

# **D J MACAULAY (Construction) Ltd.**

## **HUNTERSTON NATIONAL OFFSHORE WIND TURBINE TEST FACILITY METHOD STATEMENT**

### **STEEL FIXING**

<b>Record of Review</b>					
<b>Revision</b>	<b>Prepared by</b>	<b>Checked by</b>	<b>Date Issued</b>	<b>Reviewed By</b>	<b>Date of Review</b>
0	DM	SW	27/05/13		

<b>Amendment Record</b>		
<b>Previous Rev.</b>	<b>New Rev.</b>	<b>Details of amendment</b>

Method Statement prepared by A Watson (All-Safe 10/03/06)

### **HEALTH AND SAFETY RESPONSIBILITIES:**

Overall responsibility for health and safety rests with Mr. Donald John MacAulay, Managing Director. Responsibility for health and safety devolves from Mr. MacAulay to the individual site operatives. The “responsible person”, as required under regulation 7 of The management of Health and Safety at Work Regulations 1999 is All-Safe Safety & Environmental management. In this capacity, All-Safe is responsible for providing the management of D J MacAulay (Construction) Ltd. with the information and advice which they require to ensure compliance with health and safety legislation.

### **GENERAL:**

On arrival, employees of D J MacAulay (Construction) Ltd. will report to RJ McLeod Site Management in respect of the works being undertaken by D J MacAulay (Construction) Ltd., hereafter called “the Company”.

On reporting to Site Management each individual operative will be given a full RJ McLeod Site Induction by the RJ McLeod Health and Safety Officer and their minimum competencies checked against CSCS standards or equivalent. All task specific competencies will be reviewed as and when necessary.

### **SAFE WORK PROCEDURES:**

Where the Company’s operations are likely to put any person at risk, the Site Supervisor will advise the Site Management and agree safe procedures, without relieving the Site Management of its own responsibilities.

### **EMERGENCY REQUIREMENTS AND FIRST AID:**

A first aid box will be available in the company vehicle. Additional first aid facilities will also be present; provided by the Principal Contractor.

DJ MacAulay Operatives and Site Management will be informed of specific site emergency procedures at the site induction.

### **HOUSEKEEPING:**

All dust and debris will be swept up and removed from the working area at the end of each working day and at other times as appropriate; this includes tying wire.

All task specific housekeeping will be detailed in appropriate RJ McLeod Method Statements and Risk Assessments. These housekeeping requirements will mainly be associated with the RJ McLeod Method Statement MS012- "Offloading and Transporting Reinforcement".

DJ MacAulay Operatives and Site Management will be provided with a briefing on RJ McLeod MS012 and asked to sign RJ McLeod Internal Document McL.S 020 – "Record of RAMS Briefing" to confirm that they not only understand the hazards and risks involved with the task but also agree to work to the safe work methodology.

### **PERSONAL PROTECTIVE EQUIPMENT:**

The basic personal protective equipment will consist of hard hat, safety footwear, safety glasses and high visibility vests; no orange hi visibility vests will be worn unless instructed by RJ McLeod Site Management, this is to avoid conflict with vehicle marshalling operatives.

When using abrasive wheels operatives will wear appropriate safety goggles supplied by RJ McLeod Site Management – RJ McLeod company standard requires UVEX Safety Eyewear conforming to DIN EN ISO 9001 to be worn.

Additionally, any personal protective equipment identified as being required in any relevant COSHH assessment or in manufacturer's instructions will be provided and must be worn where appropriate.

### **DISSEMINATION OF HEALTH AND SAFETY INFORMATION:**

Employees will be given all relevant health and safety information prior to commencing work on site. Additional information, which becomes available, will be communicated to the Managing Director and to the site foreman from whom it becomes available. The Managing Director and the site foreman will ensure that this information is communicated to all concerned.

DJ MacAulay Operatives and Site Management will fully participate in RJ McLeod Health and Safety Arrangements as and when required by the RJ McLeod Health and Safety Officer; this will include participation in weekly toolbox talks, weekly site management meetings and Site Environmental Awareness Reporting Systems (SEARS).

All DJ MacAulay operatives will qualify, as an RJM sub-contractor, for the site safety incentive bonus.

### **REPORTING OF ACCIDENTS AND DANGEROUS OCCURRENCES:**

All-Safe Safety & Environmental Management will be contacted immediately in the event of any reportable accident or dangerous occurrence and will report the same to the HSE under RIDDOR and will assist in any accident investigation necessary on behalf of the company.

### **WELFARE FACILITIES:**

Existing on site welfare facilities will be available to employees of the Company with the permission of the Principal Contractor and will be kept clean and tidy at all times.

### **TRAINING:**

All plant operators will be in possession of certificates of training for all items of plant which they will be expected to operate.

### **WORK AT HEIGHTS:**

All work at heights will be carried out from suitable scaffolding provided by the Principal Contractor. Any alterations or modifications required to the scaffolding will be notified to the Site Management and carried out by trained and experienced personnel only. All work at heights and means of access will conform to the requirements of the Work at Height Regulations 2005.

### **WORK IN EXCAVATIONS:**

Prior to any work taking place in excavations, the excavations will be assessed by a competent person as required under the Construction (Health, Safety and Welfare) Regulations 1996 and any precautions identified in these assessments required to prevent the collapse of excavation sides implemented. These may include (but are not restricted to) using trench boxes, battering back the sides to a safe angle or stepping the excavation sides.

## **LIFTING OPERATIONS:**

All task specific lifting operations will be detailed in appropriate RJ McLeod Method Statements and Risk Assessments. The lifting requirements will mainly be associated with the RJ McLeod Method Statement MS012- "Offloading and Transporting Reinforcement".

DJ MacAulay Operatives and Site Management will be provided with a briefing on RJ McLeod MS012 and asked to sign RJ McLeod Internal Document McL.S 020 – "Record of RAMS Briefing" to confirm that they not only understand the hazards and risks involved with the task but also agree to work to the safe work methodology.

## **STEEL FIXING:**

### **General**

Individual lengths or mats will be cut to size using abrasive cutting discs and the pieces manually handled to where required. Pieces will be put in place and tied as per the appropriate drawings and dimensions checked at suitable intervals until the reinforcing steel is completed.

### **Detailed**

- 1 Reinforcement shall be slung to the work area by crane and bottom mat bars placed individually until the entire bottom mat is complete.
- 2 After the scaffold is fully erected and tagged safe for use the plinth bars will be placed, small bundles of bars shall be slung onto the scaffold not more than two bundles of rebar up to a total of 80 kg are to be placed on the scaffold at any one time to avoid overloading of the scaffold after the plinth steel is complete access into the centre shall be by scaffold or cane man basket.
- 3 Vertical shear bars and support chairs are to be slung into the base in bundles and placed working from the centre outwards when all shear bars and support chairs are placed the outer bars are to be placed leaving a access whole until such a time that it has to be closed off after access has been lost through the rebar a platform access will be used to access the base.
- 4 After the first concrete pour has taken place the top mat will be place using two cranes, Fanned bars shall be slung individually then the radius bars shall be slung in bundles onto the mat and placed manually until top mat is complete.
- 5 A access whole shall be formed by spreading open the top mat bars to allow access into the base any vertical bars in the area of the access shall be capped off using plastic mushrooms and a barrier formed round the access to prevent operatives falling through the access.
- 6 Shear bars shall be slung in bundles onto the top mat and placed manually and splices tied off.
- 7 After the second concrete pour has taken place the plinth reinforcement shall be slung to the work area and placed manually until plinth is complete.

## RISK ASSESSMENT SUMMARY

<b>HAZARD IDENTIFIED</b>	<b>HAZARD FACTOR</b>	<b>RISK FACTOR</b>	<b>RISK ASS'MEN. SHEET</b>
Use of abrasive wheels.	Medium	Medium	Ab'wheel.doc
Working with cement.	Medium	Medium	Cement.doc
Work involving the use of cutting tools.	Medium	Medium	Cutting.doc
Work in dusty conditions.	Low	Medium	Dust.doc
Manual handling.	Medium	Medium	Handling.doc
Work at heights.	High	Medium	Height.doc
Mechanical handling.	High	Medium	Mechhand.doc
Working with mineral oils.	Medium	Medium	Minoils.doc
Use of portable power tools.	High	Medium	Powrtool.doc
Work from scaffolds.	High	Medium	Scaff.doc
Working close to tidal water.	Medium	Medium	Tide-wat.doc
Working close to water courses.	Medium	Medium	Water.doc

## METHOD STATEMENT SIGNATURE LIST

By signing the list below I am confirming that I have read and understood the above method statement and agree to work thereby.

Name	Signature	Date