Welfare - Changing Rooms								
2.16	Suitable and sufficient changing facilities shall be provided or made available at readily accessible places.									
2.17	 Changing rooms shall: Be provided with seating. Include, where necessary, facilities to enable a person to dry any such special clothing and their own clothing and personal effects. Ensure that dirty and clean areas are segregated. Ensure that dirty areas are accessible without first entering clean areas. 									
	Welfare - Messing Facilities									
2.18	Sui	table and sufficient mess	cabins shall be p	rovided or made ava	ilable at readily a	ccessible	places.			
2.19	 Welfare areas shall: Include a suitable smoking area a suitable distance away from non-smokers. Be equipped with an adequate number of tables and adequate seating with backs for the number of persons at work likely to use them at any one time. Include suitable arrangements to ensure that meals can be prepared and eaten. Include the means for boiling water. Include means to refrigerate food and drinks. Be maintained at an appropriate temperature. Be sufficiently ventilated and lit. 									
	Sto	/agp								
2.20	 Storage units shall be provided. They must: Be sufficiently secure. Contain racking, drip trays etc. to ensure that the contents can be stored safely. Contain hooks, storage bins etc. to ensure all lifting accessories can be stored correctly. Be suitably ventilated and lit. Include clearly identifiable quarantine areas, to ensure that defective/faulty products, materials and equipment are segregated to prevent use. Quarantine areas shall be clearly identified. 					s,				
2.21	Sto			ith safe access to ar igh frequency, low ris						

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2.22	Safe loading/unloading areas shall be established to provide gradients on which expected vehicles can operate safely.								
	Par	king/Traffic Routes							
2.23	Demarcation of sufficient parking and traffic routes shall be provided and where practicable one way systems shall be provided to minimise reversing.								
2.24	When reversing vehicles, requirement for turning areas and vehicle marshals shall be considered.								
2.25	Site plant parking shall be separate from vehicle parking.								
2.26	Parking areas and traffic routes shall be designed such that the risk of vehicle collision with pedestrians, other vehicles/plant, and other structures is minimised.								
2.27	Where required, suitable lighting shall be erected to pedestrian routes and parking areas.								
2.28	Parking areas and traffic routes shall be maintained in an orderly condition. Reverse parking shall be enforced.								
	Effective Communication								
2.29	A suitable area for site communications will be established to hold briefings.								
	Information shall be displayed in accordance with the JN Bentley Site Information Board and Company Information Poster. The site poster pack shall be displayed, when this is not practicable in must be made readily available.						cable it		
2.30	Information displayed shall be up to date and well maintained.								
-	Maintenance of Site and Facilities								
2.31	The	site and all welfare facili	ties shall be main	tained in a safe and	orderly condition.				

3.0	Behaviours
3.1	All persons shall assist in maintaining a high standard of site establishment, including following an established rota system as required. Issues must be reported and, if practicable, corrected immediately.
3.2	All persons shall use welfare facilities as intended.
3.3	The Site Supervisor, or delegate, shall check the site set up weekly, arrange maintenance as required and ensure that end of day and weekly checks etc. are carried out.

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Operational Safety Standard 100a Electricity Supplies for Site Welfare Facilities

Revision:	В	Date of Last Review:	01.10.2017	In Force From:	01.09.2012	Page:	1 of 2
0	General						
0.1	Any deviation from this standard must be approved in writing on the company standard Permit to Deviate form (BIMS 02-04.14) by an Operations Manager or Director prior to the activity or process commencing. A copy of the signed form shall be sent to QES.						
0.2	This standard must be read in conjunction with any relevant client-specific requirements.						
0.3	Wherever practicable semi-permanent electricity supplies for site welfare and storage facilities shall be provided via a connection to the District Network Operator (DNO) supply (either by new connection or connection to an existing supply on site).						

1.0	Processes and Records			
1.1	Electricity supply requirements shall be established as early as possible in the project and no later than at the pre-start QES Review, based on the size of the welfare set-up and the duration of the project.			
1.2	The layout plan for site welfare and storage facilities (reference OSS 100 1.3) shall indicate supply connection points, cable routes and where applicable the position of the generator.			
1.3	New connections to the DNO supply shall be completed by an electrical contractor from the company's approved supplier list, which is registered with either the NICEIC or ECA.			
1.4	Temporary generators shall be hired from an organisation from the company's approved supplier list that is registered with either the NICEIC or ECA, and shall be fitted with an on/off timer at the point of hire.			
1.5	The connection from the incoming supply or generator shall be made and tested by a trained and competent operative who holds suitable Electro-Technical Certification Scheme (ECS) or JIB accreditation (NB: this is not required for all-in-one units that have an integral generator).			
1.6	All cabins shall be electrically tested by the hire company annually. Records of the tests shall be provided by the hire company on delivery and the copies retained on site.			
1.7	For hire periods of less than 9 months, the unexpired period of test of the cabins shall be deemed to the hire period. Where the hire period is envisaged to be greater than 9 months, the temporary accommodation shall be provided with a full 12 month test.			
1.8	The electrical installer (competent operative) must issue a signed safety certificate to confirm that the electrical installation has been designed, constructed, inspected and tested in accordance with BS (the IEE Wiring Regulations) prior to energisation.			
1.9	Where multiple cabins and/or multiple phases from a 3-phase supply are used the electrical installer (competent operative), must prepare a single line diagram for the installation and leave a copy of this on site with the Site Manager.			
1.10	An earth loop impedance test shall be carried out on the socket circuit in each cabin every 3 months during the site Portable Appliance (PA) Testing. Records of the test shall be provided by the tester with copies retained on site. If the earth loop impedance test fails the Site Manager shall prevent use of the affected circuit, until a satisfactory earth has been re-established. The Site Manager shall notify the Plant Department of the failure.			
1.11	The Site Manager shall ensure that all Residual Current Devices (RCDs) are tested on a weekly basis, and shall maintain a record of these tests on the End of Day and Weekly QES Checksheet. Where an RCD fails to operate a warning notice saying 'RCD FAULT – DO NOT USE THE ELECTRICS IN THIS CABIN' shall be put in the affected cabin(s) until the fault has been rectified.			

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Electricity Supplies for Site Welfare Facilities

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1.12	An inspection of the whole installation shall be carried out by a competent operative at periods no greater than 12 months.								
	tha	n 12 months.							

The Site Manager shall prevent the use if any circuits which fail during the BS7671 tests.

2.0	Conditions			
2.1	The maximum impedance for the earth connection shall be 100 0hms (tested during installation by a competent person – refer 1.5, 1.6 and 1.8 above).			
2.2	The maximum earth loop impedance recorded on any power ring circuit in the welfare facilities shall be 1.44 Ohms (tested during PA Testing and the periodic test and inspection as applicable).			
2.3	All electrical cables associated with the supply to the site facilities shall be armoured and buried to a minimum depth of 600mm below ground and marked OR secured above ground in such a way as to prevent accidental damage and minimise the potential for malicious damage.			
2.4	Where an RCD fails to operate a warning notice saying 'RCD FAULT – D0 NOT USE THE ELECTRICS IN CABIN' shall be put in the affected cabin(s) until the fault has been rectified.			
2.5	Where a temporary generator > 10kVA is used, the generator shall be provided with an earth connection according to the following hierarchy:			
	 Earth connection to an existing earth in a building or to an existing structure (e.g. structural steelwork or metal water pipes). Earth connection to an earth mat buried to a minimum depth of 600mm below ground. Earth connection to an earth electrode (rod / spike) to a minimum depth of 1m below ground. 			
	Refer to separate JN Bentley tool box talk for the installation of earth mats and rods Temporary generators < 10kVA do not require an earth connection.			
2.6	Where an all-in-one cabin is used with an integral generator > 10kVA, the hirer shall supply and JN Bentley shall install an earth electrode (rod/spike) to a minimum depth of 1m below ground. There is no requirement to test the earth impedance on installation provided best endeavours have been used to follow the JN Bentley tool box talk for the installation of earth mats and rods.			
	Refer to separate JN Bentley tool box talk for the installation of earth mats and rods.			
2.7	All-in-one cabins with an integral generator < 10kVA do not require an earth electrode.			
2.8	The generator compartment shall NOT be used for storing ANY materials or PPE, unless designed to do so			
3.0	Behaviours			
3.1	Site electricity supplies shall not be used without appropriate test certification.			
3.2	No persons shall work on site electrical supplies unless suitably trained, competent and authorised.			

Excavations/ Breaking Ground

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0	Ge	neral	_				
0.1	Any deviation from this standard must be approved in writing on the company standard Permit to Deviate form (BIMS 02-04.14) by an Operations Manager or Director prior to the activity or process commencing. A copy of the signed form shall be sent to QES and retained on site.						
0.2	This	s standard must be read in	conjunction with a	ny relevant client-sp	pecific requirement	ents.	
0.3	 Fall prevention edge protection will be one of the following: A substantial barrier at the edge of an excavation capable of preventing a person or persons' unintended fall into an excavation. A physical demarcation barrier set back at a sufficient distance from the excavation such that a person falling against it would not fall into the excavation. 						
0.4	Con	initions: • TWS – Temporary Work • TWC – Temporary Work • TWD – Temporary Work • TWD – Temporary Work npetent Person – A person w s necessary to ensure safe of	ks Co-ordinator ks Designer ho can demonstrate		eoretical knowled	ige and ex	perience
0.5	05	s document should be read S 004 Preparation and Issu idance of Overhead and U	ue of Permits to Wo	rk, OSS 108 Confine			orks,

1,0	Processes and Records	
1.1	All excavations shall be designed and/or specified by a competent person (TWC and/or TWD) who shall be formally appointed to the scheme in the Contract Management Plan.	
1.2	The TWC shall clearly identify ALL excavations that fall into risk category 3 and 4 (BIMS 02-13 table 1) and those excavations that require design by calculation (BIMS 02-13 table 2).	
1.3	A risk assessment must be prepared for all excavations. Where necessary, and in all TW category 3 and 4, this shall be accompanied by a method statement that is briefed to all persons involved in the task.	
1.4	Copies of current service plans must be on site, with the Operatives, before excavation works commence. Plans must be at a sufficiently detailed scale and centred on the site.	
 Locations of all underground services must be spray marked on the ground, and suppler pegs, cones etc. indicating service locations, placed outside the excavation footprint, be commencing excavation works. 		
1.6	Owners of all overhead electric cables within the site area (or within 6m of the site boundary) must be contacted before site works commence. Any instructions shall be incorporated into task specific risk assessments and method statements (e.g. isolation of cables, goal posts etc.).	

Excavations/ Breaking Ground

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1.7	exc	k assessments shall speci avation is proposed, other acified by a competent per	wise a system of sh				
1.8	Ris	 k assessments shall consi The protection of pe material. The protection of pe from height or slip fa 	rsonnel inside an e rsons (including me				-
1.9	Ap	ermit system shall be impl	emented for all gro	und-breaking activit	ties. Refer to OS	SS 111.	
1.10	Risk assessments for excavations on traffic routes must consider segregation of the work area from traffic, including the deployment of, e.g. temporary vertical concrete barriers, water filled barriers, etc.						
1.11	The risk assessment shall detail any assumptions made in relation to ground conditions, ground water and surcharge.						
1.12	On	For all cases outlined in 1.1 above, the TWC must issue a 'Permit to Proceed' prior to first use. Once the initial Permit to Proceed has been issued, excavation inspection will be undertaken in accordance with sections 1.13 and 1.14.					
1.13	All excavations must be inspected by a competent person: prior to first use, at the start of every shif after any event likely to have affected the stability of the excavation or any part of it (e.g. changing weather conditions); and after any fall of rock, earth, or other material. These pre-use inspections shall be recorded in the 'General Comments' section of the site diary.					inging	
1.14	Sit	e Manager(s) must record	weekly Statutory In	spections of excava	tions.		
1.15		eet piling operations shall Installation and Extractio		dertaken in line with	JN Bentley guid	lance no	te 'Shee

2.0	Conditions
2.1	For TW category 3 and 4 excavations, the current 'For Construction' design information or justification including any phase diagrams or construction sequences shall be available on site prior to construction.
2.2	All excavations must be supported or profiled to the specified safe angle of repose before any persons can commence work in them.
2.3	Shoring systems must take account of permanent and temporary imposed loading conditions (e.g. loads imposed by storage of materials, traffic loads, adjacent buildings, hydraulics, snow etc.).
2.4	Materials, plant and equipment shall be stored at least 1.5m away from the edge of an excavation and such that they do not impose additional loading onto the excavation unless considered and controlled as part of initial design.

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Excavations/ Breaking Ground

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2.5	Wh	ere trench supports are us el.	ed, they must exter	nd a minimum of 15	0mm above the	adjacer	nt ground	
2.6	lf th	he access to a battered exc	avation is steeper	than 1:4, steps mus	st be provided.			
2.7	Acc	Access to shored excavations must be provided adopting the following hierarchy: Staircase; then Scaffolding with ladders; and lastly Tied ladders. 						
2.8	Vehicles and plant shall be kept away from excavations wherever possible so as not to surcharge th sides of the excavation or alter the work atmosphere with exhaust emissions. Highly visible baulks or barriers shall be fixed in position as stop-blocks where necessary.							
2.9	To prevent people falling into excavations, the minimum requirements for edge protection are as follows: (Hierarchy also applies to pre-existing slopes and cuttings where access adjacent to the edge is planned): Battered sides with a slope that is shallower than 1:4 - No edge protection required. Battered sides with a slope between 1:4 and 1:2 - Edge demarcation. Battered sides with a slope that is steeper than 1:2 - Fall prevention edge protection. Supported excavations up to a depth of 1m - Fall prevention edge protection. Supported excavations deeper than 1m - Fall prevention edge protection. Stepped excavations of depth > 1m such that falls are likely to result in injury should have suitable fall prevention edge protection installed. 							
2.10	In addition to edge protection all excavations > 1m deep shall, when unattended, be protected by anti-climb fencing to prevent access by unauthorised persons (e.g. Heras-type fencing double clippe or deer fencing, existing secure site boundary etc.).							
2.11	'De	ep Excavation' signs shall	be erected on all si	des of excavations (greater than 1m	depth.	S	
2.12	10	excavations deeper than 1 minutes prior to entry and omatically designate the e	continuously whilst	Operative(s) are wo	orking inside. N			
2.13	Gas monitors shall be bump tested prior to each day's use.							

3.0	Behaviours
3.1	All persons shall report any change noted in the key assumptions relating to ground conditions, ground water and surcharge loading (refer 1.11 above), to the TWC.
3.2	Personnel working to construct the excavation (including batters and/or shoring) must work in accordance with the RA/MS for that activity.

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Excavations/ Breaking Ground

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3.3		er personnel must not ent nplete and the TWC has, w				g is in pl	ace and
3.4	No persons shall enter or leave an excavation other than by the proper means of access/egress.						
3.5	No person shall enter a poorly ventilated excavation until the air quality has been tested and monitored.						
3.6	No person shall work on the 'exposed' side of edge protection unless wearing a harness and lanyard that is secured to a suitable anchorage point.						
3.7	No person shall, alter, modify or make substitutions to excavation support or shoring systems or t components without the express permission of the TWC.				s or thei		

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Lifting Operations Using Cranes and Excavators

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0	Ge	neral						
0.1	Any deviation from this standard must be approved in writing on the company standard Permit to Deviate form (BIMS 02-04.14) by an Operations Manager or Director prior to the activity or process commencing. A copy of the signed form shall be sent to QES and retained on site.							
0.2	This standard must be read in conjunction with BS 7121 Code of Practice for Safe Use of Cranes any relevant client-specific requirements.							
0.3	When excavators are used for lifting they become cranes, in addition lorry loaders and telehandlers are types of crane. All references to cranes in this document should be taken to include lorry loaders and telehandler or excavators when used for lifting.							
0.4	When planning areas to be used for lifting operations, consideration shall be given to BIMS 02-13 Temporary Works.							
0.5	Glossary of terms:							
	Basic lift - lifting operation where the load characteristics are considered straightforward and there are no significant hazards within the working area or on the access route for the crane to the working area.							
	Intermediate lift - lifting operation where significant hazards have been identified with the load or with the working area or access route of the crane.							
	Complex lift - lifting operation where significant hazards have been identified with the load or with the working area or access route of the crane, and involves:							
	More than one crane lifting the load.							
	 Cranes using non-standard/specialist equipment or attachments. 							
	The lifting of people.							
	Exceptional hazards including:							
		 the potentia 	al to clash with other	mobile plant.				
		 lifting over h 	nazardous or occupie	ed areas etc.				

1.0	Processes and Records		
1.1	A Lift Plan is required for all lifting operations. Lift Plans must be prepared by an Appointed Person with suitable experience appropriate to the lift being planned. The Lift Supervisor will ensure the Lift Plan is followed. The Lift Plan must be briefed to all persons involved with the lifting operation.		
1.2 JN Bentley Lift Plans must be prepared using the appropriate company standard template (t version of which shall be held in the document library). The correct duty chart and specificat the crane shall be copied within or appended to the Lift Plan.			
1.3	Lift Plans including those from third parties must be prepared/submitted at least 3 days before the lifting activity.		
1.4 If the lift cannot be undertaken in accordance with the Lift Plan the lift shall be stopped until a su Plan is prepared by the Appointed Person.			
1.5	Where lifting operations are to be planned and carried out by third parties (e.g. subcontractors/suppliers or contract lifts), the Site Supervisor shall provide the third party with all relevant information, e.g. ground conditions, positions of buried and overhead services, positions of building foundations etc.		



Lifting Operations Using Cranes and Excavators

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-								
1.6	we	e Lift Plan for the activity sh ight of the load, the positio dius required, the prevailing	n of the load in relat	tion to the crane track	ks/wheels, the li	- ·		
1.7	Th	e requirement and use of ta	aglines shall be iden	tified in the Lift Plan.				
1.8		Lift Plans shall consider obstacles, e.g. overhead cables and incorporate appropriate control measures, e.g. goal posts in accordance with Guidance Note GS6 Avoiding danger from overhead power lines.						
1.9		t Plans shall consider trave plied to the net load to allo				ty of 1.5 s	hall be	
1.10	lift	All excavators used for lifting must be fitted with hose burst check valves on the boom and have a plated lifting point. In addition, for loads greater than 1 tonne a Safe Load Indicator (SLI) or overload indicator must be fitted.						
1.11	wit	cranes/excavators used fo th the Lifting Operations an orough Examination shall b	d Lifting Equipment					
1.12	140	 The following documentation should be available on site: Legible duty charts. Operator's manual. Certificate of Thorough Examination in accordance with the Lifting Operations and Lifting Equipment Regulations (LOLER). In the case of lifting equipment that is less than 1 year old a Certificate of Conformity must be available. Current test certificates for any lifting accessories. 						
1.13	Th	 A Daily Plant Check e Safe Working Load (SWL) 		r quick hitch should b	e included in the	e Lift Plan	-	
1.14	wh	All lifting accessories shall be marked with a SWL and shall have a current test certificate, evidence for which must be available on site. In addition, JN Bentley accessories shall be tagged with the current safe lift colour tag from the JN Bentley system. Accessories shall be subject to pre-use checks by a competent slinger.						
1.15	Responsibilities for the following roles shall only be assigned to persons whose training is in date ar be included in the Lift Plan: The Appointed Person. The Crane Co-ordinator (as applicable). The Lift Supervisor. The Slinger/Signaller. The Crane Operator. If any of the above are agency staff, a competence assessment must be completed prior to the lift commencing (see the document library). When it is a contract lift, copies of competency certificates shall be obtained and held on site.							

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Lifting Operations Using Cranes and Excavators

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1.16	Wh	ere an excavator is being i	used for lifting, the d	river shall have comp	leted an approp	riate 'Lifti	ng with	
_	Exc	avators' course.						
1.17		Where specialist lifting accessories, e.g. flying forks etc. are required, approval must be sought via the Permit to Deviate process.						
1.18		Specialist lifting accessories shall only be fitted to quick hitches which have bucket cylinder ram check valves installed.						
1.19		e Lift Plan shall give consid account the full length of			has appropriate	rest perio	ds, taking	
1.20	Where cranes are to be used for man-riding operations, the last thorough examination must have been within 6 months.					been		
	Excavators shall not be used for man-riding operations.							
1.21	.21 Lifting accessories used for man-riding operations shall be: Designated for that use only. Subject to thorough examination by a competent person prior to first use. Subject to pre-use and weekly checks.							
1.22	ao	Where cranes have been assembled on site e.g. crawler or tower cranes, competent persons shall provide a certificate confirming that the crane has been assembled and tested in accordance with the manufacturer's instructions, which shall be available on site.						
1.23	acc with	Each shift, cranes/excavators must be inspected by the Operator before being used. Checks shall be in accordance with the manufacturer's instructions and shall be recorded on the relevant plant check sheet with any defects reported to the site supervisor who will determine whether the fault requires suspension of use.						
1.24		Lorry loader deliveries shall be treated as basic lifts with the responsibility lying with the supplier (or delegated third party, i.e. deliverer) and will not usually require the preparation of a Lift Plan.						
1.25	Pla	For deliveries of site cabins, stores units and any other welfare facilities etc. the supplier is to provide a Lift Plan prepared by a trained and competent Appointed Person.						
	1	e Site Supervisor will ensur						
1.26	Complex lifts, as defined in section 0.5, may only be undertaken with the prior written authorisation o Operations Director or the Engineering Director and must be planned and developed following consult with a suitably trained, competent and experienced Appointed Person.							

2.0	Conditions
2.1	All conditions stipulated in the Lift Plan and temporary works schedule/design shall be met.
2.2	The area surrounding the lift shall be orderly with signs and barriers deployed in accordance with the Lift Plan.

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Lifting Operations Using Cranes and Excavators

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2.3		Crane Operator and Slin actively. Where 2-way radi							
2.4		Crane/excavator windows and rear view mirrors/cameras shall be clean to ensure that good all round visibility is maintained.							
2.5	Ao	A copy of the Lift Plan must be kept in the cab of the crane/excavator.							
2.6	diff	Where fitted, outriggers shall be fully extended (or extended in accordance with the Lift Plan if different) and locked, before lifting operations commence. Outrigger mats shall be checked to ensure they conform to the Lift Plan details.							
2.7	(gu	A 600mm wide clearance between travelling, slewing, rigging or de-rigging cranes and any fixture (guard rail, adjacent building etc.) must be maintained; where this is not practicable, any place where a person might be trapped shall be enclosed by barriers.							
2.8	ane win ma No det	Wind conditions shall be assessed before works commence and shall be monitored with an anemometer, whether crane mounted or hand held throughout the duration of the activity. Maximum wind speeds for particular models and types of crane shall be verified by the Crane Driver using the manufacturer's instructions. No lifting operations shall be carried out in wind conditions exceeding the maximum allowed speeds detailed in the crane manufacturer's instructions. Where items with a large surface area are to be lifted e.g. shutters, the wind speed at which lifting operations cease may need to be reduced.							
2.9		avators/cranes used for dient of the manufacture		e sited on stable gro	und within the s	safe opera	ating		
2.10	with	Where the crane/excavator will travel during the lifting operation, the route chosen must be stable, within the manufacturer's safe operating gradient and free from obstructions. Failure modes for sliding, overturning, and over-burdening the ground must be considered and where appropriate controlled. Refer to Engineering Guidance Note (EGN) 1 on the document library.							
2.11	Bu	ckets shall be removed pr	ior to any lifting ope	erations.					
2.12		ing accessories shall be s y as to prevent damage.	tored either in the	site store or in the cr	rane equipment	locker, ir	n such a		
2.13	qua to l	Where a lifting accessory is found to be unfit for use or has the wrong coloured tag it shall be quarantined and marked 'Do Not Use' to prevent further use. Where a JN Bentley accessory is found to have no tag, a current certificate of thorough examination or conformity must be confirmed prior to use.							
2.14	10.20	ne rigging/de-rigging will ailed in the relevant risk a			er's guidance/in	struction	s and		
2.15		prevent over-turning of cru d carry routes shall have e				And the second s			
2.16	Wheeled excavators must not be used for pick and carry operations.								

Overational Salety Standards 201,



Lifting Operations Using Cranes and Excavators

Revision:	E	Date of Last Review:	01.10.2017	In Force From:	01.04.2011	Page:	5 of 5		
	_								
3,0	Behaviours								
3.1	No o	No one shall carry out any lifting operations without a Lift Plan.							
3.2	All Operative(s) involved in a lifting operation shall be briefed on, understand and follow the Lift Plan.								
3.3	Where fitted, safe load indicators shall be switched on and checked for operation prior to use. Action must be taken in response to warning signals. Normally the lift shall be halted, made safe and the Appointed Person informed.								
3.4	Load	is shall only be attached	to certified lifting p	oints by trained and	authorised Slin	nger/Sign	allers.		
3.5	The Crane Operator shall only take direction from one Slinger/Signaller during lift operations. The Slinger/Signaller will be identified by way of a red JN Bentley hard hat.								
3.6		Crane/Excavator Operators and Slinger/Signallers shall carry out a test lift no more than 1m from the ground to check the balance of a load.							
3.7	No p	erson shall stand or wai	k under a load, or e	enter a crush zone.					
3.8	Where use of taglines has been identified in the Lift Plan, the Lift Supervisor must designate the persons to handle the lines.								
3.9	Operatives shall not stand nor walk within the slewing radius of the counterweight of the crane/excavator.								
3.10	Loads shall not be lifted over people, including: Live highways. Occupied buildings. Railways. Public rights of way etc. 								
3.11	Oper	rators shall not use cran	es or excavators to	drag loads.					
3.12		Slinger/Signaller will cor sad man activated) prior			e has been isola	ated (swit	tched off		
3.13	Liftin	ng accessories shall not l	be adapted or mod	ified.					
3.14		All suspected damaged and faulty equipment shall be guarantined and reported to the Site Supervisor.							
3.15	Log	books shall be complete	d by Appointed Per	sons and Plant Oper	ators to mainta	in compe	tency.		
3.16	Log books shall be completed by Appointed Persons and Plant Operators to maintain competency. Crane Operators and/or Slinger/Signallers shall ensure that nobody is in physical contact with any lifting equipment and/or accessory including hook block, chains, slings etc. during the lifting or lowering of loads.								

OSS 102: Lifting Operations Using Cranes and Excavators

Overational Salety Standards 201 /



Work On or Connecting To Live Electrical Systems

Revision:	D	Date of Last Review:	01.10.2017	In Force From:	01.06.2009	Page:	1 of 2	
0	Ger	nenal						
0.1	(BIN	Any deviation from this standard must be approved in writing on the company standard Permit to Deviate form (BIMS 02-04.14) by an Operations Manager or Director prior to the activity or process commencing. A copy of the signed form shall be sent to QES and retained on site.						
0.2	This	standard must be read in co	njunction with any re	elevant client-specific	requirements.			
0.3	any	icular attention is drawn to th work where technical knowle h knowledge or experience, o nature of the work."	dge or experience is	necessary to prevent	t danger or injury, ur	nless he p	ossesses	
0.4	Electrical Systems. An assembly of electrical fitting, apparatus and equipment, whether permanent or temporary, installed for the conveyance, control, measurement or use of electricity and connected to a permanent or temporary electrical supply.							
0.5	"Live" means electrically energised or charged. In most instances this means the equipment is or has been connected to an electrical supply, whether permanent or temporary, and has not been proven to be dead. Dead means zero potential or not electrically energised or charged. Where there is any doubt whether an electrical installation is live or dead, it shall be treated as live.							
	Voltage designations are:							
	 High Voltage (HV) - exceeds low voltage. Low Voltage (LV) - not exceeding 1000V ac or 1500V dc between conductors, or 600V ac or 900V dc between conductors and earth. 							
		Extra Low Voltage (ELV) -	not exceeding 50V a	ac or 120V dc whethe	r between conduct	tors or to e	arth.	
0.6	acti	JN Bentley Electrical Safety F vities involving work on electr ply with any client electrical s	ical installations. Ad	herence to this docur				
0.7	The company has appointed electrically designated persons as defined in the JN Bentley electrical safety rules and code of practice. This designation is recorded in the training history on CMS.							
0.8	An Electrical Engineer will be named for each project to manage the overall electrical safety in accordance with the JN Bentley Electrical Safety Rules and Code of Practice (BIMS 02-16) and specific client requirements.							
	_							
1.0	Pro	ocesses and Records						

1.0	Processes and Records			
1.1	All activities that involve installation of, or work on electrical systems, including fault diagnosis, shall be planned in advance to ensure that site-specific risks are identified and removed where possible. All tasks will be covered by a risk assessment and where applicable, a method statement. The RA/MS shall detail control measures to mitigate risks.			
1.2	Site specific risks may also include:			
	 The presence of asbestos/asbestos containing materials in existing substations, switch rooms or switch gear. 			
	 The presence of polychlorinated biphenyls (PCBs) in transformers and capacitors. 			
	This should be identified by the client in accordance with current regulations.			
1.3	Work on electrical systems shall be undertaken by one of the company's Authorised or Instructed Persons, or by trained and competent Operative(s) that hold suitable Electro-Technical Certification Scheme (ECS) or JIB accreditation.			
	At induction all persons employed to work on electrical installations shall provide evidence of competency.			



Work On or Connecting To Live Electrical Systems

Revision:	D	Date of Last Review:	01.10.2017	In Force From:	01.06.2009	Page:	2 of 2
1.4	clie	ere the work being carried ou ont's, or JN Bentley Electrical S npany's Safe Systems of Work	Safety Rules, the sub	contractor shall prov	ide written declara	tion of the	r
1.5	Whenever work is carried out on or near live electrical equipment, (e.g. live exposed terminals/conductors) then one or more persons on site shall current first aid training.						
1.6	Work shall not be carried out upon any HV equipment, other than that under the direct supervision of a Senior Authorised Person (HV).						
1.7	For any panel or Motor Control Centre (MCC) modification works, the following steps are to be undertaken: Request information for the apparatus to be worked on including drawings, survey reports, etc. All relevant information obtained is to be reviewed internally and communicated to subcontractors. Works shall be carried out in accordance with OSS 103 'Panel & MCC Modification Procedure' guidance note. 						
1.8	Risk assessments and method statements from subcontractors working on or connection to live electrical systems shall be reviewed in good time, and at least 3 days before works commencing, using BIMS form 02- 04.8.						

2.0	Conditions				
2.1	Access to substations and switch-rooms shall be restricted to Authorised Persons, persons identified in a Transfer of Control/Permit to Work/Limitation of Access Document or a person working directly under their supervision (e.g. visitor).				
2.2	The HSE electric shock (first aid procedure) poster shall be provided in work locations where work on live a potentially live electrical installations is being undertaken.				
2.3	Permits to Work and/or Limitation of Access documents shall be displayed in the area of works.				
2.4	For any panel or MCC modification works, the following steps are to be undertaken:				
2.4	 During detailed design, an assessment of the equipment and O&M information shall be carried out to verify its accuracy. The extent of this assessment shall ensure that all hazards are identified and mitigated. 				
	 Safe Systems of Works for panel and MCC modifications shall be adequately detailed to include activities such as drilling or forming holes (visual confirmation of the entire route MUST be established prior to works commencing). 				

3.0	Behaviours
3.1	All persons shall follow control measures contained within the RA/MS, permits and warning notices.
3.2	Covers, warning notices, lock off padlocks and barriers shall not be tampered with.
3.3	All persons shall report damage to an electrical installation to the Site Manager and the associated Electrical Engineer.
3.4	Whilst modifying panels or MCCs, intrusive works into unidentified areas shall not be undertaken.

Management of Scaffold

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0	00	neral			_	_		
v	1000							
0.1	(BI	Any deviation from this standard must be approved in writing on the company standard Permit to Deviate form (BIMS 02-04.14) by an Operations Manager or Director prior to the activity or process commencing. A copy of the signed form shall be sent to QES and retained on site.						
0.2	This	s standard must be read in co	njunction with any re	levant client specific	requirements.			
0.3	Definitions: Basic Scaffold As defined in BIMS 02-13.4 Designed Scaffold Any scaffold that does not meet the criteria for Basic Scaffold requires a design by calculation Traditional Scaffold Tube and fitting scaffold structure (this can be either basic or designed) System Scaffold Prefabricated system comprising or either a modular or frame design (this can be either basic or designed) Scafftag Proprietary product for recording inspection history, capabilities and site specific hazards associated with a scaffold structure							
	Fall Suit TW: TW:	Proprietary product for record Arrest Equipment Equipment including lanyard injury Restraint equipment Equipment including lanyard table anchor point A tested piece of equipment S – Temporary Works Schedul C – Temporary Works Coordina D – Temporary Works Designe	and harness that mi and harness that pre to which fall arrest o e ator	tigates the effect of a	ght		serious	
0.4	Ref	erence Documents 700 CITB publication	-					

1.0	Processes and Records
1.1	The use of scaffolding on JN Bentley sites should be undertaken in line with BIMS 02-13 Temporary Works and forms.
1.2	Planning for scaffold shall consider the working at height hierarchy of preventative and protective measures as follows: Avoid work at height. Prevent falls. Mitigate the distance and consequence of potential falls. Give collective protection priority over personal protection.

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Management of Scaffold

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1.3	cor	If scaffold is required, advance planning shall ensure that site specific risks and the tasks to be undertaken are considered (i.e. ground conditions, buried and overhead services, voids, cellars, access restrictions, adjacent excavations, traffic routes, proposed loadings etc.).							
1.4	sta arr All	tasks that require the use of tement. The RA/MS shall det angements, inspection require method statements shall inclose, number of working lifts, sho	tail control measures rements, fall restrain lude a full descriptior	to mitigate risks inclu t/arrest protection, er of the scaffold inclus	uding but not limit mergency rescue a ding size, location	ed to load and PPE. , number	ing of boarded		
1.5	Acc	Access to scaffold structures must be provided adopting the following hierarchy: Staircases. Ladder access bays with single lift ladders. Ladder access bays with multiple lift ladders. Internal access ladder with protected ladder trap. External ladder using a safety gate. 							
1.6	All	scaffolds that do not meet th	e criteria for Basic Si	affold must be desig	ned by a compete	nt person	(the TWD).		
1.7	be	Where the potential exists for electric shock from overhead lines a written assessment (GS6 assessment) shall be obtained from the electricity supply company indicating safe working distances/clearances, prior to scaffold erection. The recommendations of which shall be implemented and recorded in the associated RA/MS.							
1.8	cor app All sup	All traditional scaffold erection, modification and dismantling operations, shall be undertaken by trained and competent contractors who hold Construction Industry Scaffolders Record Scheme (CISRS) accreditation appropriate to the complexity of the structure being built etc. All system scaffold erection, modification and dismantling operations shall be carried out by, or under the supervision of a competent person who has attended an approved CITB, manufacturer's or supplier(s) training course.							
1.9	CO	luction records shall include a mplexity of the scaffold struct affold supervisor training card	ture. Scaffold supervi						
1.10		ere scaffold erection is by a ng form BIMS 02-13.4 Scaffo			subcontract orde	er (not a p	lant order)		
1.11		en a scaffold structure is ere tained from the subcontracto							
1.12		en a system scaffold structu mpetent scaffold inspector ar			afftag shall be co	mpleted I	by a		
1.13	Pri	Prior to allowing use of a traditional or system scaffolds erected by third parties the TWC shall confirm that: a handover certificate has been received. the scaffold has been erected as per the design or the manufacturer's instructions. 							
1.14		or to using system scaffold en nfirming it has been erected i				mit to Pro	ceed		
1.15		ndover Certificates and Perm gineering File.	its to Proceed (BIMS	Handover Certificates and Permits to Proceed (BIMS 02-13.6) shall be retained in Section 1 of the Site					



Management of Scaffold

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1.16		Bentley Operative(s) shall not stem scaffold greater than 4m				-	
1.17		Once the initial Permit to Proceed or Handover Certificate has been issued, scaffold inspection will be as per 1.19 and 1.20.					
1.18		Inductions, RA/MS briefings and daily briefings shall include specific information regarding the safe use of scaffold structures as appropriate.					
1.19	Pre	-use visual scaffold checks st	all be undertaken d	aily by a competent p	erson before worl	k starts.	
1.20	Weekly inspections or inspection after an event likely to have affected the scaffold's stability or structural integrity, such as adverse weather conditions, shall be undertaken by a competent and authorised person and Scafftags/Laddertags shall be updated. Inspections shall be recorded as a Statutory Inspection.						
1.21	All harnesses and lanyards shall be subject to pre-use checks that are recorded on the Harness Inspection Register; weekly inspections by a competent person that shall be recorded on the harness register and 3- monthly thorough examinations by a competent person, certification for which must be available on site.						
1.13	Prie	or to allowing use of a tradition a handover certificate the scaffold has been	has been received.				n that:

2,0	Conditions			
2.1	For designed scaffolds the current 'For Construction' drawings and evidence of relevant tests shall be retained on site e.g. anchor pull-out and ground-bearing tests etc.			
2.2 Scaffold loading bays shall be designed and constructed to prevent falls of persons and materials They must have clear signage to provide users with clear information regarding safe working loads				
2.3 System scaffold structures shall be erected in accordance with manufacturer/supplier designs which shall be available on site.				
2.4	Copies of service plans shall be on site and checked prior to the erection of any scaffold structure.			
2.5	During adverse weather (e.g. high winds, snow, frost) access to scaffold structures shall be prevented until the risks have been assessed and the scaffold re-inspected.			
2.6	The risk of trips shall be minimised. Scaffold boards/walkways shall be as flat as practicable with no raised/ overlapping boards or protruding board clamps.			
2.7	Brick guards shall be fitted where scaffold structures are to be loaded.			
2.8	Handrails and toe boards shall be fitted to internal free edges where there is a risk of workers, materials or equipment falling.			
2.9	Loose materials, tools or equipment shall not be stored adjacent to an unprotected edge.			
2.10	Traffic routes shall be designed such that the risk of vehicle collision with scaffold structures is minimised.			
2.11	Warning signage, including prohibition of access, shall be clearly displayed in a prominent position, adjacent to ALL points of access.			



Management of Scaffold

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2.12	ins	ifftags shall be attached to th pection and class of use. Idertags shall be attached to a					of	
2.13		All points of access shall be provided with a means to prevent unauthorised access when the scaffold is not in use and at the end of a shift.						
2.14	Pric	or to use, all scaffold compone	ents shall be stored :	safely in a designated	l area.			
2.15	To	prevent injury, all tools used f	or scaffold erection s	shall be stored safely	to prevent them f	alling from	n height.	
2.16		ere there is a risk that boards ards shall be fixed in place.	may move due to po	osition, traffic or adve	erse weather cond	itions, sci	affold	
2.17		ring scaffold erection and disr ing.	nantling, all compon	ents shall be stored i	n a manner preve	nting the	n from	

3,0	Behaviours
3.1	No person shall alter, modify or substitute scaffold/scaffolding components without the express permission of the TWC and they must have the necessary competencies and qualifications to do so, e.g. addition of sheeting, rubble shoots, unplanned loading out etc.
3.2	All persons shall report any changes in the assumed ground conditions on which the scaffold is erected (both prior to and during erection or during use), to the TWC.
3.3	All persons shall only access scaffold structures that display a current Scafftag. When scaffolds/ladders are not in use, scafftags to display 'Do Not Use'.
3.4	All persons shall ensure that scaffold access walkways are kept tidy.
3.5	When working at heights of 4m or greater, where collective fall protection is not employed, all persons involved in scaffold erection, modification or dismantling shall wear a full body fall arrest harness with a fall arrest lanyard (not greater than 1.75m long) attached to a suitable anchor point. For heights less than 4m from which a fall would be likely to result in injury, fall restraint harnesses and lanyards shall be worn and attached to a suitable anchor point.
3.6	No-one shall throw or drop ('bombing') scaffold components. Materials should be passed from hand to hand or raised and lowered in a controlled manner (light line or gin wheel and rope etc.).
3.7	Scaffold structures shall only be loaded in line with the design parameters.
3.8	Access to scaffold structures shall only be by designated routes/access points.

Lone Working

Revision:	C Date of Last Review: 01.10.2017 In Force From: 01.07.2009 Page: 1 of 2								
0	Ge	neral							
0.1	Any deviation from this standard must be approved in writing on the company standard Permit to Deviate form (BIMS 02-04.14) by an Operations Manager or Director prior to the activity or process commencing. A copy of the signed form shall be sent to QES and retained on site.								
0.2	This standard must be read in conjunction with any relevant client-specific requirements.								
0.3		rking alone increases the g ciple be avoided whenever		encountered and	therefore shall,	as a mat	ter of		
0.4	clos	e Working - persons are to se or direct supervision and summon assistance in the	d have neither visu	al nor audible com	munication, with	h someo	ne who		

1.0	Processes and Records
1.1	All tasks that require lone working shall be identified within Management Risk Assessments, site- specific risk assessments and, where applicable, a method statement. The site-specific RA/MS shall detail control measures to avoid or mitigate the risks associated with lone working activities; this should include emergency procedures and emergency contact arrangements (including call outs/out of hours working).
1.2	The RA/MS shall identify a 'buddy' for the lone worker and the means of 2-way contact (mobile telephone or radio). The RA/MS shall specify intervals and method for reporting-in and the escalation procedure following a failure to report/make contact.
1.3	 Lone working shall not be permitted in the following situations/for the following activities: Derelict structures. Confined spaces. Where the lone worker could come into contact with a live electrical conductor. Work areas on, over or adjacent to water. Working at height where the risk level will be increased by lone working, e.g. working off a ladder that requires footing. Diving operations. Excavations. Mobile plant. Areas where there is an increased risk of violence, abuse or harassment. Unlit or poorly lit conditions. Extreme weather. Areas where hazardous atmospheres can be reasonably expected.
1.4	Lone working shall not be undertaken by: Pregnant Women. Young workers (under 18). Workers with incapacitating medical conditions.



Lone Working

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All tasks that require lone working shall be identified within Management Risk Assessments, sitespecific risk assessments and, where applicable, a method statement. The site-specific RA/MS shall detail control measures to avoid or mitigate the risks associated with lone working activities; this should include emergency procedures and emergency contact arrangements (including call outs/out of hours working).

2.0	Conditions
2.1	The lone worker and the 'buddy' shall have copies of the task specific RA/MS detailing general control measures as well as contact and emergency arrangements.
2.2	Means of 2-way communication must be available and shall be tested before lone work commences to ensure correct operation and reliability.
2.3	Suitable arrangements shall be in place for responding to out of hours working and call outs, including the provision for requesting assistance where required.
2.4	Operatives shall have suitable arrangements in place to ensure/obtain sufficient detail is available to them when arriving on site to carry out work safely, including out of hours working.
2.5	A first aid kit must be available to lone workers.
2.6	Planning of work activities shall take into account tasks considered to be lone working and controls shall be implemented accordingly.
2.7	Where English language instructions are not adequately understood, arrangements shall be in place to ensure understanding of task specific and safety critical information prior to lone working taking place.

3.0	Behaviours
3.1	Operatives shall only undertake lone working activities after control measures identified within the RA/MS have been communicated to them.
3.2	Operatives shall challenge control measures included within the content of the RA/MS where they are unsure or can suggest a safer way of undertaking a lone working activity.
3.3	When undertaking a lone working activity, Operative(s) shall stop work and notify the 'buddy' if anything occurs that may affect working methods as identified within the RA/MS.
3.4	If communication fails, operatives shall immediately stop the activity and contact their buddy through alternative means.
3.5	Lone workers shall contact the 'buddy' at the agreed contact intervals including out of hours and call outs. Where work carries over the agreed timescales, contact must be made with the 'buddy' and new intervals agreed and implemented.
3.6	The 'buddy' shall attempt to contact the lone worker within 5 minutes of the agreed contact interval and at a minimum of every 5 minute intervals until contact is re-established.
3.7	If contact with the lone worker is not established within 15 minutes of the agreed interval the 'buddy' shall instigate the emergency action plan.



Operational Safety Standard 106 Safe Use of Plant and Equipment

(Provision and Use of Work Equipment Regulations - PUWER)

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0	General Control of Con
0.1	Any deviation from this standard must be approved in writing on the company standard Permit to Deviate form (BIMS 02-04.14) by an Operations Manager or Director prior to the activity or process commencing. A copy of the signed form shall be sent to QES and retained on site.
0.2	This standard must be read in conjunction with any relevant client-specific requirements.
0.3	Definitions:
	 Mobile Plant - Any work equipment which is self-propelled, including excavators, dumpers, tractors etc. Specific requirements relating to the use of mobile elevating work platforms (MEWPs) is detailed in OSS 109.
	 Equipment - For the purposes of this standard, equipment is any work device, which does not fall into any of the other categories, generators, vibrating plates, pumps, personal gas monitors, brush cutters etc. Specific requirements relating to the use of ladders is detailed in OSS 109.
	 Power Tools - Any tool, usually hand operated, which is powered by either electricity whether 110v, battery or petrol/diesel engine, e.g. drills, circular saws, Stihl saws, grinders etc.
	 Hand Tool - Any tool or implement designed for manual operation, including hammers, chisels, hand saws, screwdrivers etc.
	 Low Risk Items - Pumps, portable generators, strimmers, hand drills, breakers, jet washers, pipe cutters, bolt cutters, needle guns, whackers, trench compactors, "rammax" etc.
	 High Risk Items (Handheld) - Any item of work equipment, not including mobile plant, the (mis)use of which could reasonably be expected to result in a reportable injury, e.g. amputation, fractures (other than fingers or toes) and over 7 day lost time injuries etc. (e.g. cut-off saws, road saws, chainsaws, nail guns, grabs, ladders, grinders, circular saws etc.).
	 Training Requirement - The operator requirements for individual plant, tools and equipment are categorised as training, instruction or familiarisation. Site Supervisors shall ensure that only suitably competent people are permitted to use plant, tools and equipment on site. Details of these requirements can be found in OSS 106 guidance note on the document library.
0.4	Shall be read in conjunction with:
	 Management Risk Assessment.
	 OSS 106 guidance note (which replaces the JN Bentley Work Equipment Guide).

10	Processes and Records
1.1	All mobile plant, equipment and electrical power tools shall comply as a minimum with European conformity (CE marked). Hand tools do not require CE marking.
1.2	JN Bentley employees may only use JN Bentley-owned or hired power tools.
1.3	All JN Bentley mobile plant, equipment and power tools shall be issued with a unique plant reference number by the Plant Department. Issue records and maintenance history will be centrally held by the Plant Department.

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Operational Safety Standard 106 Safe Use of Plant and Equipment

(Provision and Use of Work Equipment Regulations - PUWER)

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1.4	855	asks that require the use of r essment and, where applicat s including those of injury an	ole, a method state	ment. The RA/MS sh					
1.5	ope In a utili	nobile plant operators must l rated, this shall be confirmed ddition, for newly trained or r sing tool box talk 58, records 'S* - other accepted compete Lantra. Independent Training Association of Industri National Plant Operati Road Transport Indust National Proficiency Te	d by the Site Superv non-JN Bentley Oper of which shall be h ence cards for mobi Standard Scheme a al Truck Trainers. ors Registration Sch ry Training Board (F	risor at induction. rators, a competency ield in the Site Safet ile plant include: and Register (ITTSAR neme (NPORS). RTITB).	y assessment sh y File.				
1.6		For high risk items (see section 0.2) evidence of training must be provided prior to use. A competency assessment must also be undertaken for unfamiliar or infrequently used pieces of work equipment.							
1.7	For	For low risk items of plant, site supervisors shall confirm operator's familiarity prior to authorising use on site.							
1.8	All hired mobile plant, equipment and electrical power tools shall be checked on delivery for damage and suitability prior to acceptance. Certification shall be checked and copies shall be maintained in the Site Safety File.								
1.9	wee	nobile plant (including those kly inspections that shall be ervisor.							
1.10		quipment and power tools (i sections.	ncluding those prov	ided by subcontract	or(s)) shall be su	bject to pre	e-use		
1.11		JWER register recording wee vide an equivalent traceable	A CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR O	Il be completed for a	ll high risk items.	Subcontra	actors shall		
1.12		ere users cannot provide evid ipment or electrical power to							
1.13	to fo	trical power tools, domestic ormal inspection and testing Office equipment (inclu Site equipment - 3 mor bel indicating test and retest ipment shall be dated when	(PAT). Inspection ar iding welfare and si iths. dates shall be affix	nd testing frequencie te office equipment) red to each appliance	es required are: - 12 months. e and accessory.	New elect	rical		
1.14	-	following items may not be a Angle Grinders sized 9 Mechanical scissor gr Semi-automatic quick Fork sleeve attachmet	ised on JN Bentley inches or above. abs. hitches.	sites:					



Operational Safety Standard 106 Safe Use of Plant and Equipment

(Provision and Use of Work Equipment Regulations - PUWER)

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2.0	Co	nditions						
2.1		nanufacturer installed prote ps) etc. shall be present and					(emergency	
2.2	The	use of 240v power tools is r	not permitted on JN	Bentley sites.				
2.3	Wb	p checks shall be fitted at a	Il joints on all compr	ressed air lines.			a. 201 at 1	
2.4	Sup / gi	erating instructions/manuals ervisor and user. Plant and uidance which shall be availa essments.	equipment shall be	used and maintaine	d in line with man	nufacturer	's instructions	
2.5	Pla	nt, equipment, electrical pow	ver tools and hand t	ools shall be stored i	in such a way as	to prevent	damage.	
2.6		ere electrical cables or air/h hazards are minimised.	ydraulic hoses are p	resent in the work a	rea, these shall b	e routed t	o ensure that	
2.7	Wh	Where fitted, the Roll-Over Protection Structure (ROPS) on mobile plant shall be correctly installed with all safety pins in place, as applicable.						
2.8	Where mobile plant, equipment, electrical power tools or hand tools have been found to be unfit for use, they shall be guarantined to prevent further use.							
2.9	When not in use, mobile plant shall be parked on level ground with keys removed including isolator keys to prevent unauthorised operation. If Mechlocks or any other immobilisation devices are fitted, these shall be engaged.							
2.10	Any	plant or equipment found to	be unfit for use mu	ust be segregated an	d marked 'Do No	t Use'.		
2.11	Wh	Where the use of work equipment has the potential to generate harmful dust, dust suppression must be used.						
3.0	Be	haviours						
3.1		rs of mobile plant, equipment specific risk assessment.	nt, power tools and	hand tools must wea	ar the PPE and/or	RPE deta	ailed in the	
3.2	Sea	tbelts must be worn where f	itted.					
3.3	Saf	ety devices shall not be tamp	pered with, removed	l or bypassed.				
3.4		ratives shall only use mobile horised to use.	e plant, equipment a	and power tools that	they are trained,	competer	nt and	
3.5	Ope	eratives shall carry out and re	ecord pre-use check	s on mobile plant pr	ior to use.			
3.6	Ope	eratives shall carry out a visu	al inspection on wo	rk equipment, powe	r and hand tools	prior to us	e.	
3.7	Ope	eratives/users shall always r	eport damage or fau	ults however minor p	rior to use.			
3.8		bile plant shall only be driver ers on site.	n on designated rou	tes and operated in	a manner which v	will not car	use danger to	
	1							

No operative shall attempt repairs to broken or damaged mobile plant, equipment, power tools or hand tools unless trained and authorised to do so.

3.10

Revision:	E	Date of La	ast Review:	01.10.2017	In Force From:	01.08.2012	Page:	1 of 4			
-				_		_					
0	Gene	General									
0.1	Devia	Any deviation from this standard must be approved in writing on the company standard Permit to Deviate form (BIMS 02-04.13) by an Operations Manager or Director prior to the activity or process commencing. A copy of the signed form shall be sent to QES and retained on site.									
0.2	This s	standard n	nust be read in	conjunction with	any relevant client	-specific requirer	ments.				
0.3	Once	o Specifi o o o	It must be a s One or more ied risk" means Serious injun The loss of or temperature. The loss of or lack of oxyge The drowning The asphysia inability to re as a confined sp	space which is su of the specified r to any person a prosciousness of a prosciousness of a n. g of any person at tion of any perso ach a respirable	st have both of the bstantially (though isks must be prese rising from a fire or any person at work any person at work work arising from a n at work arising from an at work arising from an at work arising from an classified as such u	not always entire nt or reasonably explosion. arising from an in arising from gas, an increase in th orm a free flowing o entrapment by a	ely) enclo foresees ncrease fume, v e level o ; solid or a free flo	osed; and able. in body apour or f liquid. the wing solid			
0.4	No er	ntry shall b	e undertaken i	n an explosive at	mosphere.						
0.5				ciple shall be ave age through to fi	oided wherever ream nal construction.	sonably practical	ble. This	principle			
0.6		Water	Vork in Confine UK - The Class	d Spaces ACoP (I sification & Mana and Issue of Per	gement of Confine	d Space Entries.					

1.0	Processes and Records
1.1	The presence of a confined spaces shall be determined by using the Confined Space Classification Decision Tool (see document library).
1.2	Prior to working, planning shall be undertaken that as a minimum will identify location and risk classification of confined spaces. Risk classifications are:
	Low - equivalent to NC1.
	 Medium - equivalent to NC2/3.
	 High - equivalent to NC4.

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Safe Working in Confined Spaces

Revision:	E	Date of La	ast Review:	01.10.2017	In Force From:	01.08.2012	Page:	2 of 4			
				100 C				6 - Y			
1.3	ace	A task-specific risk assessment shall be prepared for all confined space activities. This shall be accompanied by a method statement that is briefed to all persons involved. A copy of the RAMS shall be held at the point of work together with the Permit to Enter and tally sheet.									
14	(3) (1) (4) (4) (5) (4) (5) (4) (5) (5) (5) (5) (5) (5) (5) (5) (5) (5	Risk assessment and control measures shall consider: (a) Supervision. (b) Competence and physical fitness for confined spaces working. (c) Communications. (d) Testing/monitoring the atmosphere. (e) Gas purging. (f) Ventilation. (g) Removal of residues. (h) Isolation from gases, liquids and other flowing materials. (i) Isolation from mechanical and electrical equipment. (j) Selection and use of suitable equipment. (k) PPE and RPE. (l) Portable gas cylinders and internal combustion engines. (m) Gas supplied by pipes and hoses. (n) Access and egress. (o) Fire prevention. (p) Lighting. (q) Static electricity. (r) Smoking. (s) Emergencies and rescue. (t) Limited working time.									
1.5	Wh	ere emerge firmed prior	ncy arrangeme r to entry takin	nts involve third j g place.	the risk assessme parties their suitabi fication of confined	ility and availabil					
	Lo	w	NC1		Self-rescue arrangements to be provided by trained and competent operatives who shall as a minimum have completed an approved 1 day						
		edium	NC2		e working course.	nave completed an	approveo	1 day			
		ourum	NC3		asisted rescue arrange eratives who shall as a						
	Hi	gh	NC4	1 day confined	d space working course e contractor, stationed	e or to be provided I	by a specia	alist			
	(a (b (c (d (e	As a minimum the emergency/rescue plan shall consider: (a) Rescue and resuscitation equipment. (b) Raising the alarm and rescue. (c) Safeguarding the rescuers. (d) Fire safety. (e) Control of plant. (f) First aid. (g) Public emergency services. (h) Training.									

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1.6		ermit to Enter system shal ndard template (unless a s					
1.7		persons planning and/or u table for the expected con			st have current a	ccredite	d training
1.8	rec	dence of Operative's confi ord system. Evidence of s I maintained in the Site Sa	ubcontractor train				
1.9		assessment of competend ly competent persons may			using OSS guidar	nce note	GN108.
1.10	First	at aid equipment shall be i	mmediately availa	able for all confined	space entries.		
1.11		op Man shall be present fo sts, a Top Man shall be pro					
1.12		minutes prior to confined ted for a minimum of 5 mi			here of the conf	ined spa	ce shall b
		Workplace Exposu	ire Limits				
		Oxygen >19% by volume an	id <23% by volume				
		Flammable gas <1% by v	olume (20% LEL)				
		Hydrogen Sulphid	e <5 ppm				
		Carbon Monoxide	<30 ppm				
		nosphere shall be monitore oughout confined space w			maximum hourly	interval	
1.13	14/1-	ere escape sets and rescu	a handana a ta a	tring de distritet au	and there	- hall ha	

2,0	Conditions
2.1	Access/egress and ventilation points shall be suitably signed and securely fenced.
2.2	Access/egress provisions shall be sufficient to prevent falls and allow emergency evacuation.
2.3	Where the only means of access/egress is by lowering somebody using tripod, davit and winch, a secondary winch shall be fitted or immediately available.
2.4	Gas monitors shall be bump tested prior to each day's use, be fully charged prior to operation and recharged after use.
2.5	Escape sets shall be of sufficient duration/capacity to facilitate safe emergency egress.

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2.6	Esc	ape sets shall be fully cha	rged and be readi	ly accessible to op	eratives within th	e confin	ed space
2.7	spa	nt and equipment that can aces and shall not be positi utilation points.	-				
2.9		s monitors shall remain in ace activity.	position as stipula	ated by the risk ass	essment through	out the	confined
2.10	For	ced ventilation shall be us	ed where natural	ventilation does no	t allow safe work	ting cond	litions.
2.11		equipment to be used in co all be recorded on the harn		all be subject to pr	re-use checks. H	arness c	hecks
2.12		ekly inspections of breathi nitors, harnesses etc. shal				ipment, g	(as

3,0	Behaviours
3.1	All persons shall follow control measures contained within the task specific RA/MS and the confined space entry permit.
3.2	No person shall be involved in a confined space operation unless suitably trained and competent.
3.3	No person shall enter a confined space, even in an emergency or to rescue a colleague, unless authorised to do so.
3.4	All Operatives shall notify their supervisor if they are not medically/physically fit to enter a confined space if they suffer from any condition which may be exacerbated by a confined space entry (e.g. asthma, bronchitis, claustrophobia etc.).
3.5	All persons entering a confined space shall act on instructions given by a trained and competent Top Man.
3.6	The Top Man shall ensure permits are obtained from and cancelled by the Site Supervisor (or delegate).
3.7	All persons shall cease work and exit the confined space when conditions change, gas detectors alarm and/or on the instruction of the Top Man.
3.8	At no point will a Top Man move away from the confined space they are in charge of, or allow themselves to be distracted from their Top Man duties.

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Revision:	E	Date of Last Review:	01.10.2017	In Force From:	01.08.2012	Page:	4 of 4
2.6	Esc	ape sets shall be fully cha	rged and be readi	ly accessible to op	eratives within th	e confin	ed space
2.7	spa	nt and equipment that can aces and shall not be positi utilation points.	-				
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2.10	For	ced ventilation shall be us	ed where natural	ventilation does no	t allow safe work	ting cond	litions.
2.11		equipment to be used in co all be recorded on the harn		all be subject to pr	re-use checks. H	arness c	hecks
2.12		ekly inspections of breathi nitors, harnesses etc. shal				ipment, g	(as

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0	Ge	neral							
0.1	Dev	Any deviation from this standard must be approved in writing on the company standard Permit to Deviate form (BIMS 02-04.14) by an Operations Manager or Director prior to the activity or process commencing. A copy of the signed form shall be sent to QES and retained on site.							
0.2	This	s standard must be read i	n conjunction wit	h any relevant clie	ent-specific requir	ements.			
0.3	Def Mol Ligl	This standard must be read in conjunction with any relevant client-specific requirements. This document is to be read in conjunction with: OSS 109 Guidance Note - Working At Height-Podium Steps HSE-INDG405 Top Tips for Ladder and Stepladder Safety Definitions: Mobile Access Platforms Mobile access platforms are used as an alternative to ladders, scaffolds and cradles. The range of equipment includes mobile elevating work platforms (MEWP) and mast climbing work platforms (MCWP). Mobile Access Towers Mobile lightweight aluminium structures such as towers and podium platforms. Lightweight Staging Consists of two or more supports that can either be folding or fixed that support scaffold boards or proprietary staging to form a working platform. Ladders and stepladders The range of ladders can include standing ladders, pole ladders, extension ladders and stepladders made from aluminium, GRP or wood. Collective Protection							
0.4		ere work involves working	from traditional	or system scaffold	I, refer to OSS 10	4 Manager	ment of		
0.5		understand the interaction Management Risk Assess		specific hazards a	nd work at height	equipmer	nt refer to		
1.0	Pro	ocesses and Records							
1.1	tha sur exc ligh	activities that involve the it site specific risks are ide faces, working on ladders avations, working around tweight staging, working on nning shall consider the v	entified (e.g. work /stepladders, wo chambers/man on the backs of c	king on mobile acc orking from MEWP holes, working aro delivery vehicles of	cess towers, work S/MCWPs, working and open tanks, w r other plant).	ing on frag ng close to working on	ile		

Planning shall consider the working at height hierarchy of preventative and protective measures follows:

Avoid working at height - i.e. can the work be brought to ground level?

Prevent falls - select the most appropriate equipment for the work and to prevent falls.

- Prevent rais select the most appropriate equipment for the work and to preven Reduce the distance and consequence of any falls.
- Reduce the distance and consequence of any falls.
 Give collective protection priority over personal protection.



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1.2		tasks that involve working					
		blicable a Method Statem not limited to:	ent. The RA/MS	shall detail control	measures to mit	igate risks	including
		Suitability of working i Access and egress. Competency. Weight limits. Loading arrangement Edge protection. Falling objects. Exclusion zones. Inspection requirement Fall restraint/arrest p Emergency rescue. PPE.	s.	nt.			
1.3	The	following shall be consid			and the second	r working	at height:
		 Working conditions ar Access and egress an Distance and consequence Duration and frequen Need for and ease of Any additional risks prevacuation or rescue Proximity of live electr Potential weather con 	d distances to be o pences of any pote cy of use of the wo evacuation and re osed by the install from it. ical equipment.	egotiated. ntial fall. rk equipment. scue in any emerger ation, use, or removi	псу.	ment, and a	any
1.4		k assessments relating to d objects both above and				the second second	
1.5	equ etc.	hired mobile access plant tability prior to acceptanc ipment for and associate .) must have a current cer ich shall be kept in the Sit	 Certification and d with the lifting tificate of thorout 	nd user instruction of persons (i.e. M	s shall be checke EWPs, MCWPs, ha	ed. All plan arnesses, l	t and anyards,
1.6		uctions, RA/MS briefings of work equipment selec			ecific information	regarding	the safe
1.7	bei	uction records shall inclu ng used, e.g. IPAF (MEWP ght Equipment in the doc	S), PASMA (Mobi				
1.8	ins ere	tutory Inspections of Mob pections must be carried cted. Inspections of scaff ined) person.	out before first u	se and every subs	equent 7 days the	at the towe	
		caffold tower must be also ather (external towers) or			and the second		evere



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1.9	dai rec	other work equipment us ly pre-use visual inspectio orded on the PUWER regi Bentley records shall be r	in and weekly for ster (or for subco	mal inspection, by ontractor(s), in an e	a competent per	son, that s	shall be
1.10		aily plant check sheet sha WP/MCWPS. Records sha				person fo	r
1.11	1.00	ers of harnesses must be pections which shall be re		e of the harness a	nd in carrying out	visual pre	-use
1.12	Re	e-use checks and weekly in gister on the document lib dertaken, with current cer	orary. 3-monthly	thorough examina			
1.13	be	ere the potential exists fo obtained from the electric igned Overhead Cable Wo	city supply compa	any prior to workin			
1.14	(pa ste	inter, electrician etc.) clas pladders may be used (ta t be used under any circur	s 2 working indo g colour code - g	oors European Sta reen). Class 3 don	ndard EN 131 lad	ders and	

2.0	Conditions
	Mobile Elevating Work Platforms (MEWPs)
2.1	Where fitted, outriggers shall be used in accordance with manufacturer's instructions.
2.2	All users shall only use the designated disembarkation point and shall not access or egress a raised platform unless a risk assessment has been undertaken that concludes that there is no other safer method (including emergency situations etc.).
2.3	All users shall not stand on the platform or cage mid/hand rail.
2.4	All users shall wear a fall restraint harness and lanyard when using boom type platforms that are attached to a designed attachment point. Lanyards must ONLY be secured to the designated anchorage point within the basket or cage.
2.5	MEWPs shall only be operated on terrain for which they are designed.
2.6	MEWPs shall under no circumstances be allowed to swing into or over traffic or live traffic routes.
2.7	The area around the MEWPs shall be cordoned off to ensure the safety of other workers.
2.8	MEWP platforms/cages shall not be attached by any means to a permanent structure.
2.9	MEWPs shall not be used as a crane or a prop to support other structures or machines.
2.10	MEWPs working over water shall be subject to specific risk assessments to determine whether lanyards and harnesses are necessary.



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2.11	rais	All work with MEWPs must include a written emergency plan to cover rescue of Operative(s) from a raised basket in the event of a mechanical failure and the rescue of a suspended operative including specific guidance on suspension trauma.								
2.12		tools and equipment must ow.	t be secured with	in the basket to p	revent them fallin	g to the g	round			
2.13	ME	MEWPs should only be used within the designated safe working area.								
2.14	ME	MEWPs must be lowered before being moved.								
2.15	MEWPs must only be operated by suitably trained and competent individuals (IPAF or equivalent).									
	Mo	ibile Access Towers								
2.16	cor	Mobile access towers must only be erected or dismantled by or under the direct supervision of a competent (PASMA trained) person using the advance guardrail or 3T (through-the-trap) approved erection methods.								
2.17	1.000	Mobile access towers shall only be erected and dismantled in line with the manufacturer's instructions which must be made available to the erector prior to commencement of work.								
2.18	Before moving a tower, Operators shall:									
	 Reduce the height to a maximum of 4 meters. Check that there are no power lines or other obstructions overhead. Check that the ground is firm, flat and free from potholes. Towers shall not be moved:									
	 Using powered vehicles - push or pull with manual effort from the base only. While there are people or materials on the tower. In windy conditions. 									
2.19	Toy	vertags shall be used on r	nobile towers an	d podium steps ar	nd updated weekly	<i>i</i> .				
2.20	All	mobile towers shall have t	oe boards fitted	on the working pl	atform.					
	Lightweight Staging									
2.21	Lig	Lightweight staging shall be: Free from trip hazards or gaps through which persons or materials could fall. Fitted with toe boards and handrails. Kept clean and tidy, e.g. do not allow mortar and debris to build up on platforms. Loaded so as not to give rise to a risk of collapse or to any deformation that could affect its safe use. Erected on firm level ground to ensure equipment remains stable during use.								
2.22	Sca	afftags shall be used on lig	htweight staging	6						



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	Lac	iders and Stepladders								
2.23		Ladders and stepladders shall only be used in low risk situations when a risk assessment has shown that the use of alternative equipment is not practicable.								
2.24		Ladders and stepladders shall only be worked from in one position for a maximum of 30 minutes and only where the work allows the maintenance of a minimum of three points of contact with the ladder.								
2.25	Lad	Ladders shall be set at an angle of 75° (a ratio of 1 unit of length out to 4 units of length up).								
2.26		All ladders shall be fixed or tied to prevent slipping, either near the top or if that's not possible, at the bottom.								
2.27	Foo	ting ladders shall only be	used as a last re	esort.						
2.28	Lad	iders shall extend at least	1 metre above t	he landing place.						
2.29	Lad	dertags shall be used on	ladders and step	oladders.						
2.30		lders shall be visually insp the ladder tag.	ected before ea	ch use and weekly	with the weekly i	nspection	recorded			
2.31		dertags shall be used to i I stepladders, with the ins					adders			
2.32	Lad	ders/stepladders without	a ladder-tag sha	all not be used.						
2.33		ere plant or equipment fo regated, immobilised and				, it/they sł	hall be			
2.34	Pai	nted timber ladders shall	not be used und	er any circumstan	ces.					
2.35	Exc	ess mud shall be remove	d from the soles	of boots before us	ing a ladder.					

3.0	Behaviours
3.1	When driving mobile work at height equipment, Operative(s) shall keep to designated routes and drive in a manner not to cause danger to others on site.
3.2	Operators of mobile work at height equipment shall ensure that equipment is parked on level ground with keys removed to prevent unauthorised operation. Operators of MEWPs shall ensure that they are stored in the lowered position when not in use.
3.3	Operatives shall only use equipment that they are trained, competent and authorised to use.
3.4	Safety devices shall not be tampered with, removed or bypassed.
3.5	All persons shall carry out a visual inspection on equipment prior to use.
3.6	All persons shall always report damage or faults however minor.



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3.7		person shall erect or disn to so.	nantle work at he	eight equipment ur	less they are trai	ned and co	ompeten			
3.8		No person shall attempt repairs to broken or damaged equipment, unless trained and authorised to do so.								
3.9	Acc	Access equipment shall only be used for its intended purpose.								
3.10	All operators of mobile plant and other work at height equipment shall always wear the PPE listed in the RA/MS for the task to be completed.									
3.11	All	persons shall only use wo	rking at height ea	quipment that is o	orrectly positioned	a.				
3.12	Ope	erative(s) using ladders ar	nd stepladders sl	hall always keep th	nree points of con	tact.				
3.13		persons shall only access play a current Scafftag/To			tepladders/lightw	veight stag	ing that			
3.14	All	persons shall only access	work at height e	quipment only by	designated routes	/access p	oints.			
3.15	ste	person shall stand or wor p forming the very top of a fitted with a suitable han	a step ladder) un		and the second se					



Avoidance of Services

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_						_	_			
0	General									
0.1	devia	eviation from this stand te form (BIMS 02-04.14 nencing, A copy of the s	4) by an Operatio	ons Manager or Dir	ector prior to the a	activity or p				
0.2	This s	This standard must be read in conjunction with any relevant client-specific requirements.								
0.3	This OSS refers to all surface or ground-breaking activity with potential to strike a service and includes any activities with the potential to contact overhead services. Definitions: Services - Any potentially live pipe, cable, tank, panel.									
	 Mapping of services - The process of identifying and marking the routes of all services within the work area. 									
	 Locating services - The process of proving the physical location of a service. 									
	 Permit to Dig-The permit required for activities involving ground or surface breaking as per section 1.21 (below). 									
	•	Overhead Cable Work LV overhead electric				an HV or un	insulated			
0.4	Reference documents:									
	HSG4	7 - Avoiding Dangers f	rom Undergroun	d Services						
	GS6	- Avoiding Dangers from	n Overhead Pow	er Lines						
	0SS 1	101 - Excavations								
	OSS (002 - Risk Assessment								
	OSS 0	004 - Preparation and	ssue of Permits	to Work						
	BIMS	02-13 Management of	Temporary Worl	ks						

1.0	Processes and Records					
	Obtain service plans from statutory undertakers					
1.1	Service plans and as-built drawings, scaled to identify individual services, must be obtained from statutory undertakers and private owners prior to any works commencing.					
	Visit she and obtain local knowledge					
1.2	Service surveys shall be undertaken by a competent person for all activities that break ground prior to activities starting on site. One or more of the following techniques shall be used prior to construction start on site:					
	 GPR survey. Survey by JN Bentley-trained engineer. Survey findings shall be collated and passed to the construction team during project handover. 					



Avoidance of Services

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	Amend the design to avoid.	chanted services	all together if bos	sitia	-	_					
1.3	The design must be reviewed on receipt of the service drawings to see if working around services ca be mitigated.										
	Is further mingation required?										
1.4	Where hard surfaces e.g. co known/suspected service, b There is any indicatio The survey informatio injury or significant d Client-specific restric Once the hard surfac dig etc.) shall be use	reakers, peckers n that the service in is inconclusive a amage, disruption tions apply. e has been suitab	and road saws et is shallow enough to and the potential imp or cost etc. ly broken safe diggin	c. may be used un be affected by the is bact of damaging the g techniques, (i.e. was g techniques,	less: activity. a service is s	erious					
1.5	Where contact with the service is unavoidable, e.g. when encapsulated in concrete that has to be removed, it shall be isolated and re-routed prior to removal.										
1.6	If a diversion of the service i undertaken.	If a diversion of the service is practicable, then this shall be carried out prior to the works being									
1.7	GS6 shall be considered wh	en designing the	layouts of compo	unds and the posit	ioning of c	abins.					
1.8	A GS6 assessment must be undertaken by the distribution network operators where overhead electricity supply cables are present on site and/or within 6m of the site boundary. Consideration and impact of pole mounted equipment (e.g. transformers, breakers and cables shall be included).										
1.9	Works within 6m of an HV or uninsulated LV overhead electric cable (other than crossing under) shall be under the control of an Overhead Cable Work Permit.										
	Trial excavations/prepare site information										
1.10	 Trial holes shall confirm the location and line of underground services where they are present in reasonably likely to enter the area of the excavation. The following information shall be used to determine where trial holes shall be dug: Service plans. GPR surveys or survey by trained JN Bentley Engineer. Surface features, e.g. trench scars, trench depressions, chambers, junction boxes, overhead pol street furniture, marker posts for petroleum mains and high pressure gas mains. CAT scan targets. 					d to					
1.11	Tracer cables. Additional trial holes shall be encountered or where featu					ly to be					
-	RAMS Preparation		-								
1.12	Risk assessments shall con these services could be enc method statement that is br	ountered during	the course of an a	ctivity. This shall b							



Avoidance of Services

Revision:	E	Date of Last Review:	01.10.2017	In Force From:	01.10.2009	Page:	3 of 5			
	An emergency plan should be included in the method statement which details: Medical arrangements. Contact and access arrangements for the service owner. Additional immediate contingency actions and required equipment etc. 									
1.13	The	 permitted methods of experimentation. Air pick. Hand digging (using in accessories). 				ther approv	ed			
1.14	The	The competence of those carrying out the work shall be assessed.								
1.15	Wh	Where works are to expose existing services, state the techniques to be adopted.								
1.16	1.00	Consider whether a temporary work design is required (this may include support for services crossing the excavation).								
1.17		Statutory undertakers must approve working methods adjacent to gas pipes>2bar, HV cables, petrochemical mains, fibre optic cables prior to works commencing.								
1.18	Overhead cable protection measures shall be included where required.									
-	Undertake site investigation works, proceed with permit process									
	Review results of trial excavations and amend design									
1.19		cords of trial hole location ed in preparation of task s			I with service draw	ings and s	hall be			
	Ha	hóbyei		-						
1.20	At project handover original service plans (<90days) shall be provided by client or designers to the construction team when activity involves excavation and where overhead services are within 6m of the site boundary. Service plans shall be: Grid referenced. Scaled to be sufficiently detailed and clear to read. Printed in colour. (Master service drawings shall be for reference only)									
	Co	nstruction Works								
1.21		ermit to dig is required fo face penetration activities					uired for			
1.22		ere there is indication of determined.	existence of a se	ervice which is not	shown on a drawir	ng, the rout	te must			
1.23		work closer than the min luding methods of suppor								

Uperstional Safety Stanuzyos 201.)



Avoidance of Services

Revision:	E	Date of Last Review:	01.10.2017	In Force From:	01.10.2009	Page:	4 of 5		
	-		2000 200	_					
	Gas pipes operating at 7bar and above; Underground HV cables-								
	11	 Gas pipes operating a Underground HV cable 							

2,0	Conditions
	Undergrownd Services
-	A Permit to Dig will be used
2.1	All underground services must be located and mapped by trained and competent engineers who have attended, as a minimum, the 2 day service location and mapping training using a vLoc Pro 2 cable and pipe location device.
2.2	The identified services must be spray marked and annotated to identify the type, location and line of the service. The line and location of services shall be maintained using pegs, cones or other non- conductive proprietary markers.
2.3	Cable avoidance tool (CAT 4+, eCAT 4+)/signal generator (or equivalent subcontractor provided device) shall be present and used by trained and competent person in accordance with manufacturer's instructions on site during excavation operations.
2.4	Insulated shovels/spades shall be provided for hand digging around live electrical/gas services.
2.5	Mechanical excavators shall not be used within 500mm of a buried service (or within the exclusion zone stipulated by the service owner if greater) unless written authorisation is received from the service owner and the service has been subjected to additional protection which will prevent damage.
2.6	Copies of service original plans shall be on site, with the Operative(s).
2.7	Flame retardant overalls/clothing shall be worn when working within the exclusion zones of live electric and gas services (detailed above), including hand digging operations.
2.8	Where surveys and service drawings etc. show NO EVIDENCE of buried services in the area to be excavated, mechanical excavators may be used. Task specific RA/MS must specify the safe digging methods to be adopted.
	Overhead Services
2.9	Where overhead services need to be crossed on site, goal posts shall be constructed and positioned in accordance with guidance note GS6 or as recommended (in writing) by the apparatus owner.
2.10	Where site vehicles are required to traffic adjacent to overhead cable routes, the cables must be fenced off in accordance with the GS6 assessment with physical barriers and visible red and white bunting/tape etc. in place, suitability positioned to be obvious to the machine operator.
2.11	Goal posts shall be red and white to aid visibility.
2.12	Warning signage shall be erected at crossing points of overhead services.
2.13	Information signage shall be erected detailing clearances stipulated by the apparatus owner.
2.14	Tipping of soil or materials shall not be permitted within the exclusion zone of overhead services.



Avoidance of Services

Revision:	E	Date of Last Review:	01.10.2017	In Force From:	01.10.2009	Page:	5 of 5
2.15		en tipping in close proxin erations.	nity to overhead :	services exclusion	zones, a Traffic Ma	arshal shal	direct
2.16	1.00	acking, offloading and/or erhead services.	storage of equip	ment or materials i	is not be permitted	d within 6m	of
2.17		e original permit for worki erhead electric cables mu					

3,0	Behaviours
3.1	Everyone shall follow control measures contained within the RA/MS and any OSS associated with the task.
3.2	Where a Permit to Work has been specified for a work activity, Operative(s) shall not carry out the activity until all control measures are in place and the permit has been issued.
3.3	Plant Operators, Delivery Drivers etc. shall not drive under an overhead electric service other than by a designated route.
3.4	Operatives shall not work within the demarcated danger area beneath overhead electric service unless they have been issued with a permit.
3.5	Everyone shall challenge control measures where they are unsure or can suggest a safer way of undertaking the activity.
3.6	Operative(s) shall stop work and notify the Site Supervisor if anything occurs that may affect working methods or control measures identified in the RA/MS.
3.7	Operative(s) shall stop work and contact the Site Supervisor when unknown services are encountered during excavation.
3.8	Operatives shall stop work and notify the Site Supervisor immediately in the event of damage or potential damage to any service.
3.9	Users shall confirm that service location devices have up-to-date calibration prior to use.

Operational Screw/Stampards.2017



Operational Safety Standard 113

Managing and Using Hazardous Substances

Revision:	в	Date of Last Review:	01.10.2017	In Force From:	01.12.2008	Page:	1 of 2
-							
0	Ge	neral					
0.1	de	y deviation from this stand viate form (BIMS 02-04.14 mmencing. A copy of the si) by an Operation	s Manager or Dire	ector prior to the a	activity or p	
0.2	Thi	This standard must be read in conjunction with any relevant client-specific requirements.					
0.3	На	zardous substances includ Substances used dir Substances generat Naturally occurring s Biological agents (e.	ectly in work acti ed during work ac substances (e.g. c	ctivities (e.g. fume lusts, sewage, lea	es from welding, s achate etc.).		
1.0	Pr	ocesses and Records					
1.1		election and use of substant hierarchy of risk control f Eliminate (including Segregate the task Control exposure by spaces). Provide adequate P	or Control of Sub selection of less (move the task an engineering mea	stances Hazardou harmful products way from workers ans (e.g. provide v	us to Health (CoSH i). or workers from t ventilation in excar	IH): he task).	
1.2	cla	Any DSEAR Zones (Dangerous Substances and Explosive Atmospheres Regulations), incl. zone classification codes on site, should be highlighted in the project handover and QES review or where created by work activities it should be covered in the activity RA/MS.					
1.3		The presence of hazardous substances shall be highlighted during site induction. Any DSEAR zones must be labelled on the site plan and at the zones themselves.					
1.4	Risk assessments shall identify hazardous substances that are to be encountered during an activity (including client activities), and CoSHH assessments shall be appended to the risk assessment.						
1.5		VMS should cover potentia confined spaces, DSEAR					g used
1.6	Task specific risk assessments will determine the PPE requirements for DSEAR zone working.						
17	A register of all substances hazardous to health shall be maintained in: The site QES file (construction projects). The office safety file (area offices). The register shall include all hazardous substances, including those provided by subcontractor(s) or third parties.						tor(s) or
1.8		CoSHH assessment shall b sessment of the hazardou		he CMS database	that shall record	the initial	
1.9	de	CoSHH assessments shall tails including delivery, sto volved, working environme	rage, preparation	, use and dispose	al of the substance	e (i.e. those	

OSS 113: Managing and Using Hazardous Substances

Operational Safety Standards 2017.



Operational Safety Standard 113 Managing and Using Hazardous Substances

Revision:	В	Date of Last Review:	01.10,2017	In Force From:	01.12.2008	Page:	1 of 2
1.10	Co	SHH assessments for each	n substance on th	ne register shall be	available.		
1.11	for	ere there is a requirement fumes) these shall be set anufacturer's instructions a	up and operated	by competent per	sons, maintained	in accorda	nce with
1.12		ere the risk includes a flat uipment entering the area					I).
1.13	1 1 1	ere exposure monitoring i ords maintained in the sit		e undertaken by	suitably trained in	dividuals v	rith
1.14		e, first aid and spill clean-u lergency planning with suit			res shall be includ	ded in site	
1.15		orage arrangements shall t bstances that may react w				ation requir	ements,

2,0	Conditions
2.1	CoSHH assessments for current tasks shall be available on site.
2.2	Suitable and sufficient PPE and RPE shall be available to those undertaking the tasks and shall be maintained in good condition and worn correctly.
2.3	All hazardous substances shall be stored in accordance with both the manufacturer's instructions and the CoSHH assessment. Where there is no label on the substance it shall be quarantined and disposed of.

3,0	Behaviours
3.1	All persons shall seek information from line management where they are unsure of procedures and control measures when working with a new or unfamiliar hazardous substance.
3.2	All persons shall follow control measures contained within RA/MS/CoSHH assessment.
3.3	All persons shall only use fire, first aid and spill clean-up equipment if they are trained and competent to do so.
3.4	All persons shall correctly wear the PPE and/or RPE as detailed in the RA/MS/CoSHH assessment.
3.5	People shall only use close-fitting RPE for which they have been face-fit tested. Non-beard wearers shall ensure that they are clean shaven when they are undertaking tasks for which close-fitting RPE is required.
3.6	All persons shall read the hazardous substance container labels to identify the health risk (e.g. harmful, toxic, irritant, corrosive, flammable, mutagenic, oxidising, explosive, etc.).
3.7	People shall only use substances from labelled containers.

Operational Safety Standards 2017

Operational Safety Standard 116

Fire Safety

Revision:	D	Date of Last Review:	01.10.2017	In Force From:	01.12.2009	Page:	1 of 3
0	Ge	neral					
0.1	dev	deviation from this stand riate form (BIMS 02-04.14 activity or process comments	, see document libr	ary) by an Operation	s Manager or D	irector pr	rior to
0.2	This	s standard must be read in	n conjunction with a	ny relevant client-sp	pecific requirem	ents.	
0.3		npetent responsible perso appointed for company ow			n [Fire Safety] O	rder 200	5) shall
0.4	Onl	y Site Supervisors who have	s (as defined in the Regulatory Reform [Fire Safety] Order 2005) sha ad or leased offices. completed fire safety awareness training may assume the role of F				

1.0	Processes and Records
1.1	In offices owned or leased by the company, fire safety risk assessments shall be undertaken and reviewed annually.
1.2	Site based fire safety risk assessments shall be undertaken prior to commencement of site works (and reviewed at least monthly).
1.3	Fire safety risk assessments shall be prepared using the company standard templates (the latest versions of which shall be stored in the document library).
1.4	Visitors should be accompanied at all times. Upon arrival, visitors to offices and sites shall be made aware of what to do in the event of a fire.
1.5	Signing in/induction registers shall be maintained to record a visitor's attendance to offices and sites. Information on the time of weekly fire alarm tests, escape routes and assembly point locations should be prominently displayed in all meeting rooms.
1.6	Competent Fire Wardens shall be appointed. Arrangements shall be made to ensure cover during periods of absence. The Fire Warden shall be named in the CMP, with cover arrangements to be listed there also.
1.7	Equipment that could cause fires shall be regularly tested / inspected and records maintained e.g. fixed electrical equipment - 5-yearly. fixed gas appliances - annually. portable appliances in accordance with the company schedule (maintained by the Plant Department).
1.8	All offices and sites shall have a method of raising the alarm and it shall be tested weekly. All inducted personnel and visitors to be made aware of this method.
1.9	 Where present, Fire systems shall be tested by a competent person: alarm panels - annually (by external engineer). call points - quarterly (by JN Bentley competent person). smoke detection - quarterly (by external engineer). sounders - annually (by external engineer).

Operational Safety Standone: 2017



Fire Safety

Revision:	D	Date of Last Review:	01.10.2017	In Force From:	01.12.2009	Page:	2 of 3
1.10	1.2	e extinguishers shall be tes t/inspection.	sted/inspected ann	ually. A label shall c	learly display the	e date of	Į.
1.11		offices and sites, fire drill sessment or at intervals no			d by the fire saf	ety risk	
1.12		offices owned or leased by ire Warden's log contained			st records shall	be maint	ained in
1.13	Site	e based weekly inspection	s shall ensure that t	fire safety arrangem	ents are being r	naintain	ed.
1.14	Ho	t works activities shall only	be undertaken und	der permit to work o	ontrol.		

2.0	Conditions			
2.1	Flammable liquids and liquefied gas shall be stored in ventilated, lockable storage containers.			
2.2	Fuel shall only be stored and/or transported in containers designed for this purpose.			
2.3	Combustible materials shall be kept to a minimum and stored away from sources of ignition.			
2.4	In offices owned or leased by the company, fire plan drawings shall be displayed adjacent to main fi panels.			
2.5	Fire action notices displaying the means of raising the alarm, location of the assembly point and names of Fire Wardens shall be displayed adjacent to final exits.			
2.6	All sites and offices must be able to contact the emergency services at all times.			
2,7	Exit routes shall remain unobstructed at all times and should be inspected regularly.			
2.8	Fire assembly points shall be positioned away from harm and clearly signed.			
2.9	The following Fire Safety signage shall be displayed:			
	 Call-point signs (where they are fitted). Fire extinguisher notices - including extinguisher type. Running man signs (where fire safety risk assessment requires). Fire exit and push-bar signs where fitted. Keep clear signs to fire exit exterior. Fire door keep shut signs. Assembly point signs. 			
2.10	Fire extinguishers shall be located adjacent to final exits and other necessary locations identified in fire safety risk assessment. They can be either floor or wall-mounted and must be maintained in their designated position to be immediately available to aid escape in case of emergency.			
2.11	Fire extinguishers on sites (including site offices, storage and welfare facilities) shall be dry powder unless the fire safety risk assessment determines otherwise. Pins and seals shall be fitted and intact			
2.12	Types of fire extinguishers in all permanent offices shall be determined by the office fire safety risk assessment. Pins and seals shall be fitted and intact.			

Operational Safety Standards 2017

Operational Safety Standard 116

Fire Safety

Revision:	D	Date of Last Review:	01.10.2017	In Force From:	01.12.2009	Page:	3 of 3
2.13	bui	Smoking' notices shall be Idings under construction) vision for the safe extingui	Designated smoki	ng areas should be	provided and ha		

3.0	Behaviours
3.1	Persons shall observe no smoking policies and only smoke in designated areas.
3.2	Persons shall follow fire evacuation procedures if the alarm is raised.
3.3	Persons shall obey instructions given by Fire Wardens.
3.4	In the event of an alarm, no-one shall re-enter offices or site facilities unless instructed by a Fire Warden or the Fire Brigade.
3.5	No-one shall interfere with equipment provided for fire prevention.
3.6	Where a signing in system is in use at office/site locations, all visitors must comply with its requirements.

OSS 116: Fire Safety

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JN Bentley Ltd

Golden Rules, General Site Rules

(Requirements for Suppliers Revision L - Appendix B)

10 Golden Rules.

1 Daily Briefings

Hold one every shift before work starts.



6 Danger Zones

Do not enter danger zones around plant without a Thumbs Up!



2 Permits All control measures listed are in place and

listed are in place and permit signed before starting work.

3 Routes

4 Lifting

no lift.

5 Buried

location.

Services

Must be marked and pegged to identify their

Use the correct pedestrian/vehicle/ plant route.

No approved lift plan,



Edge Protection

Nobody is on the 'wrong' side without fall arrest/restraint.

8 Seatbelts

If one is fitted, you must wear it.

9 Technology

Only use in agreed safe areas explained in your induction or daily briefing.

10 Incidents

Prevent it, sort it, report it.

Berritery 8

"If we cannot do it safely, we will not do it."

Our 10 Golden Rules set out our basic standards that we expect everyone on our sites to meet at all times. Non-compliance may result in disciplinary action or removal from site.





Site Rules

Site Inductions - You must have one before starting work Risk Assessment/Method Statement - Understand it and sign it before starting work COSHH assessments - Read and understand them before using the substance Welfare facilities - Use them and maintain them as intended Personal hygiene - Ensure a good standard before eating Plant, tools and equipment - Check them prior to use Site signage - Follow the requirements Permits - Must be in place for:

Standards

ication

- Confined Space entry
- Excavations (where required by OSS101)
- Hot Work
- Work on Live Electrical installations
- Other activities as required (eg work on fragile roofs or within 6m of O/H Electric Lines)
- Company cars/vans Only drive them if authorised

Waste disposal - Use the correct skip/bin and store them to discourage vermin

Housekeeping - Keep work and storage areas tidy

Clothing - No shorts, hats under helmets or removal of tops

Radios and iPods etc. - Do not use them on site

COSHH storage - Safe and away from potential environmental impact

Engines - Switch them off when not in use

Pollution - Prevent pollution to surface water drains and sewers etc.

Fires - Not allowed on site

J N Bentley / Mott MacDonald Bentley Site Rules have been developed in response to those situations that present hazards, in both Health & Safety and Environmental terms, to construction sites. JN Bentley and Mott MacDonald Bentley Site Rules exist for the protection of all persons working on or visiting site or affected by our site operations and in addition will help to minimise the impact our operations have on the local ecology.

Adherence to Site Rules is compulsory for all persons attending site and non-compliance may result in exclusion from site.

Disciplinary proceedings may be initiated against employees who either disregard site rules or who display a poor attitude when challenged. Non-JNB personnel should expect to be challenged and their employer may be informed.

JN Bentley Ltd

Example Risk Assessment / Method Statement

(Requirements for Suppliers Revision L - Appendix C)

Please Note:

A Risk Assessment and Method Statement (RA/MS) is a working document and should be tailored to each project. The following example of RA/MS is a guideline document only which outlines the main topics we might expect to see in RA/MS for activities being planned on our sites. The suggested headings should not be considered to be a definitive list. Suppliers may use the JNB template but JN Bentley Ltd accepts no responsibility for the suitability of risk control measures detailed in Supplier generated risk assessments.

I N Benday Management Systems



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Risk Assessment / Method Statement

General Information

Contract Name:	Contract No:	
Activity:	Location:	
Initial RA / MS prepared by:	Date:	
RA / MS Reference No:		

Review and Revision Details

	review	Amended (Yes / No)	Reviewed / Amended By	Reason for Amendment
A		-	-	First Issue

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Farm No. BIMS 02-04.3

IZ- Revision X Dale 28/09/2017

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Risk Assessment / Method Statement

Section 1 - Risk Assessment - Health & Safety

	Fatality	MEDIUM	HIGH	VERY HIGH	VERY HIGH	
RITY	Reportable Injury	LOW	MEDIUM	HIGH	VERY HIGH	
SEVERI	Lost Time Injury	LOW	MEDIUM	MEDIUM	HIGH	
	Minor Injury	LOW	LOW	MEDIUM	MEDIUM	
		Remote	Possible	Likely	Very Likely	
J N Bantiey Risk Matrix		PROBABILITY				

Hazard	Person(s) at Risk	Risk Level	Control Measures	Residual Risk
SHOW STOPPE	ERS' (Initial Risk Level Very Hi	gh or High)		
			•	
-		-	•	
			•	
GENERAL				
			INHELLE	
HIGH FREQUE	NCY, LOW RISK'	<u> </u>		+
		S. C	•	
			•	
		1.		
		1	•	
			•	
HAZARDS TO H	EALTH (E.g. Noise / Vibration	/ Respirable Ha	azards / COSHH)	1
		1	•	
		-		
			•	

J N Bentley 2017

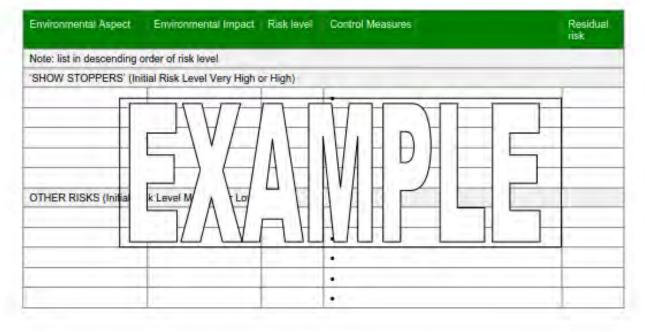


BIMS 02-04.3

Risk Assessment / Method Statement

Section 2 - Risk Assessment - Environmental

J IN BENUEY KISK WURDA		PROBABILITY				
J N Bentley Risk Matrix		Remote	Possible	Likely	Very Likely	
	Category 4 No Harm	LOW	LOW	MEDIUM	MEDIUM	
SEVERIT	Category 3 Harm	LOW	MEDIUM	MEDIUM	HIGH	
RITY	Category 2 Harm	LOW	MEDIUM	HIGH	VERY HIGH	
	Category 1 Harm	MEDIUM	HIGH	VERY HIGH	VERY HIGH	



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Risk Assessment / Method Statement

Section 3 - Risk Assessment - Quality

٤	Severe	MEDIUM	HIGH	VERY HIGH	VERY HIGH
VERI	Moderate	LOW	MEDIUM	HIGH	HIGH
ß	Minor	LOW	LOW	MEDIUM	MEDIUM
J N Bentley Risk Matrix		Remote	Possible	Likely	Very Likely
		PROBABILITY			

Quality Aspect	Quality Impact	Risk level	Control Measures	Residual risk
Note: list in descending 'SHOW STOPPERS' (pr Hig		E
OTHER RISKS (Initial				
			•	
		-	•	
		(i i		

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	/201	



BIMS 02-04.3

Risk Assessment / Method Statement

Where vibration exposure times are calculated these will be based on the 2.5m/s² (100 points) exposure limit value (ELV Source of Hand Arm Vibration Specific Use Weighted Acceleration (m/s*) Maximum Exposure Time (mins) Anticipity Dily Exp Exposure Time (mins) Whole Body Vibration (f) Image (mins) Image (mins) Image (mins) Anticipity (mins) Whole Body Vibration (f) Image (mins) Image (mins) Image (mins) Image (mins) Whole Body Vibration (f) Image (mins) Image (mins) Image (mins) Image (mins) Image (mins) Whole Body Vibration (f) Image (mins) Imag	Section 4	Vibration and M	loise from Plant / Equipmen	t/Too	ls		
Source of Hand Arm Vibration Specific Use Weighted Acceleration (m/sr) Maximum Permitted Exposure Time (mins) Anticip Daily Ex Time (n (mins) Whole Body Vibration (Plant to be Plant to be Image: Anticip Plant to be Plant to be Image: Anticip Plant to be Plant to be Image: Anticip Plant to permit Plant Plant Plant Plant Equipment noise also affects people working adjacent to the operator. Keep a safe distance or wear ear do (YN) Noise Source Specific Use Noise Level dB(A) Hearing Pro (YN) Section 5 Hazardous Substances The following substances will be used or may be encountered during this activity. Detailed COSHM assessments are hearing the safety flie, the control measures required will be briefed to the personnel involved prior to work commencing.		Contraction of the second s	Contraction of the second s			ctivity. Figures fi	or noise and vibration
Source of Hand Arm Vibration Specific Use Weighted Acceleration (m/s*) Maximum Permitted Exposure Time (mins) Anticip Daily Ex Time (n Whole Body Vibration Image: Control of the	Hand Arm Vib	bration (HAVS) this	table should be viewed in cor	ijunctio	n with the "HAVS Ca	alculator" for deta	ils of cumulative use
Source of Hand Arm Vibration Specific Use Weighted Acceleration (m/s*) Permitted Exposure Time (mins) Antrop Daily Exp Time (not the mins) Whole Body Vibration (Plant to be Plant to be Plant to be Image: Note that the plant to be Plant to be Plant to be Plant to be Plant to be Plant to be Image: Note that the plant to be Plant to be Plant to be Plant to be Plant to be Plant to be Plant to be Image: Note that the plant to be Plant to be plant to be plant the plant to be plant that the plant to the the plant to the plant to the plant to the plant to the the to the the to the to the to the to the the to the	Where vibratio	n exposure times a	re calculated these will be bas	ed on t	he 2.5m/s² (100 poi	ints) exposure lin	nit value (ELV)
Plant to be Pa			Specific Use	A		Permitted Exposure Tim	Anticipated Daily Exposure Time (mins)
Plant Tool and Equipment noise also affects people working adjacent to the operator: Keep a safe distance or wear ear do Noise Source Specific Use Noise Level dB(A) Hearing Pro (Y/N) Section 5 Hazardous Substances Image: Section 5 Hazardous Substances The following substances will be used or may be encountered during this activity: Detailed COSHH assessments are he site safety file; the control measures required will be briefed to the personnel involved prior to work; commencing.	P All plant of	perating on JN Ben	ley sites must have a manufa	structio	provided exposure provided exposure	a part that is name in part that is name is regularly tyres, where applica- ect pressure with the JNB Work	ing Time Policy
Noise Source Specific Use Noise Level dB(A) Hearing Pro (Y/N) Section 5 Hazardous Substances Hearing Pro Hearing Pro The following substances will be used or may be encountered during this activity. Detailed COSHH assessments are he site safety file; the control measures required will be briefed to the personnel involved prior to work commencing.						a sala distance i	or wear any defender
The following substances will be used or may be encountered during this activity. Detailed COSHH assessments are he site safety file; the control measures required will be briefed to the personnel involved prior to work commencing.	, and rear line						Hearing Protection (Y/N)
The following substances will be used or may be encountered during this activity. Detailed COSHH assessments are he site safety file; the control measures required will be briefed to the personnel involved prior to work commencing.							
site safety file; the control measures required will be briefed to the personnel involved prior to work commencing.	Section 5	Hazardous Sut	estances				
Manadam Substance COSMM Assessment Bat Breastland (Sick Contrain							
nacarulaus aussance Guarin Assessment Rer Precautions / Rise Gantrals	Hazardous Sub	stance	COSHH Assessme	nt Ref	Precautions / Risk	Controls	

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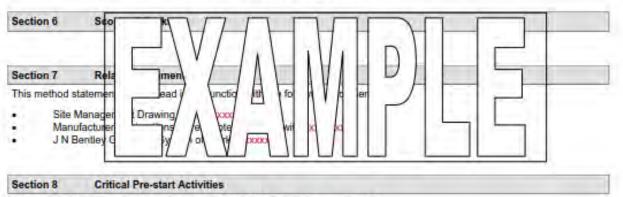


BIMS 02-04.3

Risk Assessment / Method Statement

Is a Methodology required?	Yes	No
Following the detailed assessment of Hazards, risk and control measures, is a written Methodology required?		
If the answer is No the severity and consequence of an injury, environmental or quality incident must b measures in the form of Site Rules, Golden Rules etc must be sufficient and adequately briefed to those		
If a written Methodology is not required then omit Section 9 (Approach / Methodology), only.		

Method Statement



Prior to work commencing on the activity, the following items must be completed:

E.g. Client permit / handover

Section 9 Approach / Methodology

After completion of all the above pre-start activities, work will commence following the procedure below. If at any point something changes which requires amendments to the following procedure, work must be stopped and the risk assessment reviewed and methodology rewritten. Under no circumstances must work be carried on outside of this procedure.

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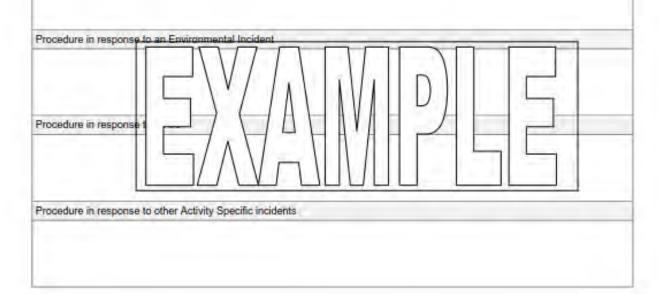
BIMS 02-04,3

Risk Assessment / Method Statement

Section 10 Emergency procedures

Certain activities will require the development of specific emergency procedures. Examples include confined space entry, working from MEWP/MCWP, roof work, working in proximity to overhead power cables, working in areas that are hazardous to health e.g. presence of substances/chemicals whether they are present as part of Client operations or as part of our activities. This section shall be completed in these events and shall contain details of the procedure to be followed, the names of responsible persons, their roles and contact numbers/details

Procedure in response to a Safety Incident



Section 11 Personal Protective Equipment

In accordance with Company site rules, personnel must wear hard hats, safety boots and high visibility jackets / vests and gloves at all times in work areas. On some of our Frameworks; light eye protection is also mandatory. In addition to mandatory PPE; the work covered by this method statement also requires:

Light eye protection	Face fitted RPE	Waterproofs	
Medium impact goggles	Safety wellingtons	Life Jacket / Preserver	
Hi-viz jacket / vest (yellow)	Hamess	Gauntlets	
Ear plugs	Restraint Lanyard	Cut resistant gloves	
Ear muffs	Fall Arrest Lanyard	Other (describe)	
Other (describe)	Other (describe)	Other (describe)	

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Risk Assessment / Method Statement

Section 12 Permits to Work

The following Permits to Work will be required for this activity (refer to OSS 004);

Section 13 Labour

b Title / Designation	Number	Specific Training / Competence Required

Section 14 Management and Supervision

Implementation of the approach / methodology and various risk control measures identified in this risk assessment and method statement will be monitored by the Site Supervisor with the assistance (where applicable) of the Site Engineer / Works Manager / Foreman / Lead Hands. Details as below:

Site Supervisor Name:

Role:

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Risk Assessment / Method Statement

Section 15. Briefing

Before any work commences, the Site Supervisor will ensure that a briefing is provided for all personnel involved in carrying out this work activity.

The work activity briefing is intended to be a two-way process and all operatives are expected to challenge the proposed approach, particularly if they feel that a safer and more practical work method can be adopted.

All personnel will sign below to confirm that they understand the content of this risk assessment and method statement.

Name (Print)	Name (signature)	Company	Date



BIMS 02-04.3

Risk Assessment / Method Statement

Section 16 Management of Change Record

Date	Details of change to methodology / environment	Additional Hazards and Control Measures documented in RA (Sections 1 / 2 / 3) (Y / N)	Changed Approved by (sign)

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JN Bentley Ltd

Example PUWER Daily & Weekly Inspections, LOLER Weekly Inspections & CoSHH Assessment

(Requirements for Suppliers Revision L - Appendix D)

The following examples are for guidance only and the suggested formats should not be considered as indicative of legal compliance but the appropriate use of the templates will constitute compliance with JN Bentley/MMB Management System requirements. Suppliers must make their own assessment of how to comply with legal requirements.

Contra	ct name:				✓ Ir	order	/ satis	factory	//serv	/iceable	e
Contra	ct no:			Key:	N/A	ot in o Not Ap	plicat	le		ntion ly basis	
Week	ending				~~~~					,	
Machir	ne			Operator's name(s)							
Plantr	umber			name(s)							
Item	Daily Che	ake.		I				Days			_
No:	Daily Che	PCRS			М	Т	W	Т	F	S	
1		e undercarriage – tr and guarding	acks, idler and main d	rive sprockets,							
2a	Check Au	tomatic Quick Hitch	for damage and safe	operation							
2b	Check Ma	Check Manual Quick Hitch for damage and safe operation								Ι	
3		heck for damage around hydraulic cylinders, linkages and hydraulic oses. Hoses to be clipped and secure									
4			nydraulic, transmissio cmachine is greased	n oils and coolant							
5	Check that secure.	at hand-rails for cab	and top of the engine	compartment are							
6	Check that correctly	that windows are clean and that mirrors are clean and adjusted stly.									
7	Check that	Check that the seat is adjusted for position and driver weight								\vdash	
8	Check the are not da	e seat belt catch, we amaged and are sec	bbing and anchor poi ure. Operation of gree	nts to ensure they en beacon							
9		Check windscreen wipers are operating and clearing windscreen adequately									
10	Check lights, horn, safety decals, handholds and footsteps - Check function of control lamps, travel lights, working lights,										
11	Check that	Check that all cab instruments and warning lamps are working									
12	Check op	eration of Safe Loa	d indicator (Prolec)								
	Operator										

If an "X" is placed in any of the above boxes fill in the comments box (below) AND inform the Site Manager

······································					
Item No:	Defect details / Comments				
	_	1			
Operator Declar	ration	1	Site Manager Dec	laration	
	nave carried out the above checks at the frequency ave reported all faults and defects		I declare that I have identified by the o	ve reviewed and actioned the faults and defects perator.	
Signed:	Print: Name:		Signed:	Print: Name:	
Plant Office Q	omments ;		-		
			sigr	ned:	

LOLER REGISTER REPORT OF WEEKLY INSPECTION OF LIFTING ACCESSORIES



CONTRACT NAME:		CONTRACT REF:	INSPECTION CARRIED OUT BY:		
DATE OF INSPECTION	DESCRIPTION OF EQUIPMENT AND MEANS OF IDENTIFICATION	SWL	RESULTS OF INSPECTION	SIGNED	NEXT INSPECTION
				*	
				*	
				*	
				*	
TH	WEEKLY INSPECTION OF LIFTING ACC	CESSORIES SHALL ONLY BE	E CARRIED OUT BY A SUITABLY TRAINED, COMPETENT AN	D AUTHORISED PERSO	NI NI

Subcontractor Weekly PUWER Inspection Register

Site Name and Contract Number:	Subcontractor Company	Inspection Carried out by;	B Rolling Involvements Mentioning
Identification Number	Description of Equipment (Name, Type)	Results of Visual Inspection (OK / Faulty or Damaged)	Action Taken (N/A, Quarantined, Disposed of)
Eg JNB 001	Eg Stihl Saw TS 410	Faulty trigger	Quarantined for repair

DATE OF INSPECTION	 SIGNATURE	
DATE OF INSPECTION	SIGNATURE	



"If we cannot do it safely, we will not do it."



Arosedures

Sero

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JN BENTLEY	JN BENTLEY	Main 01	Sub	0	IMC	8028
	ESSO MOTOR GASOLINE (PETROLS) ROLEUM COMPANY LIMITED	Keyword Petrol Date 09/04/2010 Contents Gasoline-, Benzene <5	%,	HIGH HAZARD LIQUID Exp Limit Gasoline- 1ppm 8hTWA WEL	Hazards	
THROUGH INHALATIO MAY CAUSE CANCER MAY CAUSE HERITAB HARMFUL: MAY CAUS MAY CAUSE EYE IRRI Do not breathe in vaj When using do not e Avoid contact with sk Spillage VENTILATE AREA ANI	oour at, drink or smoke in and eyes D EXCLUDE ALL SOURCES OF IGNITIO	WALLOWED	Risk Assessment Method: Pouring Area: Outside Exposure Time: U Control Measures	5 p to 1/2 hour daily PROTECT HANDS	If LEV used, monitor to ver	monitoring or for one-off tasks. fy it controls to below the OEL
DO NOT ALLOW UNC COURSES WEAR NITRILE GLOV WEAR EYE PROTECTI WEAR RPE WITH ORG WEAR PROTECTIVE C ABSORB IN SAND OR COLLECT INTO A COI DISPOSE OF USING S First Aid NHALATION - REMO NGESTION - DO NO NGESTION - GIVE P	ON IF SPLASH LIKELY	EAR	KEEP SKIN COVERED	NITRILE NITRILE IF SPI LIKI VASHBASIN WASH AFTER USE	ASH AND AND GING CLOSE CONTAINER	PORTABLE OR EN405 FFA2
EYE - IRRIGATE WITH WATER FOR AT LEAST 15 MINUTES SKIN - REMOVE CLOTHING & WASH CONTAMINATED AREA WITH WATER GET PROMPT MEDICAL ATTENTION Fire ISOLATED SMALL SCALE FIRE: POWDER - FOAM - CARBON DIOXIDE (CO2) DO NOT USE WATER LARGE FIRE: EVACUATE AREA, CALL FIRE BRIGADE OR FOLLOW SITE PROCEDURE WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TOXIC FUMES ARE PRODUCED WHEN SUBSTANCE IS INVOLVED IN A FIRE KEEP CONTAINERS COOL WITH WATER SPRAY		Considerations			Details If using engineering controls/non disposable PPE ensure maintenance (reg 9) Consider monitoring (COSHH reg 10) Consider urine checks (reg11)	
			This assessment w sheets. Safety in t subscriber.	vas compiled by Sypol Lim he use of assessments is t	ited from supplier's safety data he responsibility of the	Printed 09/11/2010

Exposure Scenario



ID#:	47702	User making request:	Carolyn Dobson
Fax:		Phone:	01756706870
Email:	carolyn.dobson@jnbentley.co.uk		
Assessment code:	8028	Trade name:	ESSO MOTOR GASOLINE (PETROLS)
Supplier code:	263	Supplier:	ESSO PETROLEUM COMPANY
Supplier Phone:	01235 521600		
Keyword:	Petrol	Frequency of use:	Daily
Approximately how much of the material is used by one person in one working day:	5L	How many people are directly exposed?:	1
Are any others exposed?:	N	How are they exposed?:	
Are there any susceptible workers?:	N	Susceptible Categories:	
Other info:		Is this material being used outside of the normal temperature range?:	
Additional work practices:		or the normal temperature range :.	N
Existing Control measures:	PPE		

Method	Area	Exposure
Pouring	Outside	Up to 1/2 hour daily
	Sub Area Code	
	all and the set	Pouring Outside

COSHH Control Sheet



REQUEST DETAILS	#ID:	47702	User making request: Caroly	n Dobson
MATERIAL DETAILS	Assessment Code:	8028	HIGH HA	ZARD
Trade Name:	ESSO MOTOR GASOL	INE (PETROLS)	Supplier: ESSO PETROLEUM C	OMPANY LIMITED
ACTIVITY DETAILS		d'		
Act No. M	athod	Area	Exposure	
5 Pc	uring	Outside	Up to 1/2 hour daily	
SCENARIO DETAILS	Additional Work Practi	ices:		
Approximately how much of is used by one person in on day:		Frequency of use: Daily	How many people are 1 directly exposed?:	
Are any other people expose	ed?: N	How are	they exposed?:	
Are there any susceptible w	orkers?: N	Suscept	tible Categories:	
CONSIDERATIONS				Answer
Procedures to condu	t exposure monitoring are in	n place.		YES
Not considered	requisite under this exposu	re scenario		
Procedures to underf	ake urine tests are in place.			YES
Not considered	requisite under this exposu	re scenario		
Has the elimination o	substitution of this material	been considered?		YES
Considered rec	uisite under this exposure s	cenario		
Have you implement	d the use of the engineerin	g controls before resorting to the use	of RPE?	YES
	uisite under this exposure s	cenario		
Considered rec		withhy trained in its correct use main	tenance, and storage and been fit	YES
	rided with necessary RPE, s	suitably trained in its correct use, main		
Are all personnel pro tested where required	vided with necessary RPE, s l? uisite under this exposure s			

JN Bentley Ltd

Supplier Temporary Works Guidance

(Requirements for Suppliers Revision L - Appendix E)

Temporary Works Information for Suppliers

JN Bentley procedure BIMS02-13 Management of Temporary Works is available on request; the following is a précis of the document offering guidance to JN Bentley appointed suppliers on JN Bentley procedural compliance.

Temporary works (TW) are defined as (but not limited to) any process or structure which is required to complete the permanent works.

Examples include:

- Scaffolding
- Cofferdams
- Battered or supported excavations
- Falsework and formwork
- Crane bases
- Crane outrigger pads
- Piling mats/platforms
- Overpumping/dewatering operations
- Pipe testing related constructions
- Access/haul roads
- Demolition and dismantling operations
- Permanent works used or in a temporary state
- Temporary electrical or mechanical installations

Coordination of Temporary Works

An individual with responsibility for the implementation of the temporary works procedure (supplier or JNB) and for the coordinating of the temporary works design, provision, use and removal shall be appointed as Temporary Works Co-ordinator (TWC). This role will default to the JNB contract manager or JNB site manager (as appropriate) in the absence of a suitable appointment by the supplier. Only individuals with proven competency in temporary works coordination may fulfill this appointment.

Temporary Works categorisation

JN Bentley temporary works process requires that TW are categorised dependent upon the level of risk associated with their use (risk may be financial, environmental, safety or reputational etc.). The categorisation will dictate the level of design, checks and supervision required.

E.g. A scaffold bridge carrying pedestrians across a river is likely to have greater requirements than a 1 metre deep excavation in a green-field site.

Under JN Bentley Temporary Works Procedure, certain temporary works can be justified without calculation by the Temporary Works Co-ordinator who is appointed to that project.

The following list of temporary works (not exhaustive) will always require "Design by Calculation".

- All scaffold exct those defined as Basic by TG20:13
- Sheet piling or other shoring to excavations/Bored piles
- Protection to services under haul/access roads may need design/additional consideration
- Complex dewatering schemes especially where dewatering has potential to affect surrounding structures and/or other operations
- Formwork to walls over 2m high and formwork not sited on the ground
- Soffit Formwork
- Formwork which includes/incorporates pedestrian access platforms
- Falsework
- Piling mats
- Electrical connection of cabins/site welfare to existing electrical supplies
- Cranes bases for tower cranes
- Crane pads for mobile cranes
- Temporary bridges and their abutments
- Pipework test ends and temporary thrust blocks

For items not on this list, or if in any doubt as to whether a design by calculation is required the TWC shall consult the contracts manager, QES Advisor or a temporary works champion.

Design and Acceptance

Where required suitable temporary works designs shall be prepared and checked by competent people with copies appended to the task specific risk assessment and method statement prior to works commencing in line with OSS 002. Designers and checkers shall not be one and the same person. Designs must be provided to the TWC for review prior to installation / construction

Installation and Removal

The Temporary Works Co-ordinator (JNB or supplier) shall ensure that supplier temporary works are installed and removed in line with relevant design or guidance as appropriate. The TWC may require the use of permits to introduce hold points at key stages of the installation or removal.

Schedule

The supplier will, on request, provide a schedule of planned temporary work including such details as those listed below (see table headers)

|--|

FURTHER INFORMATION RELATING TO THE MANAGEMENT OF TEMPORARY WORKS ON JNB SITES IS AVAILABLE IN BIMS 02-13 ON REQUEST AND ELECTRONICALLY ON SITE VIA THE JNB SITE SUPERVISER

JN Bentley Ltd

Extract from the Abridged Version of the Management Risk Assessment

(Requirements for Suppliers Revision L - Appendix F)

Management Risk Assessment

	Operational Tasks with an OSS
OSS	Activity/task
100	Site establishment and maintenance
100a	Installing Electrical supplies to site welfare facilities
101	Working in excavations
102	Mechanical Lifting operations
103	Working on or connection to live electrical Installation.
104	Use of scaffolding
105	Lone Working
106	Use of mobile/heavy plant
106	Use of portable electrical tools
106	Use of static and portable plant and equipment
108	Working in Confined Spaces
109	Working at height
110	Working with false work and formwork
111	Working near Overhead and Underground services
113	Use of hazardous substances
116	Activities involving the risk of fire

Contents

Operational Tasks without an OSS
Activity/task
Design and Installation of Temporary Works
Liquefied Petroleum Gas and highly Flammable liquid storage (LPG/HFL)
Loading and unloading of equipment and materials
Demolition Activities
Work on or adjacent to footpaths/highways
Bomb threats/discovery of UXB
Working excessive hours
Work in darkness or hours of darkness/night working
Drugs and Alcohol and working in areas of drug use (needles)
Working on water treatment facilities and infrastructure
Working on clean water supply facilities and infrastructure
Working on Fire Precautions systems (alarms, sprinklers etc)
Working with multi ethnic workforce
Working on Slopes (plant and operatives)
Working on/near water

Activity/task Work involving Lead Work involving Asbestos Work involving the risk of Musculoskeletal injury Work involving noise Work involving dust Work involving Display Screen Equipment Work involving vibration HAV/WBV Work involving the risk of Legionella Work involving the risk of Leptospirosis (Weil's Disease) Work involving the risk of skin disease Work involving the risk of skin disease Work in Radon Gas areas	Work involving Lead Work involving Asbestos Work involving the risk of Musculoskeletal injury	
Work involving Asbestos Work involving the risk of Musculoskeletal injury Work involving noise Work involving dust Work involving Display Screen Equipment Work involving vibration HAV/WBV Work involving the risk of Legionella Work involving the risk of Leptospirosis (Weil's Disease) Working with radiation (ionising and non-ionising) Work involving the risk of skin disease	Work involving Asbestos Work involving the risk of Musculoskeletal injury	
Work involving the risk of Musculoskeletal injury Work involving noise Work involving dust Work involving Display Screen Equipment Work involving vibration HAV/WBV Work involving the risk of Legionella Work involving the risk of Leptospirosis (Weil's Disease) Working with radiation (ionising and non-ionising) Work involving the risk of skin disease	Work involving the risk of Musculoskeletal injury	
Work involving noise Work involving dust Work involving Display Screen Equipment Work involving vibration HAV/WBV Work involving the risk of Legionella Work involving the risk of Leptospirosis (Weil's Disease) Working with radiation (ionising and non-ionising) Work involving the risk of skin disease		
Work involving dust Work involving Display Screen Equipment Work involving vibration HAV/WBV Work involving the risk of Legionella Work involving the risk of Leptospirosis (Weil's Disease) Working with radiation (ionising and non-ionising) Work involving the risk of skin disease		
Work involving Display Screen Equipment Work involving vibration HAV/WBV Work involving the risk of Legionella Work involving the risk of Leptospirosis (Weil's Disease) Working with radiation (ionising and non-ionising) Work involving the risk of skin disease	Work involving noise	
Work involving vibration HAV/WBV Work involving the risk of Legionella Work involving the risk of Leptospirosis (Weil's Disease) Working with radiation (ionising and non-ionising) Work involving the risk of skin disease	Work involving dust	
Work involving the risk of Legionella Work involving the risk of Leptospirosis (Weil's Disease) Working with radiation (ionising and non-ionising) Work involving the risk of skin disease	Work involving Display Screen Equipment	
Work involving the risk of Leptospirosis (Weil's Disease) Working with radiation (ionising and non-ionising) Work involving the risk of skin disease	Work involving vibration HAV/WBV	
Working with radiation (ionising and non-ionising) Work involving the risk of skin disease	Work involving the risk of Legionella	
Work involving the risk of skin disease	Work involving the risk of Leptospirosis (Weil's	Disease)
	Working with radiation (ionising and non-ionisin	g)
Work in Radon Gas areas	Work involving the risk of skin disease	
	Work in Radon Gas areas	

Bentley & MMB

Management Risk Assessment

External Guidance Documents

Reference	Approved Code of Practice	Reference	Approved Code of Practice	
.5	Control of Substances Hazardous to Health Regulations (CoSHH) 2002	HSG17	Safety in the use of abrasive wheels	
_8	Legionnaires disease - The control of legionella bacteria in water systems	HSG47	Avoiding danger from underground services	
L22	Safe use of Work Equipment	HSG51	The storage of flammable liquids in containers	
L23	Manual handling	HSG65	Successful health & safety management	
L24	Workplace health, safety and welfare	HSG107	Maintaining portable and transportable electrical equipment	
L25	Personal protective equipment at work	HSG140	Safe use and handling of flammable liquids	
L26	Work with display screen equipment	HSG144	The safe use of vehicles on construction sites	
L74	First aid at work	HSG150	Health & Safety in construction	
L82	A guide to the Pipelines Safety Regulations 1996	HSG151	Protecting the public - Your next move	
L101	Safe working in confined spaces	HSG159	Managing contractors - A guide for employers	
L108	Controlling noise at work	HSG168	Fire safety in construction	
L113	Safe use of lifting equipment	HSG170	Vibration solutions – Practical ways to reduce the risk of hand arm vibration injury	
L117	Rider operator lift trucks	HSG253	The safe isolation of plant and equipment	
L121	Work with ionising radiation	HSG53	Respiratory protective equipment at work – A practical guide	
L132	Control of lead at work	HSG247	Asbestos – The licensed contractors guide	
L138	Dangerous substances and explosive atmospheres			
L140	Hand arm vibration	All of the external guidance documents listed here may be utilised to augment the JNB police		
L141	Whole body vibration	documents for the construction activities we undertake. All of the documents listed here are available for download from the Health & Safety Executive at http://www.hse.gov.uk/		
L143	Managing and working with asbestos - Control of asbestos 2012			
L144	Managing health and safety in construction	For additional	guidance and advice, contact your local QES Advisor	
L114	Safe use of woodworking machinery			